APPLICATION FOR PREAPPROVED PREFABRICATED COMPONENTS AND SYSTEMS

OFFICE USE ONLY

APPLICATION #: PCS- 0003

HCAI Preapproved Prefabricated Components and Systems (PCS)

Type: ☐ New ☑ Renewal

Manufacturer Information

Manufacturer: SurePods, LLC

Manufacturer's Technical Representative: Jake Meyer

Mailing Address: 624 N 44th Ave, Phoenix, AZ 85043

Telephone: 321-200-2426 Email: Jakeme@surepods.com

Product Information

Product Name: SurePods Prefabricated Bathroom Pods

Product Type: Pre-manufactured cold form steel self supporting pods

General Description: Single occupancy prefabricated restroom pods constructed in a factory setting

REVIEWED FOR CODE COMPLIANCE
HCAI
PCS-0003
BY: Alireza Asgari
DATE: 07/09/2025
CALIFORNIA BUILDING CODE, 2022

Applicant Information

Applicant Company Name: SurePods, LLC

Contact Person: Jake Meyer

Mailing Address: 624 N 44th Ave, Phoenix, AZ 85043

Telephone: 321-200-2426 Email: Jakeme@surepods.com

I hereby agree to reimburse the Department of Health Care Access and Information review fees in accordance with the 2022 California Administrative Code.

Signature of Applicant: Jake Meyer Digitally signed by Jake Meyer DN: C=US, E=jakeme@surepods.com, O=SurePods, OU=SurePods, CN=Jake Meyer Date: 2025.07.03 11:46:16-07'00' Date: 07/03/2025

Title: Project Manager Company Name: SurePods, LLC

Registered Design Professional Preparing Engineering Report

Company Name: Forell | Elsesser Engineers, Inc.

Name: Marco Scanu California License Number: S4454

Mailing Address: 160 Pine Street, 6th Floor, San Francisco, CA 94111

Telephone: 415-837-0700 Email: m.scanu@forell.com

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APPLICATION #: PCS- 0003

Disciplines Involved

☑ Structural ☐ Architectural ☑ Mechanical ☑ Electrical ☑ Plumbing ☑ Fire Life Safety

OFFICE USE ONLY – HCAI APPROVAL

Signature: Alireza Asgari Date: 07/09/2025

Print Name: Alireza Asgari

Title: Senior Structural Engineer

Approved Version Number V3.0 PCS

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Version History

Version 1.0, Only structural, rectangular several size, weight, Sds

Version 2.0, Addition (not stand alone), 96" x 120" include MEP and Fire and life Safety

Version 3.0, modified TIO in Version 1.0, Method to use of existing PCS for 2025 CBC

Use of Existing PCS for 2025 CBC

Project DPOR Submittal Responsibilities:

Calculate the design force Fp, using ASCE 7-22 equations below:

$$F_p = 0.4 S_{DS} I_p W_p \left[\frac{H_f}{R_\mu}\right]\left[\frac{C_{AR}}{R_{po}}\right] \qquad (13.3\text{-}1)$$

F_p is not required to be taken as greater than

$$F_p = 1.6 S_{DS} I_p W_p \qquad (13.3\text{-}2)$$

and shall not be taken as less than

$$F_p = 0.3 S_{DS} I_p W_p \qquad (13.3\text{-}3)$$

Using ASCE 7-16 equations below and design force Fp from previous section back-calculate S_{DS}. (use $a_P = 2.5$ and $R_P = 3.5$ per PCS)

$$F_p = \frac{0.4 a_p S_{DS} W_p}{\left(\frac{R_p}{I_p}\right)}\left(1 + 2\frac{z}{h}\right) \qquad (13.3\text{-}1)$$

F_p is not required to be taken as greater than

$$F_p = 1.6 S_{DS} I_p W_p \qquad (13.3\text{-}2)$$

and F_p shall not be taken as less than

$$F_p = 0.3 S_{DS} I_p W_p \qquad (13.3\text{-}3)$$

Use the Calculated S_{DS} in the PCS tables. Design force and back calculated S_{DS} must be listed on:

1. Project calculations.
2. May be included on the construction drawings (CD), to possibly reduce an Amended Construction Document (ACD) to a Non-Material Alteration (NMA) – saving time and costs.

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GENERAL NOTES:

1. POD CONSTRUCTION TOLERANCE +/- 1/4"

2. SITE CONTRACTORS WILL BE REQUIRED TO MAKE MEP CONNECTIONS TO BATHROOM PODS AS NEEDED.

3. GENERAL CONTRACTOR WILL BE REQUIRED TO PROVIDE ADEQUATE POD ROUGH-IN SPACE PER SUREPODS™ COORDINATION DRAWINGS.

4. GENERAL CONTRACTOR MUST PROVIDE A FLAT LEVEL FLOOR SURFACE (1/8") MAXIMUM VARIATION OVER POD AREA FOR PROPER INSTALLATION.

5. AN OPTIONAL CONFIGURATION IS A MIRROR IMAGE OF THE DEPICTED PLANS

6. ALL WORK SHALL COMPLY WITH THE CURRENT EDITIONS OF THE CALIFORNIA MECHANICAL AND PLUMBING CODES. IN CASE THE PLANS SHOW MORE STRINGENT REQUIREMENTS, THE PLANS SHALL GOVERN THE DESIGN, YET NOTHING ON THE DESIGN DOCUMENTS SHALL BE INTERPRETED AS AUTHORITY TO VIOLATE CODE(S) OR REGULATION(S)."

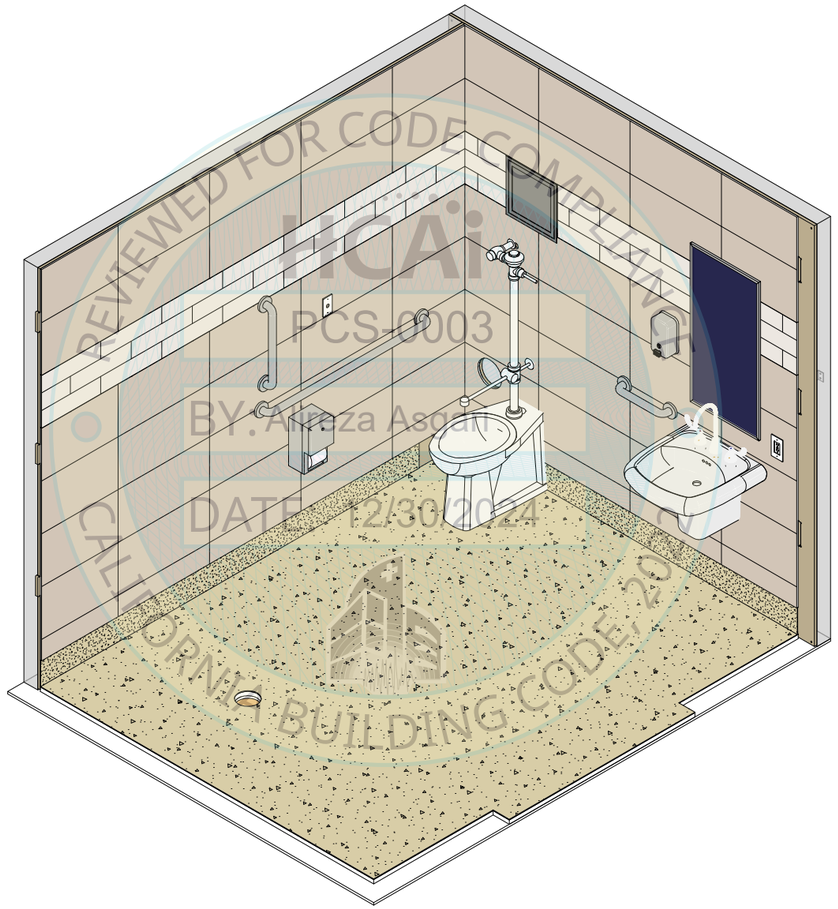
SCOPE OF WORK:

*SEE PROPOSAL AND COORDINATION DOCUMENTS

1- THE CURRENT VERSION OF PCS INCLUDE APPROVED MECHANICAL, PLUMBING, ELECTRICAL AND FIRE AND LIFE SAFETY SCOPE.
2- THE CURRENT VERSION OF PCS DOES NOT INCLUDE ARCHITECTURAL SCOPE. THE ARCHITECTURAL REQUIREMENT SHALL BE REVIEWED AND APPROVED BY OSHPD IN EACH SPECIFIC PROJECT.
3-THIS VERSION OF PCS INCLUDE PARTIAL DATA OF THE STRUCTURAL REQUIREMENT AND SHALL BE USED IN CONJUNCTION OF PCS-0003 VERSION 1 SUREPODS BATHROOM PODS.
4- PROJECT ARCHITECT & ENGINEER OF RECORD RESPONSIBLE FOR SPECIFICATION OF PLUMBING FIXTURES, MECHANICAL FIXTURES, ELECTRICAL FIXTURES, AND INTERIOR FINISHES ON A GIVEN PROJECT, AND TO BE INCLUDED IN THE PROJECT'S PLAN SET. FIXTURES AND FINISHES SHOWN IN THIS DOCUMENT ARE FOR EXAMPLE PURPOSES ONLY.

SurePods

2300 Principal Row, Suite 101 Orlando, FL 32837 www.surepods.com



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PROJECT/LOCATION: HCAI-PCS003 12/30/2024		CUSTOMER: TBD PCS-0003	CHECKED BY: NT	DATE: 7/13/24		
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GENERAL NOTES - COLD FORMED METAL FRAMING:

1. COLD-FORMED METAL FRAMING: THE DESIGN, INSTALLATION AND CONSTRUCTION OF COLD-FORMED FRAMING SHALL BE IN ACCORDANCE WITH AISI S100-16-S2-20 "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS"; AISI S202-20 "CODE OF STANDARD PRACTICE FOR COLD FORMED STEEL STRUCTURAL FRAMING"; AISI S220-20 "NORTH AMERICAN STANDARD FOR COLD FORMED STEEL FRAMING " AND AISI S400-20 "NORTH AMERICAN STANDARD FOR SEISMIC DESIGN OF COLD FORMED STEEL STRUCTURAL SYSTEMS". ALL PRODUCTS SHALL BE MANUFACTURED BY CURRENT MEMBERS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) PER ICC ES REPORT ESR-03064P. PROVIDE ALL ACCESSORIES INCLUDING BUT NOT LIMITED TO TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION AND AS RECOMMENDED BY THE MANUFACTURER FOR THE MEMBERS AND DEVICES USED.

2. WEB PUNCHOUTS: TRACK SECTION SHALL NOT HAVE ANY WEB PUNCHOUTS. WALL STUDS AND CHORDS MAY HAVE WEB PUNCHOUTS ONLY AS FOLLOWS: FOR 1-5/8" STUDS, WEB PUNCHOUTS ARE PERMITTED FOR ANY 33-MIL STUD, AND FOR 43-MIL STUDS FOR CEILING HEIGHTS 8'-0" OR LESS. FOR 3-5/8" STUDS, WEB PUNCHOUTS ARE PERMITTED FOR ALL GAGES AND CEILING HEIGHTS. WEB PUNCHOUTS, WHEN USED, SHALL COMPLY WITH SSMA STANDARDS, USING 3/4" X 4" AT 24" O.C. MINIMUM SPACING FOR 1-5/8" STUDS AND 1-1/2" X 4" AT 24" O.C. MINIMUM SPACING FOR 3-5/8" STUDS.

3. CORROSION PROTECTION: ALL STEEL MEMBERS AND COMPONENTS SHALL BE PROTECTED FROM CORROSION. COLD FORMED AND SHEET METALS SHALL COMPLY WITH ASTM C955 PARAGRAPH 4.4: "MEMBERS SHALL HAVE A PROTECTIVE COATING IN ACCORDANCE WITH TABLE 1,CP 60 MINIMUM."

4. FLAT-STRAP BRACING & GUSSETS: DO NOT USE GRADE 33 SHEET METAL FOR THESE ELEMENTS, SHEET STEEL SHALL CONFORM TO ASTM GRADE 50 CLASS I. FLAT STRAP SHALL BE PROVIDED IN FACTORY CUT WIDTHS WITH NO NOTCHES ALONG THE EDGES AND NO HOLES WHAT-SO-EVER EXCEPT AT SCREWED CONNECTION LOCATIONS. DO NOT USE MATERIAL WITH BENDS OR CREASES DUE TO ACCIDENTAL BENDING.

5. SHEET METAL SCREWS: ALL SCREWS SHALL CONFORM TO ASTM C1513 AND SHALL HAVE A CORROSION RESISTANT COATING. SIZES AND TYPES OF SCREWS SHALL CONFORM TO THE SCHEDULES AND DETAILS HEREIN, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS AND THE FOLLOWING: SCREW LENGTH AND DRILL POINTS SHALL BE SELECTED SO THAT SCREW THREADS SHALL TAP INTO AND SHALL ENGAGE THE ENTIRE THICKNESS OF ALL PIECES TO BE JOINED AND NOT LESS THAN THREE COMPLETE THREADS SHALL PENETRATE BEYOND THE METAL JOINED. SELF DRILLING SCREWS SHALL BE SELECTED SO THAT THE DRILL POINT COMPLETES DRILLING THRU ALL PLIES BEFORE THE LEAD THREADS BEGIN ENGAGING METAL. WHERE THESE DRAWINGS CALL FOR SCREW SIZE THAT DOES NOT HAVE A DRILL POINT OF SUFFICIENT LENGTH, INCREASE THE SCREW SIZE TO COMPLY WITH THESE REQUIREMENTS. PRE-DRILLED HOLE DIAMETERS SHALL NOT EXCEED THE DIAMETER OF THE DRILL POINT FOR SPECIFIED SCREW. SCREW SPACING AND EDGE DISTANCE SHALL NOT BE LESS THAN 3 TIMES THE NOMINAL SCREW DIAMETER.

6. COLD FORMED TRACK AND STUD: SHEET STEEL SHALL CONFORM TO ASTM C955 AND ASTM A653 SS, WITH MEMBERS 18 GA & LIGHER CONFORMING TO GRADE 33 AND WITH MEMBERS 16 GA AND HEAVIER CONFORMING TO GRADE 50, CLASS I UNLESS NOTED OTHERWISE. DIMENSIONS OF TRACK AND STUD MEMBERS SHALL BE AS DEFINED USING SSMA STANDARD NOMENCLATURE AND AS DEFINED ON THESE DRAWINGS.

6. SHEET METAL SCREW SPECIFICATIONS: SHEET METAL SCREWS CALLED ON THESE DRAWINGS SHALL CONFORM TO THE FOLLOWING:

A. SCREWS DENOTED AS #8 SMS SHALL BE #8-15 (WITH DRILL POINTS #2) WITH MODIFIED TRUSS HEAD (PMTH), SENCO PART NUMBER 08M050CT RFSP, PER ICC ESR-3558.
B. SCREWS DENOTED AS #10 SMS SHALL BE #10-16 (WITH DRILL POINTS #2) WITH PAN HEAD (SPFH), SENCO PART NUMBER 10M075CTMFDS, PER ICC ESR-3558.
C. SCREWS DENOTED AS #12 SMS SHALL BE #12-18 (WITH DRILL POINTS #4) SENCO PART NUMBER 12M087YKFF4X, PER ICC ESR-3558.

7. WELDING OF COLD-FORMED STEEL: WELDING OF STRUCTURAL ELEMENTS IS NOT PERMITTED

8. HOLD-DOWN DEVICES: WITH THE EXCEPTION TO THE DTT-1Z (SEE BELOW) HOLD-DOWN DEVICES CALLED FOR ARE TO BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY PER IAMPO EVALUATION REPORT ES-124. FASTENERS TO METAL FRAMING SHALL BE IN ACCORDANCE WITH THE PRODUCT APPROVAL EVALUATION REPORT. DTT-1Z DEVICES SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY PER ICC-2330 AND SHALL BE ATTACHED TO METAL FRAMING USING 6-#10 SMS.

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PLUMBING ABREVIATIONS:

DHW - "DOMESTIC HOT WATER"
DCW - "DOMESTIC COLD WATER"

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GENERAL NOTES - MISCELLANEOUS:

1. SILL FASTENERS: ASTM A307A, ASTM A307B, OR ASME GRADE 2 BOLTS. LOW PROFILE HEADS MAY BE USED.

2. SCREW ANCHORS: HILTI KH-EZ CARBON STEEL SCREWS ANCHORS. ANCHORS SHALL MEET THE REQUIREMENTS OF AND SHALL INSTALLED IN ACCORDANCE WITH ICC ESR-3027.

3. EXPANSION ANCHORS: HILTI KB-TZ2 EXPANSION ANCHORS. ANCHORS SHALL MEET THE REQUIREMENTS OF AND SHALL BE INSTALLED IN ACCORDANCE WITH ICC ESR-4266.

4. RESIN ANCHORS: ASTM F1554 GRADE 36 ALL-THREAD ONLY, TO BE SET IN THE HILTI HIT RE 500 V3 RESIN. ANCHORS SHALL THE REQUIREMENTS OF AND SHALL BE INSTALLED ACCORDANCE WITH ICC ESR-3814.

5. RESINOUS SETTING MORTAR: NOT USED FOR S-3 PODS

6. NONRESINOUS SETTING MORTAR: LATAPOXY 300. SURFACES SHALL BE PREPARED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

7. STANDARD ABBREVIATIONS: THESE DRAWINGS USE THE FOLLOWING ABBREVIATIONS:
"EA" DENOTES "EACH"
"HSS" DENOTES "HOLLOW STRUCTURAL SHAPE"
"MAX" DENOTES "MAXIMUM"
"MIN" DENOTES "MINIMUM"
"O.C." DENOTES "ON CENTER"
"SMS" DENOTES "SHEET METAL SCREW"
"TYP" DENOTES "TYPICAL"

OSHPD UTILITY BRACING

1. PIPING DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

PIPING DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN 7-22 SECTION 13.6.8 13.6.7, 13.6.5.6 AND 2022 CBC SECTIONS 1616A.10.17, 1616.10.18 AND 1616.10.19

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM #)

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING THE BRACING OF THE PIPE, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM.
THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

DESIGN TO COMPLY WITH ALL OSHPD MODIFICATIONS TO ASCE 7 (1617A) NOTABLY:

COUNTER-TOP EQUIPMENT: REFER TO PIN 68 FOR BRACING REQUIREMENTS

STRUCTURAL BASIS OF DESIGN:

1. GOVERNING BUILDING CODE: THE POD STRUCTURAL DESIGN SHALL MEET THE REQUIREMENTS OF THE 2022 CALIFORNIA BUILDING CODE (CBC) AND THE REQUIREMENTS OF ASCE 7-16.

2. LIVE LOADS: IF THE TOP OF THE POD IS TO BE USED FOR CONSTRUCTION ACCESS ON TOP (I.E. POD LID IS "WALK-ABLE"), THE LIVE LOAD IS 30 PSF UNIFORM LOAD, OR 270LB CONCENTRATED LOAD (ON 1 RAFTER). IF THE LID IS NOT "WALKABLE, THE LIVE LOAD IS TAKEN AS ZERO.

3. WIND LOADS: THESE PODS RAE PERMITTED FOR INTERNAL INSTALLATIONS ONLY, NO WIND LOADS. (PODS ARE DESIGNED FOR A MINIMUM 5 PSF (ASD) LATERAL PRESSURE PER 2022 CBC SECTION 1607A.16.

4. SEISMIC LOADS: PODS ARE DESIGNED TO COMPLY WITH THE "SEISMIC DESIGN" REQUIREMENTS FOR STRUCTURAL COMPONENTS OF ASCE 7-16 CHAPTER 13, USING THE FOLLOWING PARAMETERS:
- SHORT-PERIOD SPECTRAL ACCELERATION, Sds = 0.40, 1.00 & 1.30 AS POSTED ON THE SHEAR WALL REQIUREMENTS EXAMPLES
- COMPONENT IMPORTANCE FACTOR, Ip = 1.5
- COMPONENT ACCELERATION FACTOR, ap = 2.5
- COMPONENT RESPONSE MODIFICATION FACTOR, Rp = 3.5
- OPERATING WEIGHT OF THIS POD, W = 3400 lbs

5. STRUCTURAL ENGINEER OF RECORD (SEOR):
THESE PODS WILL IMPOSE VERTICAL DEAD LOAD REACTIONS AND SEISMIC OVER-TURNING FORCES ON THE SUPPORTING FLOOR STRUCTURE, AND IT IS THE STRUCTURAL ENGINEER OF RECORD'S (SEOR'S) RESPONSIBILITY TO CONFIRM THAT THE SUPPORTING FLOOR STRUCTURE AND ALL ASSOCIATED MEMBERS AND CONNECTIONS IN THE LOAD PATH CAN SUPPORT THESE LOADS ADDITION TO ALL OTHER LOADS IMPOSED ON THE FLOOR STRUCTURE. THE TOTAL OPERATING WEIGHT OF TH EPOD IS LISTED IN THE "STRUCTURAL BASIS OF DESIGN" PRESENTED ABOVE. THE LOCATION OF DEVICES ANCHORING THE POD TO THE FLOOR STRUCTURE ARE SHOWN ON THE "SHEAR WALL KEY PLAN" INCLUDED WITH THIS SUBMITTAL.

REVIEWED FOR CODE COMPLIANCE BY SUREPODS DESIGN TEAM CALIFORNIA BUILDING CODE, 2022

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POD WALL FRAMING REQUIREMENTS - EXAMPLE 1

FOR INFORMATION NOT SHOWN INCLUDING CONNECTIONS, TIO,
DETAILS AND GENERAL NOTES REFER TO PCS-0003 VERSION 1 SUREPODS BATHROOM PODS.

TYPE S3
IP =1.5
Sds = 0.40
Weight =3400 lbs (MAX)
z/h = May vary from 0 to 0.80

SUMMARY OF GEOMETRIC PROPERTIES		
	WALL LENGTH	SHEAR WALL ASPECT RATIO (NOT ROUNDED
WALL #1	96"	1.0
WALL #2	120"	0.80
WALL #3	96"	1.0
WALL #4	35.1875"	2.73
WALL HEIGHT = 96"		
POD ASPECT RATIO = 1.0		

SUMMARY OF WALL DESIGN REQUIREMENTS		
	TYPICAL WALLS	WALL #4
WALL STUDS (Note 1)	See Note 1	See Note 1
BRACING	1.5" (33mil-50ksi)	1.5" (33mil-50 ksi)
CHORDS	362S125-43-33	362S162-54-50
TRACKS	362T125-43-50	362T125-43-50
SILL ANCHORS (Note 2)	(9) 3/8"Φx hef=2"	(9) 3/8"Φx hef=2"
HOLD-DOWNS (Note 3)	Simpson DTT-1Z	Simpson DTT-1Z
HOLD-DOWN ANCHOR	See Note 4	See Note 4

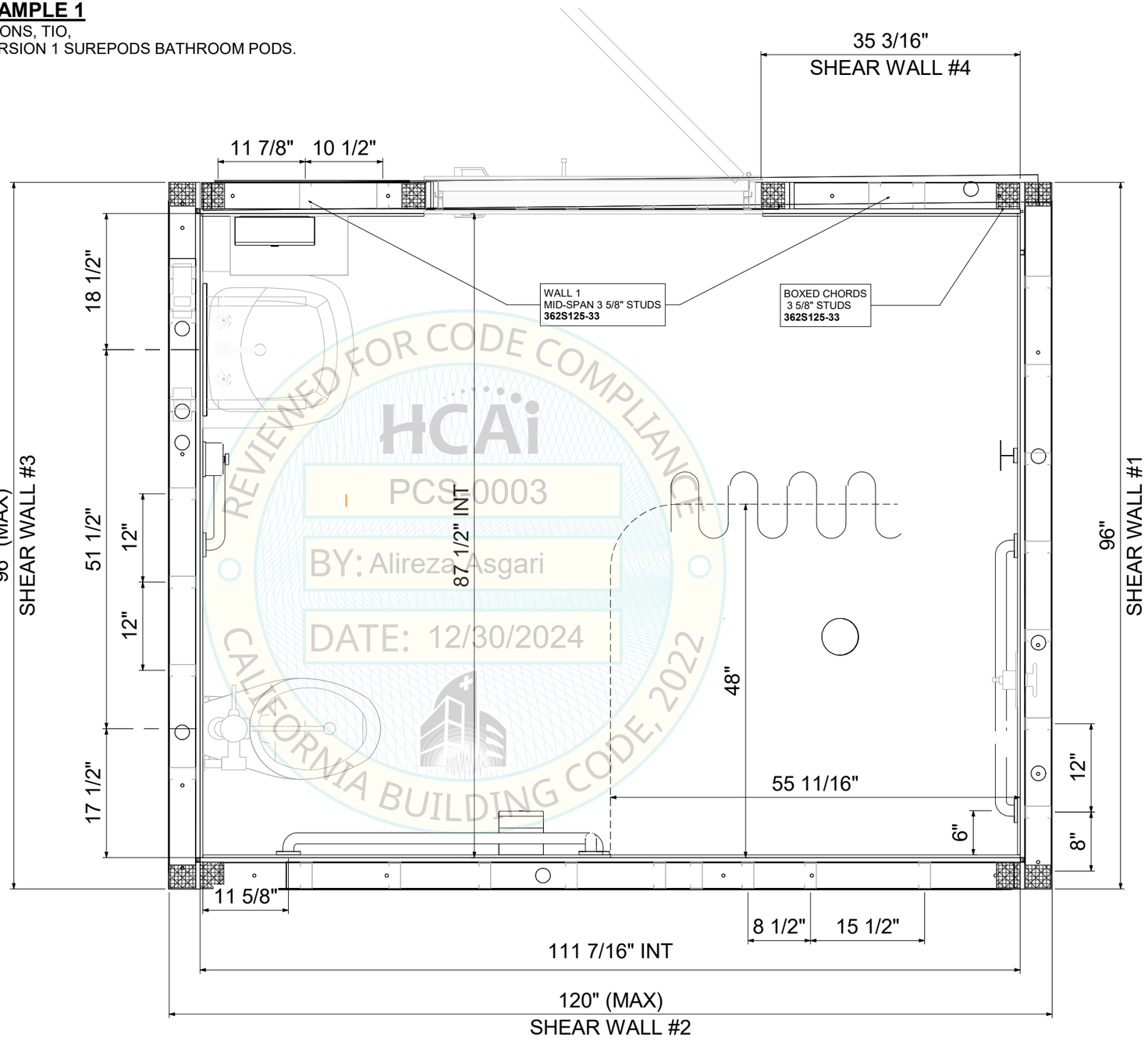
GENERAL NOTES

1. MINIMUM WALL FRAMING 362S125-33-50 @ 12" O.C. EXCEPT STUDS AT LAV AND WATER CLOSET SHALL BE 362S125-68 EITHER SIDE OF FIXTURE, (18" MAX SPACING)

2. PROVIDE HITI KH-EZ SILL ANCHORS PER ICC-ESR-3027, QTY, SIZE AND EMBED NOTED IN THE TABLE. SPACED UNIFORMLY AROUND THE PERIMETER.

3. HOLD DOWNS AND HOLD DOWN ANCHORS TO BE AT EACH CORNER OF THE POD AND AT THE LEFT END OF SHEAR WALL 4(5 TOTAL). All ANCHORS SHOULD BE 3/8" MACHINE BOLT CONNECTING HOLDOWN TO BOTTOM PLATE. SPECIAL INSPECTIONS ARE REQUIRED.

4. ANCHOR HOLD-DOWN TO FLOOR PLATE w/ 3/8" M.B.



2 GEOMETRY PLAN EXAMPLE 1
N.T.S.

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POD WALL FRAMING REQUIREMENTS - EXAMPLE 2

FOR INFORMATION NOT SHOWN INCLUDING CONNECTIONS, TIO,
DETAILS AND GENERAL NOTES REFER TO PCS-0003 VERSION 1 SUREPODS BATHROOM PODS.

TYPE S3
IP =1.5
Sds =1.0
Weight =3400 lbs (MAX)
z/h = May vary from 0 to 0.80

SUMMARY OF GEOMETRIC PROPERTIES		
	WALL LENGTH	SHEAR WALL ASPECT RATIO (NOT ROUNDED
WALL #1	96"	1.0
WALL #2	120"	0.80
WALL #3	96"	1.0
WALL #4	35.1875"	2.73
WALL HEIGHT = 96"		
POD ASPECT RATIO = 1.0		

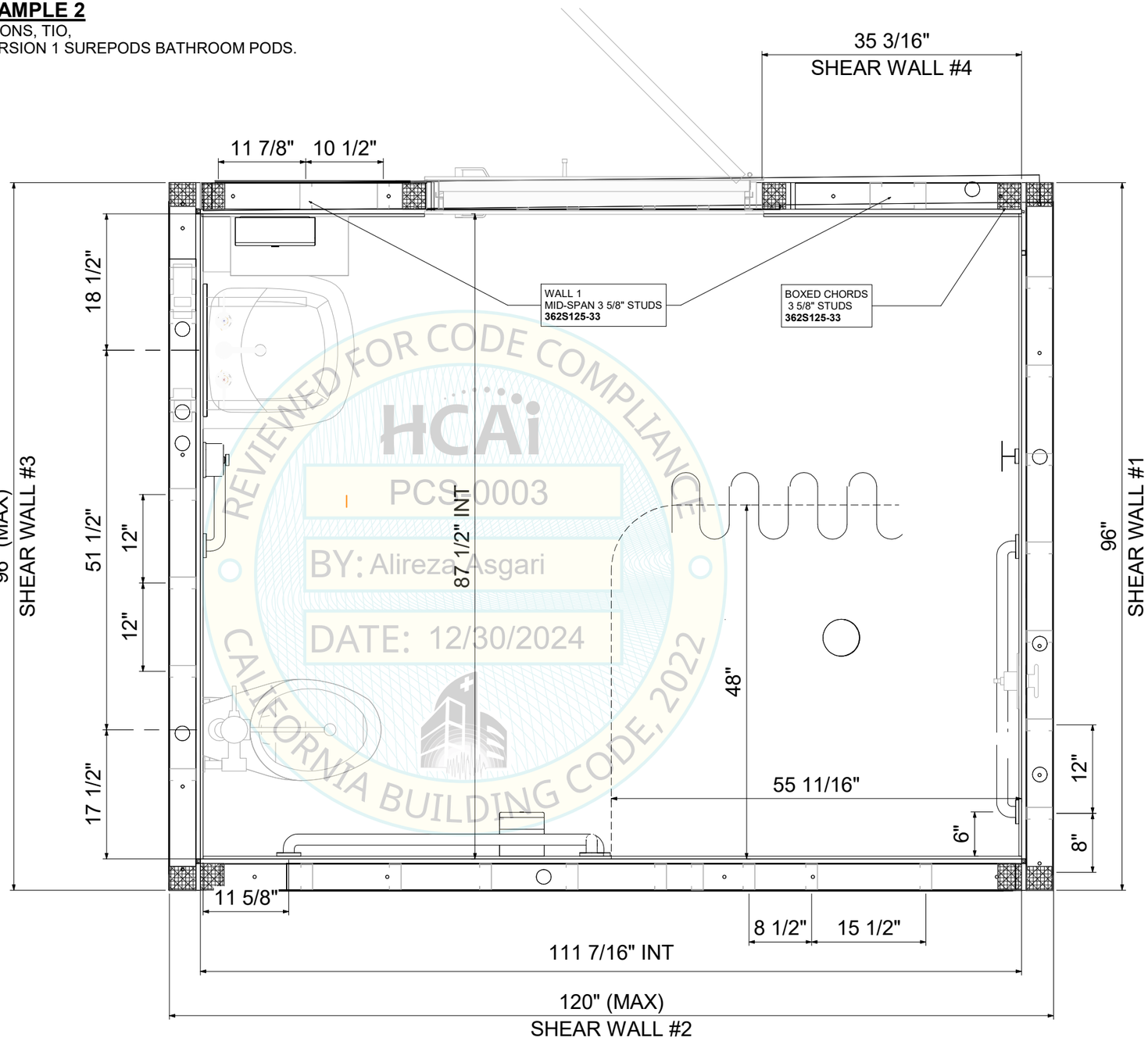
SUMMARY OF WALL DESIGN REQUIREMENTS		
	TYPICAL WALLS	WALL #4
WALL STUDS (Note 1)	See Note 1	See Note 1
BRACING	1.5" (33mil-50ksi)	2.0" (33mil-50 ksi)
CHORDS	362S125-43-33	362S162-68-50
TRACKS	362T125-43-50	362T125-43-50
SILL ANCHORS (Note 2)	(22) 3/8"Φx hef=2"	(22) 3/8"Φx hef=2"
HOLD-DOWNS (Note 3)	Simpson DTT-1Z	Simpson DTT-1Z
HOLD-DOWN ANCHOR	3/8"Φ x hef=2.0"	3/8"Φ x hef=2.0"

GENERAL NOTES

1. MINIMUM WALL FRAMING 362S125-33-50 @ 12" O.C. EXCEPT STUDS AT LAV AND WATER CLOSET SHALL BE 362S125-68 EITHER SIDE OF FIXTURE, (18" MAX SPACING)

2. PROVIDE HITI KH-EZ SILL ANCHORS PER ICC-ESR-3027, QTY, SIZE AND EMBED NOTED IN THE TABLE. SPACED UNIFORMLY AROUND THE PERIMETER.

3. HOLD DOWNS AND HOLD DOWN ANCHORS TO BE AT EACH CORNER OF THE POD AND AT THE LEFT END OF SHEAR WALL 4(5 TOTAL). CORNER ANCHORS SHALL BE HILTI KB-TZ2 PER ICC-ESR-4266. LEFT END OF SHEAR WALL 4 SHOULD BE 3/8" MACHINE BOLT CONNECTING HOLDOWN TO BOTTOM PLATE. SPECIAL INSPECTIONS ARE REQUIRED. ANCHOR DESIGN BASED ON 3.5" ON NORMAL WEIGHT CONCRETE FILL ON A 3"X20 GA METAL DECK FLOOR SYSTEM (f'c = 3,000 psi, MIN) AND DO NOT APPLYTO OTHER FLOOR SYSTEMS.



2 GEOMETRY PLAN EXAMPLE 2
N.T.S.

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TYPE: TYPICAL SIZE	SHEET NAME: STRUCTURAL GEOMETRY PLAN EXAMPLE 2	DRAWING SET: HCAI- T1A	DRAWN BY: AH	SHEET NO: MEPFS-2.1	THIS DOCUMENT IS THE PROPERTY OF SUREPODS, LLC. IT IS SUBMITTED FOR REFERENCE PURPOSES ONLY AND SHALL NOT BE USED IN ANY WAY INJURIOUS TO THE INTERESTS OF SAID COMPANY. COPYRIGHT (C) 2021 SUREPODS, LLC. ALL RIGHTS RESERVED
PROJECT/LOCATION: HCAI-PCS003 12/30/2024		CUSTOMER: TBD PCS-0003	CHECKED BY: GZ	DATE: 7/13/24	
				REVISION: VERSION 2.0	

POD WALL FRAMING REQUIREMENTS - EXAMPLE 3

FOR INFORMATION NOT SHOWN INCLUDING CONNECTIONS, TIO,
DETAILS AND GENERAL NOTES REFER TO PCS-0003 VERSION 1 SUREPODS BATHROOM PODS.

TYPE S3
IP =1.5
Sds = 1.3
Weight =3400 lbs (MAX)
z/h = May vary from 0 to 0.80

SUMMARY OF GEOMETRIC PROPERTIES		
	WALL LENGTH	SHEAR WALL ASPECT RATIO (NOT ROUNDED
WALL #1	96"	1.0
WALL #2	120"	0.80
WALL #3	96"	1.0
WALL #4	35.1875"	2.73
WALL HEIGHT = 96"		
POD ASPECT RATIO = 1.0		

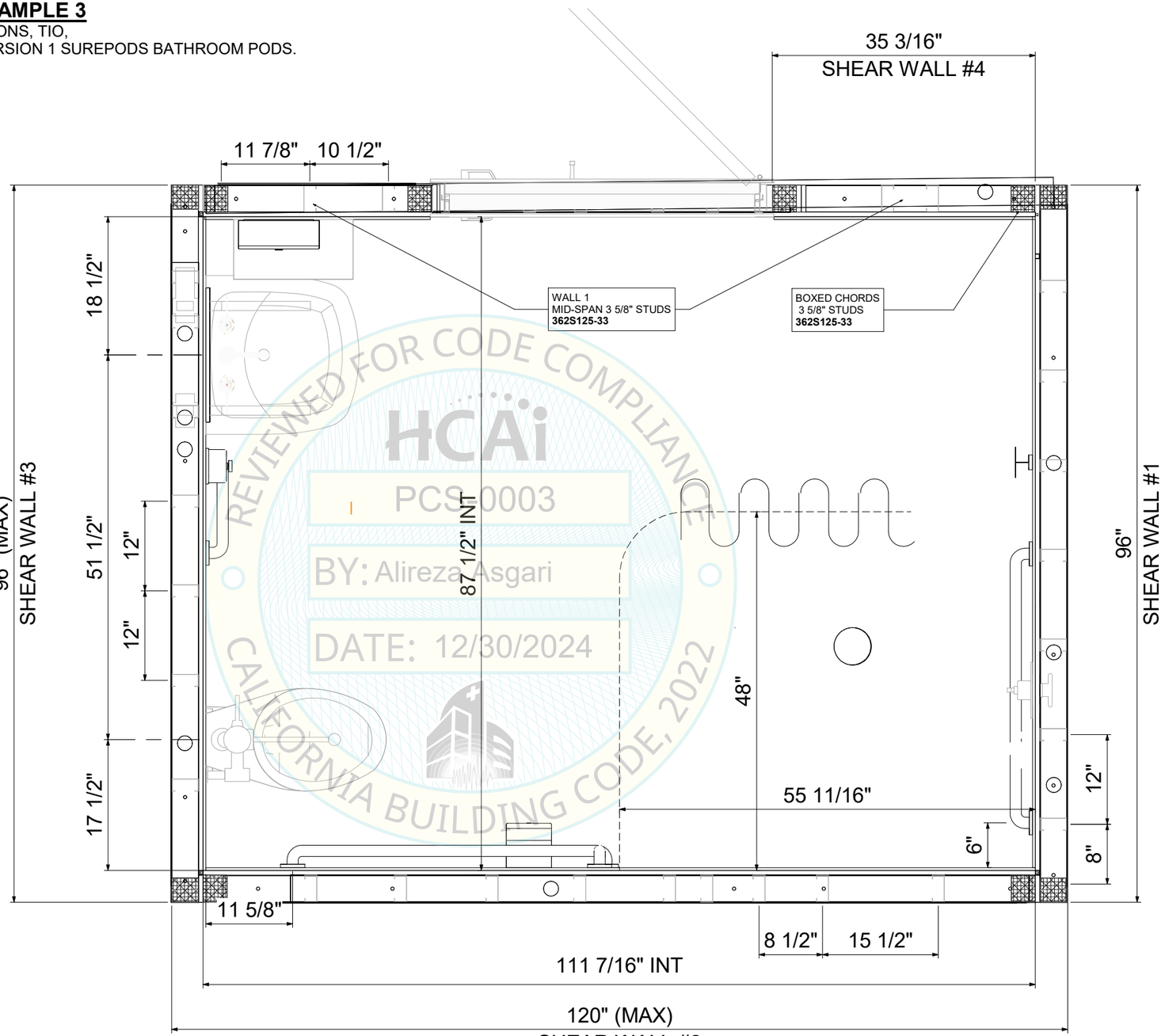
SUMMARY OF WALL DESIGN REQUIREMENTS		
	TYPICAL WALLS	WALL #4
WALL STUDS (Note 1)	See Note 1	See Note 1
BRACING	1.5" (33mil-50ksi)	2.5" (33mil-50 ksi)
CHORDS	362S125-43-33	362S162-68-50
TRACKS	362T125-43-50	362T125-43-50
SILL ANCHORS (Note 2)	(28) 3/8"Φx hef=2"	(28) 3/8"Φx hef=2"
HOLD-DOWNS (Note 3)	Simpson DTT-1Z	Simpson DTT-1Z
HOLD-DOWN ANCHOR	3/8" KBTZ2 x2"	3/8" KBTZ2 X2"

GENERAL NOTES

1. MINIMUM WALL FRAMING 362S125-33-50 @ 12" O.C. EXCEPT STUDS AT LAV AND WATER CLOSET SHALL BE 362S125-68 EITHER SIDE OF FIXTURE, (18" MAX SPACING)

2. PROVIDE HITI KH-EZ SILL ANCHORS PER ICC-ESR-3027, QTY, SIZE AND EMBED NOTED IN THE TABLE. SPACED UNIFORMLY AROUND THE PERIMETER.

3. HOLD DOWNS AND HOLD DOWN ANCHORS TO BE AT EACH CORNER OF THE POD AND AT THE LEFT END OF SHEAR WALL 4(5 TOTAL). Corner ANCHORS SHALL BE HILTI KB-TZ2 PER ICC-ESR-4266. LEFT END OF SHEAR WALL 4 SHOULD BE 3/8" MACHINE BOLT CONNECTING HOLDOWN TO BOTTOM PLATE. SPECIAL INSPECTIONS ARE REQUIRED. ANCHOR DESIGN BASED ON 3.5" ON NORMAL WEIGHT CONCRETE FILL ON A 3"X20 GA METAL DECK FLOOR SYSTEM (f'c = 3,000 psi, MIN) AND DO NOT APPLYTO OTHER FLOOR SYSTEMS.



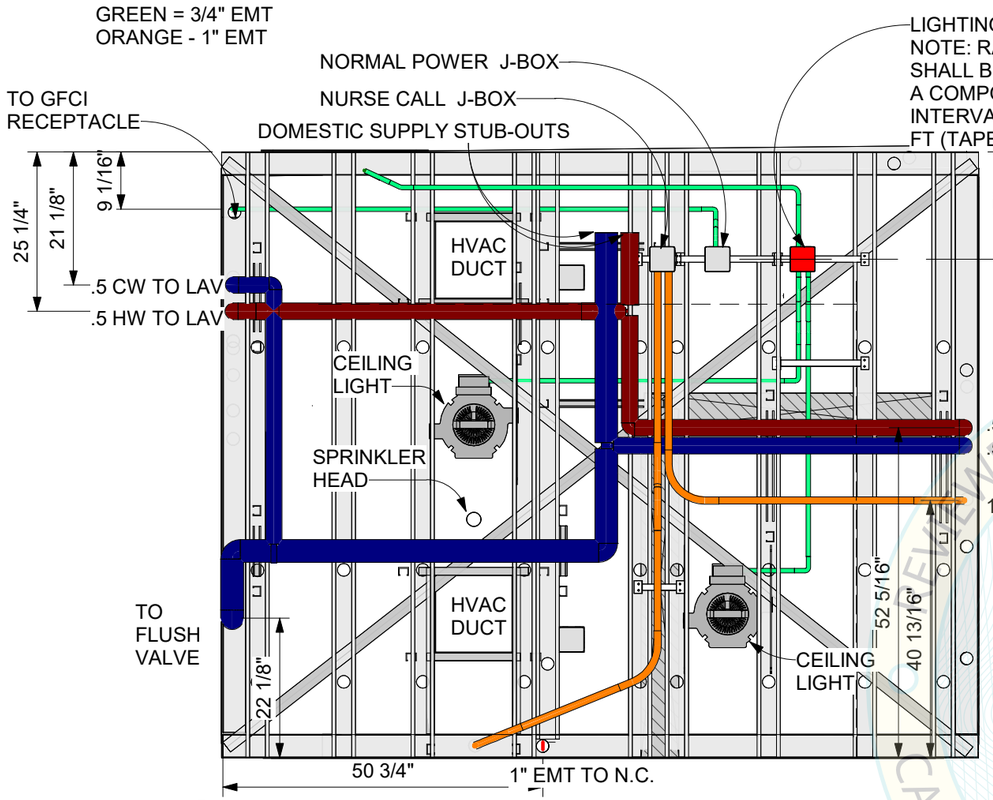
2 GEOMETRY PLAN EXAMPLE 3
N.T.S.

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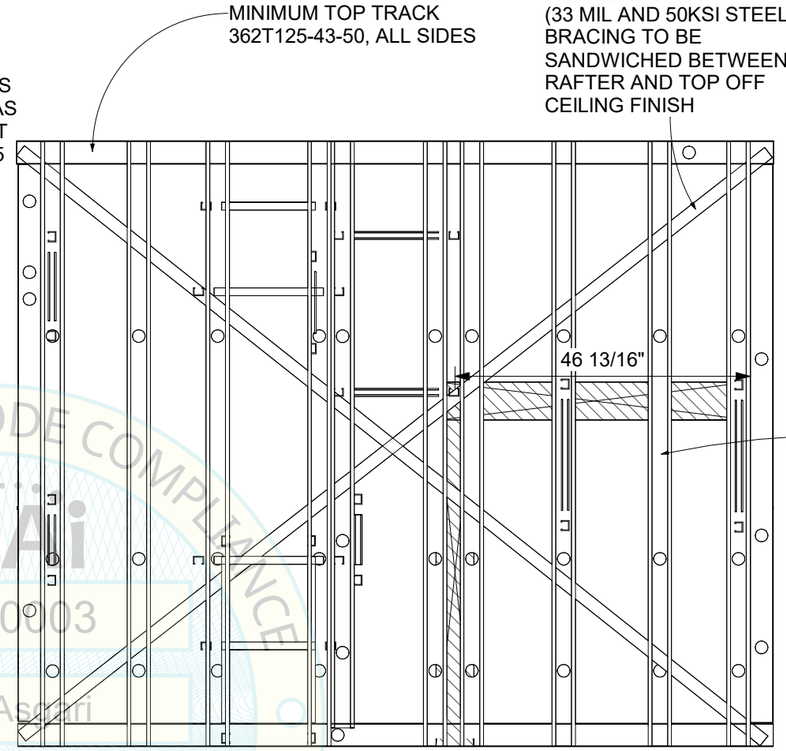
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TYPE: TYPICAL SIZE	SHEET NAME: STRUCTURAL GEOMETRY PLAN EXAMPLE 3	DRAWING SET: HCAI- T1A	DRAWN BY: AH	SHEET NO: MEPFS-2.2	THIS DOCUMENT IS THE PROPERTY OF SUREPODS, LLC. IT IS SUBMITTED FOR REFERENCE PURPOSES ONLY AND SHALL NOT BE USED IN ANY WAY INJURIOUS TO THE INTERESTS OF SAID COMPANY. COPYRIGHT (C) 2021 SUREPODS, LLC. ALL RIGHTS RESERVED
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1 CEILING TOP 1

N.T.S.



2 CEILING FRAME

N.T.S.

NOTES:
1. HOT WATER ABOVE COLD WATER WHEN CROSSING

2. EMT CONDUIT TO BE ROUTED ABOVE CEILING STUDS.

3.FOR INFORMATION NOT SHOWN INCLUDING CONNECTIONS, TIO, DETAILS AND GENERAL NOTES REFER TO PCS-0003 VERSION 1 SUREPODS BATHROOM PODS.

IN ACCORDANCE WITH CBC 803 INTERIOR WALLS AND CEILING WILL HAVE A **CLASS A** RATING.
GEORGIA PACIFIC DENSARMOR PLUS GYPSUM AND CEMCO STUDS TO BE USED IN THIS CONSTRUCTION.



PIPES CLAMPED USING UNISTRUT AND OVER-INSULATION CLAMPS

3 DETAIL 3

N.T.S.

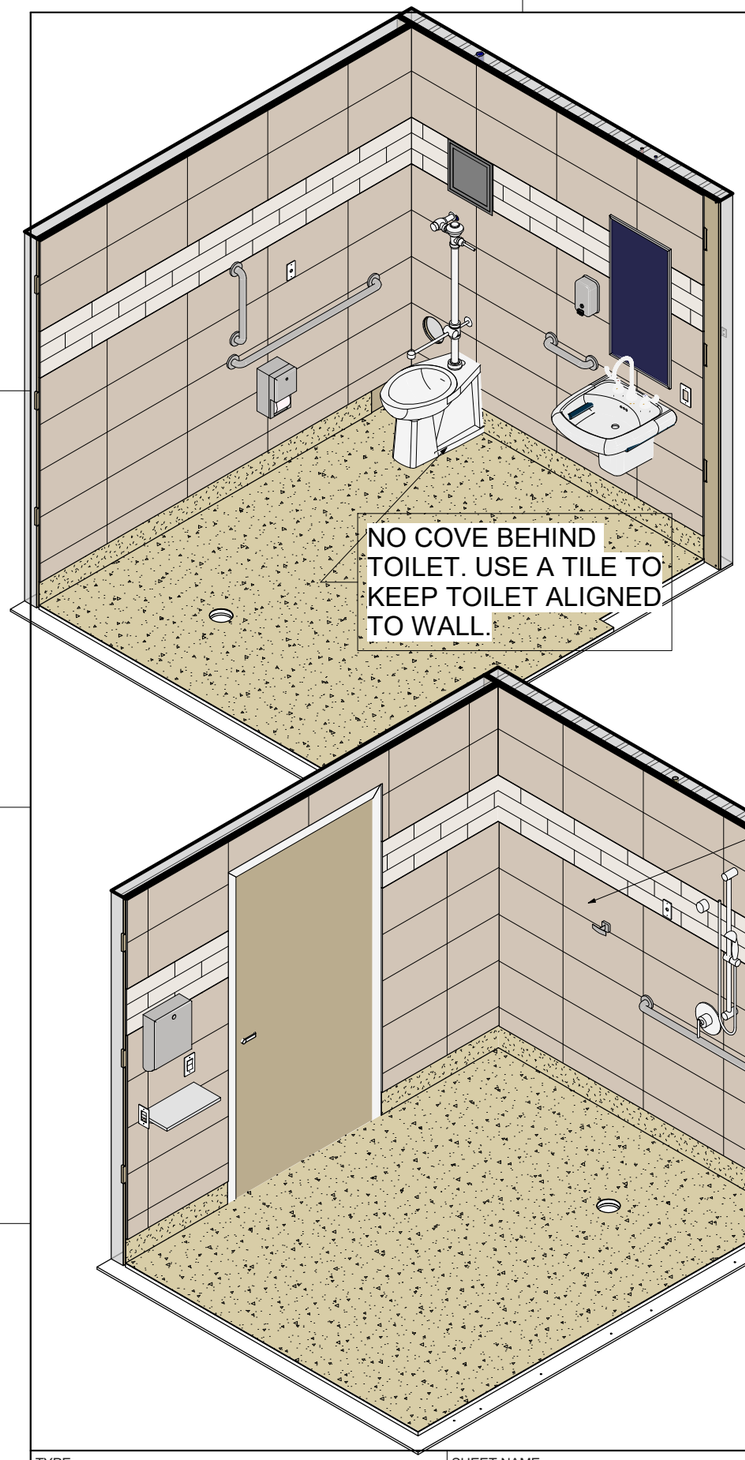
GENERAL NOTES:
1. RAFTER LOCATIONS TO MATCH AND ALIGN TO CENTER OF WALL STUDS BELOW
2. ALL CROSS BRACING CORNERS TO BE TRIMMED OFF AS SHOWN IN DETAILS
3. WALKABLE PLYWOOD CEILING PANEL MIN 1/2" THICKNESS
4. FASTEN 162S125-33 (20GA) ON TOP OF CEILING RAFTERS TO ELEVATE WALKABLE CEILING
CEIILING INSTALLATION:
5. ENSURE CEILING PANEL IS 8-3/8" SHORT IN EACH DIRECTION FROM OVERALL POD SIZE
6. INSTALL RAFTERS ON CEILING PRIOR TO BOX BUILD
7. ONCE POD IS BOX BUILT, INSTALL CEILING. ENSURE CEILING LAYS FLAT/LEVELED ON TOP OF WALL GYP PANELS
8. FOLLOW CEILING DETAILS TO ENSURE PROPER SCREW PATTERNS AND FASTENERS ARE USED FOR EACH RAFTER/ STUD/ WALL CONNECTION

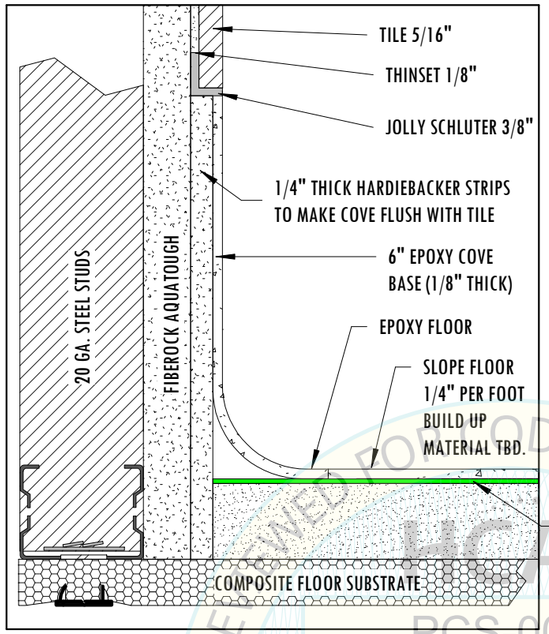
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BY: Alireza Asgari
DATE: 12/30/2024
CALIFORNIA BUILDING STANDARDS CODE 2022
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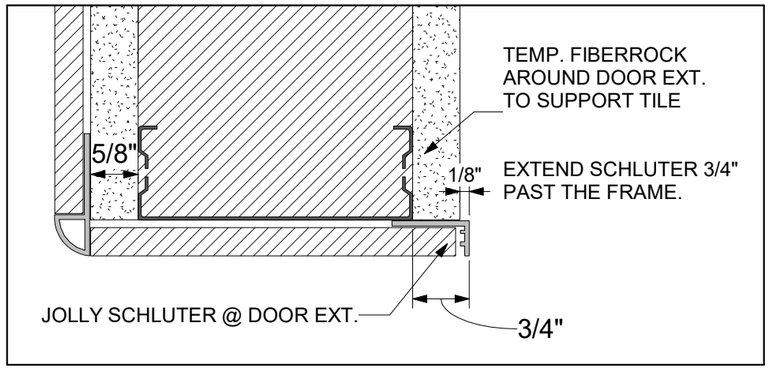
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TYPE: TYPICAL SIZE	SHEET NAME: CEILING PLAN	DRAWING SET: HCAI- T1A	DRAWN BY: AH	SHEET NO: MEPFS-4.0	THIS DOCUMENT IS THE PROPERTY OF SUREPODS, LLC. IT IS SUBMITTED FOR REFERENCE PURPOSES ONLY AND SHALL NOT BE USED IN ANY WAY INJURIOUS TO THE INTERESTS OF SAID COMPANY. COPYRIGHT (C) 2021 SUREPODS, LLC. ALL RIGHTS RESERVED
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				REVISION: VERSION 2.0	

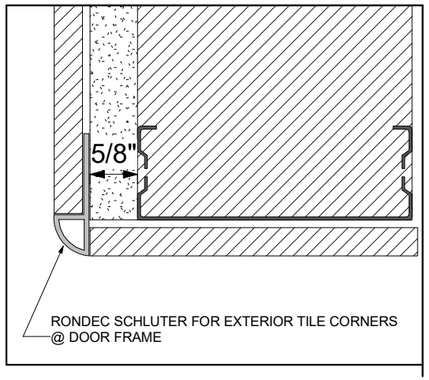




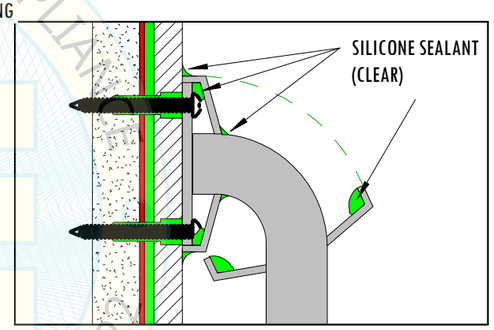
4 DETAIL 5
N.T.S.



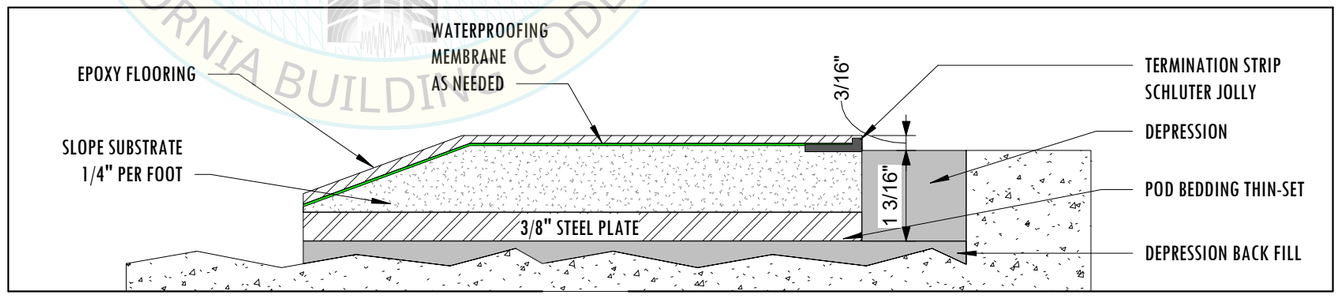
7 DETAIL 8
N.T.S.



6 DETAIL 7
N.T.S.



5 DETAIL 4
N.T.S.



8 DETAIL 6
N.T.S.

Note: DEPRESSION REQUIRED FOR POD WILL LOCALLY REDUCE THE CONCRETE THICKNESS, AND MUST BE ACCOUNTED FOR IN THE FIRE RATED UL DESIGN. POD DEPRESSIONS TO BE COORDINATED WITH SEOR AND AOR.

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TYPE: TYPICAL SIZE	SHEET NAME: DETAILS	DRAWING SET: HCAI- T1A	DRAWN BY: AH	SHEET NO: MEPFS-6.0	
PROJECT/LOCATION: HCAI-PCS003 12/30/2024		CUSTOMER: TBD PCS-0003	CHECKED BY: GZ	DATE: 7/13/24	
				REVISION: VERSION 2.0	

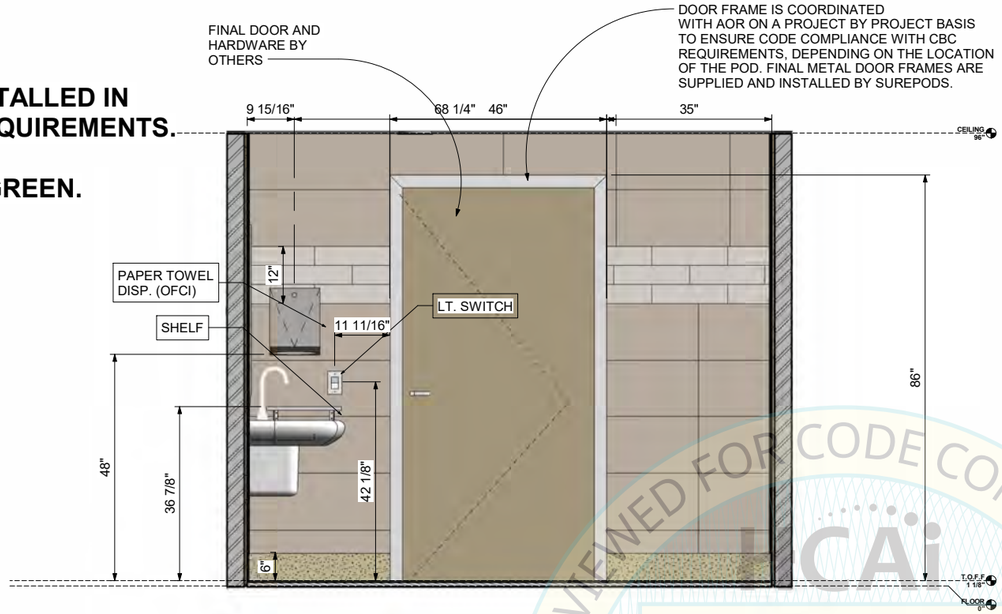
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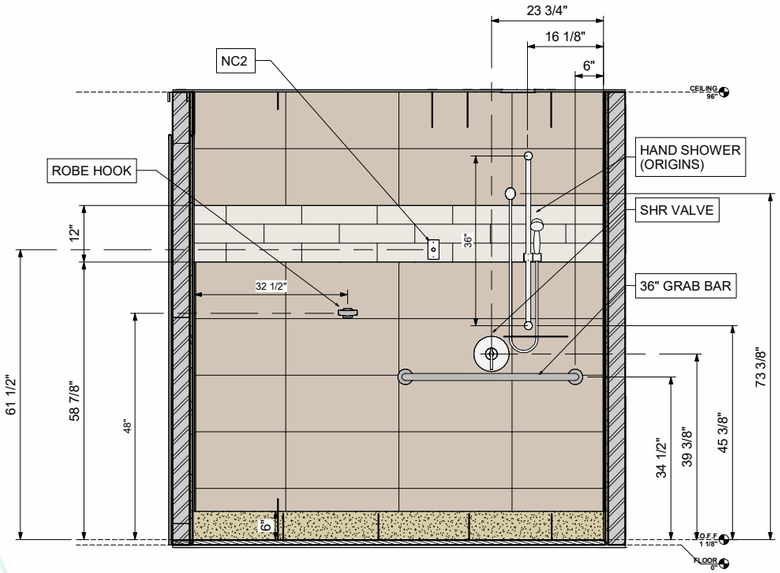
GENERAL NOTES:

1. ALL FIXTURES TO BE INSTALLED IN COMPLIANCE WITH ADA REQUIREMENTS.

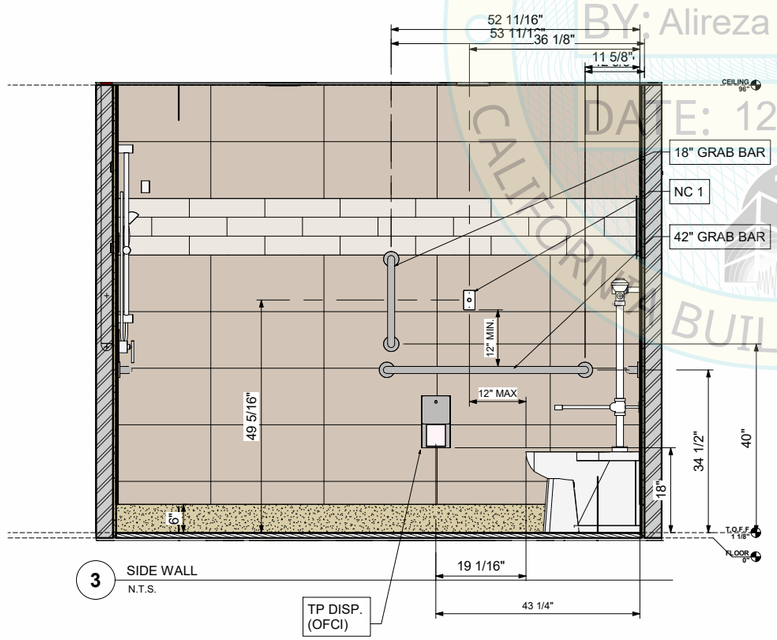
2. FIXTURES TO MEET CALGREEN.



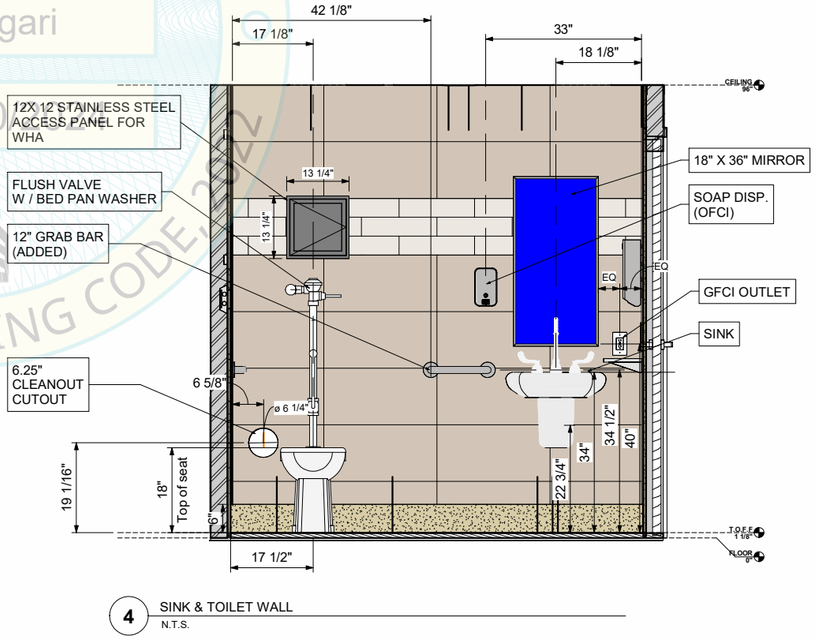
1 DOOR WALL
N.T.S.



2 SHOWER WALL
N.T.S.



3 SIDE WALL
N.T.S.



4 SINK & TOILET WALL
N.T.S.

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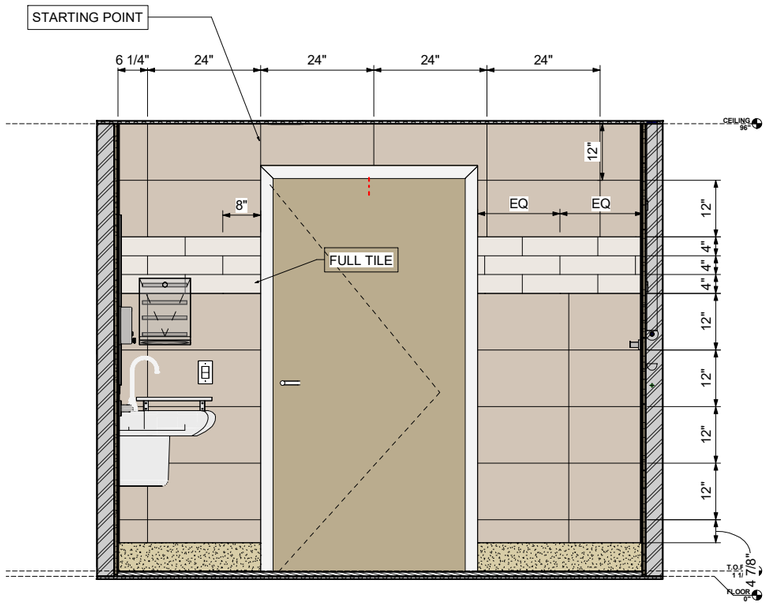
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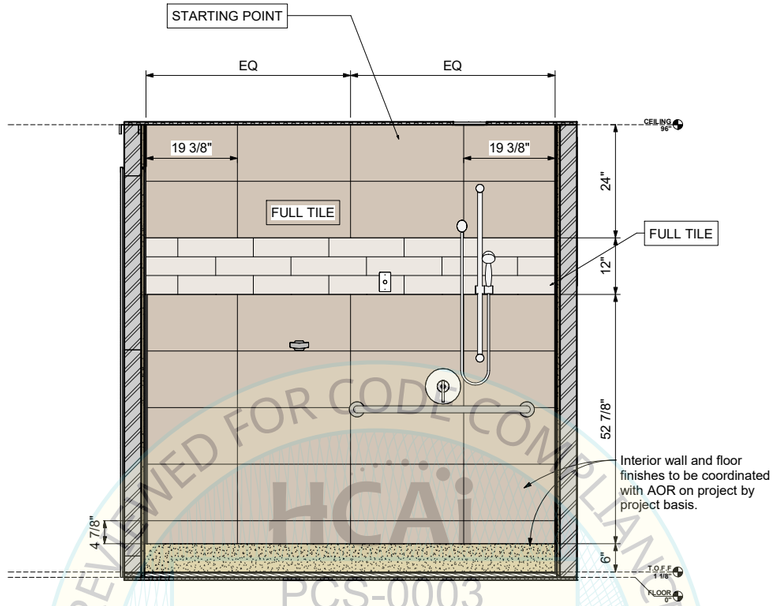
TYPE: TYPICAL SIZE	SHEET NAME: INTERIOR ELEVATIONS	DRAWING SET: HCAI- T1A	DRAWN BY: AH	SHEET NO: MEPFS-8.1	
PROJECT/LOCATION: HCAI-PCS003 12/30/2024		CUSTOMER: TBD PCS-0003	CHECKED BY: GZ	DATE: 7/13/24	
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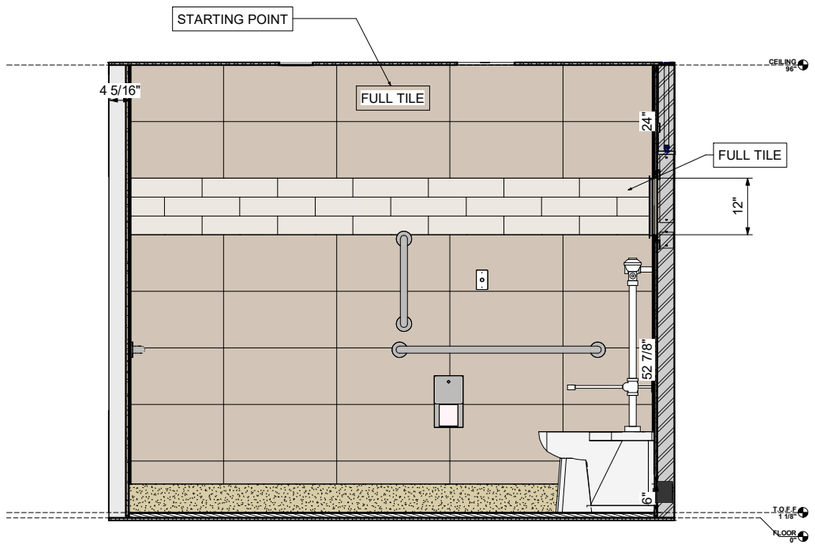
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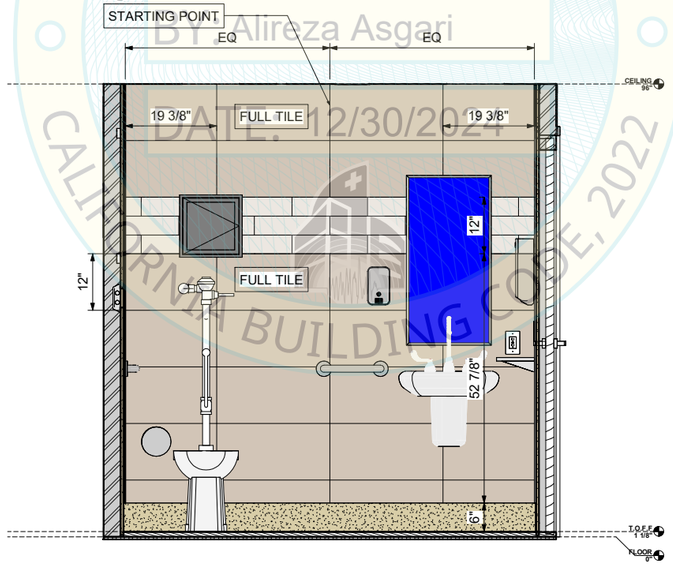
1 DOOR WALL TILE
N.T.S.



2 SHOWER WALL TILE
N.T.S.



3 SIDE WALL TILE
N.T.S.



4 SINK & TOILET WALL TILE
N.T.S.

IN ACCORDANCE WITH CBC 803 INTERIOR WALLS AND CEILING WILL HAVE A **CLASS A** RATING.
GEORGIA PACIFIC DENSARMOR PLUS GYPSUM AND CEMCO STUDS TO BE USED IN THIS CONSTRUCTION.

WALL TILE

MANUFACTURER: DALTILE
PRODUCT: ARTICULO
SIZE: 12(11.75)" X 24"
THICKNESS: 5/16"
FINISH: BEIGE AR07

ACCENT TILE

MANUFACTURER: KAISER
PRODUCT: THOMPSON
SIZE: 4(3.875)" X 16"
THICKNESS: 7.44MM OR .292"
FINISH: NATURAL RIPPLE

WALL TILE GROUT

MANUFACTURER: LATICRETE
PRODUCT: SPECTRALOCK PARTS A,B,&C
THICKNESS:1/8"
FINISH:NATURAL GRAY

TILE THINSET

MANUFACTURER: LATICRETE
PRODUCT: 254 PLATINUM
THICKNESS:1/4" TROWEL

NOTES:
1. CUT TILES ALWAYS AT THE BOTTOM. Full tile @ top
2. TILE IS CENTERED ON EVERY WALL
3. 6" EPOXY COVE AFF. FLUSH WITH TILE
4. DOOR JAMBS ARE TILED AS WELL (NO ACCENT)
5. ALL WALLS GET FULL WATERPROOF
6. BACK BUTTER ALL TILES

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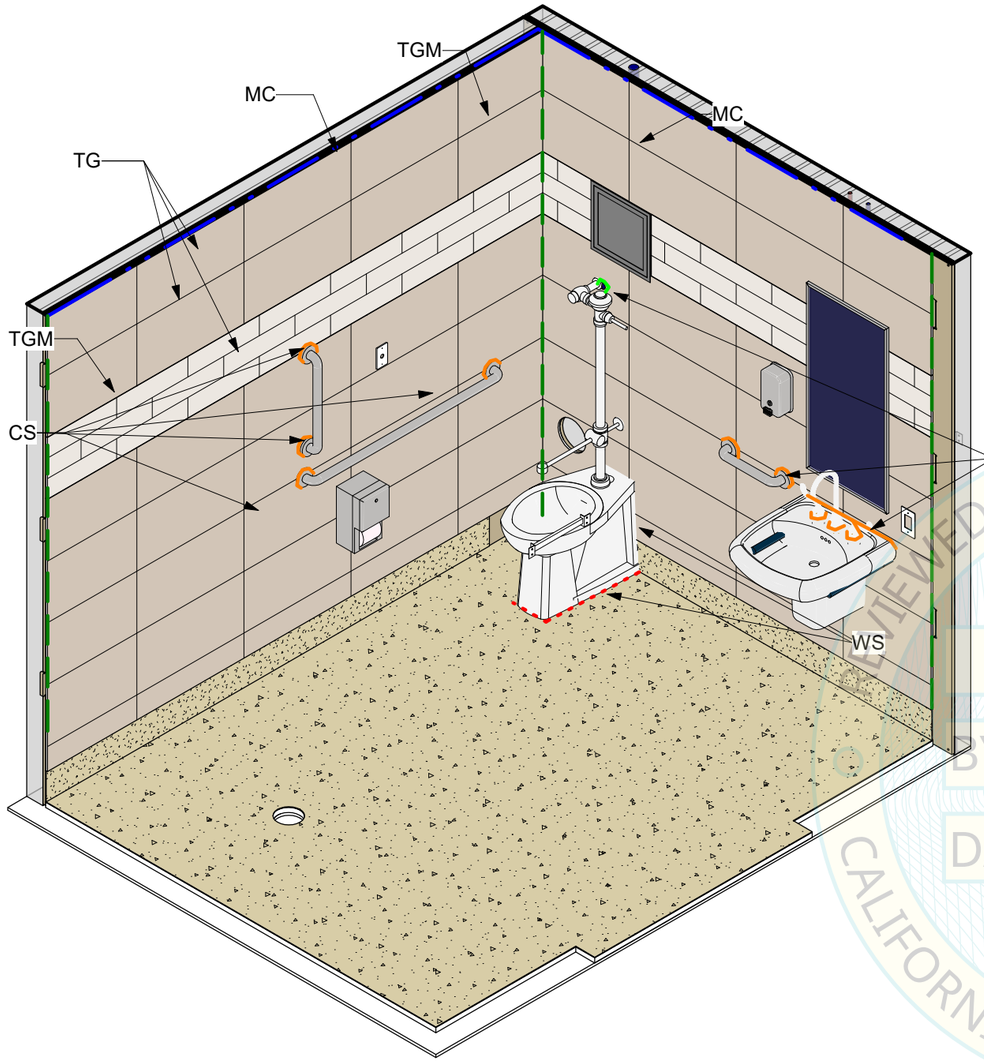
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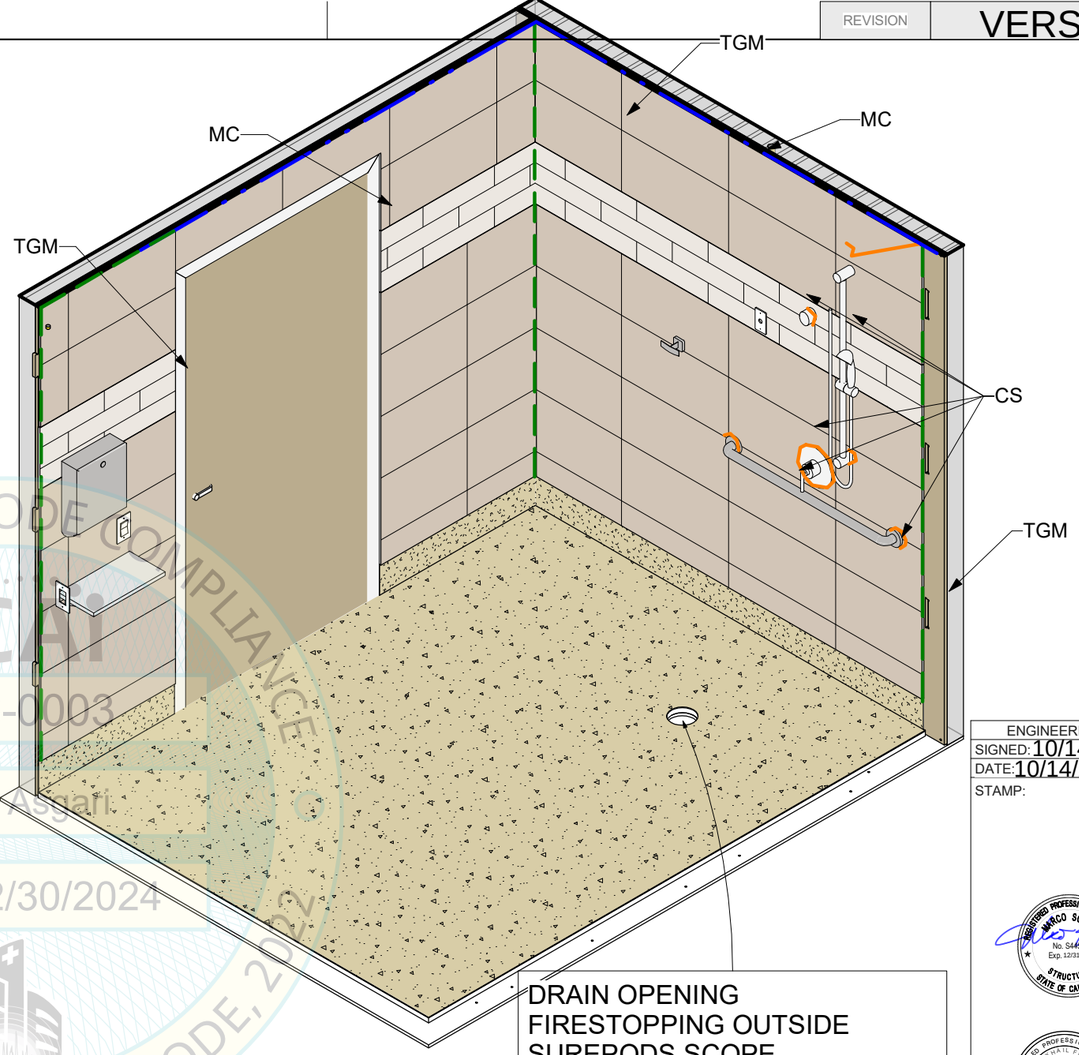
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TYPE: TYPICAL SIZE	SHEET NAME: WALL TILE INSTALL	DRAWING SET: HCAI- T1A	DRAWN BY: AH	SHEET NO: MEPFS-8.2	
PROJECT/LOCATION: HCAI-PCS003 12/30/2024		CUSTOMER: TBD PCS-0003	CHECKED BY: GZ	DATE: 7/13/24	
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DRAIN OPENING FIRESTOPPING OUTSIDE SUREPODS SCOPE. COORDINATED AND INSTALLED BY OTHERS.

GROUT AND CAULK SCHEDULE

SPECIAL / STANDARD NUMBER	DESCRIPTION	COLOR	LINE STYLE
7100 - MC CAULK	LATEX CAULK TO MATCH PPG Speedhide Pro EV Zero, 12-510XI Series	COLOR MATCH	MC
5300011	CAULK, SILICONE SEALANT, RTV, WL09911OC, CLEAR, 10 OZ	CLEAR	CS
7100 - TGM CAULK	LATISIL CAULK MATCH LATICRETE COLOR: LATICRETE #24 NATURAL GREY	COLOR MATCH	TGM
5300010	CAULK, SILICONE, TITEBOND, TIT2601, WHITE, 10.1 OZ.	WHITE	WS
7100 - TILE GROUT	LATICRETE SPRECTRA LOCK #24 NATURAL GREY	NATRUAL GREY	TG

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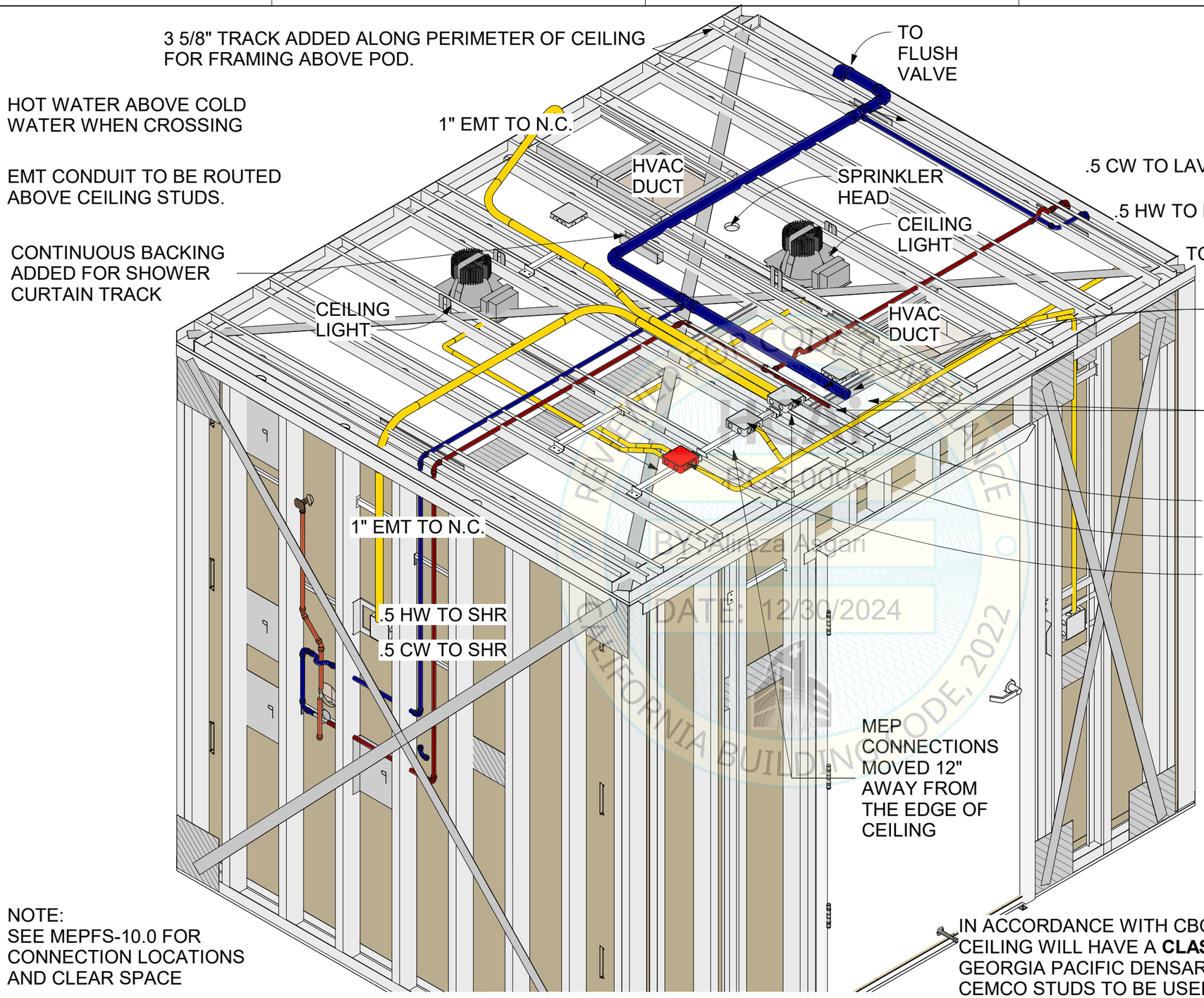
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TYPE: TYPICAL SIZE	SHEET NAME: GROUT & CAULK SCHEDULE	DRAWING SET: HCAI- T1A	DRAWN BY: AH	SHEET NO: MEPFS-8.3	
PROJECT/LOCATION: HCAI-PCS003 12/30/2024		CUSTOMER: TBD PCS-0003	CHECKED BY: GZ	DATE: 7/13/24	
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NOTE:
SEE MEPFS-10.0 FOR CONNECTION LOCATIONS AND CLEAR SPACE

IN ACCORDANCE WITH CBC 803 INTERIOR WALLS AND CEILING WILL HAVE A **CLASS A** RATING.
GEORGIA PACIFIC DENSARMOR PLUS GYPSUM AND CEMCO STUDS TO BE USED IN THIS CONSTRUCTION.

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CALIFORNIA BUILDING CODE, 2022
BY: Alireza Asgari
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TYPE: TYPICAL SIZE	SHEET NAME: CEILING ISOMETRIC	DRAWING SET: HCAI- T1A	DRAWN BY: AH	SHEET NO: MEPFS-8.4	
PROJECT/LOCATION: HCAI-PCS003 12/30/2024		CUSTOMER: TBD PCS-0003	CHECKED BY: GC	DATE: 7/13/24	
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NOTES:
1. WHERE THE SUREPOD IS INSTALLED ADJACENT TO A FIRE-RESISTANCE RATED WALL, THE CONSTRUCTION SHALL COMPLY WITH CBC 803.15.

IN TYPE I AND TYPE II CONSTRUCTION, THE WALLS THAT CREATE A CONCEALED SPACE BETWEEN THE FIRE-RESISTANCE RATED WALL AND THE SUREPOD WALL WILL BE OF NONCOMBUSTIBLE CONSTRUCTION IN ACCORDANCE WITH THE EXCEPTION TO CBC 803.15.1.1. THE WALL CONSTRUCTION WILL BE NONCOMBUSTIBLE AND WILL EXCEED THE CLASS A MATERIAL REQUIREMENT OF CBC 803.15.2.

IN TYPE III, IV, OR V CONSTRUCTION, WHERE COMBUSTIBLE MATERIALS ARE USED IN THE ADJACENT BUILDING WALLS, THE CONCEALED SPACE BETWEEN THE SUREPOD CONSTRUCTION AND ADJACENT WALL ASSEMBLIES SHALL COMPLY WITH CBC 803.15. COMPLIANCE WITH CBC 803.15 AND MATERIALS USED OUTSIDE OF THE SUREPOD WALL ASSEMBLY TO BE ADDRESSED BY THE AOR.

2. SPRINKLERS WILL BE PROVIDED, AS APPLICABLE, PER NFPA 13, CBC 903 AND CBC 35

CONCEALED SPACES BETWEEN THE SUREPOD WALL ASSEMBLY AND THE ADJACENT WALLS WILL BE BUILT OF NONCOMBUSTIBLE MATERIALS IN TYPE I AND TYPE II BUILDINGS (BY OTHERS).

IN TYPE III, IV, OR V CONSTRUCTION, WHERE COMBUSTIBLE MATERIALS ARE USED IN THE ADJACENT BUILDING WALLS, THE CONCEALED SPACE BETWEEN THE SUREPOD CONSTRUCTION AND ADJACENT WALL ASSEMBLIES MAY CREATE A COMBUSTIBLE CONCEALED SPACE.

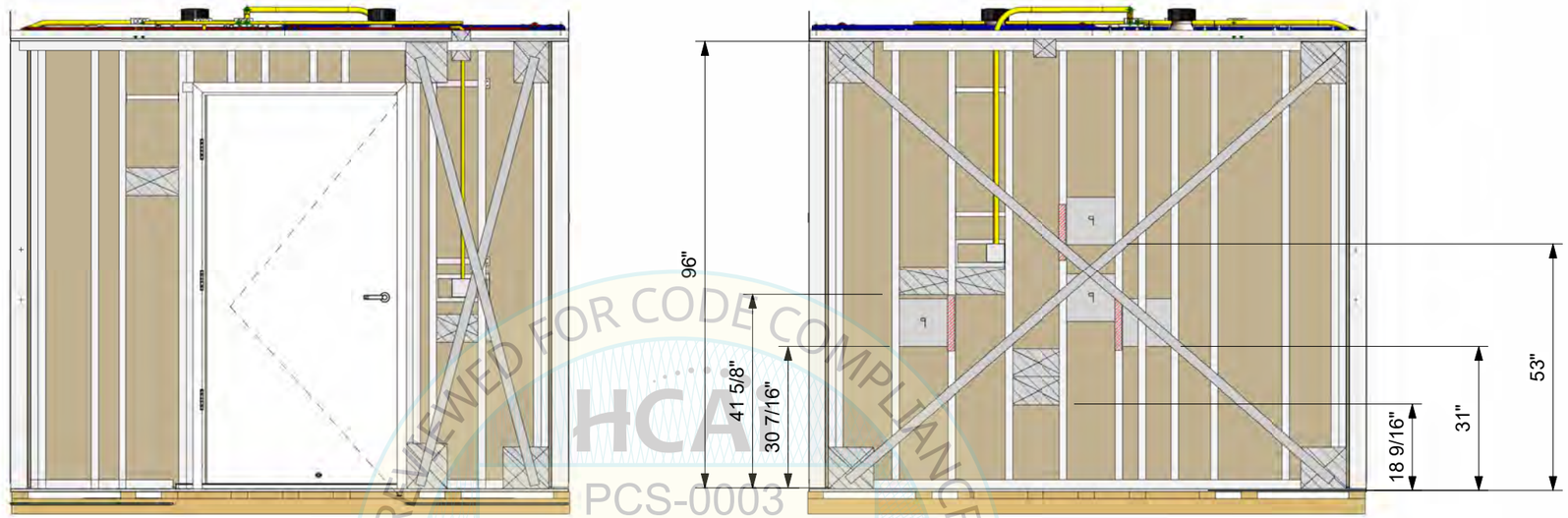
THE SPRINKLER SYSTEM DESIGNER OF RECORD AND AOR WILL BE RESPONSIBLE FOR ADDRESSING NFPA 13 REQUIREMENTS FOR PROTECTION OF THE CONCEALED SPACE EITHER BY THE BUILDING'S SPRINKLER SYSTEM, FILLING THE CONCEALED SPACE WITH INSULATION, OR ONE OF THE OTHER METHODS ADDRESSED BY NFPA 13.

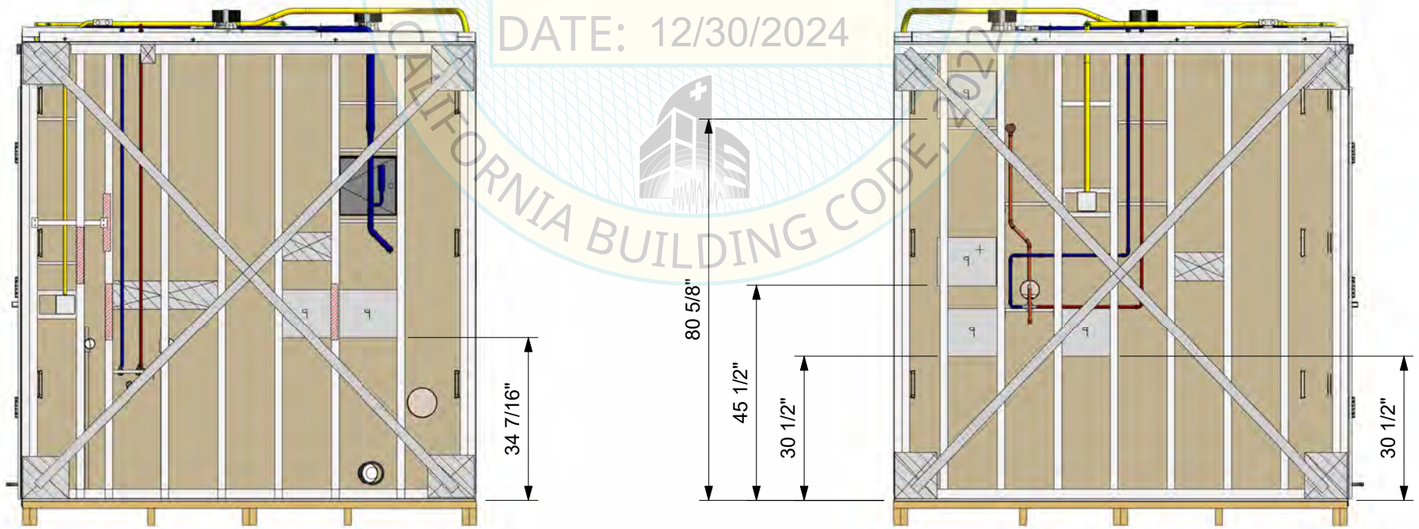
3. USG DENSARMOR PLUS GYPSUM AND CEMCO STUDS TO BE USED IN INTERIOR WALL CONSTRUCTION.

4. NON COMBUSTIBLE MATERIALS ARE TO BE USED IN WALL CONSTRUCTION ACCORDANCE WITH CBC CHAPTER 6

5. POD WALLS ARE NOT INTENDED TO CONTRIBUTE TO FIRE RESISTANCE RATED ASSEMBLIES. ADJACENT RATED WALLS AS APPLICABLE AND ANY FIRESTOPPING OF PENETRATIONS ARE TO BE CONSTRUCTED AND COORDINATED BY OTHERS.

6. PARAPIT WALLS BEING PART OF A FIRE RATED ASSEMBLY ARE TO BE COORDINATED ON A PROJECT BY PROJECT BASIS.





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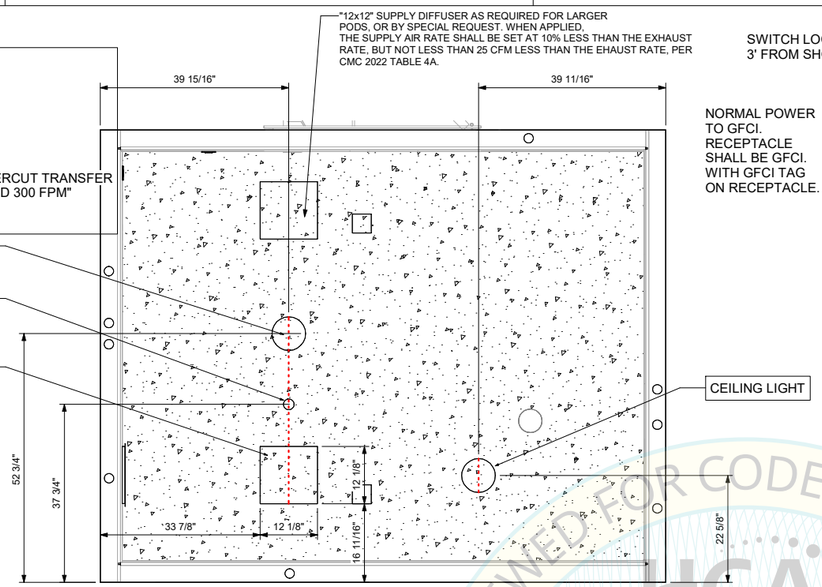
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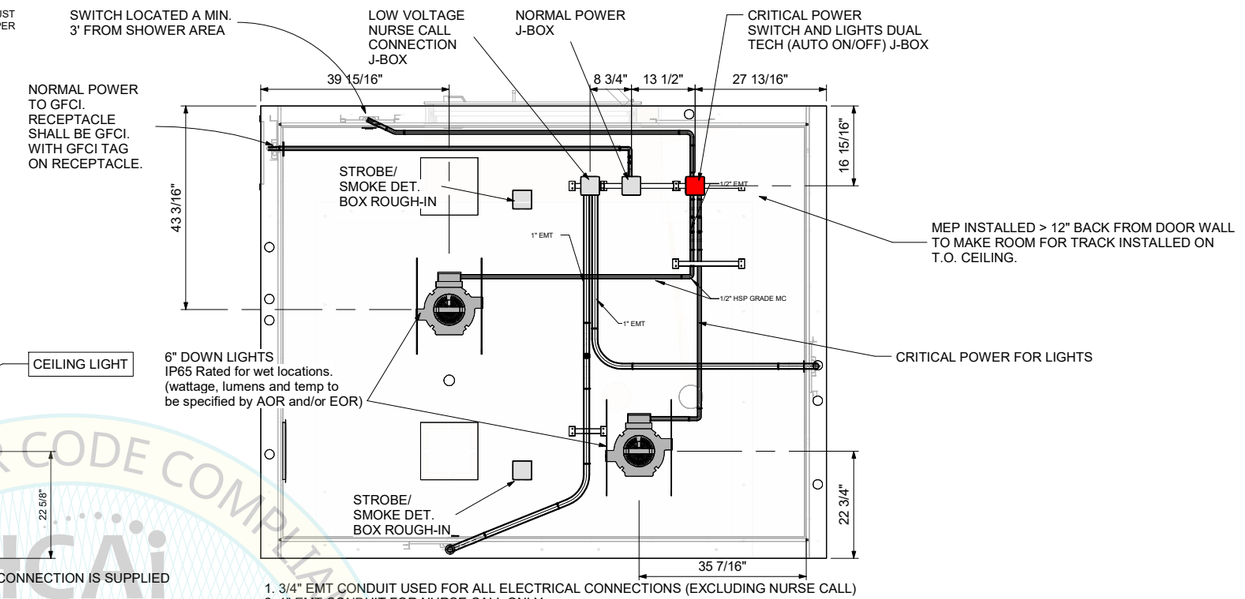
MECHANICAL SPECIFICATIONS:

FAN : 100 CFM
MIN. EXH. AIR: 88 CFM
ACH: 10/HR
EXHAUST %: 100
ROOM SF: 65.45
CEILING HT: 8'
DOOR UNDERCUT HT: "TBD; UNDERCUT TRANSFER AIR VELOCITY SHALL NOT EXCEED 300 FPM"

CODE: CMC 2022 TABLE 4A



1. EXHAUST GRILLE TO BE INSTALLED INSIDE POD BY SUREPODS. FLEXIBLE DUCT FOR CONNECTION IS SUPPLIED AND INSTALLED BY OTHERS
2. SUREPODS TO PROVIDE SPRINKLER HOLE IN CEILING. SPRINKLER PIPING AND SUPPORT TO BE SUPPLIED AND INSTALLED BY OTHERS.



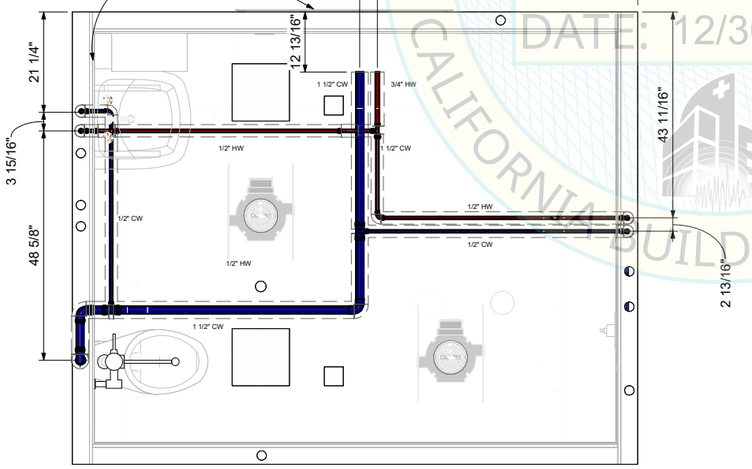
1. 3/4" EMT CONDUIT USED FOR ALL ELECTRICAL CONNECTIONS (EXCLUDING NURSE CALL)
2. 1" EMT CONDUIT FOR NURSE CALL ONLY
3. GREEN GROUND SCREW & 6" PIGTAIL TO BE INSTALLED IN EVERY ELECTRICAL BOX
4. NURSE CALL AND SWITCH TO BE INSTALLED BY OTHERS
5. STROBE AND SMOKE DETECTOR BOXES AND CONDUIT TO BE SPRAY PAINTED RED BY SUREPODS
6. ROUGH-IN FOR SMOKE/HEAT DETECTOR PROVIDED BY SUREPODS. LOCATION COORDINATED WITH AOR ON A PROJECT BY PROJECT BASIS. DEVICE AND WIRING SUPPLIED AND INSTALLED BY OTHERS. (SEE NOTE 2)

NOTES:
1. ALL MATERIALS USED FOR MECHANICAL, ELECTRICAL, AND PLUMBING SHALL COMPLY WITH THE REQUIREMENTS OF CBC 603 FOR COMBUSTIBLE MATERIALS PERMITTED IN TYPE I AND TYPE II BUILDINGS.

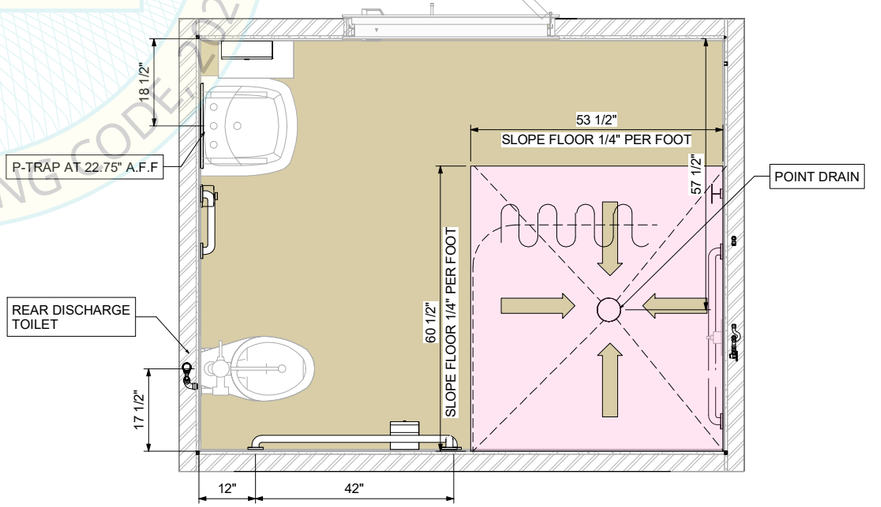
2. IDENTIFICATION SHALL BE PROVIDED AT EACH TERMINATION LOCATION, SPLICE LOCATION, PULLBOX AND JUNCTION BOX FOR ALL CRITRICAL BRANCH CIRCUITS.
   a. INDIVIDUAL WIRE AND CABLE SHALL BE PROVIDED WITH WATER AND OIL RESISTANT, FLEXIBLE, PRESSURE SENSITIVE MACHINE EMBOSSED PLASTIC TAGS THAT WRAP A MINIMUM OF 360 DEGREES AROUND THE WIRE/CABLE DIAMETER. THE ENTIRE TAG SHALL THEN BE COVERED WITH A CLEAR FLEXIBLE WATERPROOF PLASTIC COVER WRAPPED A MINIMUM OF 540 DEGREES AROUND THE WIRE/CABLE DIAMETER AND COMPLETELY COVERING THE IDENTIFICATION.
   b. EACH IDENTIFICATION TAG LOCATION SHALL INDICATE THE FOLLOWING INFORMATION: CIRCUIT NUMBER,CIRCUIT PHASE, SOURCE TERMINATION AND DESTINATION TERMINATION EQUIPMENT NAME (OR OUTLET NUMBER AS APPLICABLE).
   c. RACEWAYS AND CABLES SHALL BE MARKED RED TO IDENTIFY AS A COMPONENT OF THE EES, AT INTERVALS NOT TO EXCEED 25 FT (TAPED OR PAINTED)"

1 HVAC PLAN
N.T.S.

2 ELECTRICAL PLAN
N.T.S.



3 PLUMBING SUPPLY ROUGH-IN PLAN
N.T.S.



4 PLUMBING WASTE ROUGH-IN PLAN
N.T.S.

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KEY NOTES:

1. WATER CLOSET AND FLUSH VALVE TO BE COORDINATED WITH AOR AND INSTALLED BY OTHERS.

2. 12" X 12" ACCESS PANEL TO BE PROVIDED FOR WATER HAMMER ARRESTOR ACCESS.

3. FLOOR MOUNTED, REAR DISCHARGE TOILET

4. WALL HUNG LAV WITH CONCEALED ARM CARRIER

5. CEILING PIPING TO BE SECURED WITH 1 5/8" STANDARD UNISTRUT WITH OVER-INSULATION STYLE CLAMPS SIMILAR TO HOLDRITE HR-728412

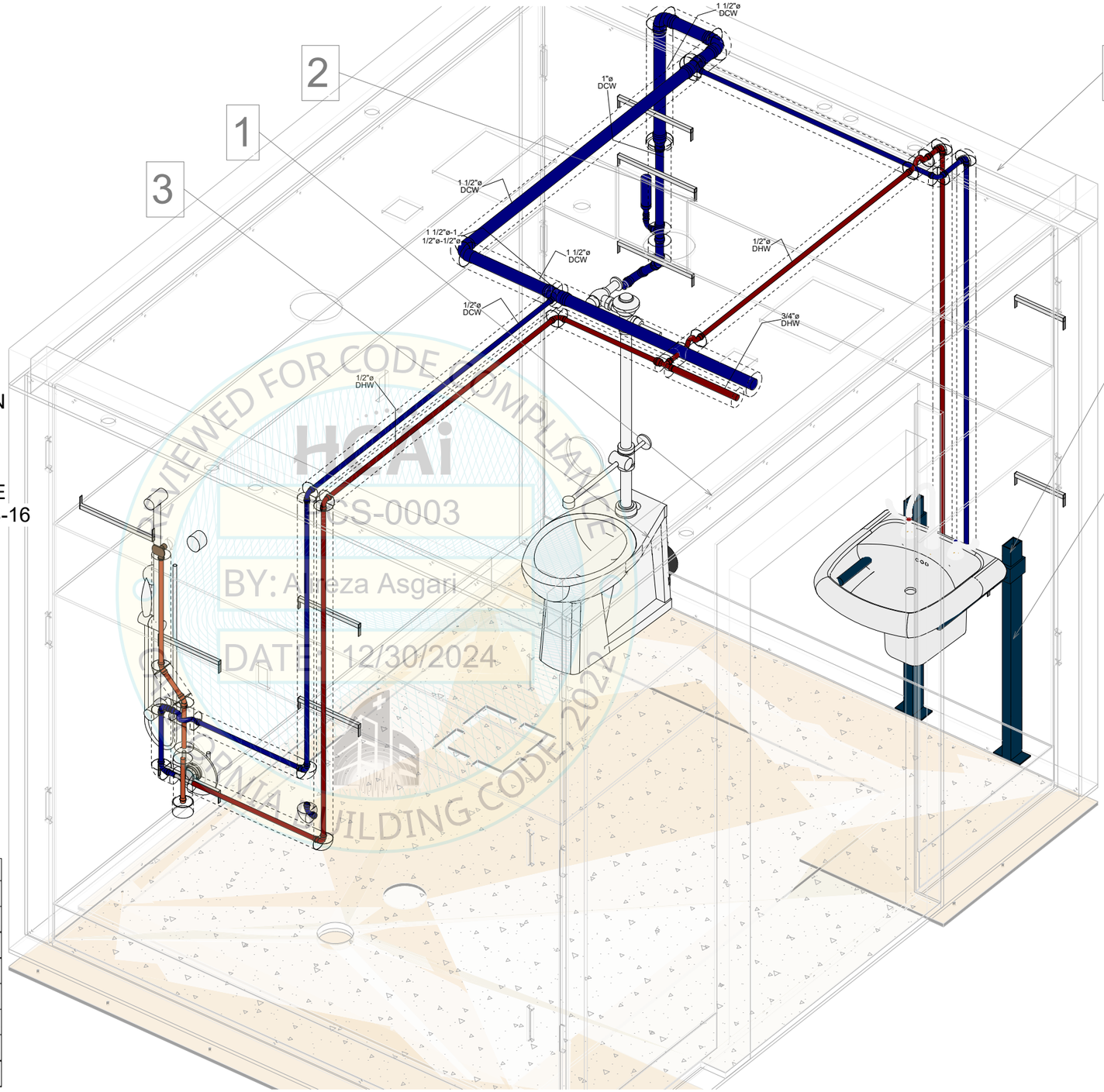
6. CARRIER TO BE MECHANICALLY FASTENED TO STEEL PLATE WITH 3/8-16 HARDWARE. PLATE TO BE DRILLED AND TAPPED 4X PER LEG FOR GRADE 8 3/8-16 X 1" HEX BOLTS AND LOCK WASHERS.

7. PIPE INSULATION TO COMPLY WITH LOCAL AHJ REQUIREMENTS.

9.1 - PLUMBING, PIPES				
ITEM #	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS
1	PIPE,COPPER,3/4	COPPER	TYPE-L	
2	Viega ProPress	Viega	VARIES	

9.4 - PLUMBING, PIPE INSULATION						
ITEM #	DESCRIPTION	MANUFACTURER	MODEL	FINISH	SIZE	COMMENTS
3	GLASS FIBER PIPE INSULATION	Owens Corning	ASJ Max	Fiber Glass	1"	ALL PIPE

Example Fixture Schedule		
CALLOUT	PRODUCT	DETAILS
WC-1	TBD	WATER CLOSET TO BE COORDINATED WITH AOR
FV-1	TBD	FLUSH VALVE COORDINATED WITH AOR
TS-1	TBD	TOILET SEAT TO BE COORDINATED WITH AOR
L-1	TBD	SINK TO BE COORDINATED WITH AOR
F-1	TBD	FAUCET TO BE COORDINATED WITH AOR
FD-1	TBD	FLOOR DRAIN TO BE COORDINATED WITH AOR
SH-1	TBD	SHOWER TO BE COORDINATED WITH AOR

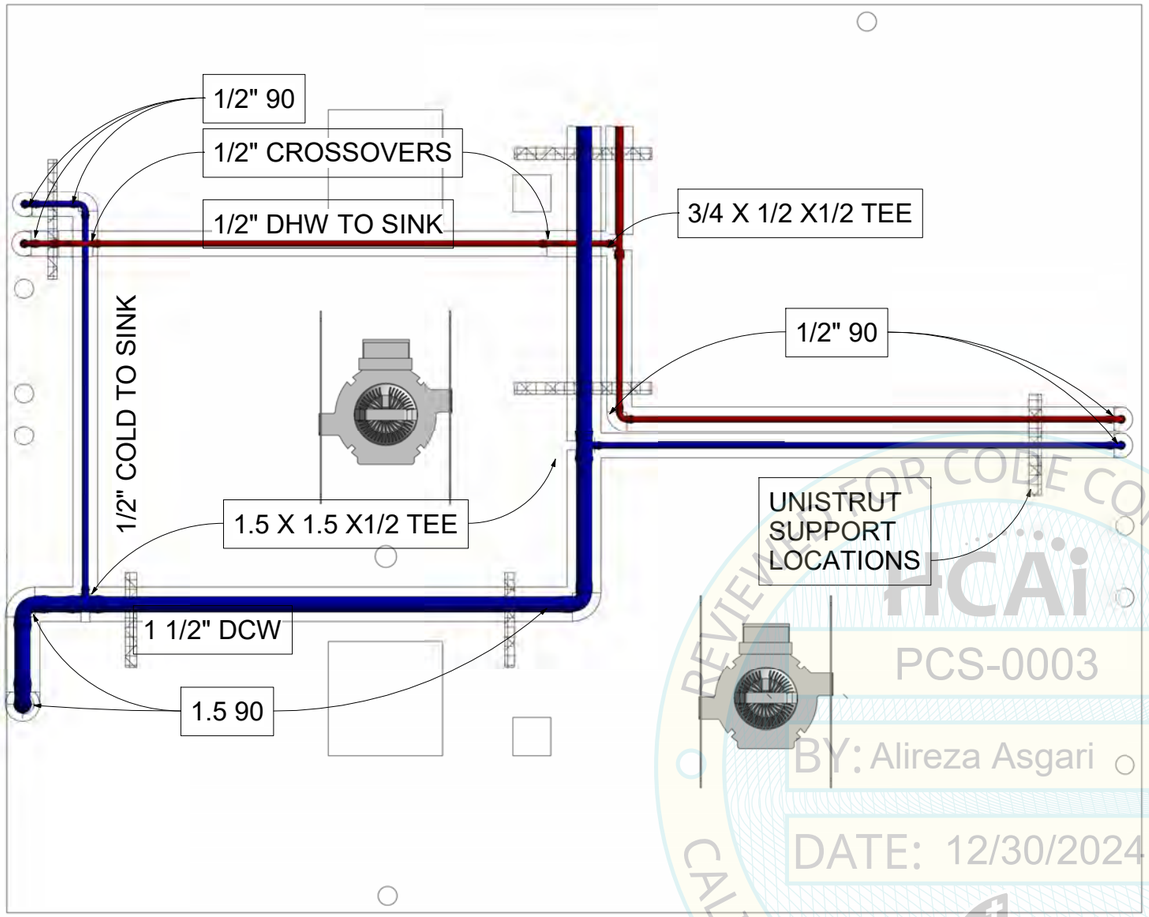


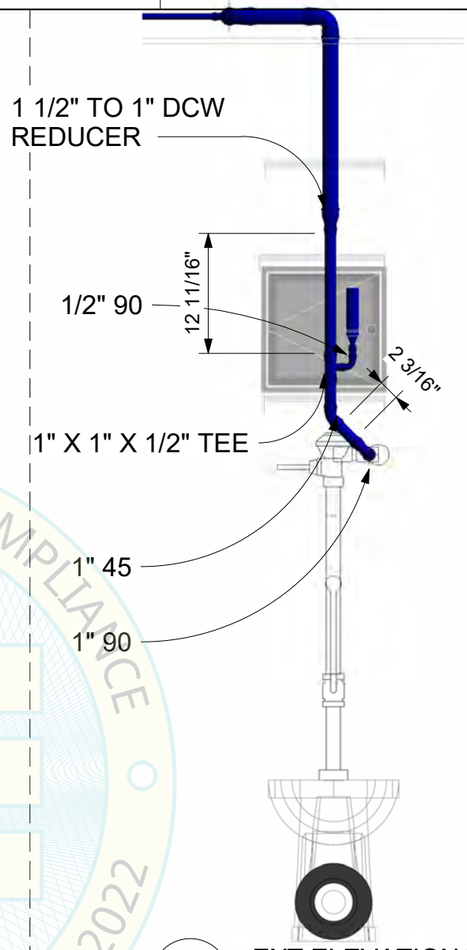
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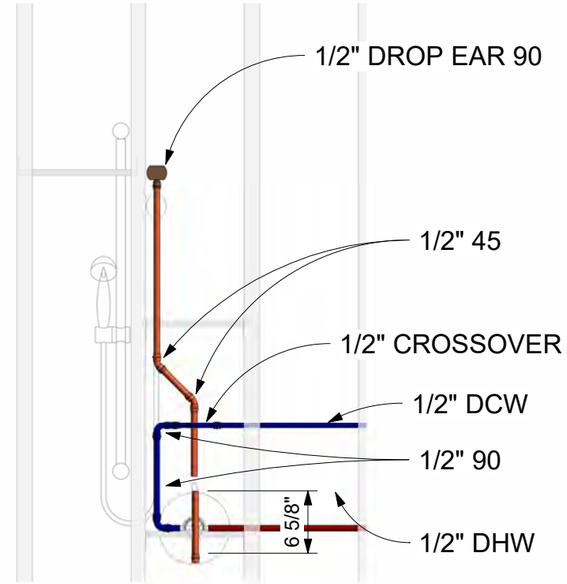
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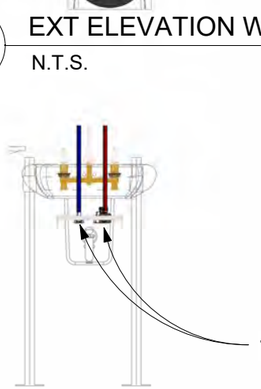


3 EXT ELEVATION WALL 2
N.T.S.

1 1/2" COLD	3/4" HOT TO TEE	1/2" COLD TO SINK	1/2" HOT TO SINK	1" COLD TO TOILET
126 3/4"	12"	119 11/16"	113 3/4"	21"

1/2" COLD TO SHOWER	1/2" HOT TO SHOWER
125 1/4"	140 11/16"

NOTE: PIPE INSULATION TO COMPLY WITH LOCAL AHJ REQUIREMENTS



5 EXT ELEVATION WALL 4
N.T.S.

2 EXT ELEVATION WALL 4 LAV
N.T.S.

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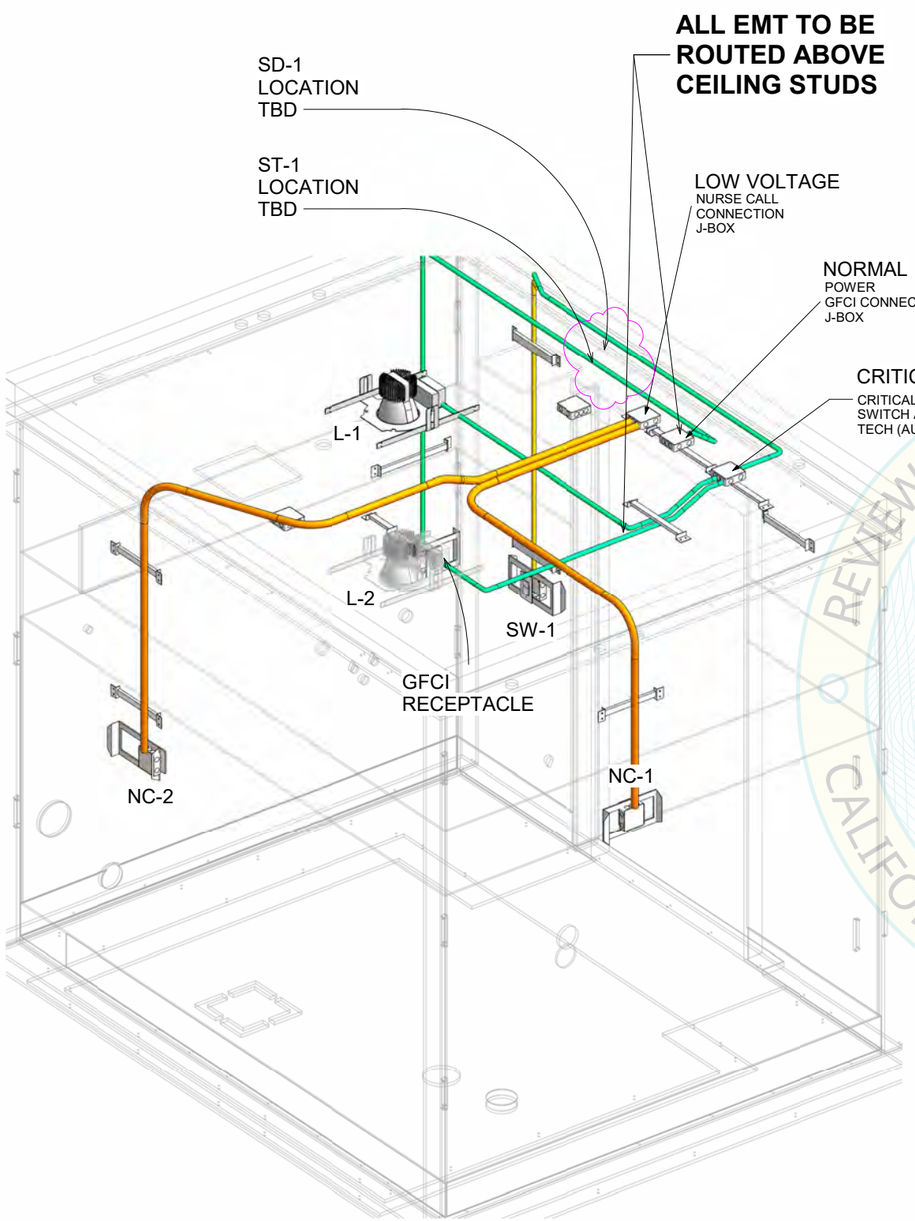
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DATE: 12/30/2024
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TYPE:	SHEET NAME:	DRAWING SET:	DRAWN BY:	SHEET NO:
TYPICAL SIZE	PLUMBING CUTLIST	HCAI- T1A	AH	MEPFS-11.1
PROJECT/LOCATION:		CUSTOMER:	CHECKED BY:	DATE: 7/13/24
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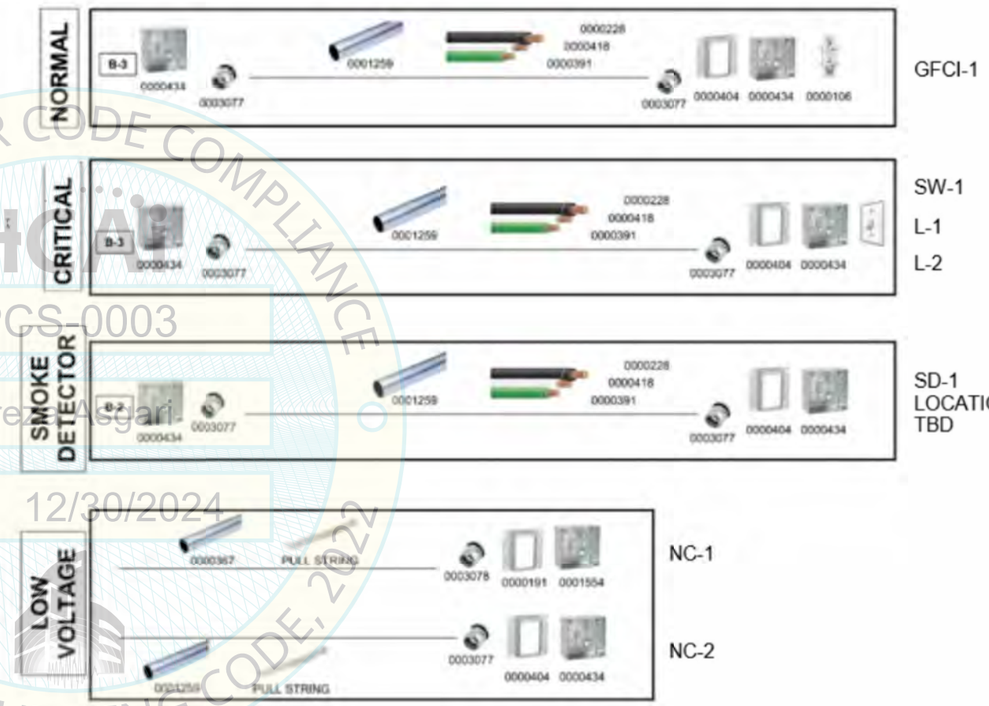
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GENERAL NOTES:

1. 3/4" EMT FOR CRITICAL AND NORMAL CONNECTIONS (GREEN)
2. 1" EMT FOR NURSE CALL (YELLOW)
3. NURSE CALL, AND SMOKE DETECTOR TO BE INSTALLED BY OTHERS
4. STROBE AND SMOKE DETECTOR BOXES AND CONDUIT TO BE SPRAY PAINTED RED



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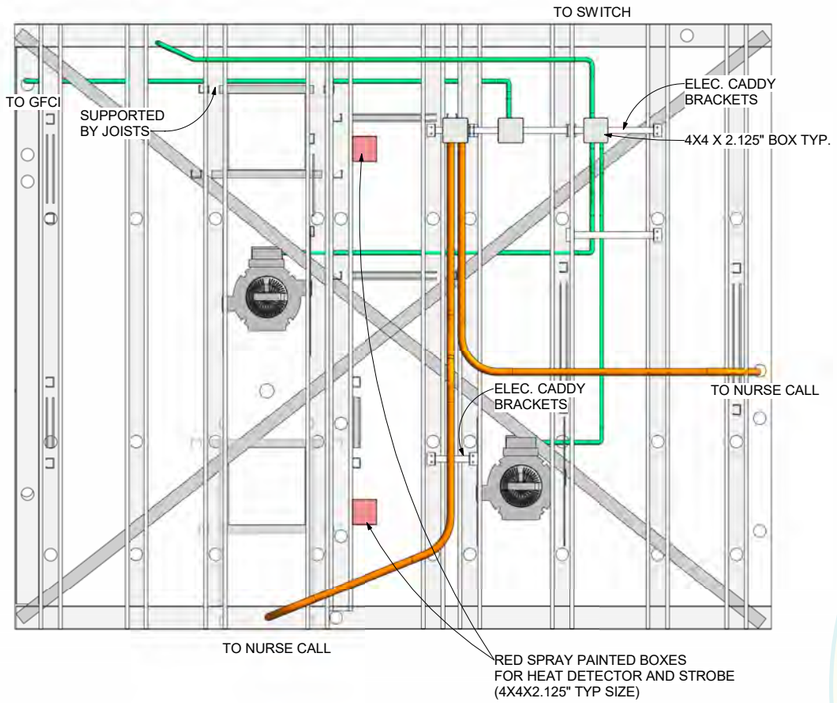
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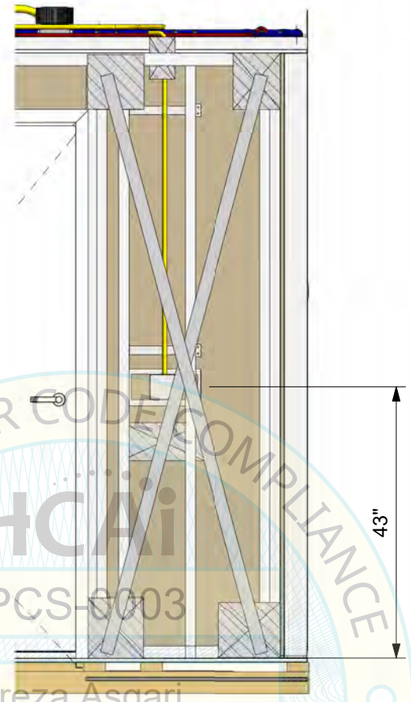
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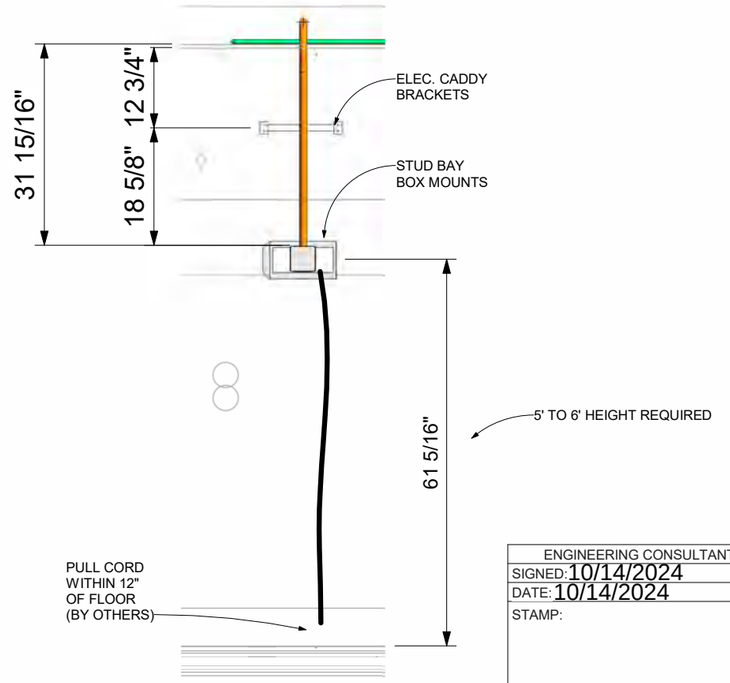
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GREEN = 3/4" EMT
ORANGE - 1" EMT



4 GFCI/SWITCH ELEVATION
N.T.S.



3 SHOWER NURSE CALL ELEVATION
N.T.S.

TYPICAL LIGHT SPECIFICATION (WET RATED)

EVO® 6" Round Shower

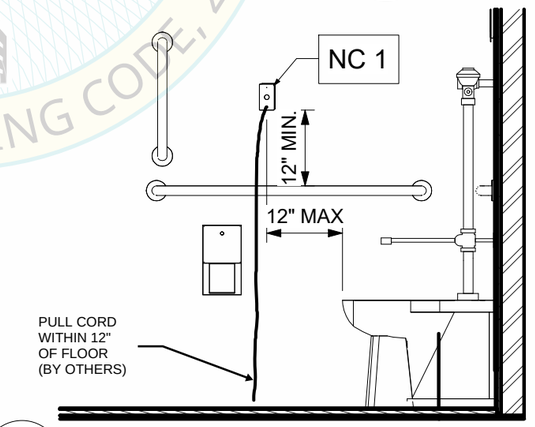
General Illumination LED New Construction & Retrofit Downlight for Shower

By Gotham Lighting

BAA

OVERVIEW SPECIFICATIONS

Aperture Size	6 IN
Shape	Round
Light Source	LED - Dynamic, LED - Static
Dynamic Feature	Tunable White, Warm Dimming
Lumens	750 LM, 1000 LM, 1500 LM, 1800 LM, 2000 LM, 2500 LM, 3000 LM, 3500 LM, 4000 LM, 4500 LM
CCT / LED Color	2700 K, 3000 K, 3500 K, 4000 K, 5000 K, Variable
CRI	85, 90
Product Type	Downlight
Compliance Listing	BAA, Chicago Plenum, Low UGR
Environmental Listing	IP66, NSF, Wet Location



2 NURSE CALL AT TOILET DETAIL
N.T.S.

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APPLICATION FOR PREAPPROVED PREFABRICATED COMPONENTS AND SYSTEMS

OFFICE USE ONLY

APPLICATION #: PCS0003

HCAI Preapproved Prefabricated Components and Systems (PCS)

Type: ☒ New ☐ Renewal

Manufacturer Information

Manufacturer: Surepods, LLC

Manufacturer's Technical Representative: Matt Gaskin

Mailing Address: 624 N 44th Ave, Phoenix, AZ 85043

Telephone: 407-859-7034 Email: Mattga@surepods.com

Product Information

Product Name: SurePods Prefabricated Bathroom Pods

Product Type: Pre-manufactured cold form steel self supporting pods

General Description: Single occupancy/stall prefabricated restroom pods constructed in a factory setting.

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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE, 2019

Applicant Information

Applicant Company Name: Surepods, LLC

Contact Person: Matt Gaskin

Mailing Address: 624 N 44th Ave, Phoenix, AZ 85043

Telephone: 480-578-6335 Email: Mattga@surepods.com

I hereby agree to reimburse the Department of Health Care Access and Information review fees in accordance with the 2019 California Administrative Code.

Signature of Applicant: Matt Gaskin Digitally signed by Matt Gaskin DN: C=US, E=matthwesgaskin@gmail.com, OU=Personal, CN=Matt Gaskin Date: 2022.03.18 13:44:13-07'00' Date: 3/18/2022

Title: Asst. General Manager Company Name: Surepods, LLC

Registered Design Professional Preparing Engineering Report

Company Name: Forell | Elsesser Engineers, Inc.

Name: Marco Scanu California License Number: S4454

Mailing Address: 160 Pine Street, 6th Floor, San Francisco, CA 94111

Telephone: 415-837-0700 Email: m.scanu@forell.com

OFFICE USE ONLY
APPLICATION #: PCS0003

Disciplines Involved

☒ Structural ☐ Architectural ☐ Mechanical ☐ Electrical ☐ Plumbing ☐ Fire Life Safety

OFFICE USE ONLY – HCAI APPROVAL

Signature: Alireza Asgari Date: 03/21/2022

Print Name: Alireza Asgari

Title: Senior Structural Engineer

Approved Version Number v1.0

Version History

v1.0 March 17, 2022 original approval

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DATE: 03/21/2022
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SurePods Pod Type S3

STRUCTURAL DESIGN MANUAL

Version V1.0

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BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE, 2019

March 17, 2022



prepared for

SurePods

2300 Principal Row, Suite 101

Orlando, FL32837

www.surepods.com

prepared by

Forell | Elsesser Engineers, Inc.

160 Pine Street Suite 600,

San Francisco, CA 94111

www.forell.com

TABLE OF CONTENTS

~ COVER

~ TABLE OF CONTENTS

Section 1: INTRODUCTION

1.1 PREFACE 6

1.2 LIMITS OF PRE-APPROVAL 9

1.3 BASIS OF DESIGN 11

1.4 INTRODUCTION 11

1.5 RESPONSIBILITIES OF SUREPODS 12

1.6 RESPONSIBILITIES OF SEOR 13

1.7 OTHER DESIGN RESPONSIBILITIES 13

Section 2: CRITERIA SELECTION

2.1 PURPOSE 15

2.2 SEISMICITY (S_{DS} FACTOR) 15

2.3 IMPORTANCE FACTOR (I_p FACTOR) 15

2.4 VERTICAL POSITION IN THE BUILDING (z/h FACTORS) 15

2.5 POD WEIGHT (W) 16

2.6 MAX POD ASPECT RATIO 16

Section 3: SHEAR WALL TERMINOLOGY AND LAYOUT

3.1 INTRODUCTION TO SHEAR WALLS 22

3.2 SHEAR WALL TERMINOLOGY 22

FIG. 3.2.1 - FLAT STRAP SHEAR WALL PARTS AND NAMES 22

FIG. 3.2.2 - SSMA SECTION NOMENCLATURE 24

3.3 SHEAR WALL ASPECT RATIO (H/L) 24

3.4 DEFINING SHEAR WALLS 24

FIG. 3.4.1 - POD WALL WITH DOORWAY 24

Section 4: STRUCTURAL DESIGN REQUIREMENTS

4.1 INTRODUCTION 27

TABLE 4.1.2: BLANK SHEAR WALL SCHEDULE 28

FIGURE 4.1.3 - WORK FLOW DIAGRAM 30

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4.2 GENERAL POD FABRICATION 31
TABLE 4.2.3: MINIMUM SCREW SIZE 31
4.3 GROSS SHEAR WALL REQUIREMENTS 32
4.4 DETAILED SHEAR WALL REQUIREMENTS 33
4.5 POD ANCHORAGE FOR SHEAR 34
TABLE 4.5.1: MINIMUM REQUIRED SILL FASTENERS AT ALL WALLS 34
TABLE 4.5.2: MINIMUM REQUIRED SILL FASTENERS AT SHEAR WALLS 34
4.6 POD ANCHORAGE FOR OVERTURNING 36
4.7 CEILING & DIAPHRAGM CONSTRUCTION 39
TABLE 4.7.1: MINIMUM CEILING RAFTERS 39
FIG. 4.7.2 - POD CEILING DIAPHRAGM LAYOUT 40
TABLE 4.7.3: MINIMUM REQUIRED DIAPHRAGM STRAP SPECIFICATION 41
TABLES 4.3.X: GROSS SHEAR WALL REQUIREMENTS 42
TABLES 4.4.X: DETAILED SHEAR WALL REQUIREMENTS 125
TABLES 4.5.4: MINIMUM SHEAR ANCHORAGE REQUIREMENTS 175
TABLES 4.6.2.X: ANCHOR UPLIFT CAPACITIES 180
TABLES 4.7.4.X: MAXIMUM UNBRACED TOP TRACK LENGTH 184

Section 5: STRUCTURAL DETAILS
5.1 INTRODUCTION 266
5.2 GENERAL POD FABRICATION 266
5.3 GROSS SHEAR WALL REQUIREMENTS 266
5.4 DETAILED SHEAR WALL REQUIREMENTS 267
5.5 POD SHEAR ANCHORAGE REQUIREMENTS 267
5.6 POD OVERTURNING ANCHORAGE REQUIREMENTS 267
5.7 CEILING & DIAPHRAGM FRAMING 268

FIGURE 5.2.0.1 - GENERAL NOTES - COLD FORMED METAL FRAMING 269
FIGURE 5.2.0.2 - GENERAL NOTES - COLD FORMED METAL FRAMING 270
FIGURE 5.2.0.3 - GENERAL NOTES - MISCELLANEOUS 271
FIGURE 5.2.0.4 - STRUCTURAL BASIS OF DESIGN 272
FIGURE 5.2.1 - POD DETAIL SECTION AT FLOOR 273
FIGURE 5.2.2.1 - TYPICAL WALL FRAMING ELEVATION 274
FIGURE 5.2.2.2 - TYPICAL STUD-TO-TRACK CONNECTION 275
FIGURE 5.2.2.3 - TYPICAL STUD FRAMING AT INTERSECTIONS 276
FIGURE 5.2.2.4 - TYPICAL WALL FRAMING AT OPENING 277
FIGURE 5.2.2.5 - BRIDGING DETAILS 278

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HCAI
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

FIGURE 5.3.1 - SHEAR WALL FRAMING ELEVATION 279
FIGURE 5.4.1A - CHORD DETAILS 280
FIGURE 5.4.1B - CHORD DETAILS 281
FIGURE 5.4.2A - FLAT STRAP BRACE CONNECTION 282
FIGURE 5.4.2B - FLAT STRAP BRACE CONNECTION NOTES 283
FIGURE 5.4.2C - MINIMUM EDGE DISTANCE & SPACING REQUIREMENTS 284
FIGURE 5.4.3 - FLAT STRAP BRACE TENSIONING 285
FIGURE 5.4.4 - STRAP CONNECTION AT WALL STUDS 286
FIGURE 5.5.1 - SILL FASTENING TO FLOOR PLATE 287
FIGURE 5.5.2 - ANCHORAGE FOR SHEAR TRANSFER 288
FIGURE 5.6.1 - HOLD DOWN DEVICE TO CHORD (HD-1, HD-2, HD-3) 289
FIGURE 5.6.2 - HOLD DOWN DEVICE TO CHORD (HD-0) 290
FIGURE 5.6.4.1 - SNUBBER DETAIL ELEVATION 291
FIGURE 5.6.4.2 - SNUBBER DETAIL SECTION 292
FIGURE 5.6.4.3 - SNUBBER PLAN DETAIL 293
FIGURE 5.6.5.1 - THROUGH BOLT DETAILS 294
FIGURE 5.7.1 - RAFTER-TO-WALL TRACK CONNECTION 295
FIGURE 5.7.2.1 - CEILING FRAMING PLAN 296
FIGURE 5.7.2.2 - WALL TOP TRACK INTERSECTIONS 297
FIGURE 5.7.3.1 - FLAT STRAP BRACING CONNECTION 298
FIGURE 5.7.3.2 - FLAT STRAP BRACING INTERSECTIONS 299
FIGURE 5.7.3.3 - TRANSVERSE WALL BRACE 300

Section 6: STRUCTURAL BASIS OF APPROVAL DOCUMENTS

6.1 INTRODUCTION 302
6.2 GENERAL NOTES, BASIS OF DESIGN AND TYPICAL DETAILS 302
6.3 SHEAR WALL KEY PLAN AND SCHEDULE OF REQUIREMENTS 302
FIG. 6.4.1 - SHEAR WALL KEY PLAN 303
6.4 FABRICATION AND INSTALLATION DETAILS 303

CONCLUSION & REFERRAL 304

APPENDIX - TESTING, INSPECTION AND OBSERVATION (TIO) FORM 305

REVIEWED FOR CODE COMPLIANCE
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DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

Section 1

INTRODUCTION

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1.1 PREFACE

SurePods are free-standing light weight pre-assembled bathroom units that are custom configured for a given project installation. The units are made up structurally of conventional light gage stud framing walls and ceiling with sheathing applied to one side. The units are self-supporting laterally and resist seismic forces through diagonal flat strap metal bracing.

The plan dimensions, height, and weight of a given SurePods unit is defined uniquely for each project, but fall within a limited range of sizes and weights. This limited range of geometric characteristics, along with the seismicity, location within a structure, and the type of building, are used to determine the seismic design forces for the structural components that make up each SurePods unit. Based on the range for each of these variables defined in this manual, the structural components that make up SurePods units have been pre-engineered in accordance with the 2019 California Building Code (CBC). The details and components for a given set of design parameters are summarized in lookup tables in this manual. The engineering calculations for each tabulated component are based on the worst case assumptions within the given set of parameters.

This manual summarizes the required configuration of the walls, ceiling, flat strapping, connections, and anchorages for a given SurePods unit. The manual does not cover all possible conditions and configurations and should not be used when project parameters fall outside of the scope of this manual. There are three different SurePods unit types, but only type S-3 is covered in this manual.

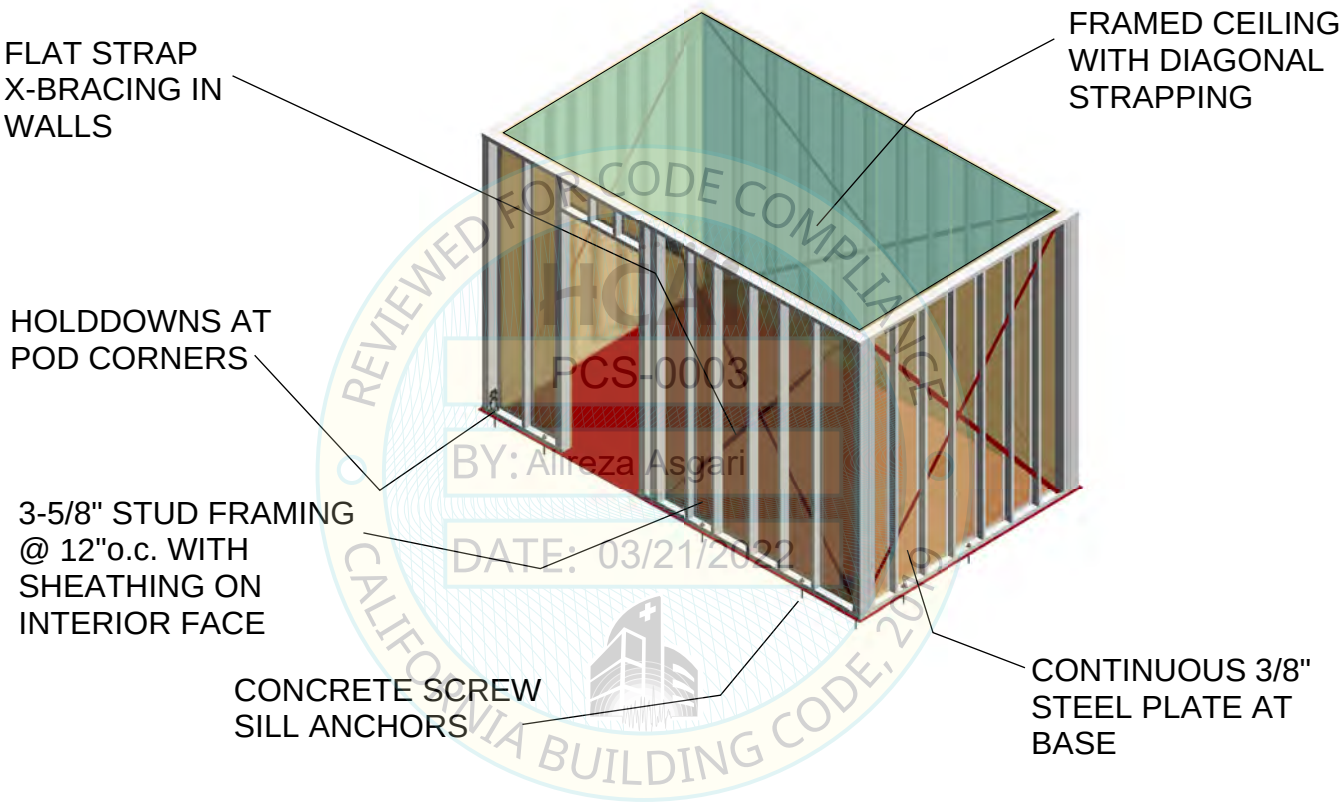
TABLE 1.1: POD STRUCTURAL TYPE

Pod Type	Description	Limits of this Manual
S-1	Commercial Buildings with Pods built using 1-5/8" Wall Studs	Not Covered
S-2	Commercial Buildings with Pods built using 3-5/8" wall studs	Not Covered
S-3	HCAI/OSHPD-1 applications with Pods built using 3-5/8" wall studs	Covered

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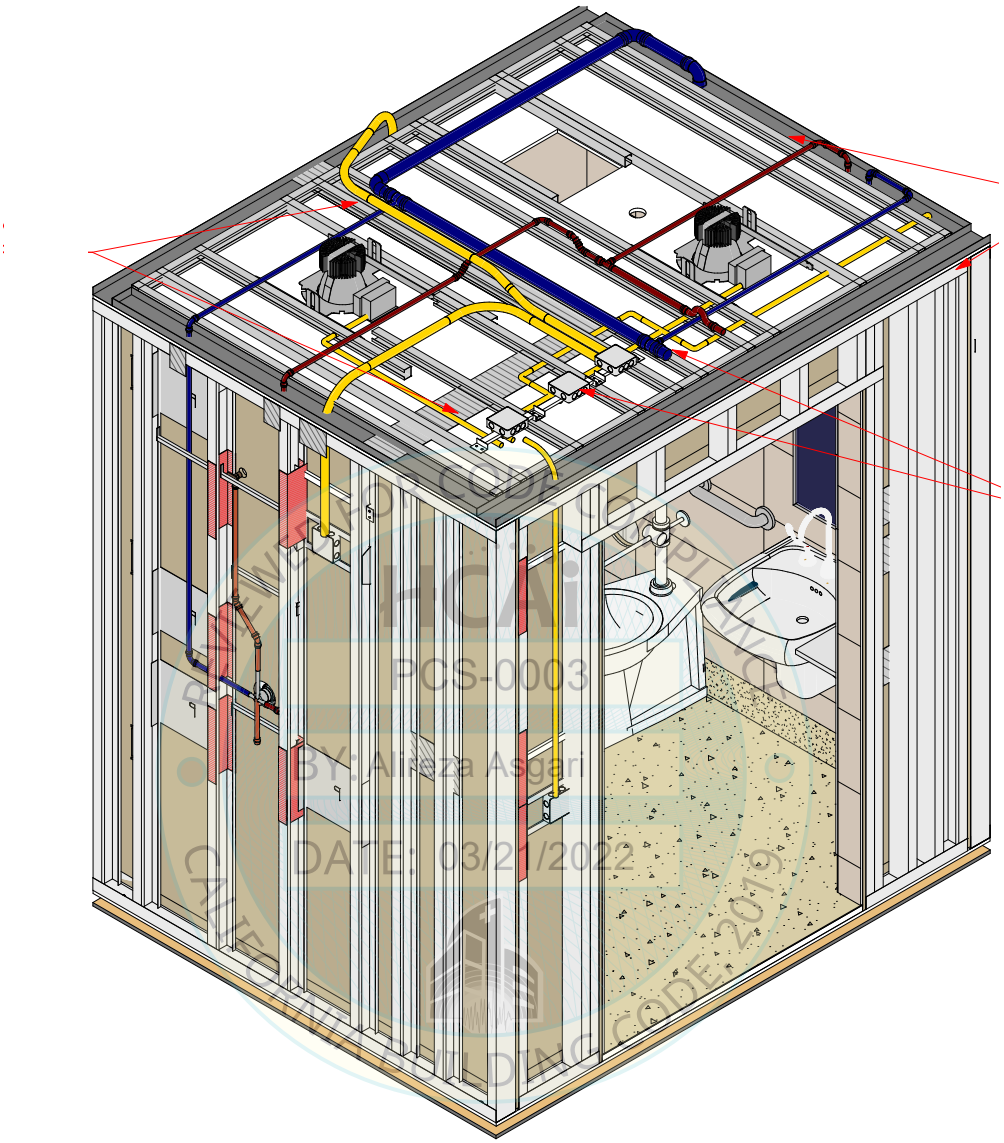
This manual includes only the structural design and detailing of SurePods units. Design and component configuration for all other disciplines, including architectural, mechanical, electrical, plumbing, and fire-life safefy are not included. Project specific review and approval of disciplines other than structural is assumed to be required.

An HCAI Testing, Inspection and Observation Form is included as an Appendix to this Manual.



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HCAI
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE, 20

SUREPODS BATHROOM UNIT



SUREPODS BATHROOM UNIT
(STRAPPING NOT SHOWN IN THIS VIEW)

1.2 LIMITS OF PRE-APPROVAL

For projects that fall outside of these limits, consult a qualified structural engineer for assistance in establishing minimum structural design requirements. Structural Design of the Pods covered by this manual is based on the following:

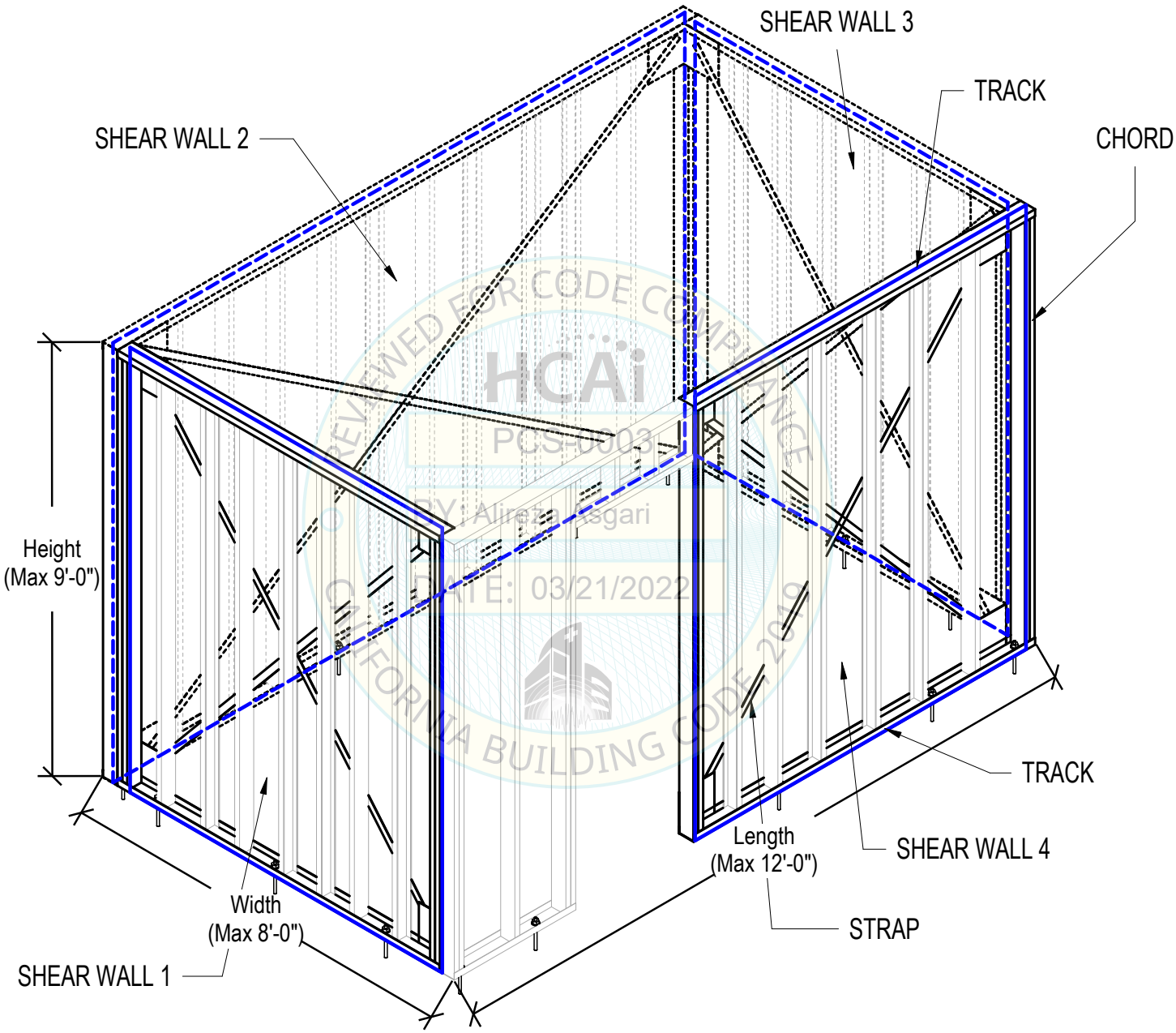
TABLE 1.2: LIMITS OF PRE-APPROVAL

Item	Description	Limits of this Manual
Seismic Hazard	Force Factor, S_{DS}	Not to Exceed S_{DS} = 2.0g
	Importance Factor, I_P	Not to Exceed I_P = 1.50
Pod Dimensions	Clear Height Below Finished Ceiling	Not to exceed 9'-0"
	Maximum Plan Dimensions	Not to exceed 12'-0" x 8'-0"
	Pod Shape (in Plan View)	This pre-approval is limited to rectangular plans only.
Pod Weight	Maximum Pod Self-Weight	5000 lbs
Shear Wall Layout	This manual is limited to Pods with Shear Wall panels defined on all four sides of the Pod. Pods with one or more fully open sided walls are not covered in this manual. Minimum defined Shear Wall length is 2'-0", and maximum Shear Wall aspect ratio is 3.5. However, each wall shall be as long as possible, extending from corner to corner of a Pod, except to allow for a doorway.	
Architectural	Not covered	Project specific approval required.
Mechanical	Not covered	Project specific approval required.
Electrical	Not covered	Project specific approval required.
Plumbing	Not covered	Project specific approval required.
Fire / Life Safety	Not covered	Project specific approval required.
Other Non-Structural	Not covered	Project specific approval required.

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DATE: 03/21/2022
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TYPICAL POD SHOWING SHEAR WALL LAYOUT

Shear walls defined on all four sides of the Pod - each wall as long as possible, extending from corner to corner of the Pod, except to allow for a doorway



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1.3 BASIS OF DESIGN

Structural requirements contained herein meet the following criteria:

TABLE 1.3: BASIS OF DESIGN

Item	Description	Limits of this Manual
Applicable Design Codes	General Design	2019 California Building Code (with OSHPD Amendments)
	General Seismic Design	ASCE 7-16
	Cold Formed Metals	AISI S100-16 AISI S400-15/S1-16
	Post-Installed Anchors	ASCE 7-16-13.4 ACI 2014 Ch-17
Live Load on Ceiling	Ability of Ceiling Framing to support persons or superimposed loads. (See Note 1)	0 psf
Lateral "Wind" Load	Maximum Differential Pressure acting on all wall and ceiling planes per 2019 CBC 1607.15	5 psf (ASD)
Seismic Design Parameters	Seismic Hazard, S_{DS} and I_P	See Above
	Non-structural Component factors in ASCE 7-16 Equation 13.3-1	$a_P = 2.5$ $R_P = 3.5$
Note 1: Ceiling framing will support the weight of finishes, lighting, plumbing and electrical distribution lines.		

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1.4 INTRODUCTION

This manual provides a methodology for defining structural requirements for a given SurePods project. Successful use of this manual requires an understanding of the organization of the manual:

Section 1: Understand the "Responsibilities of SurePods" and the "Responsibilities of the SEOR"

Section 2: The Pod's structural requirements vary considerably, depending on several factors presented in this Section of the manual. When SurePods considers a particular project, these parameters must be determined as a first step. Section 2 walks the user through the process of "Criteria Selection".

Section 3: Provides definitions of the SurePods components that are used to resist seismic forces.

Section 4: Once the project parameters are understood as per Section 2, Section 4 guides the user in determining the minimum required structural members and connections that will be needed.

Section 5: This section provides the necessary structural details for fabrication of the Pod along with sample "General Notes" to be posted on the permit submittal.

Section 6: This section outlines the Structural Basis of Approval documents that will be required for a given project.

1.5 RESPONSIBILITIES OF SUREPODS

Project Due Diligence: When Surepods is evaluating projects as potential candidates for this product, Surepods shall evaluate the structural floor proposed for the project with respect to the following:

- Confirm that one of the available approved floor anchors found on Tables 4.6.2.X will supply the needed required anchorage force determined in Section 4.3.2 of this manual, for the structural floor deck system proposed for the project. The capacity of post-installed anchors in concrete toppings over metal deck - especially light weight concrete toppings - is very limited, and if special considerations will be needed, Surepods must understand and include these needs in their considerations before contracting for the work.
- SurePods units will be located within localized floor depressions whose depths and extents are defined by the project AOR and SEOR. SurePods shall confirm that the proposed building structure provides sufficient structural floor thickness to accommodate the Pod. SurePods shall provide the pod shear and overturning force values to the SEOR for checking the floor capacity and providing testing specifications. See also Section 1.6 Responsibilities of the SEOR below.
- Is there sufficient thickness of concrete below the bottom of depression to accommodate the anchors needed? All anchors have a minimum thickness of concrete requirement for the anchor to be viable.

For a given project, it is SurePods' responsibility to determine the structural requirements for the Pod using this manual and it is SurePods' responsibility to know when a given Pod falls outside of the limits of this manual. In addition, SurePods must provide the following documentation for the record:

Fabrication Drawings: SurePods can produce Fabrication drawings in accordance with their normal practices. When submitting a SurePods project for approval by the authority having jurisdiction, the SurePods fabrication drawings shall include the "Structural Basis of Approval" document described below.

Structural Basis of Approval Documents: The following documents should accompany SurePods' fabrication drawings, and may be integrated into SurePods' fabrication drawings where appropriate:

Structural General Notes

Structural Design Criteria

Pod Anchorage Forces for Review by the SEOR

Typical Structural Details for Fabrication and Installation

This Manual, including all Appendices

Section 6 of this manual provides a guide for creating these "Structural Basis of Approval" items, and examples are provided.

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1.6 RESPONSIBILITIES OF THE SEOR

The SurePods restroom Pod is to be treated like any large non-structural component or piece of equipment where the required anchorage is determined by SurePods, but the confirmation of the floor strength to resist the shear and overturning forces imposed by the Pod on the superstructure lies with the Structural Engineer of Record, or SEOR. It is the SEOR's responsibility to confirm that the floor structure can resist shear and overturning forces exerted by the Pod on the structural floor. Structural forces imposed on the superstructure are summarized on the "Structural Basis of Approval" documents included with this submittal.

It should be noted that the proposed pods are set in a depression provided in the structural floor system. It is the SEOR & AOR's responsibility to define the dimensions of the depressions in the floor system. Considerations include the thickness of concrete below the depression, structural strength, and fire protection.

1.7 OTHER DESIGN RESPONSIBILITIES

SurePods are intended to follow the bathroom layout defined for a given project by the architect of record (AOR) and the overall design team. Therefore, the responsibility to meet all CBC requirements for access, fire/life-safety, and all other functional considerations remains with the AOR and the design team. SurePods does not perform or dictate the layout or configuration of the bathroom units for a given project. It is intended that for any project, SurePods can be used interchangeably with stick built bathroom partitions at the Owner's or Contractor's option.

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Section 2

CRITERIA SELECTION

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2.1 PURPOSE

In order to use this manual, all of the parameters defined below and that describe the Pod's structural design criteria and geometry must be defined before design details can be determined. Using the project's Contract Documents, project specific values for "Seismicity", "Importance Factor" and "Position in Building" should be defined. Then, using SurePods's preliminary Pod design, determine the "Pod Weight", "Shear Wall Identification" and "Shear Wall Aspect Ratios". With these six parameters in hand, proceed to Section 4 and determine the structural design requirements for the Pod.

2.2 SEISMICITY (S_{DS} FACTOR)

Locate the project Structural Drawings and find the section of notes describing the *Structural Design Criteria* or *Basis of Design*. These notes should include a section on *Seismic Design Requirements*, including a parameter "S_{DS}". This parameter is a numeric value, for example S_{DS}=1.0. This value is needed to navigate the Tables in Section 4.

Note: If the project structural drawings post an S_{DS} value that is higher than the S_{DS} value listed in any of the Tables of Section 3, then this manual is not appropriate for this project *and you should contact the authors of this manual for assistance.*

See Figures 2.2.1, 2.2.2 and 2.2.3 for mapped S_{DS} values. These maps are intended to show a general pattern of S_{DS} values across the United States, but these maps are not sufficiently accurate to make a determination of a project-specific S_{DS} value. Always obtain the project-specific S_{DS} value from the project's Structural Drawings.

2.3 IMPORTANCE FACTOR (I_p FACTOR)

Locate the I_p parameter in the same *Seismic Design Requirements* located above. Do not confuse the I_p value with "I" or "I_w" or any other version of "I"; use the I_p value only. You will need this value to navigate the Tables in Section 4.

2.4 VERTICAL POSITION IN THE BUILDING (z/h FACTORS)

The S_{DS} and I_p parameters describe the seismic forces at the *ground level*, but for Pods located on floors above the ground floor, seismic forces will be higher because buildings amplify ground shaking. This amplified force increase is determined for a given floor by the "z/h ratio", where z is height of a given floor above the foundation level, and h is the overall height of the building, from the foundation level. A z/h ratio of "0.0" denotes the ground floor, a z/h ratio of "1.0" denotes the roof.

Example: Suppose the building is 120 feet tall, measured from the ground floor to the roof; or h=120. A floor midway up the building sits (for example) 40 ft above the ground floor; z=40. The z/h ratio for this floor is z/h = 40/120 = 0.33.

If the building has a basement, the lowest basement floor elevation would be taken as "Ground" level, or z=0.0. For any given Pod, the floor elevation shall be determined as the floor the Pod is resting on.

Vertical Zones: Typically, Pods will be located on multiple floors in a structure, and the structural requirements will vary from floor to floor. Using this manual, unique designs can be created for each floor, or more commonly for a defined group of floors, herein called "Vertical Zones".

For example, if SurePods units are planned for floors 3 through 10 in a building, seven unique designs could be created, or three vertical zones could be created, for example grouping floors 3-5, 6-8 and 9-10 into three distinct design groups.

In the above example, three unique structural designs would need to be created. The "finished" appearance of all the pods would be identical; only the structural parameters would change from group to group. When dividing a project into "Vertical Zones", each vertical zone must be assigned a "z/h ratio" for use in Section 4. The correct z/h ratio for any given vertical one is the z/h ratio value for the top-most floor in each vertical zone.

For example, if SurePods desired to have a single pod design for an entire building, the correct z/h ratio would be the z/h value for the top most pod-occupied floor in the building.

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2.5 POD WEIGHT (W)

Before using the Design Procedures in Section 4, the weight of the Pod must be determined. This weight is the "operating weight" of the Pod following installation and should include the weight of all structure, finishes, utilities and equipment/furnishings. Do not include the weight of any shipping accessories such as pallets or removable lifting lugs. When using the Tables in Section 4, select the appropriate table that matches the weight as determined herein. If the pod weight does not match any of the weight values listed for a table, select the table with the next highest weight.

Note: Avoid being excessively conservative when calculating the Pod weight, because the higher the Pod weight, the more stringent the seismic requirements are and therefore the more expensive the structural requirements will be. Provide an accurate estimate of weight, and understand that the Tables in Section 3 are specific to several – but not all – possible weights. You will want to use the Table with a posted weight limit that exceeds your calculated weight by the smallest amount.

2.6 MAX POD ASPECT RATIO

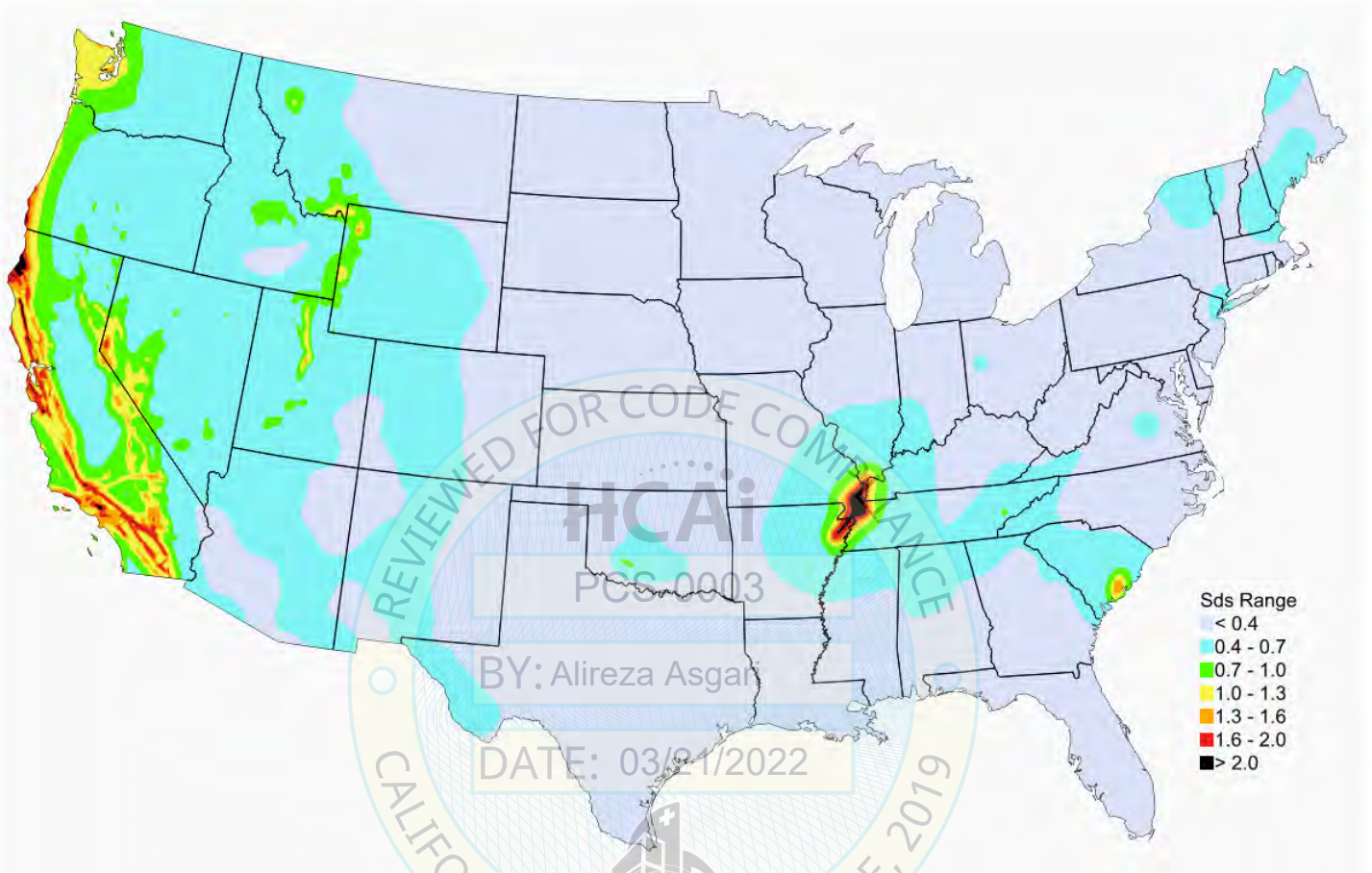
In structural engineering language, the term "aspect ratio" is used frequently, and it reflects the ratio of the lengths of two sides of a rectangle, hence a square has an aspect ratio of 1.0.

In Section 4.3, you will need to locate values on a table using a parameter called the "Max Pod Aspect Ratio" to find the correct values. The "Max Pod Aspect Ratio" is defined as the clear height to the finished ceiling (feet) divided by the smaller of the two orthogonal plan dimensions (in feet) of the Pod. The pod width shall be taken as the width of the pod as seen in side view, ignoring any recesses.

It is simplest to think of "width" this way: If you had to cut the smallest possible hole in a wall to push the entire pod through, the width of that opening is the correct pod width to use in the "Pod Aspect Ratio".

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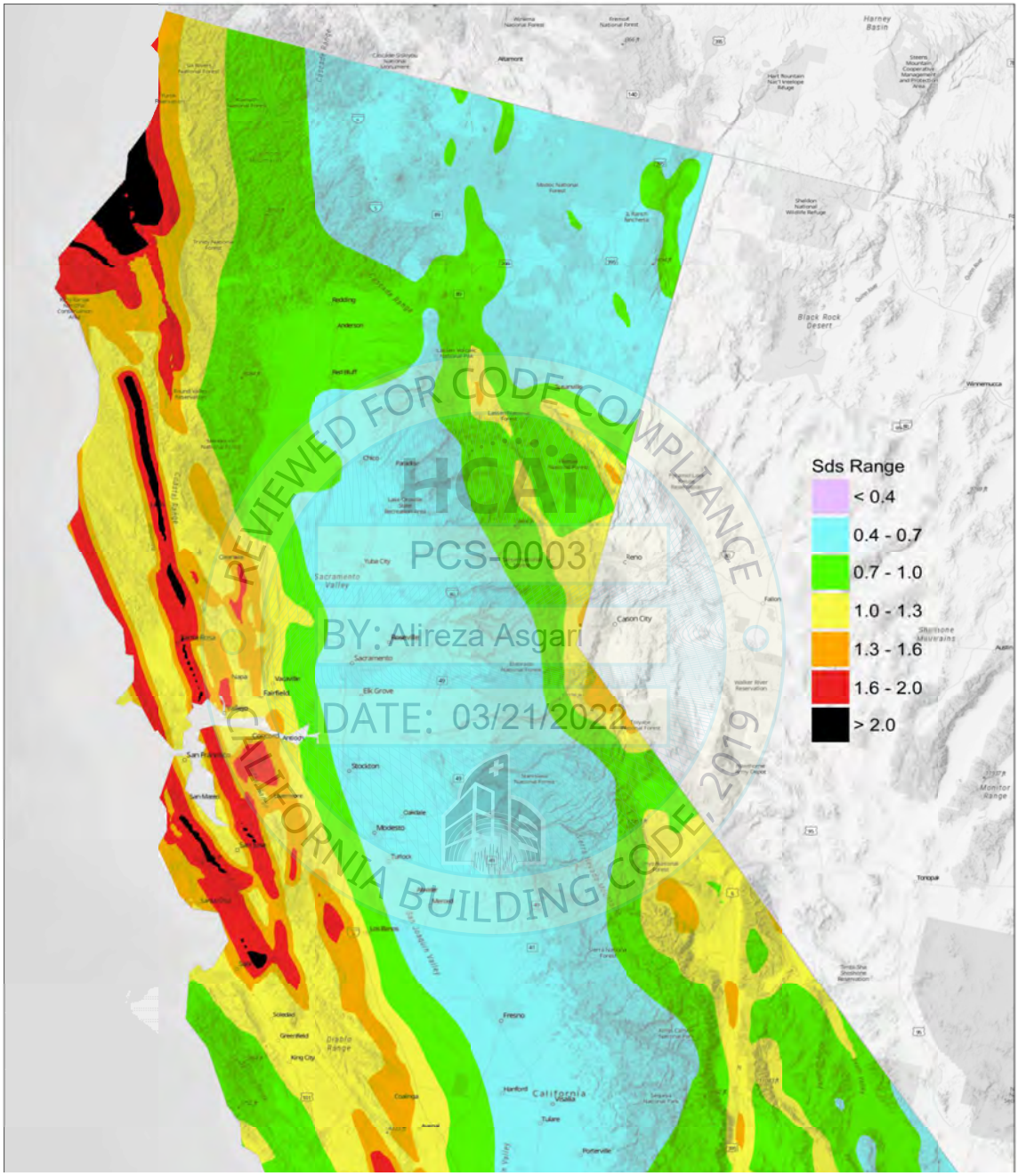
ASCE 7-16 S_{DS} VALUES
United States



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Figure 2.2.1 - Mapped S_{DS}

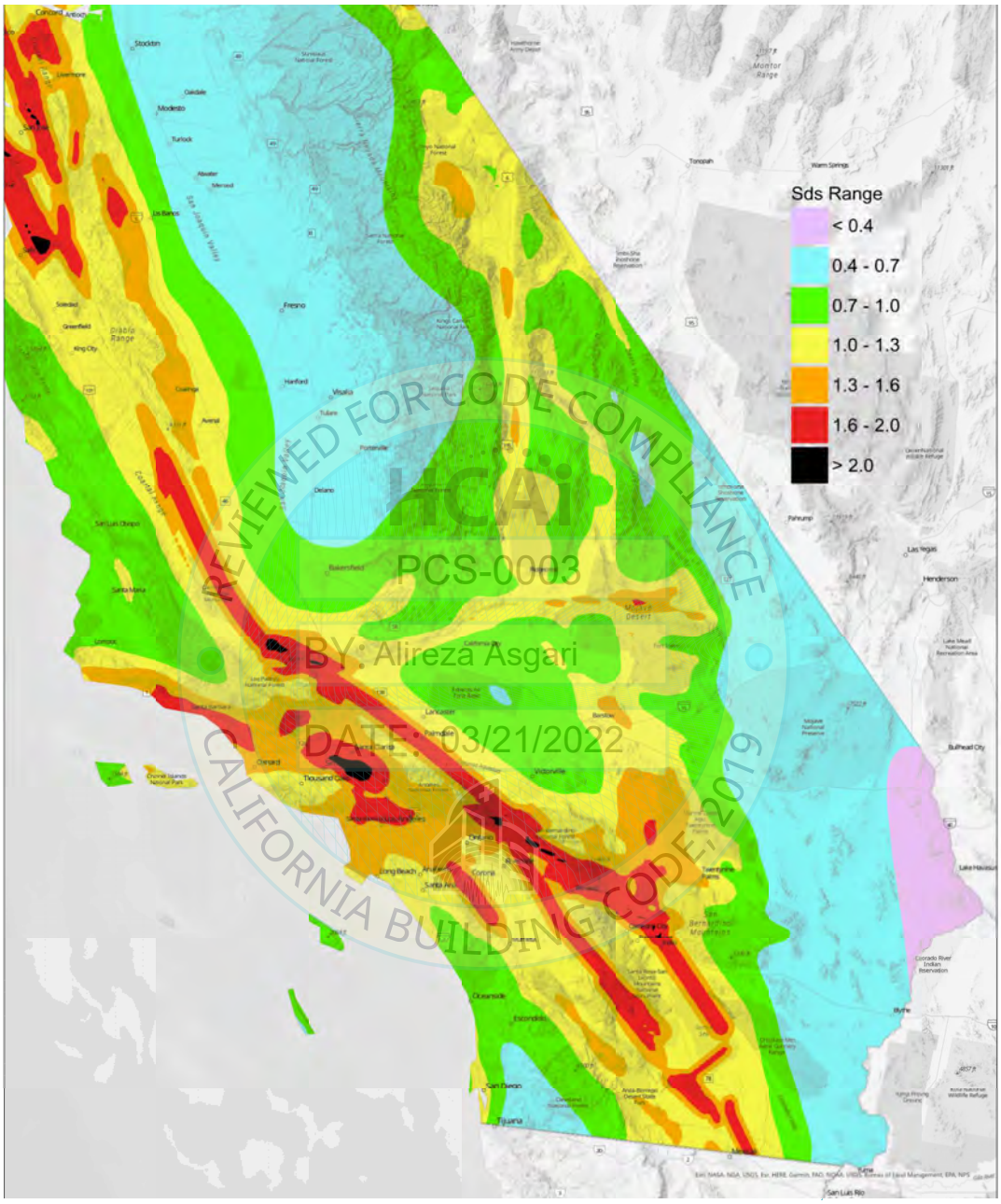
ASCE 7-16 S_{DS} VALUES
Northern California



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Figure 2.2.2 - Mapped S_{DS}

ASCE 7-16 S_{DS} VALUES
Southern California



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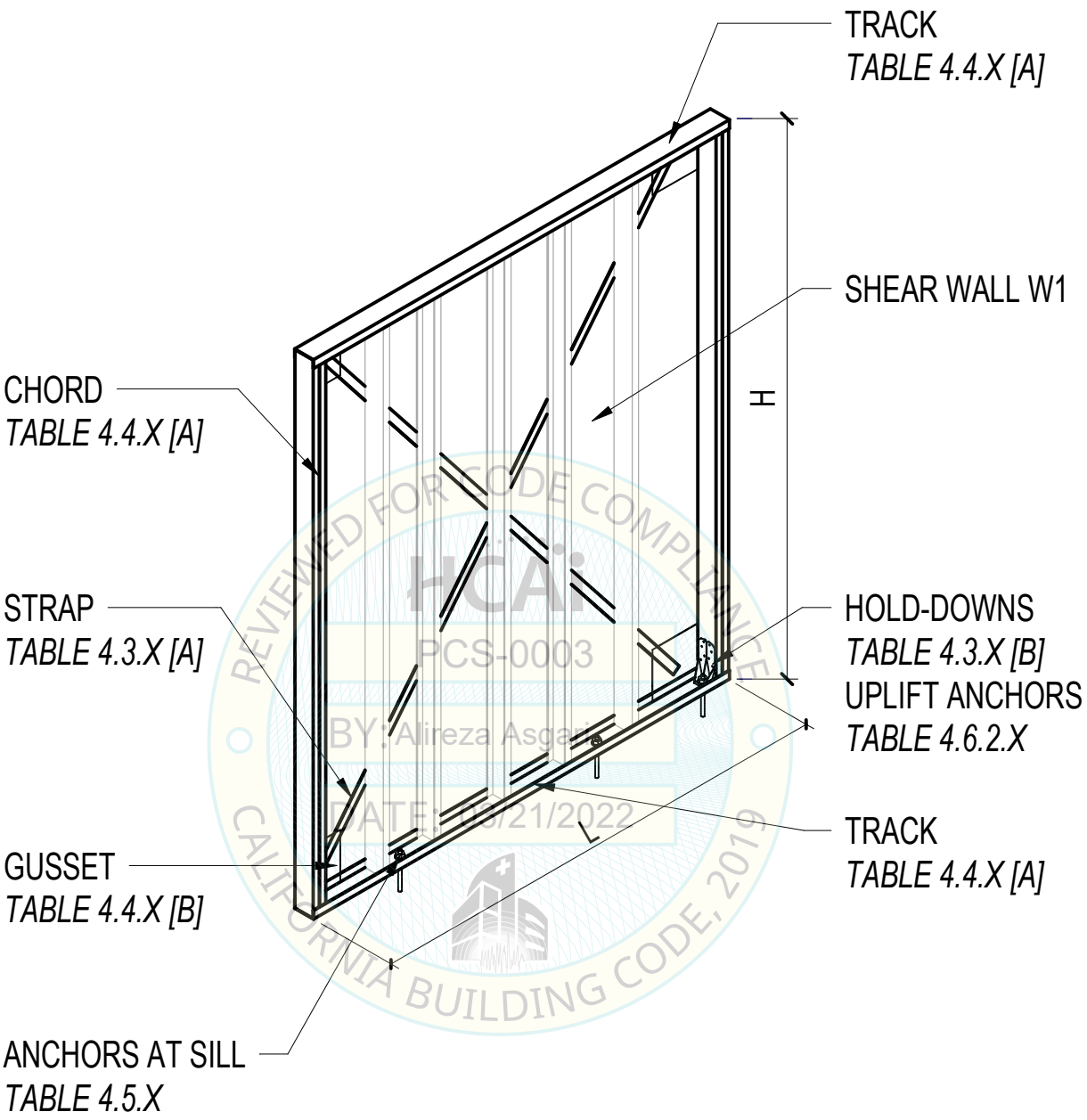
Figure 2.2.3 - Mapped S_{DS}

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Section 3

SHEAR WALL TERMINOLOGY AND LAYOUT

SHEAR WALL COMPONENTS AND LOOKUP TABLE REFERENCES



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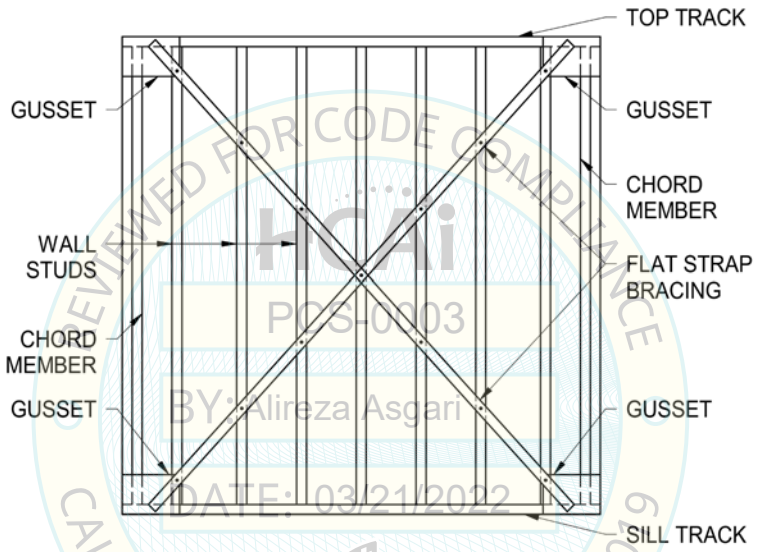
3.1 INTRODUCTION TO SHEAR WALLS

In this manual, “Shear walls” are metal stud bearing walls that are also braced and anchored to resist seismic-generated lateral forces. In Section 4 of this manual, the structural requirements for each shear wall of the Pod are determined. This means a user must first identify all of the shear wall locations for the pod and gather the length and height of each Shear Wall. Described in detail in Section 3.4, this action is termed “Defining Shear Walls” and is a critically important step in designing shear wall panels for a pod.

Before diving into “Defining Shear Walls”, an introduction to “Shear Wall” terminology is provided in Section 3.2.

3.2 SHEAR WALL TERMINOLOGY

Prior to using Section 4, you must also become familiar with the names of each part of a shear wall detailed in this manual. The following figure will provide a guide to identifying the various parts, and notes regarding each part are provided in Figure 3.2.1 below:



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Figure 3.2.1 – Flat Strap Shear Wall Parts and Names

Wall Stud: Studs for general wall infill framing are simple cold-formed wall studs.

Stud sizes are called out using SSMA nomenclature (See Figure 3.2.2 at the end of this Section), which takes the form “WWWSXXX-YY-ZZ” where “WWW” denotes the stud depth x 100 (e.g. 3-5/8” would appear as “362”), “S”=Stud, “XXX” denotes the flange width x 100, “–YY” denotes the thickness in mils and “–ZZ” denotes the ASTM A653 steel grade (i.e. “–33” denotes Grade 33 and/or “–50” denotes Grade 50 Class I). Thus, a 362S125-33-33 stud is 3-5/8” deep by 1-1/4” wide rolled from 33-mil sheet steel using F_y=33,000 grade materials.

Flat Strap Bracing: These opposing straps are the heart of the Shear Wall, composed of sheet metal straps that get attached at each end to the “gusset” using sheet metal screws. Flat strap braces are placed on one side of the wall only. (We recommend the interior face of the wall, to facilitate installation of anchorage devices during installation.)

Flat-Strap Braces are called out using SSMA-like nomenclature, which for sheet metal straps takes the form "XXXFS-YY-ZZ" where "XXX" denotes the strap width in inchesx100, "FS"=Flat Strap, "-YY" denotes the thickness in mils and "-ZZ" denotes the ASTM A653 steel grade (i.e. "-33" denotes Grade 33 and/or "-50" denotes Grade 50 Class I).

Gusset: These are flat rectangular metal sheets that get fastened to the Chord Members and the Tracks and in turn the flat-strap braces are attached to the gusset. These are critical structural connections.

Gussets are called out using SSMA-like nomenclature, which takes the form of "WWWGXXX-YY-ZZ" where "WWW" denotes the height in inchesx100, "G"=Gusset, "XXX" denotes the width in inchesx100, "-YY" denotes the thickness in mils and "-ZZ" denotes the ASTM A653 steel grade (i.e. "-33" denotes Grade 33 and/or "-50" denotes Grade 50 Class I).

Top Track: These are standard cold-formed track sections; the gages used at shear walls are generally heavier than as for a general wall.

Tracks are called out using SSMA nomenclature, which takes the form "WWWTXXX-YY-ZZ" where "WWW" denotes the track depthx100 (e.g. 3-5/8" would appear as "362"), "T"=Track, "XXX" denotes the flange widthx100 and "-YY" denotes the thickness in mils and "-ZZ" denotes the ASTM A653 steel grade (i.e. "-33" denotes Grade 33 and/or "-50" denotes Grade 50 Class I).

Sill Track: These are also standard cold-formed track sections. These sill tracks are fastened to the steel plate floor, permanently locking the walls to the floor plate.

For call-outs, see "Top Track" above; the same nomenclature is used for bottom tracks.

Chord Member: "Chords" are composed of boxed or back-to-back pairs of wall studs or - in some cases - of structural steel HSS shapes. Chords shall be located at each end of the shear wall, and every designated shear wall shall have two chords. The shear wall "length" is measured as out-to-out of the chord studs. Typically, these chord members are heavier than the normal wall stud. When "stud sections" are not strong enough, hollow structural steel tubes are called for. In either case, these chord members are installed in the same manner as wall studs. HSS shapes will be 1/8-inch less than the stud depth, hence shimming at the track locations may be needed.

For Chord Members composed of cold-formed studs, the callout takes the form "WWWSXXX-YY-ZZ Method" where the "WWWSXXX-YY-ZZ" callout describes two identical metal studs using the same nomenclature as for "Wall Stud" above but where "Method" denotes the manner in which these two studs are configured (i.e. "Method" can be "Boxed", where the two studs form a rectangular cross section, or "Back-to-Back", where the two studs are placed in a back-to-back configuration. Both conditions are shown in detail in Section 5 of this manual.

For Chord Members composed of hollow structural steel (HSS) tubes, the callout takes the AISC form "HSS W.WWxX.XXxY.YY, where "W.WW" and "X.XX" denote the outside dimensions of the rectangle, in decimal inches and "Y.YY" denotes the thickness of all walls, in decimal inches.

Nomenclature Guide: The member call-outs described above are based on the Steel Stud Manufacturers Association (SSMA) "Product Technical Guide". Figure 3.2.2, copied from the 2015 SSMA PTG (shown below) shows the basic method for designating the dimensional requirements for cold-formed structural members. In this manual, this basic SSMA convention is used with two changes:

- SSMA uses "S", "T", "U" & "F" designators; this manual introduces "FS" for "Flat Strap" and "G" for "Gussets"
- SSMA does not use a "steel grade" indicator; this manual introduces the "-33" and "-50" as suffixes at the end of the SSMA call out. These values indicate "Grade 33" and "Grade 50" steels respectively.

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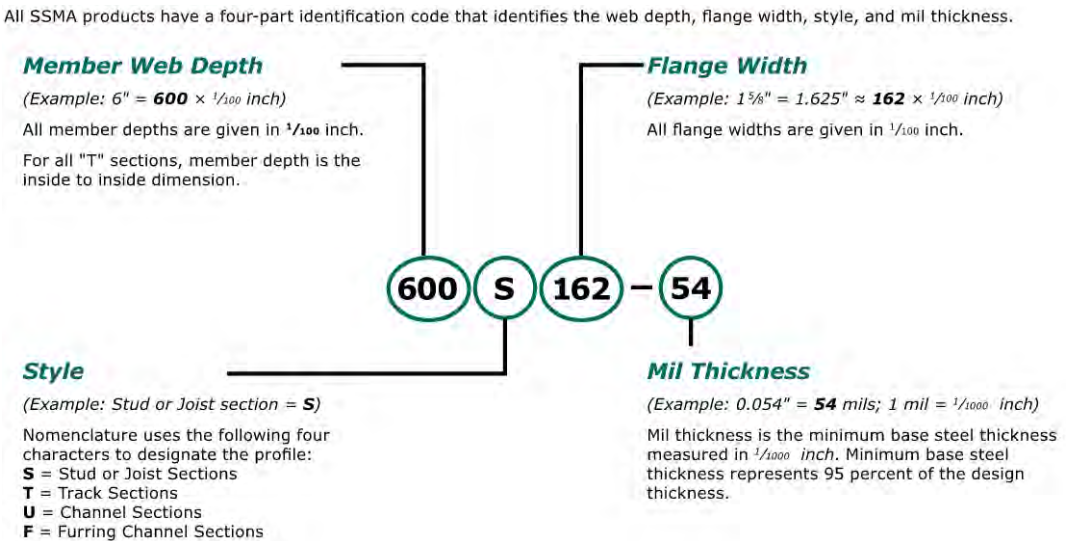


Figure 3.2.2 - SSMA Section Nomenclature

Thickness of Cold Formed Metals: The SSMA convention denotes thickness using "mils" (inches divided by 1,000) These "mil" values can be compared to the older "gage" values as follows:

- 33 mil = 20 gage
- 43 mil = 18 gage
- 54 mil = 16 gage
- 68 mil = 14 gage
- 97 mil = 12 gage

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3.3 SHEAR WALL ASPECT RATIO (H/L)

Once you have identified all "shear walls" for the Pod using Section 3.4 below and before using the Tables in Section 4, you will need to determine the "Aspect Ratio" for each shear wall. The Aspect Ratio is defined as the height H, divided by the length L, for the wall. "H" may be taken as the pod clear ceiling height relative to the top of steel floor plate. "L" shall be taken as the out-to-out dimension of the shear wall chords. As noted in the Limits of Application, the maximum shear wall aspect ratio is 3.5.

For example, for a pod with 8-foot ceilings and for a wall 6'-3" long, the Aspect Ratio (H/L) would equal 8 divided by 6.25, or 1.28. When using the Tables in Section 4, design requirements are posted for multiple Aspect Ratios such as 1.00, 1.25, 1.50, 1.75 etc. To continue the example, for an actual Aspect Ratio of 1.28, you would obtain design requirements for the next higher ratio, 1.50. Using the values for a ratio of 1.25 would not be correct and would yield a lower strength design, even though it is closer to 1.28.

3.4 DEFINING SHEAR WALLS

In the Section 4 of this manual, you will determine the structural requirements for the shear walls making up a pod unit. Before starting in Section 4, you must first "define" the shear walls. "Defining Shear Walls" means drawing a floor plan of the pod, and then locating the best locations for the chords that really define the length of the shear wall. (Recall that a "chord" must exist at each end of each shear wall; see Section 3.2, under "Chords".) Since you will need unique structural designs for each wall, it is good practice to label each wall (for example Wall-1, Wall-2, Wall-3, etc.) for ease in tracking and review. For each Pod, Shear Walls should be defined fulfilling all of the following requirements:

1. Each pod shall have at least four Shear Walls located around the outer perimeter of the pod, with two such walls in each principal (perpendicular) direction;
2. **Each wall shall extend from corner to corner of the pod.** ***Exception: Where a wall plane has an opening for a doorway, the entire wall will consist of two solid planes either side of the doorway. Of the two solid wall panels, select at least one panel with the lowest Height-to-Length (aspect) ratio to be the "shear wall" on that face of the pod. This shear wall shall extend from door jamb to corner.***

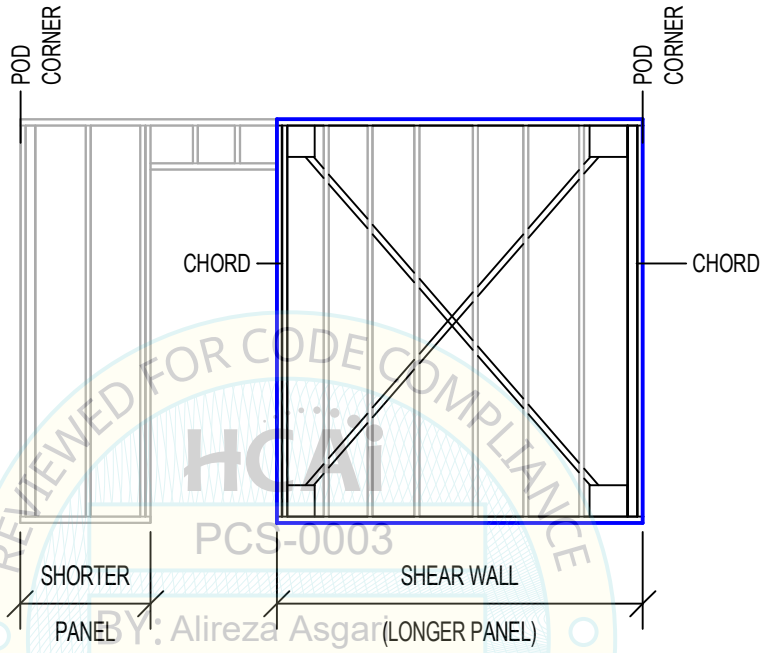


Figure 3.4.1 – Pod Wall with Doorway

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3. Walls to be considered as shear walls shall be at least 24-inches long and with a Height-to-Length (aspect) ratio (Section 3.3) no greater than 3.5 (see Table 1.2).
4. If it is not possible to define a wall within the above criteria on one or more sides of the Pod, this Manual cannot be used and a special structural design will be needed. Contact the authors of this manual or any qualified engineer for support.

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HCAi
PCS-0003
BY Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE, 2019

Section 4

STRUCTURAL DESIGN REQUIREMENTS

4.1 INTRODUCTION

Section 4 of the manual provides all of the structural design requirements for a given Pod. These requirements are determined by locating applicable tables in this section. These tables are generally accessed using:

- The seismic parameters S_{DS} and I_p (See Section 2.2 and 2.3 respectively)
- The vertical position in the building, z/h (See Section 2.4)
- The pod operating weight (See Section 2.5)
- The pod aspect ratio (See Section 2.6)
- The individual "Shear Wall Aspect Ratios" for each defined shear wall (See Section 3.3)

This information should be determined before beginning in this Section 4.

4.1.1 VERTICAL ZONES

The specific structural requirements for a pod will vary within a given building, where the "lightest" design will be found on the lowest floor and the "heaviest" design will be found at the highest floor of installation. It is SurePods's responsibility to meet these structural requirements at all floor locations, but SurePods may elect to divide the building into vertical zones to minimize the number of unique pod designs to be built for a given project. In such a scenario, the highest floor in the zone will dictate structural requirements for all pods in that zone. The number and breakdown of zones is entirely up to SurePods's design. Depending on how the zones are divided, the structural requirements for a pod may be different in each vertical zone, especially in regions of high seismicity. (See also Section 2.4.)

4.1.2 DESIGN AID

The requirements determined in this section include wall framing sizes, ceiling framing sizes, and seismic bracing requirements and all associated connection requirements such as size and number of screws at a connection. The amount of information gleaned from this manual for one pod is large, and to facilitate the organization of this information, a "fill-in-the-blanks" form is provided, see Table 4.1.2, parts 1 and 2. Use this table to record the design information collected while navigating through this Section.

4.1.3 GENERAL PROCEDURE

For each vertical zone, and for each shear wall in the Pod, the work flow contained in this Section is shown as a flow chart on Figure 4.1.3. The structural requirements for a pod will be determined by working through each of these sections:

Section 4.2: Determine General Requirements

Section 4.3: Determine "Gross Shear Wall Requirements"

Section 4.4: Determine "Detailed Shear Wall Requirements"

Section 4.5: Determine "Pod Shear Anchorage" Requirements"

Section 4.6: Determine "Pod Overturning Anchorage Requirements"

Section 4.7: Determine "Pod Ceiling Diaphragm Requirements"

PCS-0003
DATE: 03/21/2022
CALIFORNIA BUILDING CODE, 2019

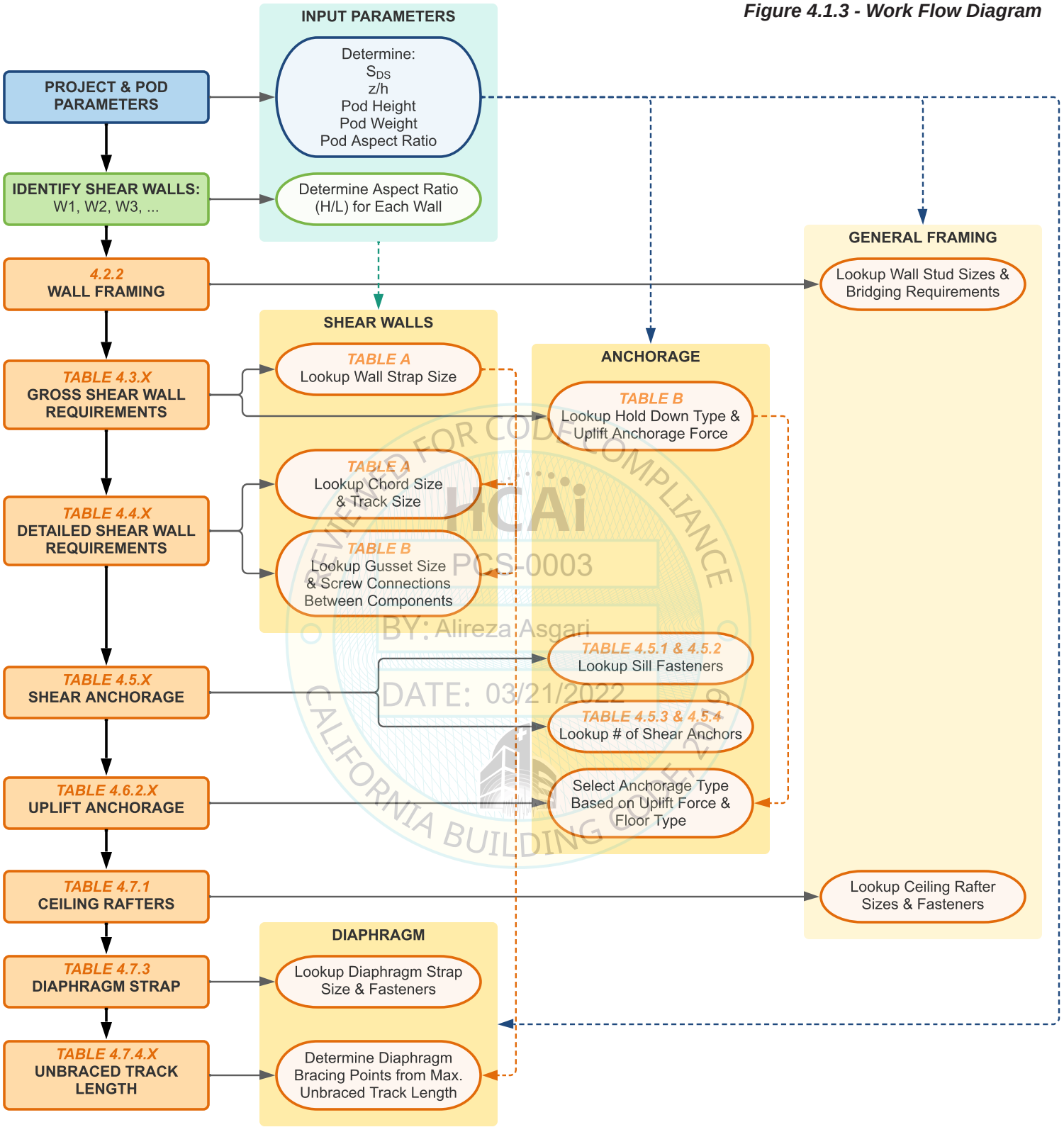
TABLE 4.1.2: BLANK SHEAR WALL SCHEDULE (PART 1)						
Type	**S_{DS}**	**I_p**	**W**	**Floor**	**Zone**	**z/h**
Reference	**Item**	**Wall #1**	**Wall #2**	**Wall #3**	**Wall #4**	**Wall #5**
General Information						
~	Ceiling Height (inches)					
~	Wall Length (inches)					
Section 3.3	Wall Aspect Ratio					
Section 2.6	Pod Aspect Ratio					
Minimum Wall Framing (Section 4.2)						
Table 4.2.1	Minimum Wall Framing					
Table 4.2.1	Bridging Requirement					
Gross Shear Wall Requirements (Section 4.3)						
Tables 4.3.x (Table A)	Shear Loading					
Tables 4.3.x (Table A)	Sill Fasteners					
Tables 4.3.x (Table A)	Required Brace Type					
Tables 4.3.x (Table B)	Anchorage Force					
Tables 4.3.x (Table B)	Required Hold Down Type					
Detailed Shear Wall Requirements (Section 4.4)						
Tables 4.4.x (Table A)	Chords					
Tables 4.4.x (Table A)	Tracks					
Tables 4.4.x (Table B)	Gusset					
Tables 4.4.x (Table B)	Strap-to -Gusset					
Tables 4.4.x (Table B)	Gusset-to -Chord					
Tables 4.4.x (Table B	Gusset-to -Track					

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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

TABLE 4.1.2: BLANK SHEAR WALL SCHEDULE (PART 2)						
Type	**S_{DS}**	**I_p**	**W**	**Floor**	**Zone**	**z/h**
Reference	**Item**	**Wall #1**	**Wall #2**	**Wall #3**	**Wall #4**	**Wall #5**
Pod Anchorage for Shear (Section 4.5)						
Table 4.5.1	Min Sill Fastener (All Walls)					
Table 4.5.2	Min Sill Fastener (Shear Walls)					
Table 4.5.3	Required Mastic					
Table 4.5.4	Shear Anchorage Requirement					
Pod Anchorage for Overturning (Section 4.6)						
Structural Drawings	Floor Type					
Table 4.6.x	Uplift Device					
Table 4.6.x	Anchor Spec					
Ceiling and Diaphragm Construction (Section 4.7)						
Table 4.7.1	Min Rafter Size & Screws Req'd					
Table 4.7.3	Strap Size & Screws Req'd					
~	Top Track Size					
Table 4.7.4.x	Maximum Unbraced Track Length					

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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE, 2019

Figure 4.1.3 - Work Flow Diagram



HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022

4.2 GENERAL POD FABRICATION

Purpose: For all pods in the project, determine the minimum floor and wall construction requirements using the guides below. Record your findings on the “Blank Shear Wall Schedule” (Table 4.1.2).

4.2.1 NOTES ON FLOOR CONSTRUCTION

These pods are designed to be built on a continuous 3/8” steel plate foundation. Cold-formed steel wall assemblies are to be set on this plate and fastened to the plate using “Sill Fasteners”. These “Sill Fasteners” connect the wall track to the steel floor plate only. Once the pod is installed in a building, additional anchors (“Pod Shear Anchors”) to the structure may be required.

Requirements for “Sill Fasteners” and for “Pod Shear Anchors” and “Pod Overturning Anchors” are presented in Section 4.5 and 4.6.

4.2.2 NOTES ON WALL CONSTRUCTION

All wall studs for S3 pods shall be 362S125-33-33 @ 12" O.C (for SSMA nomenclature, refer to Section 3.2).

The webs of S3 pod wall studs may be punched.

No bridging is required for S3 pod wall studs, but note that the wall stud size provided is only applicable for pods within the maximum ceiling height of 9'-0".

At door openings, provide a double scheduled stud at each jamb.

Sizes of shear wall “chords” are not indicated here, see section 4.3 for “chord” studs.

Sizes of Tracks are not indicated here, see also Section 4.3 and 4.6 for “track” requirements.

Where walls meet at corners and "tee" intersections, interconnect studs per detail 5.2.2.3 and top tracks per detail 5.7.2.2.

4.2.3 NOTES ON MINIMUM SCREW FASTENERS

Screw sizes called for in this manual are sized to (1) resist the required forces and (2) grip the total thickness of material in the connection assembly. Table 4.2.3 below summarizes the minimum screw size based on the materials joined and is used throughout this manual. The quantity of screws will be determined in the sub-sections of Section 4.

TABLE 4.2.3: MINIMUM SCREW SIZE

Joint	Layer Against Screw Head	Other Layer	Minimum Screw Size
Flat Strap-to-Gusset	33 mil Flat Strap	33 mil Gusset	#8-18 PMTH
Gusset-to-Chord	33 mil Gusset	33-to-54 mil Chord Stud	#8-18 PMTH
		68 mil Chord Stud	#10-16 PWH
		97 mil Chord Stud	#12-14 RPFH
		0.064” HSS Chord	#8-18 PMTH
		0.083”-to-0.165” HSS Chord	#12-14 RPFH
		3/16-to-1/4” HSS Chord	#10-22 RPFH
Gusset-to-Track	33 mil Gusset	33-to-54 mil Track	#8-18 PMTH
		68 mil Track	#10-16 PWH
		97 mil Track	#12-14 RPFH
All screws shall have capacities listed in ICC reports greater than or equal to Senco Grabber screws (ICC ESR 3558)			

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4.3 GROSS SHEAR WALL REQUIREMENTS

Purpose: Using the Pod Type, S_{DS}, I_p and Pod Weight values determined in Section 2, for each "Vertical Zone" and for each "Shear Wall", use this Section to determine the Pod "Shear Loading" and the "Required Strap Size" for use in later sections. Also, use this Section to determine the Pod's "Required Anchorage Force" and "Required Hold Down Type" for use in later sections. Record your findings on the "Blank Shear Wall Schedule" (Table 4.1.2).

4.3.1 FIND THE CORRECT TABLE 4.3.X

In this Section, there are numerous tables starting with the label "Table 4.3.x", where x is a counter. Locate the Table 4.3.x that best corresponds to the design parameters for your project. Across the top of each page is a line labeled "PARAMETERS" that lists specific values of Pod Type, I_p, S_{DS} and Pod Weight. Refer to Section 2 of this manual to determine each of these parameters. Pick the table that provides the closest match to your parameters. You will only need one such table for a given project.

Note: Your actual S_{DS} and W values may lie between the tabulated values in Tables 4.3.x. To find an appropriate table, round-up your S_{DS} and W values to the nearest match. Do not round down.

Once you have found the correct Table, extract the design requirements for each wall of the pod and for each vertical zone in the building, as explained below.

4.3.2 EXTRACTING VALUES FROM THE TABLE

On each Table, there are two sub-tables, Table A and Table B. Navigate both tables in the same manner: First, find the column of data that best matches the "Aspect Ratio". (Note: Table A uses the "Shear Wall Aspect Ratio" (Section 3.3); Table B uses the "Pod Aspect Ratio" (Section 2.6). If a particular wall aspect ratio is not listed on the table, round your actual aspect ratio up to the closest matching aspect ratio on the table. Next, find the row that best fits your vertical location or "z/h" ratio, rounding up if necessary. At the intersection of this column and row, record the data listed.

TABLE A: SHEAR LOADING & REQUIRED STRAP TYPE: Two values are provided. The upper value is the shear loading for the wall, provided in units of pounds per foot or "plf". The lower value is the "Required Flat Strap Type", presented as a specification code. See Section 3.2, under "Flat Strap" bracing for how to interpret the specification code.

Note: The "Shear Loading" values represent the unit shear loading of the wall panel, i.e. the total seismic shear on the wall divided by its length. Record the values on the blank form; they will be needed in Section 4.5.

Note: The "Required Strap Type" is listed in a spec form, or "call-out" form. Record the code on your blank form; it will be needed to access "Detail Requirements" in the next section. Each wall shall have two flat strap braces arranged in an "X" pattern as shown on Figure 3.2.1.

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD-DOWN TYPE: Two values are provided. The upper value is the "Required Anchorage Force " provided in "pound" units or "lbs". The lower value is the "Required Hold Down Type", presented as "HD-x" where x varies from 1 (The lightest load rating) to 3 or more. The "Required Anchorage Force" and "Hold Down Type" values will be used in Section 4.6.

Final Tip: Cycle through the above exercise for all defined shear walls, using the same Table 4.3.x, but using the proper "Shear Wall Aspect Ratio" for each wall. The Table B information will be the same for all walls, so this table is only accessed one time per vertical zone. Once completed, move to Section 4.4.

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4.4 DETAILED SHEAR WALL REQUIREMENTS

Purpose: Using the "Required Strap Type" determined in Section 4.3, for each "Vertical Zone" and for each "Shear Wall", determine the "Detailed Shear Wall Requirements" for each shear wall. Record the values in your "Blank Shear Wall Schedule" (Table 4.1.2). For each shear wall:

4.4.1 FIND THE CORRECT TABLE 4.4.X

Using the "Required Strap Type" value for this wall, locate the "Table 4.4.x" that matches the "Required Strap Type" for this wall. The "Strap Type" for each page is listed at the top right-hand corner of the table.

Note: The Building Code dictates that "Flat-Strap Braced Shear Walls" be designed such that the Flat Strap Braces are the "weak link" in the built shear wall. This means that the chords, tracks, gussets and connecting screws must all be stronger than the strap. Compliance with this requirement is built into the tables, but this creates an important rule: Whenever selecting a Section 4.4 Table, always select the table for the strap type to be built. For example, if the previous section (Section 4.3) requires a "100FS-33-50" and you have determined that all pods will be built using "150FS-33-50" straps, then you must select the Section 4.4 table for the "150FS-33-50" strap type. This will ensure the weak-link requirement noted above.

4.4.2 EXTRACTING VALUES FROM THE TABLE

On each table, there are two sub-tables, Table A and Table B. Navigate both tables in the same manner: First, find the column that best matches the "Aspect Ratio" for the shear wall being considered. If a particular wall aspect ratio is not listed on the table, round your actual Aspect Ratio as follows:

- For sizing Chords, Round Up
- For sizing Tracks, Round Down
- For Sizing the Gusset Height, Round Up
- For Sizing the Gusset Width, Round Down

Next, find the row that best matches the Pod Ceiling Height, rounding your actual ceiling height up to the next closest value. At the intersection of this row and column, record the data listed.

TABLE A: MINIMUM REQUIRED CHORD & TRACK SIZES: Two values are provided, namely the required "Chord" & "Track" sizes. Provide the required "Chord" member at each end of the shear wall, selecting either a light-gage stud combination or a closed HSS tube as appropriate. Provide the required "Track" at the top track and sill track for the shear wall.

Note: In some cases you will find that the listed size for a c-section chord is "No Solutions". This means that there is no available cold-formed metal stud sizes that work. (We have limited stud gages to 16 gage, or 54 mil per SurePods' direction.) In these cases, the only solution will be a closed HSS tube shape. You will encounter this when looking at shear walls with high "Shear Wall Aspect Ratios".

TABLE B: MINIMUM REQUIRED GUSSET & SCREW CONNECTIONS: Five values are provided; be sure to record all of these values! The first value refers to a graphic depiction of the brace-gusset connection, for use interpreting the values provided. These figures are provided following the Table 4.4.x series. The minimum required "Gusset" is identified using spec or call-out code per Section 3.2. and then the minimum required screw size and quantity is provided for three connections at each end of each brace: Strap-to-Gusset, Gusset-to-Chord and Gusset-to-Track.

Note: To ensure acceptance of the pod on site, it's critically important that these minimum requirements are met in the delivered product. The "Detail" reference provided shows the geometry and layout for the strap connection to scale, with each required screw located on the drawing, to avoid mis-interpretations of the information presented in Table B.

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PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

4.5 POD ANCHORAGE FOR SHEAR

Purpose: First, determine the minimum connection between pod walls and the steel floor plate, using Section 4.5.1 and 4.5.2 below. Next, using the "Shear Loading" determined in Section 4.3, for each "Vertical Zone" and for each pod as a whole and for each shear wall, determine the minimum connection between the pod and the buildings' floor slab using Section 4.5.3 and 4.5.4 below.

Record the values in your "Blank Shear Wall Schedule" (Table 4.1.2).

4.5.1 SILL FASTENERS TO THE STEEL PLATE:

All walls of the pod - whether defined as "Shear Walls" or not – must be fastened to the steel floor plate per Table 4.5.1.

TABLE 4.5.1: MINIMUM REQUIRED SILL FASTENERS AT ALL WALLS		
Condition	Fastener	Maximum Spacing
All Walls	¼-20 ASTM A307A, A307B or ASME Grade 2 Bolts	24" O.C.
Door Jambs	Same	Within 4" of Jamb Studs
Alternative fasteners may be used. Said fasteners shall have an allowable shear loading of 1,350 lbs per bolt (LRFD shear of 2,000 lbs) when connecting 33-mil or thicker metals to ¼" thick steel plate.		

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PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

4.5.2 ADDITIONAL SILL FASTENERS TO THE STEEL PLATE: Required for all "Shear Walls" of the Pod

All shear walls of the Pod shall meet the requirements listed in Table 4.5.1 above, however for certain highly loaded walls, additional fasteners may be needed. Using the "Shear Loading" found in Section 4.3 (Tables 4.3.x [A]), use Table 4.5.2 below to determine any additional requirements:

TABLE 4.5.2: MINIMUM REQUIRED SILL FASTENERS AT SHEAR WALLS		
Section 4.3 Shear Loading	Fastener	Maximum Spacing
0 – 1,000 PLF	Use Table 4.5.1	
1,001 to 2,000 PLF	¼-20 ASTM A307A, A307B or ASME Grade 2 Bolts	12" O.C.
2,001 to 3,000 PLF	¼-20 ASTM A307A, A307B or ASME Grade 2 Bolts	6" O.C.

4.5.3 SETTING MASTIC & SHEAR ANCHORS FOR THE OVERALL POD

Sections 4.5.1 and 4.5.2 above only address the connection of metal stud framed walls to the steel floor plate. In addition, the Pod shall be anchored against sliding (shear) to the building floor structure as required in this section. While there is no structural requirement to set the Pods on a bed of mastic, a mastic bed can be incorporated into the design using approved non-resinous mastics, provided the thickness of mastic is included in the Pod depression dimension.

The approved non-resinous mastic compounds are listed in the “General Notes” found in Section 5 of this manual. The thickness of mastic shall conform to the requirements of the mastic manufacturer, not to exceed 3/8 inches. Regardless of the use of a mastic, all S3 Pods shall be positively anchored to the structural floor deck; see Section 4.5.4 for details.

4.5.4 MECHANICAL SHEAR ANCHOR REQUIREMENT FOR TYPE S3 PODS

Type S3 Pods must be mechanically anchored to the floor slab to prevent sliding under seismic loading, ignoring the bonding capabilities of the floor mastic. Table 4.5.4 provides the required total “Pod Shear Force” to be resisted and the “Number of Screw Anchors” needed to meet this requirement.

Find the Correct Table: There are five tables included in Table 4.5.4, spanning three pages. Each of these five tables covers one seismic S_{DS} (Section 2.2) factor, so find the table that best matches the project S_{DS}, rounding up to the next closest value. All of these tables apply to Type S3 pods only.

Navigating the Table: First, select the column of values that best matches the Pod Weight, W (Section 2.5), rounding up to the next closest value posted on the table. Next, select the row of values that best matches the z/h ratio defining the Vertical Zone under consideration. At the intersection of this column and row, you will find the requirements for the vertical zone under consideration.

Extracting the Values: There are two values: The first is the “Total Pod Shear Force” to be resisted and the second value is the “Number of Screw Anchors” needed to resist the total force. (*The “Shear Force” value is not needed to continue, but see the note following*) Record the “Number of Screw Anchors” value on the “Blank Shear Wall Schedule”.

> *Note: The default screw anchor is a Hilti 3/8”x2” KH-EZ Screw Anchor placed in a floor slab at least 2.5 inches thick with a 28-day compressive strength of at least 3,000 psi. Table 4.5.4 is based on this anchor and floor type. If SurePods wishes to change the anchor type or take advantage of higher present concrete strengths, an engineering review will be needed, and the “Total Pod Shear Force” value can be used to design a different type of anchor. This force magnitude is an LRFD-based lateral base shear for the Pod, with Ω_o = 1.0.*

Implementation: Shear Anchors, when required, shall be uniformly distributed around the perimeter of the Pod, with no less than the “Number of Screw Anchors” determined in Table 4.5.4 provided.

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4.6 POD ANCHORAGE FOR OVERTURNING

Purpose: Using the “Required Anchorage Force” and the “Required Hold Down Type” determined in Section 4.3, determine the requirements for hold-down anchorage for the pod. Record the values in your “Blank Shear Wall Schedule” (Table 4.1.2). This procedure should be repeated for each “Vertical Zone” defined for the project.

4.6.1 ASSESSMENT FOR “UPLIFT”

The terms “over-turning” and “uplift” are used to describe what may happen to a pod subjected to the building code seismic forces. If the seismic force is large compared to the narrowest width of the pod, the pod can “uplift” along one side of the pod; this is the result of “over-turning” forces that are large enough to overcome gravity and result in one wall of the pod “uplifting” from the floor slab. Hold-down devices anchored to the building's structural concrete floor deck prevent this from occurring. They are not needed for all pods, but will be needed in many cases.

The building code requires that the Pod be positively anchored to the building’s floor structure to prevent uplift due to “over-turning” caused by seismic forces. In section 4.3 of this manual, you found a “Required Anchorage Force” value in Table 4.3.x for your Pod, based on the “Pod Aspect Ratio” and “Vertical Position (z/h)”. If the resulting “Required Anchorage Force” value was “zero”, there is no net uplift, but the wall must still be anchored to the Steel Floor Plate using Hold Down Type HD-0, as described in Section 4.6.2 and 4.6.3.

If the “Required Anchorage Force” is a value other than zero, the Pod is predicted to have net uplift, and hold-down devices will be needed to anchor the pod to the building's structural concrete floor deck in addition to the steel floor plate. The type of anchor is determined in Section 4.6.2 below, and the layout of anchors is explained in Section 4.6.3.

4.6.2 DETERMINE “ANCHORAGE REQUIREMENTS”

First, in Section 4.3, the “Table B” query provided a “Hold Down Type” and an “Anchorage Force”, both recorded on your “Blank Shear Wall Schedule”. Using these two values, determine the "Hold-Down Device" and "Anchorage Requirement" in the next two paragraphs.

Hold-Down Device: Using the "Hold Down Type", determine the required hold-down device from Table 4.6.2.1 below:

TABLE 4.6.2.1: APPROVED HOLD DOWN DEVICES

Hold Down Type	Approved Device
HD-0	See note below* (Fig 5.6.2)
HD-1	Simpson DTT-1Z (Fig 5.6.1)
HD-2	Simpson S/LTT-20 (Fig 5.6.1)
HD-3	Simpson DTT-2Z (Fig 5.6.1)

** HD-0: If HD-1, HD-2 or HD-3 is indicated in Table 4.3.X.B, use the same Hold Down device at all HD-0 locations. If Table 4.3.X.B specifies HD-0, use Simpson DTT-1Z at all HD-0 locations.*

Anchorage Requirement: Second, determine the required post-installed uplift anchor to be used to anchor the hold-down device to the building’s floor structure. The required “post-installed” anchors are found by querying Tables 4.6.2.3, 4.6.2.4, 4.6.2.5 or higher. These tables (found at the end of this section of the manual) provide anchorage information for a specific type of floor structure. You must therefore select the table best matching the floor structure supporting your pods. Note that for all anchor types in this manual, the minimum required edge distance to the anchor is assumed to be 12".

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Navigate the Table: Each 4.6.2.x Table is organized in the same manner: The floor system type is indicated on a line just below the title line. Each table contains three sub-tables, A, B and C corresponding to solutions using Hilti, Simpson and Mitek anchorage products. Each of these tables A, B and C is further divided into three sections, providing designs for Expansion Anchors, Resin Anchors and Screw Anchors. Finally, each table lists three columns of values for three listed 28-day concrete compression strengths (f'_c).

SurePods is free to choose between the products listed on each table, selecting from Hilti, Simpson or Mitek brands as desired, and selecting from amoung the available expansion anchors, resin (epoxy) anchors and screw anchors. This gives Surepods maximum flexibility in selecting suitable anchorage devices.

Extract the Requirements: The values listed for any given anchor type and concrete strength represent the anchor's "up-lift" or "pull-out" strength for the Table's listed floor system type and 28-day minimum strength. You may select any anchor product whose capacity meets or exceeds the "Anchorage Force" requirement found in Section 4.3 for the Pod.

Plan Checkers Note: All or most of these anchor designs are classified as non-ductile per ACI 318-18 Section 17.2.3.4.3(d). Therefore, the "Anchorage Force" requirement found in Section 4.3 represents the net LRFD uplift, factored by Ω_o=2.5. These forces can be directly compared to the values in Tables 4.6.2.x.

Anchor Type Call-Outs: In each Table A, B and C, under the column labeled "Anchor Type", anchors are listed using a special code, as defined herein: The post-installed anchors codes are presented in this form:

XXX YYYY ZZZ

Where: **XXX** denotes the anchor diameter in inches x100 (e.g. 375 denotes 3/8")

YYYY denotes the anchor type code (See Below)

ZZZ denotes the minimum depth of embedment in inches x100 (e.g. 375 denotes 3-3/4")

The types of post-installed anchors listed in these tables includes the following:

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TABLE 4.6.2.2: APPROVED POST-INSTALLED ANCHORS

Anchor Code	Manufacturer	Model	Material	Approval
KBTZ2	Hilti, Inc	Kwik Bolt TZ2	Carbon Steel	ESR-4266
RE100	Hilti, Inc.	HIT-RE 100	ASTM A193 Grade B7	ESR-3829
RE500	Hilti, Inc.	HIT-RE 500 V3	ASTM A193 Grade B7	ESR-3814
KHEZ	Hilti, Inc.	Kwik Hus-EZ	Carbon Steel	ESR-3027
CSSB2	Simpson Strongtie Co.	CS Strong Bolt 2	Carbon Steel	ESR-3037
SET3G	Simpson Strongtie Co.	SET-3G	ASTM A193 Grade B7	ESR-4057
TITEN	Simpson Strongtie Co.	Titen HD	Carbon Steel	ESR-2713
WACW	Mitek	WAC Wedge	Carbon Steel	ESR-4298
CIAG7C	Mitek	CIA-Gel 7000-C	ASTM A193 Grade B7	ER-0473
SACHS	Mitek	SACH	Carbon Steel	ESR-4419

Potential Problems and Helpful Hints: You may encounter one of several situations where a working solution cannot be found. The following bullets will help navigate these issues:

- **Situation 1 - "No Solution":** Table 4.6.2.x may inform you that the "Uplift Capacity" for a preferred anchor is "N/A" for the specific floor system you are working with. This means that the listed anchor is not approved for the floor system, and another type of anchor must be selected.
- **Situation 2:** Table 4.3.x may inform you that there is "No Solution" - or - Table 4.6.2.x may inform you that there is no anchor with enough "Uplift Capacity" to satisfy the requirement determined above. This means that the uplift force is higher than any of the conventional post-installed anchor solutions that the manual can satisfy, and a special solution will be needed to anchor the pod. This could be the case, for example, with projects using thin deck fills on metal deck in high seismic regions. This may also occur where the uplift requirements are simply too high for conventional post-installed anchorage products, and other solutions are needed. See Section 4.6.4 below for potential solutions.

4.6.3 LOCATING HOLD DOWN DEVICES

Provide the hold-down device determined in Section 4.6.2, using the layout rules below, and record this layout on the structural floor plan for the Pod, for approval. Satisfy these rules:

1. Each "chord" member of each shear wall shall have a hold-down device, HD-0 or greater as determined in Section 4.6.2. Since there are a minimum of four walls per Pod, each pod will have a minimum of 8 hold-down devices. Locate hold-down devices at the base of each shear wall chord member.
2. The minimum hold-down device is HD-0. This device shall connect the shear wall chord member to the steel plate floor of the pod. Details are provided in Section 5, see Detail 5.6.2.
3. If it is determined in Section 4.6.2 that hold-downs with anchorage to the structural concrete floor deck (HD-1, HD-2, or HD-3) are required, provide a minimum of four (4) such anchors per Pod, with one at each corner of the Pod. This means that of the eight total number of hold-down devices required in item 1 above, four must be anchored to the slab below, and these anchors must be located at the Pod corners. The remaining four hold-down devices will be HD-0 type devices bolted to the steel floor plate. Where two shear walls share a common corner, one hold-down will be HD-0 and the other hold-down will be anchored into the slab below using one of the Post-Installed Anchors listed in Table 4.6.2.2.
4. If it is determined in Section 4.6.2 that the required hold-down type is HD-0, provide a minimum of eight (8) HD-0 anchors per pod.

4.6.4 VERY HIGH UPLIFT ANCHORAGE REQUIREMENTS

As noted in Section 4.6.2 above, situations will arise where the conventional "Post-Installed" anchor solutions contained in this manual will not satisfy the "Anchorage Force Requirment" found therein. In these cases, the following solutions can be used:

1. Suggest a higher strength concrete mix or a thicker topping thickness to the SEOR for consideration.
2. Barring the above solution, use a through-the-deck bolted anchor as per Detail 5.6.5.1 in this manual. The thru-the-deck bolt diameter must match the Hold Down Type requirement, as explained on this detail. This approach requires careful coordination with structural framing and possible plumbing, electrical, mechanical or other equipment below the deck.
3. Barring any of the above solutions, consult the Authors of this manual for assistance.

ICC-ES Approved DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

4.7 CEILING & DIAPHRAGM CONSTRUCTION

Purpose: Using the overall pod dimensions and the Track size determined in Section 4.4, Determine two requirements for the Pod as a unit: First, determine the minimum rafter size for ceiling framing; See Section 4.7.1. Second, determine the ceiling diaphragm bracing layout and struts needed to create the “Ceiling Diaphragm”. See Sections 4.7.2, 4.7.3 and 4.7.4. Record the values in your “Blank Shear Wall Schedule” (Table 4.1.2).

4.7.1 SIZE THE RAFTERS

First, note that Rafters shall be laid out to span across the narrow dimension of the Pod, thus the “Rafter Span” in the table below should correspond to the length of the narrow dimension of the Pod. Next, using Table 4.7.1 below, find the row with a rafter span that meets and/or exceeds the narrow dimension of the pod, and select the rafter & fastener requirements for that span condition.

TABLE 4.7.1: MINIMUM CEILING RAFTERS

Rafter Span	Rafter Size (Pod Type S3)	Fasteners @ 33-54 mil (20-16 ga) Track	Fasteners @ 63 mil (14 ga) Track	Fasteners @ 97 mil (12 ga) Track
5’-0”	350S162-43-33	#8-18 PMTH	#10-16 PWH	#12-14 RPFH
5’-6”	350S162-43-33			
6’-0”	350S200-43-33	(2) for Non-Brace Rafters	(2) for Non-Brace Rafters	(2) for Non-Brace Rafters
6’-6”	350S200-43-33			
7’-0”	350S200-43-33			
7’-6”	400S200-43-33	(6) for Brace Rafters	(6) for Brace Rafters	(6) for Brace Rafters
8’-0”	550S200-43-33			
Screw sizes vary with base metal thickness, provide quantity posted at each end of strap. For location of "Brace Rafters" and "Non-Brace Rafters", see Figure 4.7.2.				

HCAI PCS-0003 REVIEWED FOR CODE COMPLIANCE CALIFORNIA BUILDING CODE, 2019 BY: Alireza Asgari DATE: 03/21/2022

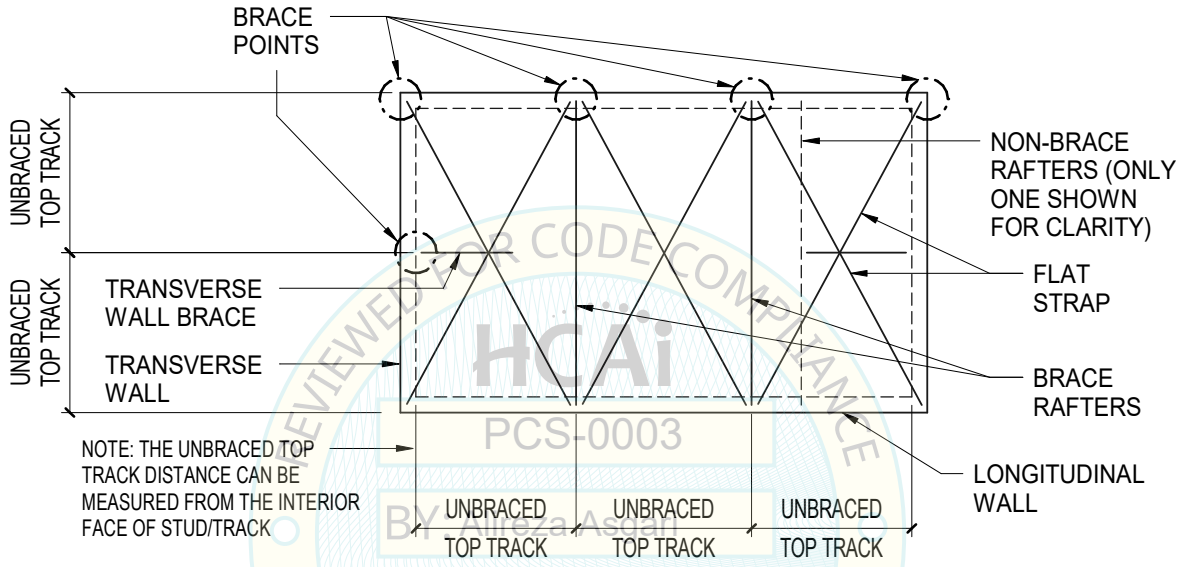
Rafter Layout Rules: Observe these rules when laying out ceiling rafters:

- Rafters shall span across the narrow dimension of the Pod.
- Rafters shall be oriented flat-wise on the top track with flanges pointing upward, as shown on Figure 5.7.1
- Spacing of rafters shall be the same as used for wall studs.
- Rafters shall be laid out so that the rafter lands directly over a wall stud(s) and therefore avoids bending the top track. Placing rafters between wall studs is not permitted.
- Brace Rafters differ from typical ceiling rafters only in the connections to the Tracks at their ends, not in the size of the section itself

4.7.2 LAYOUT THE DIAPHRAGM ELEMENTS

The building code requires that the “roof” or ceiling of the pod be capable of distributing seismic forces to the walls of the pod. The ceiling material used in a SurePods pod is not recognized as suitable for this requirement, therefore each pod will need to include flat-strap bracing in the ceiling plane, to act as a “diaphragm” to distribute seismic forces to the walls.

The layout of bracing for the Ceiling Diaphragm must satisfy several requirements listed below. In general terms, the ceiling plan is sub-divided into multiple sections where each section contains one pair of flat-strap braces arranged in an “X” pattern, as shown in Figure 4.7.2 below:



HCAi PCS-0003 BY Alireza Asgari DATE: 03/21/2022 REVIEWED FOR CODE COMPLIANCE CALIFORNIA BUILDING CODE 2019

Figure 4.7.2 – Pod Ceiling Diaphragm Layout

Sub-division of the Ceiling Plan: Subdivide the top track into short segments. In Section 4.7.4 to follow, you will determine the "Maximum Unbraced Track Length" of the top track, and the goal for the layout of the ceiling diaphragm is to provide "Brace Points" along the top track that are spaced less than the "Maximum Unbraced Track Length." Brace Points define a rafter location and thus shall occur over wall stud locations below. Use these rules to layout the ceiling diaphragm brace points:

- The “Unbraced Top Track” length between any two “Braced Points” must be less than the “Maximum Unbraced Top Track Length” determined in Section 4.7.4 below. This applies to all walls.
- For longitudinal walls, the top track is subdivided by introducing pairs of diagonal strap braces to create “Braced Points” that satisfy the “Maximum Unbraced Top Track” length determined for that wall.
- For transverse walls, the top track is subdivided by introducing one or more flat-strap ties (labeled "Transverse Wall Brace") running from the needed “Brace Point” to the nearest “X” intersection. There must be at least one brace point along the transverse walls.

- A Pod shall have at least two pairs of flat-strap braces. In other words, in addition to the brace points at the corners of the Pod, there must be at least one brace point along the span of the longitudinal wall.
- A Rafter shall occur between each pair of braced panels.

Before laying out the Ceiling Diaphragm Bracing, determine the minimum required diaphragm strap size using Section 4.7.3 and determine the "Maximum Unbraced Track Length" using Section 4.7.4 below. See Section 5 for details of construction.

4.7.3 MINIMUM REQUIRED STRAP SIZE

Using Table 4.7.3 below, determine the minimum required strap specification for Ceiling Diaphragm construction:

TABLE 4.7.3: MINIMUM REQUIRED DIAPHRAGM STRAP SPECIFICATION

Pod Type	S3
Flat-Strap Spec	150FS-33-50
Fasteners @ 33-54 mil Track *Min Edge Distance 0.25"* *Min Spacing 0.50"*	(10) - #8-18 PMTH
Fasteners @ 68 mil Track *Min Edge Distance 0.30"* *Min Spacing 0.60"*	(9) - #10-16PWH
Fasteners @ 97 mil Track *Min Edge Distance 0.35"* *Min Spacing 0.70"*	(9) - #12-14RPFH

HCAi PCS-0003 BY: Alireza Asgari

4.7.4 MAXIMUM UNBRACED TRACK LENGTH

Follow these steps to determine the maximum unbraced track lengths for a pod. A series of tables labeled "Table 4.7.4.x" is provided for this step, and first you must select the appropriate table. Tables are provided for various combinations of S_{DS} and Pod weight. These parameters are listed just below the Title line. Select the table that best matches your project pod type, S_{DS} and weight parameters.

Navigate the Table: First, find the column of data that best matches the length across the narrow dimension of the pod. Next, find the row of data that best matches the z/h parameter, then the row matching the track section designator. Notice that for each z/h row, there are multiple lines of data, each corresponding to a unique track size. Select the row that best matches both the z/h value and the track size determined in Section 4.4.

Extract the Requirements: At the intersection of the row and column identified above, note the dimension provided: this is the "Maximum Unbraced Track Length" for the track size selected. You can use this value to layout "Braced Points" along the top track. If the pod uses multiple top track sizes based on shear wall requirements, you will need to find the "Maximum Unbraced Top Track Length" for each top track size used, and adjust the layout of braced points to meet the requirements along each type of top track.

Note 1: Notice that some of the values in these tables are shaded. This shading is a simple device to show when the "maximum unbraced track length" is less than the "Pod Width", which of course means that "Braced Points" will need to be added to that particular track member.

Note 2: It is possible to avoid adding one or more "Braced Points" by up-sizing the track section used. The essential criteria must still be met: Determine the "Maximum Unbraced Track Length" for the new track, and compare with your proposed subdivision scheme for the pod.

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HCAi
PCS-0003
BY Alireza Asgari
DATE 03/21/2022
CALIFORNIA BUILDING CODE, 2019

TABLE 4.3.X

GROSS SHEAR WALL REQUIREMENTS

Seismic Parameters

Assumptions:

I_p **= 1.0** for Pod Types S1 & S2, I_p **= 1.5** for Pod type S3

a_p **= 2.5** per ASCE 7-16 Table 13.5-1 for flexible components

Note that assuming flexibility is conservative, as rigid components have a lower a_p *= 1.0.*

R_p **= 3.5** per ASCE 7-16 Table 13.5-1 for high deformability elements

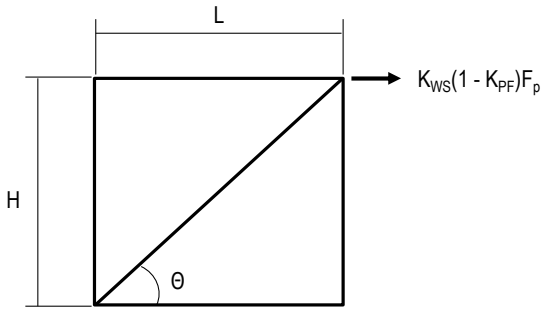
Note that AISI S400-20 E3.2.2 (ref. ASCE 7-16 Table 12.2-1 Line A.18) allows R = 4 for cold-formed steel light frame strap braced wall systems, so R_p *= 3.5 is conservative.*

F_p **= max(0.3 , min(1.6 , 0.4 * (**a_p **/** R_p**) * (1 + 2 * z/h))) *** I_p **** S_{DS} **** Weight** per ASCE 7-16 13.3.1.1

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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE, 2019

Strap Forces

Example Calculation



$F_p = \max(0.3 , \min(1.6 , 0.4 * (a_p / R_p) * (1 + 2 * z/h))) * I_p * S_{DS} * \text{Weight}$

$\Sigma F_x = 0$:

$\Phi T_{n,b} \geq T_{u,b} = K_{WS} * (1 - K_{PF}) * F_p / \cos\Theta, \quad \Theta = \arctan(H/L)$

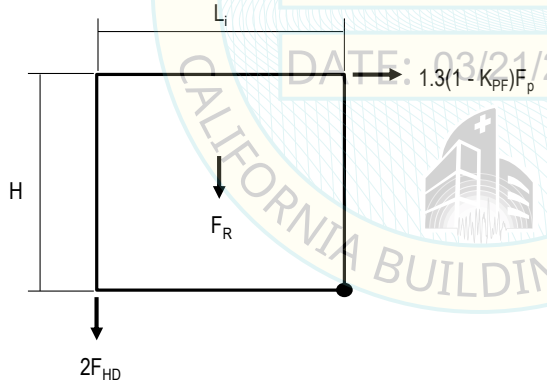
$\Phi T_{n,b} = \Phi * F_{y,b} * w_b * t_b$

$\rightarrow$ **$w_b \geq K_{WS}F_p / \cos(\arctan(H/L)) / (\Phi * F_{y,b} * t_b)$**

* w_b = *minimum required flat strap brace width*
* t_b = *flat strap brace thickness*
* $F_{y,b}$ = *flat strap brace yield strength*
* K_{PF} = *lower-bound portion of total pod weight in the floor = 0.65*
* K_{WS} = *upper-bound portion of total pod shear force per wall = 0.6*

Hold-Down Forces

Example Calculation



$\Sigma M = 0$:

$1.3 * (1 - K_{PF}) * F_p * H - F_R * L_i / 2 - 2 * F_{HD} * L = 0$

$F_R = (0.9 - 0.2 * S_{DS}) * \text{Weight}$

$\rightarrow$ **$F_{HD} = 0.5 * (1.3 * (1 - K_{PF}) * F_p * H/L - 0.5 * (0.9 - 0.2 * S_{DS}) * \text{Weight}) \geq 0$**

$F_{AN} = \Omega * F_{HD}, \quad \Omega = 2.5$

* F_{HD} = *required hold-down force*
* F_{AN} = *required anchorage force*

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TABLE 4.3.161: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.40	Weight	2000 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	48 150FS-33-50	60 150FS-33-50	72 150FS-33-50	84 150FS-33-50	96 150FS-33-50	120 150FS-33-50	144 150FS-33-50	168 150FS-33-50
0.9	45 150FS-33-50	56 150FS-33-50	67 150FS-33-50	78 150FS-33-50	90 150FS-33-50	112 150FS-33-50	134 150FS-33-50	157 150FS-33-50
0.8	42 150FS-33-50	52 150FS-33-50	62 150FS-33-50	73 150FS-33-50	83 150FS-33-50	104 150FS-33-50	125 150FS-33-50	146 150FS-33-50
0.7	38 150FS-33-50	48 150FS-33-50	58 150FS-33-50	67 150FS-33-50	77 150FS-33-50	96 150FS-33-50	115 150FS-33-50	134 150FS-33-50
0.6	35 150FS-33-50	44 150FS-33-50	53 150FS-33-50	62 150FS-33-50	70 150FS-33-50	88 150FS-33-50	106 150FS-33-50	123 150FS-33-50
0.5	32 150FS-33-50	40 150FS-33-50	48 150FS-33-50	56 150FS-33-50	64 150FS-33-50	80 150FS-33-50	96 150FS-33-50	112 150FS-33-50
0.4	29 150FS-33-50	36 150FS-33-50	43 150FS-33-50	50 150FS-33-50	58 150FS-33-50	72 150FS-33-50	86 150FS-33-50	101 150FS-33-50
0.3	26 150FS-33-50	32 150FS-33-50	38 150FS-33-50	45 150FS-33-50	51 150FS-33-50	64 150FS-33-50	77 150FS-33-50	90 150FS-33-50
0.2	22 150FS-33-50	28 150FS-33-50	34 150FS-33-50	39 150FS-33-50	45 150FS-33-50	56 150FS-33-50	67 150FS-33-50	78 150FS-33-50
0.1	19 150FS-33-50	24 150FS-33-50	29 150FS-33-50	34 150FS-33-50	38 150FS-33-50	48 150FS-33-50	58 150FS-33-50	67 150FS-33-50
0.0	17 150FS-33-50	21 150FS-33-50	25 150FS-33-50	29 150FS-33-50	34 150FS-33-50	42 150FS-33-50	50 150FS-33-50	59 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	145 HD-1	291 HD-1
0.9	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	67 HD-1	204 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	116 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	28 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

HCAI PCS-0003 REVIEWED FOR CODE COMPLIANCE BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE 2019

TABLE 4.3.162: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.40	Weight	2200 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	53 150FS-33-50	66 150FS-33-50	79 150FS-33-50	92 150FS-33-50	106 150FS-33-50	132 150FS-33-50	158 150FS-33-50	185 150FS-33-50
0.9	49 150FS-33-50	62 150FS-33-50	74 150FS-33-50	86 150FS-33-50	99 150FS-33-50	123 150FS-33-50	148 150FS-33-50	172 150FS-33-50
0.8	46 150FS-33-50	57 150FS-33-50	69 150FS-33-50	80 150FS-33-50	92 150FS-33-50	114 150FS-33-50	137 150FS-33-50	160 150FS-33-50
0.7	42 150FS-33-50	53 150FS-33-50	63 150FS-33-50	74 150FS-33-50	84 150FS-33-50	106 150FS-33-50	127 150FS-33-50	148 150FS-33-50
0.6	39 150FS-33-50	48 150FS-33-50	58 150FS-33-50	68 150FS-33-50	77 150FS-33-50	97 150FS-33-50	116 150FS-33-50	136 150FS-33-50
0.5	35 150FS-33-50	44 150FS-33-50	53 150FS-33-50	62 150FS-33-50	70 150FS-33-50	88 150FS-33-50	106 150FS-33-50	123 150FS-33-50
0.4	32 150FS-33-50	40 150FS-33-50	48 150FS-33-50	55 150FS-33-50	63 150FS-33-50	79 150FS-33-50	95 150FS-33-50	111 150FS-33-50
0.3	28 150FS-33-50	35 150FS-33-50	42 150FS-33-50	49 150FS-33-50	56 150FS-33-50	70 150FS-33-50	84 150FS-33-50	99 150FS-33-50
0.2	25 150FS-33-50	31 150FS-33-50	37 150FS-33-50	43 150FS-33-50	49 150FS-33-50	62 150FS-33-50	74 150FS-33-50	86 150FS-33-50
0.1	21 150FS-33-50	26 150FS-33-50	32 150FS-33-50	37 150FS-33-50	42 150FS-33-50	53 150FS-33-50	63 150FS-33-50	74 150FS-33-50
0.0	18 150FS-33-50	23 150FS-33-50	28 150FS-33-50	32 150FS-33-50	37 150FS-33-50	46 150FS-33-50	55 150FS-33-50	65 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	160 HD-1	320 HD-1
0.9	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	74 HD-1	224 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	127 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	31 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

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TABLE 4.3.163: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.40	Weight	2400 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	58 150FS-33-50	72 150FS-33-50	86 150FS-33-50	101 150FS-33-50	115 150FS-33-50	144 150FS-33-50	173 150FS-33-50	202 150FS-33-50
0.9	54 150FS-33-50	67 150FS-33-50	81 150FS-33-50	94 150FS-33-50	108 150FS-33-50	134 150FS-33-50	161 150FS-33-50	188 150FS-33-50
0.8	50 150FS-33-50	62 150FS-33-50	75 150FS-33-50	87 150FS-33-50	100 150FS-33-50	125 150FS-33-50	150 150FS-33-50	175 150FS-33-50
0.7	46 150FS-33-50	58 150FS-33-50	69 150FS-33-50	81 150FS-33-50	92 150FS-33-50	115 150FS-33-50	138 150FS-33-50	161 150FS-33-50
0.6	42 150FS-33-50	53 150FS-33-50	63 150FS-33-50	74 150FS-33-50	84 150FS-33-50	106 150FS-33-50	127 150FS-33-50	148 150FS-33-50
0.5	38 150FS-33-50	48 150FS-33-50	58 150FS-33-50	67 150FS-33-50	77 150FS-33-50	96 150FS-33-50	115 150FS-33-50	134 150FS-33-50
0.4	35 150FS-33-50	43 150FS-33-50	52 150FS-33-50	60 150FS-33-50	69 150FS-33-50	86 150FS-33-50	104 150FS-33-50	121 150FS-33-50
0.3	31 150FS-33-50	38 150FS-33-50	46 150FS-33-50	54 150FS-33-50	61 150FS-33-50	77 150FS-33-50	92 150FS-33-50	108 150FS-33-50
0.2	27 150FS-33-50	34 150FS-33-50	40 150FS-33-50	47 150FS-33-50	54 150FS-33-50	67 150FS-33-50	81 150FS-33-50	94 150FS-33-50
0.1	23 150FS-33-50	29 150FS-33-50	35 150FS-33-50	40 150FS-33-50	46 150FS-33-50	58 150FS-33-50	69 150FS-33-50	81 150FS-33-50
0.0	20 150FS-33-50	25 150FS-33-50	30 150FS-33-50	35 150FS-33-50	40 150FS-33-50	50 150FS-33-50	60 150FS-33-50	71 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	174 HD-1	350 HD-1
0.9	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	80 HD-1	244 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	139 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	34 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

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TABLE 4.3.164: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.40	Weight	2600 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	62 150FS-33-50	78 150FS-33-50	94 150FS-33-50	109 150FS-33-50	125 150FS-33-50	156 150FS-33-50	187 150FS-33-50	218 150FS-33-50
0.9	58 150FS-33-50	73 150FS-33-50	87 150FS-33-50	102 150FS-33-50	116 150FS-33-50	146 150FS-33-50	175 150FS-33-50	204 150FS-33-50
0.8	54 150FS-33-50	68 150FS-33-50	81 150FS-33-50	95 150FS-33-50	108 150FS-33-50	135 150FS-33-50	162 150FS-33-50	189 150FS-33-50
0.7	50 150FS-33-50	62 150FS-33-50	75 150FS-33-50	87 150FS-33-50	100 150FS-33-50	125 150FS-33-50	150 150FS-33-50	175 150FS-33-50
0.6	46 150FS-33-50	57 150FS-33-50	69 150FS-33-50	80 150FS-33-50	92 150FS-33-50	114 150FS-33-50	137 150FS-33-50	160 150FS-33-50
0.5	42 150FS-33-50	52 150FS-33-50	62 150FS-33-50	73 150FS-33-50	83 150FS-33-50	104 150FS-33-50	125 150FS-33-50	146 150FS-33-50
0.4	37 150FS-33-50	47 150FS-33-50	56 150FS-33-50	66 150FS-33-50	75 150FS-33-50	94 150FS-33-50	112 150FS-33-50	131 150FS-33-50
0.3	33 150FS-33-50	42 150FS-33-50	50 150FS-33-50	58 150FS-33-50	67 150FS-33-50	83 150FS-33-50	100 150FS-33-50	116 150FS-33-50
0.2	29 150FS-33-50	36 150FS-33-50	44 150FS-33-50	51 150FS-33-50	58 150FS-33-50	73 150FS-33-50	87 150FS-33-50	102 150FS-33-50
0.1	25 150FS-33-50	31 150FS-33-50	37 150FS-33-50	44 150FS-33-50	50 150FS-33-50	62 150FS-33-50	75 150FS-33-50	87 150FS-33-50
0.0	22 150FS-33-50	27 150FS-33-50	33 150FS-33-50	38 150FS-33-50	44 150FS-33-50	55 150FS-33-50	66 150FS-33-50	76 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	189 HD-1	379 HD-1
0.9	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	87 HD-1	265 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	150 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	36 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

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TABLE 4.3.165: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.40	Weight	2800 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	67 150FS-33-50	84 150FS-33-50	101 150FS-33-50	118 150FS-33-50	134 150FS-33-50	168 150FS-33-50	202 150FS-33-50	235 150FS-33-50
0.9	63 150FS-33-50	78 150FS-33-50	94 150FS-33-50	110 150FS-33-50	125 150FS-33-50	157 150FS-33-50	188 150FS-33-50	220 150FS-33-50
0.8	58 150FS-33-50	73 150FS-33-50	87 150FS-33-50	102 150FS-33-50	116 150FS-33-50	146 150FS-33-50	175 150FS-33-50	204 150FS-33-50
0.7	54 150FS-33-50	67 150FS-33-50	81 150FS-33-50	94 150FS-33-50	108 150FS-33-50	134 150FS-33-50	161 150FS-33-50	188 150FS-33-50
0.6	49 150FS-33-50	62 150FS-33-50	74 150FS-33-50	86 150FS-33-50	99 150FS-33-50	123 150FS-33-50	148 150FS-33-50	172 150FS-33-50
0.5	45 150FS-33-50	56 150FS-33-50	67 150FS-33-50	78 150FS-33-50	90 150FS-33-50	112 150FS-33-50	134 150FS-33-50	157 150FS-33-50
0.4	40 150FS-33-50	50 150FS-33-50	60 150FS-33-50	71 150FS-33-50	81 150FS-33-50	101 150FS-33-50	121 150FS-33-50	141 150FS-33-50
0.3	36 150FS-33-50	45 150FS-33-50	54 150FS-33-50	63 150FS-33-50	72 150FS-33-50	90 150FS-33-50	108 150FS-33-50	125 150FS-33-50
0.2	31 150FS-33-50	39 150FS-33-50	47 150FS-33-50	55 150FS-33-50	63 150FS-33-50	78 150FS-33-50	94 150FS-33-50	110 150FS-33-50
0.1	27 150FS-33-50	34 150FS-33-50	40 150FS-33-50	47 150FS-33-50	54 150FS-33-50	67 150FS-33-50	81 150FS-33-50	94 150FS-33-50
0.0	24 150FS-33-50	29 150FS-33-50	35 150FS-33-50	41 150FS-33-50	47 150FS-33-50	59 150FS-33-50	71 150FS-33-50	82 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	203 HD-1	408 HD-1
0.9	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	94 HD-1	285 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	162 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	39 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

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TABLE 4.3.166: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.40	Weight	3000 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	72 150FS-33-50	90 150FS-33-50	108 150FS-33-50	126 150FS-33-50	144 150FS-33-50	180 150FS-33-50	216 150FS-33-50	252 150FS-33-50
0.9	67 150FS-33-50	84 150FS-33-50	101 150FS-33-50	118 150FS-33-50	134 150FS-33-50	168 150FS-33-50	202 150FS-33-50	235 150FS-33-50
0.8	62 150FS-33-50	78 150FS-33-50	94 150FS-33-50	109 150FS-33-50	125 150FS-33-50	156 150FS-33-50	187 150FS-33-50	218 150FS-33-50
0.7	58 150FS-33-50	72 150FS-33-50	86 150FS-33-50	101 150FS-33-50	115 150FS-33-50	144 150FS-33-50	173 150FS-33-50	202 150FS-33-50
0.6	53 150FS-33-50	66 150FS-33-50	79 150FS-33-50	92 150FS-33-50	106 150FS-33-50	132 150FS-33-50	158 150FS-33-50	185 150FS-33-50
0.5	48 150FS-33-50	60 150FS-33-50	72 150FS-33-50	84 150FS-33-50	96 150FS-33-50	120 150FS-33-50	144 150FS-33-50	168 150FS-33-50
0.4	43 150FS-33-50	54 150FS-33-50	65 150FS-33-50	76 150FS-33-50	86 150FS-33-50	108 150FS-33-50	130 150FS-33-50	151 150FS-33-50
0.3	38 150FS-33-50	48 150FS-33-50	58 150FS-33-50	67 150FS-33-50	77 150FS-33-50	96 150FS-33-50	115 150FS-33-50	134 150FS-33-50
0.2	34 150FS-33-50	42 150FS-33-50	50 150FS-33-50	59 150FS-33-50	67 150FS-33-50	84 150FS-33-50	101 150FS-33-50	118 150FS-33-50
0.1	29 150FS-33-50	36 150FS-33-50	43 150FS-33-50	50 150FS-33-50	58 150FS-33-50	72 150FS-33-50	86 150FS-33-50	101 150FS-33-50
0.0	25 150FS-33-50	32 150FS-33-50	38 150FS-33-50	44 150FS-33-50	50 150FS-33-50	63 150FS-33-50	76 150FS-33-50	88 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	218 HD-1	437 HD-1
0.9	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	101 HD-1	305 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	174 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	42 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

PREPARED FOR CODE COMPLIANCE BY: Alireza Asgari DATE: 03/21/2022 PCS-0003 HCAI CALIFORNIA BUILDING CODE 2019

TABLE 4.3.167: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.40	Weight	3200 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	77 150FS-33-50	96 150FS-33-50	115 150FS-33-50	134 150FS-33-50	154 150FS-33-50	192 150FS-33-50	230 150FS-33-50	269 150FS-33-50
0.9	72 150FS-33-50	90 150FS-33-50	108 150FS-33-50	125 150FS-33-50	143 150FS-33-50	179 150FS-33-50	215 150FS-33-50	251 150FS-33-50
0.8	67 150FS-33-50	83 150FS-33-50	100 150FS-33-50	116 150FS-33-50	133 150FS-33-50	166 150FS-33-50	200 150FS-33-50	233 150FS-33-50
0.7	61 150FS-33-50	77 150FS-33-50	92 150FS-33-50	108 150FS-33-50	123 150FS-33-50	154 150FS-33-50	184 150FS-33-50	215 150FS-33-50
0.6	56 150FS-33-50	70 150FS-33-50	84 150FS-33-50	99 150FS-33-50	113 150FS-33-50	141 150FS-33-50	169 150FS-33-50	197 150FS-33-50
0.5	51 150FS-33-50	64 150FS-33-50	77 150FS-33-50	90 150FS-33-50	102 150FS-33-50	128 150FS-33-50	154 150FS-33-50	179 150FS-33-50
0.4	46 150FS-33-50	58 150FS-33-50	69 150FS-33-50	81 150FS-33-50	92 150FS-33-50	115 150FS-33-50	138 150FS-33-50	161 150FS-33-50
0.3	41 150FS-33-50	51 150FS-33-50	61 150FS-33-50	72 150FS-33-50	82 150FS-33-50	102 150FS-33-50	123 150FS-33-50	143 150FS-33-50
0.2	36 150FS-33-50	45 150FS-33-50	54 150FS-33-50	63 150FS-33-50	72 150FS-33-50	90 150FS-33-50	108 150FS-33-50	125 150FS-33-50
0.1	31 150FS-33-50	38 150FS-33-50	46 150FS-33-50	54 150FS-33-50	61 150FS-33-50	77 150FS-33-50	92 150FS-33-50	108 150FS-33-50
0.0	27 150FS-33-50	34 150FS-33-50	40 150FS-33-50	47 150FS-33-50	54 150FS-33-50	67 150FS-33-50	81 150FS-33-50	94 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	232 HD-1	466 HD-1
0.9	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	107 HD-1	326 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	185 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	45 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

HCAI PCS-0003 BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE 2019

TABLE 4.3.168: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.40	Weight	3400 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	82 150FS-33-50	102 150FS-33-50	122 150FS-33-50	143 150FS-33-50	163 150FS-33-50	204 150FS-33-50	245 150FS-33-50	286 150FS-33-50
0.9	76 150FS-33-50	95 150FS-33-50	114 150FS-33-50	133 150FS-33-50	152 150FS-33-50	190 150FS-33-50	228 150FS-33-50	267 150FS-33-50
0.8	71 150FS-33-50	88 150FS-33-50	106 150FS-33-50	124 150FS-33-50	141 150FS-33-50	177 150FS-33-50	212 150FS-33-50	248 150FS-33-50
0.7	65 150FS-33-50	82 150FS-33-50	98 150FS-33-50	114 150FS-33-50	131 150FS-33-50	163 150FS-33-50	196 150FS-33-50	228 150FS-33-50
0.6	60 150FS-33-50	75 150FS-33-50	90 150FS-33-50	105 150FS-33-50	120 150FS-33-50	150 150FS-33-50	180 150FS-33-50	209 150FS-33-50
0.5	54 150FS-33-50	68 150FS-33-50	82 150FS-33-50	95 150FS-33-50	109 150FS-33-50	136 150FS-33-50	163 150FS-33-50	190 150FS-33-50
0.4	49 150FS-33-50	61 150FS-33-50	73 150FS-33-50	86 150FS-33-50	98 150FS-33-50	122 150FS-33-50	147 150FS-33-50	171 150FS-33-50
0.3	44 150FS-33-50	54 150FS-33-50	65 150FS-33-50	76 150FS-33-50	87 150FS-33-50	109 150FS-33-50	131 150FS-33-50	152 150FS-33-50
0.2	38 150FS-33-50	48 150FS-33-50	57 150FS-33-50	67 150FS-33-50	76 150FS-33-50	95 150FS-33-50	114 150FS-33-50	133 150FS-33-50
0.1	33 150FS-33-50	41 150FS-33-50	49 150FS-33-50	57 150FS-33-50	65 150FS-33-50	82 150FS-33-50	98 150FS-33-50	114 150FS-33-50
0.0	29 150FS-33-50	36 150FS-33-50	43 150FS-33-50	50 150FS-33-50	57 150FS-33-50	71 150FS-33-50	86 150FS-33-50	100 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	247 HD-1	495 HD-1
0.9	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	114 HD-1	346 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	197 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	48 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

HCAi PCS-0003 BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE 2019

TABLE 4.3.169: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.40	Weight	3600 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	86 150FS-33-50	108 150FS-33-50	130 150FS-33-50	151 150FS-33-50	173 150FS-33-50	216 150FS-33-50	259 150FS-33-50	302 150FS-33-50
0.9	81 150FS-33-50	101 150FS-33-50	121 150FS-33-50	141 150FS-33-50	161 150FS-33-50	202 150FS-33-50	242 150FS-33-50	282 150FS-33-50
0.8	75 150FS-33-50	94 150FS-33-50	112 150FS-33-50	131 150FS-33-50	150 150FS-33-50	187 150FS-33-50	225 150FS-33-50	262 150FS-33-50
0.7	69 150FS-33-50	86 150FS-33-50	104 150FS-33-50	121 150FS-33-50	138 150FS-33-50	173 150FS-33-50	207 150FS-33-50	242 150FS-33-50
0.6	63 150FS-33-50	79 150FS-33-50	95 150FS-33-50	111 150FS-33-50	127 150FS-33-50	158 150FS-33-50	190 150FS-33-50	222 150FS-33-50
0.5	58 150FS-33-50	72 150FS-33-50	86 150FS-33-50	101 150FS-33-50	115 150FS-33-50	144 150FS-33-50	173 150FS-33-50	202 150FS-33-50
0.4	52 150FS-33-50	65 150FS-33-50	78 150FS-33-50	91 150FS-33-50	104 150FS-33-50	130 150FS-33-50	156 150FS-33-50	181 150FS-33-50
0.3	46 150FS-33-50	58 150FS-33-50	69 150FS-33-50	81 150FS-33-50	92 150FS-33-50	115 150FS-33-50	138 150FS-33-50	161 150FS-33-50
0.2	40 150FS-33-50	50 150FS-33-50	60 150FS-33-50	71 150FS-33-50	81 150FS-33-50	101 150FS-33-50	121 150FS-33-50	141 150FS-33-50
0.1	35 150FS-33-50	43 150FS-33-50	52 150FS-33-50	60 150FS-33-50	69 150FS-33-50	86 150FS-33-50	104 150FS-33-50	121 150FS-33-50
0.0	30 150FS-33-50	38 150FS-33-50	45 150FS-33-50	53 150FS-33-50	60 150FS-33-50	76 150FS-33-50	91 150FS-33-50	106 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	261 HD-1	524 HD-1
0.9	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	121 HD-1	366 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	208 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	50 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

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TABLE 4.3.170: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.40	Weight	3800 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	91 150FS-33-50	114 150FS-33-50	137 150FS-33-50	160 150FS-33-50	182 150FS-33-50	228 150FS-33-50	274 150FS-33-50	319 150FS-33-50
0.9	85 150FS-33-50	106 150FS-33-50	128 150FS-33-50	149 150FS-33-50	170 150FS-33-50	213 150FS-33-50	255 150FS-33-50	298 150FS-33-50
0.8	79 150FS-33-50	99 150FS-33-50	119 150FS-33-50	138 150FS-33-50	158 150FS-33-50	198 150FS-33-50	237 150FS-33-50	277 150FS-33-50
0.7	73 150FS-33-50	91 150FS-33-50	109 150FS-33-50	128 150FS-33-50	146 150FS-33-50	182 150FS-33-50	219 150FS-33-50	255 150FS-33-50
0.6	67 150FS-33-50	84 150FS-33-50	100 150FS-33-50	117 150FS-33-50	134 150FS-33-50	167 150FS-33-50	201 150FS-33-50	234 150FS-33-50
0.5	61 150FS-33-50	76 150FS-33-50	91 150FS-33-50	106 150FS-33-50	122 150FS-33-50	152 150FS-33-50	182 150FS-33-50	213 150FS-33-50
0.4	55 150FS-33-50	68 150FS-33-50	82 150FS-33-50	96 150FS-33-50	109 150FS-33-50	137 150FS-33-50	164 150FS-33-50	192 150FS-33-50
0.3	49 150FS-33-50	61 150FS-33-50	73 150FS-33-50	85 150FS-33-50	97 150FS-33-50	122 150FS-33-50	146 150FS-33-50	170 150FS-33-50
0.2	43 150FS-33-50	53 150FS-33-50	64 150FS-33-50	74 150FS-33-50	85 150FS-33-50	106 150FS-33-50	128 150FS-33-50	149 150FS-33-50
0.1	36 150FS-33-50	46 150FS-33-50	55 150FS-33-50	64 150FS-33-50	73 150FS-33-50	91 150FS-33-50	109 150FS-33-50	128 150FS-33-50
0.0	32 150FS-33-50	40 150FS-33-50	48 150FS-33-50	56 150FS-33-50	64 150FS-33-50	80 150FS-33-50	96 150FS-33-50	112 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	276 HD-1	553 HD-1
0.9	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	127 HD-1	387 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	220 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	53 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

HCAi PCS-0003 BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE 2019

TABLE 4.3.171: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.40	Weight	4000 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	96 150FS-33-50	120 150FS-33-50	144 150FS-33-50	168 150FS-33-50	192 150FS-33-50	240 150FS-33-50	288 150FS-33-50	336 150FS-33-50
0.9	90 150FS-33-50	112 150FS-33-50	134 150FS-33-50	157 150FS-33-50	179 150FS-33-50	224 150FS-33-50	269 150FS-33-50	314 150FS-33-50
0.8	83 150FS-33-50	104 150FS-33-50	125 150FS-33-50	146 150FS-33-50	166 150FS-33-50	208 150FS-33-50	250 150FS-33-50	291 150FS-33-50
0.7	77 150FS-33-50	96 150FS-33-50	115 150FS-33-50	134 150FS-33-50	154 150FS-33-50	192 150FS-33-50	230 150FS-33-50	269 150FS-33-50
0.6	70 150FS-33-50	88 150FS-33-50	106 150FS-33-50	123 150FS-33-50	141 150FS-33-50	176 150FS-33-50	211 150FS-33-50	246 150FS-33-50
0.5	64 150FS-33-50	80 150FS-33-50	96 150FS-33-50	112 150FS-33-50	128 150FS-33-50	160 150FS-33-50	192 150FS-33-50	224 150FS-33-50
0.4	58 150FS-33-50	72 150FS-33-50	86 150FS-33-50	101 150FS-33-50	115 150FS-33-50	144 150FS-33-50	173 150FS-33-50	202 150FS-33-50
0.3	51 150FS-33-50	64 150FS-33-50	77 150FS-33-50	90 150FS-33-50	102 150FS-33-50	128 150FS-33-50	154 150FS-33-50	179 150FS-33-50
0.2	45 150FS-33-50	56 150FS-33-50	67 150FS-33-50	78 150FS-33-50	90 150FS-33-50	112 150FS-33-50	134 150FS-33-50	157 150FS-33-50
0.1	38 150FS-33-50	48 150FS-33-50	58 150FS-33-50	67 150FS-33-50	77 150FS-33-50	96 150FS-33-50	115 150FS-33-50	134 150FS-33-50
0.0	34 150FS-33-50	42 150FS-33-50	50 150FS-33-50	59 150FS-33-50	67 150FS-33-50	84 150FS-33-50	101 150FS-33-50	118 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	290 HD-1	583 HD-1
0.9	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	134 HD-1	407 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	232 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	56 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

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TABLE 4.3.172: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.40	Weight	4200 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	101 150FS-33-50	126 150FS-33-50	151 150FS-33-50	176 150FS-33-50	202 150FS-33-50	252 150FS-33-50	302 150FS-33-50	353 150FS-33-50
0.9	94 150FS-33-50	118 150FS-33-50	141 150FS-33-50	165 150FS-33-50	188 150FS-33-50	235 150FS-33-50	282 150FS-33-50	329 150FS-33-50
0.8	87 150FS-33-50	109 150FS-33-50	131 150FS-33-50	153 150FS-33-50	175 150FS-33-50	218 150FS-33-50	262 150FS-33-50	306 150FS-33-50
0.7	81 150FS-33-50	101 150FS-33-50	121 150FS-33-50	141 150FS-33-50	161 150FS-33-50	202 150FS-33-50	242 150FS-33-50	282 150FS-33-50
0.6	74 150FS-33-50	92 150FS-33-50	111 150FS-33-50	129 150FS-33-50	148 150FS-33-50	185 150FS-33-50	222 150FS-33-50	259 150FS-33-50
0.5	67 150FS-33-50	84 150FS-33-50	101 150FS-33-50	118 150FS-33-50	134 150FS-33-50	168 150FS-33-50	202 150FS-33-50	235 150FS-33-50
0.4	60 150FS-33-50	76 150FS-33-50	91 150FS-33-50	106 150FS-33-50	121 150FS-33-50	151 150FS-33-50	181 150FS-33-50	212 150FS-33-50
0.3	54 150FS-33-50	67 150FS-33-50	81 150FS-33-50	94 150FS-33-50	108 150FS-33-50	134 150FS-33-50	161 150FS-33-50	188 150FS-33-50
0.2	47 150FS-33-50	59 150FS-33-50	71 150FS-33-50	82 150FS-33-50	94 150FS-33-50	118 150FS-33-50	141 150FS-33-50	165 150FS-33-50
0.1	40 150FS-33-50	50 150FS-33-50	60 150FS-33-50	71 150FS-33-50	81 150FS-33-50	101 150FS-33-50	121 150FS-33-50	141 150FS-33-50
0.0	35 150FS-33-50	44 150FS-33-50	53 150FS-33-50	62 150FS-33-50	71 150FS-33-50	88 150FS-33-50	106 150FS-33-50	123 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	305 HD-1	612 HD-1
0.9	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	141 HD-1	427 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	243 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	59 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

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TABLE 4.3.173: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.40	Weight	4400 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	106 150FS-33-50	132 150FS-33-50	158 150FS-33-50	185 150FS-33-50	211 150FS-33-50	264 150FS-33-50	317 150FS-33-50	370 150FS-33-50
0.9	99 150FS-33-50	123 150FS-33-50	148 150FS-33-50	172 150FS-33-50	197 150FS-33-50	246 150FS-33-50	296 150FS-33-50	345 150FS-33-50
0.8	92 150FS-33-50	114 150FS-33-50	137 150FS-33-50	160 150FS-33-50	183 150FS-33-50	229 150FS-33-50	275 150FS-33-50	320 150FS-33-50
0.7	84 150FS-33-50	106 150FS-33-50	127 150FS-33-50	148 150FS-33-50	169 150FS-33-50	211 150FS-33-50	253 150FS-33-50	296 150FS-33-50
0.6	77 150FS-33-50	97 150FS-33-50	116 150FS-33-50	136 150FS-33-50	155 150FS-33-50	194 150FS-33-50	232 150FS-33-50	271 150FS-33-50
0.5	70 150FS-33-50	88 150FS-33-50	106 150FS-33-50	123 150FS-33-50	141 150FS-33-50	176 150FS-33-50	211 150FS-33-50	246 150FS-33-50
0.4	63 150FS-33-50	79 150FS-33-50	95 150FS-33-50	111 150FS-33-50	127 150FS-33-50	158 150FS-33-50	190 150FS-33-50	222 150FS-33-50
0.3	56 150FS-33-50	70 150FS-33-50	84 150FS-33-50	99 150FS-33-50	113 150FS-33-50	141 150FS-33-50	169 150FS-33-50	197 150FS-33-50
0.2	49 150FS-33-50	62 150FS-33-50	74 150FS-33-50	86 150FS-33-50	99 150FS-33-50	123 150FS-33-50	148 150FS-33-50	172 150FS-33-50
0.1	42 150FS-33-50	53 150FS-33-50	63 150FS-33-50	74 150FS-33-50	84 150FS-33-50	106 150FS-33-50	127 150FS-33-50	148 150FS-33-50
0.0	37 150FS-33-50	46 150FS-33-50	55 150FS-33-50	65 150FS-33-50	74 150FS-33-50	92 150FS-33-50	111 150FS-33-50	129 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	319 HD-1	641 HD-1
0.9	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	147 HD-1	448 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	255 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	62 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

HCAI PCS-0003 BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE 2019

TABLE 4.3.174: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.40	Weight	4600 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	110 150FS-33-50	138 150FS-33-50	166 150FS-33-50	193 150FS-33-50	221 150FS-33-50	276 150FS-33-50	331 150FS-33-50	386 150FS-33-50
0.9	103 150FS-33-50	129 150FS-33-50	155 150FS-33-50	180 150FS-33-50	206 150FS-33-50	258 150FS-33-50	309 150FS-33-50	361 150FS-33-50
0.8	96 150FS-33-50	120 150FS-33-50	144 150FS-33-50	167 150FS-33-50	191 150FS-33-50	239 150FS-33-50	287 150FS-33-50	335 150FS-33-50
0.7	88 150FS-33-50	110 150FS-33-50	132 150FS-33-50	155 150FS-33-50	177 150FS-33-50	221 150FS-33-50	265 150FS-33-50	309 150FS-33-50
0.6	81 150FS-33-50	101 150FS-33-50	121 150FS-33-50	142 150FS-33-50	162 150FS-33-50	202 150FS-33-50	243 150FS-33-50	283 150FS-33-50
0.5	74 150FS-33-50	92 150FS-33-50	110 150FS-33-50	129 150FS-33-50	147 150FS-33-50	184 150FS-33-50	221 150FS-33-50	258 150FS-33-50
0.4	66 150FS-33-50	83 150FS-33-50	99 150FS-33-50	116 150FS-33-50	132 150FS-33-50	166 150FS-33-50	199 150FS-33-50	232 150FS-33-50
0.3	59 150FS-33-50	74 150FS-33-50	88 150FS-33-50	103 150FS-33-50	118 150FS-33-50	147 150FS-33-50	177 150FS-33-50	206 150FS-33-50
0.2	52 150FS-33-50	64 150FS-33-50	77 150FS-33-50	90 150FS-33-50	103 150FS-33-50	129 150FS-33-50	155 150FS-33-50	180 150FS-33-50
0.1	44 150FS-33-50	55 150FS-33-50	66 150FS-33-50	77 150FS-33-50	88 150FS-33-50	110 150FS-33-50	132 150FS-33-50	155 150FS-33-50
0.0	39 150FS-33-50	48 150FS-33-50	58 150FS-33-50	68 150FS-33-50	77 150FS-33-50	97 150FS-33-50	116 150FS-33-50	135 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	334 HD-1	670 HD-1
0.9	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	154 HD-1	468 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	266 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	64 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

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TABLE 4.3.175: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.40	Weight	4800 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	115 150FS-33-50	144 150FS-33-50	173 150FS-33-50	202 150FS-33-50	230 150FS-33-50	288 150FS-33-50	346 150FS-33-50	403 150FS-33-50
0.9	108 150FS-33-50	134 150FS-33-50	161 150FS-33-50	188 150FS-33-50	215 150FS-33-50	269 150FS-33-50	323 150FS-33-50	376 150FS-33-50
0.8	100 150FS-33-50	125 150FS-33-50	150 150FS-33-50	175 150FS-33-50	200 150FS-33-50	250 150FS-33-50	300 150FS-33-50	349 150FS-33-50
0.7	92 150FS-33-50	115 150FS-33-50	138 150FS-33-50	161 150FS-33-50	184 150FS-33-50	230 150FS-33-50	276 150FS-33-50	323 150FS-33-50
0.6	84 150FS-33-50	106 150FS-33-50	127 150FS-33-50	148 150FS-33-50	169 150FS-33-50	211 150FS-33-50	253 150FS-33-50	296 150FS-33-50
0.5	77 150FS-33-50	96 150FS-33-50	115 150FS-33-50	134 150FS-33-50	154 150FS-33-50	192 150FS-33-50	230 150FS-33-50	269 150FS-33-50
0.4	69 150FS-33-50	86 150FS-33-50	104 150FS-33-50	121 150FS-33-50	138 150FS-33-50	173 150FS-33-50	207 150FS-33-50	242 150FS-33-50
0.3	61 150FS-33-50	77 150FS-33-50	92 150FS-33-50	108 150FS-33-50	123 150FS-33-50	154 150FS-33-50	184 150FS-33-50	215 150FS-33-50
0.2	54 150FS-33-50	67 150FS-33-50	81 150FS-33-50	94 150FS-33-50	108 150FS-33-50	134 150FS-33-50	161 150FS-33-50	188 150FS-33-50
0.1	46 150FS-33-50	58 150FS-33-50	69 150FS-33-50	81 150FS-33-50	92 150FS-33-50	115 150FS-33-50	138 150FS-33-50	161 150FS-33-50
0.0	40 150FS-33-50	50 150FS-33-50	60 150FS-33-50	71 150FS-33-50	81 150FS-33-50	101 150FS-33-50	121 150FS-33-50	141 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	348 HD-1	699 HD-1
0.9	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	161 HD-1	488 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	278 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	67 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

HCAI PCS-0003 BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE 2019

TABLE 4.3.176: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.40	Weight	5000 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	120 150FS-33-50	150 150FS-33-50	180 150FS-33-50	210 150FS-33-50	240 150FS-33-50	300 150FS-33-50	360 150FS-33-50	420 150FS-33-50
0.9	112 150FS-33-50	140 150FS-33-50	168 150FS-33-50	196 150FS-33-50	224 150FS-33-50	280 150FS-33-50	336 150FS-33-50	392 150FS-33-50
0.8	104 150FS-33-50	130 150FS-33-50	156 150FS-33-50	182 150FS-33-50	208 150FS-33-50	260 150FS-33-50	312 150FS-33-50	364 150FS-33-50
0.7	96 150FS-33-50	120 150FS-33-50	144 150FS-33-50	168 150FS-33-50	192 150FS-33-50	240 150FS-33-50	288 150FS-33-50	336 150FS-33-50
0.6	88 150FS-33-50	110 150FS-33-50	132 150FS-33-50	154 150FS-33-50	176 150FS-33-50	220 150FS-33-50	264 150FS-33-50	308 150FS-33-50
0.5	80 150FS-33-50	100 150FS-33-50	120 150FS-33-50	140 150FS-33-50	160 150FS-33-50	200 150FS-33-50	240 150FS-33-50	280 150FS-33-50
0.4	72 150FS-33-50	90 150FS-33-50	108 150FS-33-50	126 150FS-33-50	144 150FS-33-50	180 150FS-33-50	216 150FS-33-50	252 150FS-33-50
0.3	64 150FS-33-50	80 150FS-33-50	96 150FS-33-50	112 150FS-33-50	128 150FS-33-50	160 150FS-33-50	192 150FS-33-50	224 150FS-33-50
0.2	56 150FS-33-50	70 150FS-33-50	84 150FS-33-50	98 150FS-33-50	112 150FS-33-50	140 150FS-33-50	168 150FS-33-50	196 150FS-33-50
0.1	48 150FS-33-50	60 150FS-33-50	72 150FS-33-50	84 150FS-33-50	96 150FS-33-50	120 150FS-33-50	144 150FS-33-50	168 150FS-33-50
0.0	42 150FS-33-50	53 150FS-33-50	63 150FS-33-50	74 150FS-33-50	84 150FS-33-50	105 150FS-33-50	126 150FS-33-50	147 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	363 HD-1	728 HD-1
0.9	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	168 HD-1	509 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	289 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	70 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

HCAi PCS-0003 BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE 2019

TABLE 4.3.177: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.70	Weight	2000 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	84 150FS-33-50	105 150FS-33-50	126 150FS-33-50	147 150FS-33-50	168 150FS-33-50	210 150FS-33-50	252 150FS-33-50	294 150FS-33-50
0.9	78 150FS-33-50	98 150FS-33-50	118 150FS-33-50	137 150FS-33-50	157 150FS-33-50	196 150FS-33-50	235 150FS-33-50	274 150FS-33-50
0.8	73 150FS-33-50	91 150FS-33-50	109 150FS-33-50	127 150FS-33-50	146 150FS-33-50	182 150FS-33-50	218 150FS-33-50	255 150FS-33-50
0.7	67 150FS-33-50	84 150FS-33-50	101 150FS-33-50	118 150FS-33-50	134 150FS-33-50	168 150FS-33-50	202 150FS-33-50	235 150FS-33-50
0.6	62 150FS-33-50	77 150FS-33-50	92 150FS-33-50	108 150FS-33-50	123 150FS-33-50	154 150FS-33-50	185 150FS-33-50	216 150FS-33-50
0.5	56 150FS-33-50	70 150FS-33-50	84 150FS-33-50	98 150FS-33-50	112 150FS-33-50	140 150FS-33-50	168 150FS-33-50	196 150FS-33-50
0.4	50 150FS-33-50	63 150FS-33-50	76 150FS-33-50	88 150FS-33-50	101 150FS-33-50	126 150FS-33-50	151 150FS-33-50	176 150FS-33-50
0.3	45 150FS-33-50	56 150FS-33-50	67 150FS-33-50	78 150FS-33-50	90 150FS-33-50	112 150FS-33-50	134 150FS-33-50	157 150FS-33-50
0.2	39 150FS-33-50	49 150FS-33-50	59 150FS-33-50	69 150FS-33-50	78 150FS-33-50	98 150FS-33-50	118 150FS-33-50	137 150FS-33-50
0.1	34 150FS-33-50	42 150FS-33-50	50 150FS-33-50	59 150FS-33-50	67 150FS-33-50	84 150FS-33-50	101 150FS-33-50	118 150FS-33-50
0.0	29 150FS-33-50	37 150FS-33-50	44 150FS-33-50	51 150FS-33-50	59 150FS-33-50	74 150FS-33-50	88 150FS-33-50	103 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_f)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	74 HD-1	330 HD-1	586 HD-1	842 HD-1	1098 HD-1	1353 HD-1
0.9	0 HD-0	0 HD-0	5 HD-1	244 HD-1	483 HD-1	722 HD-1	961 HD-1	1200 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	159 HD-1	381 HD-1	603 HD-1	825 HD-1	1046 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	74 HD-1	279 HD-1	483 HD-1	688 HD-1	893 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	176 HD-1	364 HD-1	552 HD-1	739 HD-1
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	74 HD-1	244 HD-1	415 HD-1	586 HD-1
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	125 HD-1	279 HD-1	432 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	5 HD-1	142 HD-1	279 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	5 HD-1	125 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

HCAI PCS-0003 REVIEWED FOR CODE COMPLIANCE BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE 2019

TABLE 4.3.178: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.70	Weight	2200 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	92 150FS-33-50	116 150FS-33-50	139 150FS-33-50	162 150FS-33-50	185 150FS-33-50	231 150FS-33-50	277 150FS-33-50	323 150FS-33-50
0.9	86 150FS-33-50	108 150FS-33-50	129 150FS-33-50	151 150FS-33-50	172 150FS-33-50	216 150FS-33-50	259 150FS-33-50	302 150FS-33-50
0.8	80 150FS-33-50	100 150FS-33-50	120 150FS-33-50	140 150FS-33-50	160 150FS-33-50	200 150FS-33-50	240 150FS-33-50	280 150FS-33-50
0.7	74 150FS-33-50	92 150FS-33-50	111 150FS-33-50	129 150FS-33-50	148 150FS-33-50	185 150FS-33-50	222 150FS-33-50	259 150FS-33-50
0.6	68 150FS-33-50	85 150FS-33-50	102 150FS-33-50	119 150FS-33-50	136 150FS-33-50	169 150FS-33-50	203 150FS-33-50	237 150FS-33-50
0.5	62 150FS-33-50	77 150FS-33-50	92 150FS-33-50	108 150FS-33-50	123 150FS-33-50	154 150FS-33-50	185 150FS-33-50	216 150FS-33-50
0.4	55 150FS-33-50	69 150FS-33-50	83 150FS-33-50	97 150FS-33-50	111 150FS-33-50	139 150FS-33-50	166 150FS-33-50	194 150FS-33-50
0.3	49 150FS-33-50	62 150FS-33-50	74 150FS-33-50	86 150FS-33-50	99 150FS-33-50	123 150FS-33-50	148 150FS-33-50	172 150FS-33-50
0.2	43 150FS-33-50	54 150FS-33-50	65 150FS-33-50	75 150FS-33-50	86 150FS-33-50	108 150FS-33-50	129 150FS-33-50	151 150FS-33-50
0.1	37 150FS-33-50	46 150FS-33-50	55 150FS-33-50	65 150FS-33-50	74 150FS-33-50	92 150FS-33-50	111 150FS-33-50	129 150FS-33-50
0.0	32 150FS-33-50	40 150FS-33-50	49 150FS-33-50	57 150FS-33-50	65 150FS-33-50	81 150FS-33-50	97 150FS-33-50	113 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_f)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	81 HD-1	363 HD-1	644 HD-1	926 HD-1	1207 HD-1	1489 HD-1
0.9	0 HD-0	0 HD-0	6 HD-1	269 HD-1	532 HD-1	794 HD-1	1057 HD-1	1320 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	175 HD-1	419 HD-1	663 HD-1	907 HD-1	1151 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	81 HD-1	306 HD-1	532 HD-1	757 HD-1	982 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	194 HD-1	400 HD-1	607 HD-1	813 HD-1
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	81 HD-1	269 HD-1	457 HD-1	644 HD-1
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	137 HD-1	306 HD-1	475 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	6 HD-1	156 HD-1	306 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	6 HD-1	137 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

HCAi PCS-0003 REVIEWED FOR CODE COMPLIANCE BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE 2019

TABLE 4.3.179: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.70	Weight	2400 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	101 150FS-33-50	126 150FS-33-50	151 150FS-33-50	176 150FS-33-50	202 150FS-33-50	252 150FS-33-50	302 150FS-33-50	353 150FS-33-50
0.9	94 150FS-33-50	118 150FS-33-50	141 150FS-33-50	165 150FS-33-50	188 150FS-33-50	235 150FS-33-50	282 150FS-33-50	329 150FS-33-50
0.8	87 150FS-33-50	109 150FS-33-50	131 150FS-33-50	153 150FS-33-50	175 150FS-33-50	218 150FS-33-50	262 150FS-33-50	306 150FS-33-50
0.7	81 150FS-33-50	101 150FS-33-50	121 150FS-33-50	141 150FS-33-50	161 150FS-33-50	202 150FS-33-50	242 150FS-33-50	282 150FS-33-50
0.6	74 150FS-33-50	92 150FS-33-50	111 150FS-33-50	129 150FS-33-50	148 150FS-33-50	185 150FS-33-50	222 150FS-33-50	259 150FS-33-50
0.5	67 150FS-33-50	84 150FS-33-50	101 150FS-33-50	118 150FS-33-50	134 150FS-33-50	168 150FS-33-50	202 150FS-33-50	235 150FS-33-50
0.4	60 150FS-33-50	76 150FS-33-50	91 150FS-33-50	106 150FS-33-50	121 150FS-33-50	151 150FS-33-50	181 150FS-33-50	212 150FS-33-50
0.3	54 150FS-33-50	67 150FS-33-50	81 150FS-33-50	94 150FS-33-50	108 150FS-33-50	134 150FS-33-50	161 150FS-33-50	188 150FS-33-50
0.2	47 150FS-33-50	59 150FS-33-50	71 150FS-33-50	82 150FS-33-50	94 150FS-33-50	118 150FS-33-50	141 150FS-33-50	165 150FS-33-50
0.1	40 150FS-33-50	50 150FS-33-50	60 150FS-33-50	71 150FS-33-50	81 150FS-33-50	101 150FS-33-50	121 150FS-33-50	141 150FS-33-50
0.0	35 150FS-33-50	44 150FS-33-50	53 150FS-33-50	62 150FS-33-50	71 150FS-33-50	88 150FS-33-50	106 150FS-33-50	123 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	89 HD-1	396 HD-1	703 HD-1	1010 HD-1	1317 HD-1	1624 HD-1
0.9	0 HD-0	0 HD-0	7 HD-1	293 HD-1	580 HD-1	867 HD-1	1153 HD-1	1440 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	191 HD-1	457 HD-1	723 HD-1	989 HD-1	1256 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	88 HD-1	334 HD-1	580 HD-1	826 HD-1	1071 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	211 HD-1	437 HD-1	662 HD-1	887 HD-1
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	89 HD-1	293 HD-1	498 HD-1	703 HD-1
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	150 HD-1	334 HD-1	518 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	7 HD-1	170 HD-1	334 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	7 HD-1	150 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

HCAI PCS-0003 REVIEWED FOR CODE COMPLIANCE BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE 2019

TABLE 4.3.180: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.70	Weight	2600 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	109 150FS-33-50	137 150FS-33-50	164 150FS-33-50	191 150FS-33-50	218 150FS-33-50	273 150FS-33-50	328 150FS-33-50	382 150FS-33-50
0.9	102 150FS-33-50	127 150FS-33-50	153 150FS-33-50	178 150FS-33-50	204 150FS-33-50	255 150FS-33-50	306 150FS-33-50	357 150FS-33-50
0.8	95 150FS-33-50	118 150FS-33-50	142 150FS-33-50	166 150FS-33-50	189 150FS-33-50	237 150FS-33-50	284 150FS-33-50	331 150FS-33-50
0.7	87 150FS-33-50	109 150FS-33-50	131 150FS-33-50	153 150FS-33-50	175 150FS-33-50	218 150FS-33-50	262 150FS-33-50	306 150FS-33-50
0.6	80 150FS-33-50	100 150FS-33-50	120 150FS-33-50	140 150FS-33-50	160 150FS-33-50	200 150FS-33-50	240 150FS-33-50	280 150FS-33-50
0.5	73 150FS-33-50	91 150FS-33-50	109 150FS-33-50	127 150FS-33-50	146 150FS-33-50	182 150FS-33-50	218 150FS-33-50	255 150FS-33-50
0.4	66 150FS-33-50	82 150FS-33-50	98 150FS-33-50	115 150FS-33-50	131 150FS-33-50	164 150FS-33-50	197 150FS-33-50	229 150FS-33-50
0.3	58 150FS-33-50	73 150FS-33-50	87 150FS-33-50	102 150FS-33-50	116 150FS-33-50	146 150FS-33-50	175 150FS-33-50	204 150FS-33-50
0.2	51 150FS-33-50	64 150FS-33-50	76 150FS-33-50	89 150FS-33-50	102 150FS-33-50	127 150FS-33-50	153 150FS-33-50	178 150FS-33-50
0.1	44 150FS-33-50	55 150FS-33-50	66 150FS-33-50	76 150FS-33-50	87 150FS-33-50	109 150FS-33-50	131 150FS-33-50	153 150FS-33-50
0.0	38 150FS-33-50	48 150FS-33-50	57 150FS-33-50	67 150FS-33-50	76 150FS-33-50	96 150FS-33-50	115 150FS-33-50	134 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	96 HD-1	429 HD-1	761 HD-1	1094 HD-1	1427 HD-1	1759 HD-1
0.9	0 HD-0	0 HD-0	7 HD-1	318 HD-1	628 HD-1	939 HD-1	1249 HD-1	1560 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	207 HD-1	495 HD-1	783 HD-1	1072 HD-1	1360 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	96 HD-1	362 HD-1	628 HD-1	894 HD-1	1161 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	229 HD-1	473 HD-1	717 HD-1	961 HD-1
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	96 HD-1	318 HD-1	540 HD-1	761 HD-1
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	162 HD-1	362 HD-1	562 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	7 HD-1	185 HD-1	362 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	7 HD-1	162 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

HCAI PCS-0003 REVIEWED FOR CODE COMPLIANCE BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE 2019

TABLE 4.3.181: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.70	Weight	2800 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	118 150FS-33-50	147 150FS-33-50	176 150FS-33-50	206 150FS-33-50	235 150FS-33-50	294 150FS-33-50	353 150FS-33-50	412 150FS-33-50
0.9	110 150FS-33-50	137 150FS-33-50	165 150FS-33-50	192 150FS-33-50	220 150FS-33-50	274 150FS-33-50	329 150FS-33-50	384 150FS-33-50
0.8	102 150FS-33-50	127 150FS-33-50	153 150FS-33-50	178 150FS-33-50	204 150FS-33-50	255 150FS-33-50	306 150FS-33-50	357 150FS-33-50
0.7	94 150FS-33-50	118 150FS-33-50	141 150FS-33-50	165 150FS-33-50	188 150FS-33-50	235 150FS-33-50	282 150FS-33-50	329 150FS-33-50
0.6	86 150FS-33-50	108 150FS-33-50	129 150FS-33-50	151 150FS-33-50	172 150FS-33-50	216 150FS-33-50	259 150FS-33-50	302 150FS-33-50
0.5	78 150FS-33-50	98 150FS-33-50	118 150FS-33-50	137 150FS-33-50	157 150FS-33-50	196 150FS-33-50	235 150FS-33-50	274 150FS-33-50
0.4	71 150FS-33-50	88 150FS-33-50	106 150FS-33-50	123 150FS-33-50	141 150FS-33-50	176 150FS-33-50	212 150FS-33-50	247 150FS-33-50
0.3	63 150FS-33-50	78 150FS-33-50	94 150FS-33-50	110 150FS-33-50	125 150FS-33-50	157 150FS-33-50	188 150FS-33-50	220 150FS-33-50
0.2	55 150FS-33-50	69 150FS-33-50	82 150FS-33-50	96 150FS-33-50	110 150FS-33-50	137 150FS-33-50	165 150FS-33-50	192 150FS-33-50
0.1	47 150FS-33-50	59 150FS-33-50	71 150FS-33-50	82 150FS-33-50	94 150FS-33-50	118 150FS-33-50	141 150FS-33-50	165 150FS-33-50
0.0	41 150FS-33-50	51 150FS-33-50	62 150FS-33-50	72 150FS-33-50	82 150FS-33-50	103 150FS-33-50	123 150FS-33-50	144 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_f)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	103 HD-1	462 HD-1	820 HD-1	1178 HD-1	1537 HD-1	1895 HD-1
0.9	0 HD-0	0 HD-0	8 HD-1	342 HD-1	677 HD-1	1011 HD-1	1345 HD-1	1680 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	223 HD-1	533 HD-1	844 HD-1	1154 HD-1	1465 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	103 HD-1	390 HD-1	677 HD-1	963 HD-1	1250 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	247 HD-1	509 HD-1	772 HD-1	1035 HD-1
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	103 HD-1	342 HD-1	581 HD-1	820 HD-1
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	175 HD-1	390 HD-1	605 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	8 HD-1	199 HD-1	390 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	8 HD-1	175 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

HCAI PCS-0003 REVIEWED FOR CODE COMPLIANCE BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE

TABLE 4.3.182: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.70	Weight	3000 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	126 150FS-33-50	158 150FS-33-50	189 150FS-33-50	221 150FS-33-50	252 150FS-33-50	315 150FS-33-50	378 150FS-33-50	441 150FS-33-50
0.9	118 150FS-33-50	147 150FS-33-50	176 150FS-33-50	206 150FS-33-50	235 150FS-33-50	294 150FS-33-50	353 150FS-33-50	412 150FS-33-50
0.8	109 150FS-33-50	137 150FS-33-50	164 150FS-33-50	191 150FS-33-50	218 150FS-33-50	273 150FS-33-50	328 150FS-33-50	382 150FS-33-50
0.7	101 150FS-33-50	126 150FS-33-50	151 150FS-33-50	176 150FS-33-50	202 150FS-33-50	252 150FS-33-50	302 150FS-33-50	353 150FS-33-50
0.6	92 150FS-33-50	116 150FS-33-50	139 150FS-33-50	162 150FS-33-50	185 150FS-33-50	231 150FS-33-50	277 150FS-33-50	323 150FS-33-50
0.5	84 150FS-33-50	105 150FS-33-50	126 150FS-33-50	147 150FS-33-50	168 150FS-33-50	210 150FS-33-50	252 150FS-33-50	294 150FS-33-50
0.4	76 150FS-33-50	95 150FS-33-50	113 150FS-33-50	132 150FS-33-50	151 150FS-33-50	189 150FS-33-50	227 150FS-33-50	265 150FS-33-50
0.3	67 150FS-33-50	84 150FS-33-50	101 150FS-33-50	118 150FS-33-50	134 150FS-33-50	168 150FS-33-50	202 150FS-33-50	235 150FS-33-50
0.2	59 150FS-33-50	74 150FS-33-50	88 150FS-33-50	103 150FS-33-50	118 150FS-33-50	147 150FS-33-50	176 150FS-33-50	206 150FS-33-50
0.1	50 150FS-33-50	63 150FS-33-50	76 150FS-33-50	88 150FS-33-50	101 150FS-33-50	126 150FS-33-50	151 150FS-33-50	176 150FS-33-50
0.0	44 150FS-33-50	55 150FS-33-50	66 150FS-33-50	77 150FS-33-50	88 150FS-33-50	110 150FS-33-50	132 150FS-33-50	154 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	111 HD-1	495 HD-1	878 HD-1	1262 HD-1	1646 HD-1	2030 HD-1
0.9	0 HD-0	0 HD-0	8 HD-1	367 HD-1	725 HD-1	1083 HD-1	1442 HD-1	1800 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	239 HD-1	571 HD-1	904 HD-1	1237 HD-1	1569 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	111 HD-1	418 HD-1	725 HD-1	1032 HD-1	1339 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	264 HD-1	546 HD-1	827 HD-1	1109 HD-1
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	111 HD-1	367 HD-1	623 HD-1	878 HD-1
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	187 HD-1	418 HD-1	648 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	8 HD-1	213 HD-1	418 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	8 HD-1	187 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

HCAi PCS-0003 BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE

TABLE 4.3.183: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.70	Weight	3200 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	134 150FS-33-50	168 150FS-33-50	202 150FS-33-50	235 150FS-33-50	269 150FS-33-50	336 150FS-33-50	403 150FS-33-50	470 150FS-33-50
0.9	125 150FS-33-50	157 150FS-33-50	188 150FS-33-50	220 150FS-33-50	251 150FS-33-50	314 150FS-33-50	376 150FS-33-50	439 150FS-33-50
0.8	116 150FS-33-50	146 150FS-33-50	175 150FS-33-50	204 150FS-33-50	233 150FS-33-50	291 150FS-33-50	349 150FS-33-50	408 150FS-33-50
0.7	108 150FS-33-50	134 150FS-33-50	161 150FS-33-50	188 150FS-33-50	215 150FS-33-50	269 150FS-33-50	323 150FS-33-50	376 150FS-33-50
0.6	99 150FS-33-50	123 150FS-33-50	148 150FS-33-50	172 150FS-33-50	197 150FS-33-50	246 150FS-33-50	296 150FS-33-50	345 150FS-33-50
0.5	90 150FS-33-50	112 150FS-33-50	134 150FS-33-50	157 150FS-33-50	179 150FS-33-50	224 150FS-33-50	269 150FS-33-50	314 150FS-33-50
0.4	81 150FS-33-50	101 150FS-33-50	121 150FS-33-50	141 150FS-33-50	161 150FS-33-50	202 150FS-33-50	242 150FS-33-50	282 150FS-33-50
0.3	72 150FS-33-50	90 150FS-33-50	108 150FS-33-50	125 150FS-33-50	143 150FS-33-50	179 150FS-33-50	215 150FS-33-50	251 150FS-33-50
0.2	63 150FS-33-50	78 150FS-33-50	94 150FS-33-50	110 150FS-33-50	125 150FS-33-50	157 150FS-33-50	188 150FS-33-50	220 150FS-33-50
0.1	54 150FS-33-50	67 150FS-33-50	81 150FS-33-50	94 150FS-33-50	108 150FS-33-50	134 150FS-33-50	161 150FS-33-50	188 150FS-33-50
0.0	47 150FS-33-50	59 150FS-33-50	71 150FS-33-50	82 150FS-33-50	94 150FS-33-50	118 150FS-33-50	141 150FS-33-50	165 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_f)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	118 HD-1	528 HD-1	937 HD-1	1347 HD-1	1756 HD-1	2166 HD-1
0.9	0 HD-0	0 HD-0	9 HD-1	391 HD-1	773 HD-1	1155 HD-1	1538 HD-1	1920 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	255 HD-1	609 HD-1	964 HD-1	1319 HD-1	1674 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	118 HD-1	446 HD-1	773 HD-1	1101 HD-1	1428 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	282 HD-1	582 HD-1	882 HD-1	1183 HD-1
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	118 HD-1	391 HD-1	664 HD-1	937 HD-1
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	200 HD-1	446 HD-1	691 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	9 HD-1	227 HD-1	446 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	9 HD-1	200 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

HCAI PCS-0003 REVIEWED FOR CODE COMPLIANCE BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE

TABLE 4.3.184: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.70	Weight	3400 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg (z/h)	Wall Aspect Ratio (H/L)							
	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	143 150FS-33-50	179 150FS-33-50	214 150FS-33-50	250 150FS-33-50	286 150FS-33-50	357 150FS-33-50	428 150FS-33-50	500 200FS-33-50
0.9	133 150FS-33-50	167 150FS-33-50	200 150FS-33-50	233 150FS-33-50	267 150FS-33-50	333 150FS-33-50	400 150FS-33-50	466 150FS-33-50
0.8	124 150FS-33-50	155 150FS-33-50	186 150FS-33-50	217 150FS-33-50	248 150FS-33-50	309 150FS-33-50	371 150FS-33-50	433 150FS-33-50
0.7	114 150FS-33-50	143 150FS-33-50	171 150FS-33-50	200 150FS-33-50	228 150FS-33-50	286 150FS-33-50	343 150FS-33-50	400 150FS-33-50
0.6	105 150FS-33-50	131 150FS-33-50	157 150FS-33-50	183 150FS-33-50	209 150FS-33-50	262 150FS-33-50	314 150FS-33-50	367 150FS-33-50
0.5	95 150FS-33-50	119 150FS-33-50	143 150FS-33-50	167 150FS-33-50	190 150FS-33-50	238 150FS-33-50	286 150FS-33-50	333 150FS-33-50
0.4	86 150FS-33-50	107 150FS-33-50	129 150FS-33-50	150 150FS-33-50	171 150FS-33-50	214 150FS-33-50	257 150FS-33-50	300 150FS-33-50
0.3	76 150FS-33-50	95 150FS-33-50	114 150FS-33-50	133 150FS-33-50	152 150FS-33-50	190 150FS-33-50	228 150FS-33-50	267 150FS-33-50
0.2	67 150FS-33-50	83 150FS-33-50	100 150FS-33-50	117 150FS-33-50	133 150FS-33-50	167 150FS-33-50	200 150FS-33-50	233 150FS-33-50
0.1	57 150FS-33-50	71 150FS-33-50	86 150FS-33-50	100 150FS-33-50	114 150FS-33-50	143 150FS-33-50	171 150FS-33-50	200 150FS-33-50
0.0	50 150FS-33-50	62 150FS-33-50	75 150FS-33-50	87 150FS-33-50	100 150FS-33-50	125 150FS-33-50	150 150FS-33-50	175 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg (z/h)	Max Pod Aspect Ratio (H/L_i)							
	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	125 HD-1	560 HD-1	996 HD-1	1431 HD-1	1866 HD-1	2301 HD-1
0.9	0 HD-0	0 HD-0	9 HD-1	415 HD-1	822 HD-1	1228 HD-1	1634 HD-1	2040 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	270 HD-1	647 HD-1	1025 HD-1	1402 HD-1	1779 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	125 HD-1	473 HD-1	822 HD-1	1170 HD-1	1518 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	299 HD-1	618 HD-1	938 HD-1	1257 HD-1
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	125 HD-1	415 HD-1	706 HD-1	996 HD-1
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	212 HD-1	473 HD-1	735 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	9 HD-1	241 HD-1	473 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	9 HD-1	212 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

HCAI PCS-0003 REVIEWED FOR CODE COMPLIANCE BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE

TABLE 4.3.185: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.70	Weight	3600 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	151 150FS-33-50	189 150FS-33-50	227 150FS-33-50	265 150FS-33-50	302 150FS-33-50	378 150FS-33-50	454 150FS-33-50	529 200FS-33-50
0.9	141 150FS-33-50	176 150FS-33-50	212 150FS-33-50	247 150FS-33-50	282 150FS-33-50	353 150FS-33-50	423 150FS-33-50	494 200FS-33-50
0.8	131 150FS-33-50	164 150FS-33-50	197 150FS-33-50	229 150FS-33-50	262 150FS-33-50	328 150FS-33-50	393 150FS-33-50	459 150FS-33-50
0.7	121 150FS-33-50	151 150FS-33-50	181 150FS-33-50	212 150FS-33-50	242 150FS-33-50	302 150FS-33-50	363 150FS-33-50	423 150FS-33-50
0.6	111 150FS-33-50	139 150FS-33-50	166 150FS-33-50	194 150FS-33-50	222 150FS-33-50	277 150FS-33-50	333 150FS-33-50	388 150FS-33-50
0.5	101 150FS-33-50	126 150FS-33-50	151 150FS-33-50	176 150FS-33-50	202 150FS-33-50	252 150FS-33-50	302 150FS-33-50	353 150FS-33-50
0.4	91 150FS-33-50	113 150FS-33-50	136 150FS-33-50	159 150FS-33-50	181 150FS-33-50	227 150FS-33-50	272 150FS-33-50	318 150FS-33-50
0.3	81 150FS-33-50	101 150FS-33-50	121 150FS-33-50	141 150FS-33-50	161 150FS-33-50	202 150FS-33-50	242 150FS-33-50	282 150FS-33-50
0.2	71 150FS-33-50	88 150FS-33-50	106 150FS-33-50	123 150FS-33-50	141 150FS-33-50	176 150FS-33-50	212 150FS-33-50	247 150FS-33-50
0.1	60 150FS-33-50	76 150FS-33-50	91 150FS-33-50	106 150FS-33-50	121 150FS-33-50	151 150FS-33-50	181 150FS-33-50	212 150FS-33-50
0.0	53 150FS-33-50	66 150FS-33-50	79 150FS-33-50	93 150FS-33-50	106 150FS-33-50	132 150FS-33-50	159 150FS-33-50	185 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	133 HD-1	593 HD-1	1054 HD-1	1515 HD-1	1976 HD-1	2436 HD-1
0.9	0 HD-0	0 HD-0	10 HD-1	440 HD-1	870 HD-1	1300 HD-1	1730 HD-1	2160 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	286 HD-1	686 HD-1	1085 HD-1	1484 HD-1	1883 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	133 HD-1	501 HD-1	870 HD-1	1238 HD-1	1607 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	317 HD-1	655 HD-1	993 HD-1	1331 HD-1
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	133 HD-1	440 HD-1	747 HD-1	1054 HD-1
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	225 HD-1	501 HD-1	778 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	10 HD-1	256 HD-1	501 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	10 HD-1	225 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

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TABLE 4.3.186: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.70	Weight	3800 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	160 150FS-33-50	200 150FS-33-50	239 150FS-33-50	279 150FS-33-50	319 150FS-33-50	399 150FS-33-50	479 200FS-33-50	559 200FS-33-50
0.9	149 150FS-33-50	186 150FS-33-50	223 150FS-33-50	261 150FS-33-50	298 150FS-33-50	372 150FS-33-50	447 150FS-33-50	521 200FS-33-50
0.8	138 150FS-33-50	173 150FS-33-50	207 150FS-33-50	242 150FS-33-50	277 150FS-33-50	346 150FS-33-50	415 150FS-33-50	484 200FS-33-50
0.7	128 150FS-33-50	160 150FS-33-50	192 150FS-33-50	223 150FS-33-50	255 150FS-33-50	319 150FS-33-50	383 150FS-33-50	447 150FS-33-50
0.6	117 150FS-33-50	146 150FS-33-50	176 150FS-33-50	205 150FS-33-50	234 150FS-33-50	293 150FS-33-50	351 150FS-33-50	410 150FS-33-50
0.5	106 150FS-33-50	133 150FS-33-50	160 150FS-33-50	186 150FS-33-50	213 150FS-33-50	266 150FS-33-50	319 150FS-33-50	372 150FS-33-50
0.4	96 150FS-33-50	120 150FS-33-50	144 150FS-33-50	168 150FS-33-50	192 150FS-33-50	239 150FS-33-50	287 150FS-33-50	335 150FS-33-50
0.3	85 150FS-33-50	106 150FS-33-50	128 150FS-33-50	149 150FS-33-50	170 150FS-33-50	213 150FS-33-50	255 150FS-33-50	298 150FS-33-50
0.2	74 150FS-33-50	93 150FS-33-50	112 150FS-33-50	130 150FS-33-50	149 150FS-33-50	186 150FS-33-50	223 150FS-33-50	261 150FS-33-50
0.1	64 150FS-33-50	80 150FS-33-50	96 150FS-33-50	112 150FS-33-50	128 150FS-33-50	160 150FS-33-50	192 150FS-33-50	223 150FS-33-50
0.0	56 150FS-33-50	70 150FS-33-50	84 150FS-33-50	98 150FS-33-50	112 150FS-33-50	140 150FS-33-50	168 150FS-33-50	196 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	140 HD-1	626 HD-1	1113 HD-1	1599 HD-1	2085 HD-1	2572 HD-1
0.9	0 HD-0	0 HD-0	10 HD-1	464 HD-1	918 HD-1	1372 HD-1	1826 HD-1	2280 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	302 HD-1	724 HD-1	1145 HD-1	1567 HD-1	1988 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	140 HD-1	529 HD-1	918 HD-1	1307 HD-1	1696 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	335 HD-1	691 HD-1	1048 HD-1	1404 HD-1
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	140 HD-1	464 HD-1	789 HD-1	1113 HD-1
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	237 HD-1	529 HD-1	821 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	10 HD-1	270 HD-1	529 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	10 HD-1	237 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

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TABLE 4.3.187: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.70	Weight	4000 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	168 150FS-33-50	210 150FS-33-50	252 150FS-33-50	294 150FS-33-50	336 150FS-33-50	420 150FS-33-50	504 200FS-33-50	588 200FS-33-50
0.9	157 150FS-33-50	196 150FS-33-50	235 150FS-33-50	274 150FS-33-50	314 150FS-33-50	392 150FS-33-50	470 200FS-33-50	549 200FS-33-50
0.8	146 150FS-33-50	182 150FS-33-50	218 150FS-33-50	255 150FS-33-50	291 150FS-33-50	364 150FS-33-50	437 150FS-33-50	510 200FS-33-50
0.7	134 150FS-33-50	168 150FS-33-50	202 150FS-33-50	235 150FS-33-50	269 150FS-33-50	336 150FS-33-50	403 150FS-33-50	470 150FS-33-50
0.6	123 150FS-33-50	154 150FS-33-50	185 150FS-33-50	216 150FS-33-50	246 150FS-33-50	308 150FS-33-50	370 150FS-33-50	431 150FS-33-50
0.5	112 150FS-33-50	140 150FS-33-50	168 150FS-33-50	196 150FS-33-50	224 150FS-33-50	280 150FS-33-50	336 150FS-33-50	392 150FS-33-50
0.4	101 150FS-33-50	126 150FS-33-50	151 150FS-33-50	176 150FS-33-50	202 150FS-33-50	252 150FS-33-50	302 150FS-33-50	353 150FS-33-50
0.3	90 150FS-33-50	112 150FS-33-50	134 150FS-33-50	157 150FS-33-50	179 150FS-33-50	224 150FS-33-50	269 150FS-33-50	314 150FS-33-50
0.2	78 150FS-33-50	98 150FS-33-50	118 150FS-33-50	137 150FS-33-50	157 150FS-33-50	196 150FS-33-50	235 150FS-33-50	274 150FS-33-50
0.1	67 150FS-33-50	84 150FS-33-50	101 150FS-33-50	118 150FS-33-50	134 150FS-33-50	168 150FS-33-50	202 150FS-33-50	235 150FS-33-50
0.0	59 150FS-33-50	74 150FS-33-50	88 150FS-33-50	103 150FS-33-50	118 150FS-33-50	147 150FS-33-50	176 150FS-33-50	206 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	148 HD-1	659 HD-1	1171 HD-1	1683 HD-1	2195 HD-1	2707 HD-1
0.9	0 HD-0	0 HD-0	11 HD-1	489 HD-1	967 HD-1	1444 HD-1	1922 HD-1	2400 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	318 HD-1	762 HD-1	1205 HD-1	1649 HD-1	2093 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	148 HD-1	557 HD-1	967 HD-1	1376 HD-1	1786 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	352 HD-1	728 HD-1	1103 HD-1	1478 HD-1
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	148 HD-1	489 HD-1	830 HD-1	1171 HD-1
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	250 HD-1	557 HD-1	864 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	11 HD-1	284 HD-1	557 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	11 HD-1	250 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

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TABLE 4.3.188: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.70	Weight	4200 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	176 150FS-33-50	221 150FS-33-50	265 150FS-33-50	309 150FS-33-50	353 150FS-33-50	441 150FS-33-50	529 200FS-33-50	617 200FS-33-50
0.9	165 150FS-33-50	206 150FS-33-50	247 150FS-33-50	288 150FS-33-50	329 150FS-33-50	412 150FS-33-50	494 200FS-33-50	576 200FS-33-50
0.8	153 150FS-33-50	191 150FS-33-50	229 150FS-33-50	268 150FS-33-50	306 150FS-33-50	382 150FS-33-50	459 150FS-33-50	535 200FS-33-50
0.7	141 150FS-33-50	176 150FS-33-50	212 150FS-33-50	247 150FS-33-50	282 150FS-33-50	353 150FS-33-50	423 150FS-33-50	494 200FS-33-50
0.6	129 150FS-33-50	162 150FS-33-50	194 150FS-33-50	226 150FS-33-50	259 150FS-33-50	323 150FS-33-50	388 150FS-33-50	453 150FS-33-50
0.5	118 150FS-33-50	147 150FS-33-50	176 150FS-33-50	206 150FS-33-50	235 150FS-33-50	294 150FS-33-50	353 150FS-33-50	412 150FS-33-50
0.4	106 150FS-33-50	132 150FS-33-50	159 150FS-33-50	185 150FS-33-50	212 150FS-33-50	265 150FS-33-50	318 150FS-33-50	370 150FS-33-50
0.3	94 150FS-33-50	118 150FS-33-50	141 150FS-33-50	165 150FS-33-50	188 150FS-33-50	235 150FS-33-50	282 150FS-33-50	329 150FS-33-50
0.2	82 150FS-33-50	103 150FS-33-50	123 150FS-33-50	144 150FS-33-50	165 150FS-33-50	206 150FS-33-50	247 150FS-33-50	288 150FS-33-50
0.1	71 150FS-33-50	88 150FS-33-50	106 150FS-33-50	123 150FS-33-50	141 150FS-33-50	176 150FS-33-50	212 150FS-33-50	247 150FS-33-50
0.0	62 150FS-33-50	77 150FS-33-50	93 150FS-33-50	108 150FS-33-50	123 150FS-33-50	154 150FS-33-50	185 150FS-33-50	216 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_f)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	155 HD-1	692 HD-1	1230 HD-1	1767 HD-1	2305 HD-1	2842 HD-1
0.9	0 HD-0	0 HD-0	12 HD-1	513 HD-1	1015 HD-1	1516 HD-1	2018 HD-1	2520 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	334 HD-1	800 HD-1	1266 HD-1	1731 HD-1	2197 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	155 HD-1	585 HD-1	1015 HD-1	1445 HD-1	1875 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	370 HD-1	764 HD-1	1158 HD-1	1552 HD-1
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	155 HD-1	513 HD-1	872 HD-1	1230 HD-1
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	262 HD-1	585 HD-1	907 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	12 HD-1	298 HD-1	585 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	12 HD-1	262 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

HCAI PCS-0003 REVIEWED FOR CODE COMPLIANCE BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE

TABLE 4.3.189: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.70	Weight	4400 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	185 150FS-33-50	231 150FS-33-50	277 150FS-33-50	323 150FS-33-50	370 150FS-33-50	462 200FS-33-50	554 200FS-33-50	647 250FS-33-50
0.9	172 150FS-33-50	216 150FS-33-50	259 150FS-33-50	302 150FS-33-50	345 150FS-33-50	431 150FS-33-50	517 200FS-33-50	604 200FS-33-50
0.8	160 150FS-33-50	200 150FS-33-50	240 150FS-33-50	280 150FS-33-50	320 150FS-33-50	400 150FS-33-50	480 200FS-33-50	561 200FS-33-50
0.7	148 150FS-33-50	185 150FS-33-50	222 150FS-33-50	259 150FS-33-50	296 150FS-33-50	370 150FS-33-50	444 150FS-33-50	517 200FS-33-50
0.6	136 150FS-33-50	169 150FS-33-50	203 150FS-33-50	237 150FS-33-50	271 150FS-33-50	339 150FS-33-50	407 150FS-33-50	474 150FS-33-50
0.5	123 150FS-33-50	154 150FS-33-50	185 150FS-33-50	216 150FS-33-50	246 150FS-33-50	308 150FS-33-50	370 150FS-33-50	431 150FS-33-50
0.4	111 150FS-33-50	139 150FS-33-50	166 150FS-33-50	194 150FS-33-50	222 150FS-33-50	277 150FS-33-50	333 150FS-33-50	388 150FS-33-50
0.3	99 150FS-33-50	123 150FS-33-50	148 150FS-33-50	172 150FS-33-50	197 150FS-33-50	246 150FS-33-50	296 150FS-33-50	345 150FS-33-50
0.2	86 150FS-33-50	108 150FS-33-50	129 150FS-33-50	151 150FS-33-50	172 150FS-33-50	216 150FS-33-50	259 150FS-33-50	302 150FS-33-50
0.1	74 150FS-33-50	92 150FS-33-50	111 150FS-33-50	129 150FS-33-50	148 150FS-33-50	185 150FS-33-50	222 150FS-33-50	259 150FS-33-50
0.0	65 150FS-33-50	81 150FS-33-50	97 150FS-33-50	113 150FS-33-50	129 150FS-33-50	162 150FS-33-50	194 150FS-33-50	226 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	162 HD-1	725 HD-1	1288 HD-1	1851 HD-1	2415 HD-1	2978 HD-1
0.9	0 HD-0	0 HD-0	12 HD-1	538 HD-1	1063 HD-1	1589 HD-1	2114 HD-1	2640 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	350 HD-1	838 HD-1	1326 HD-1	1814 HD-1	2302 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	162 HD-1	613 HD-1	1063 HD-1	1514 HD-1	1964 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	387 HD-1	800 HD-1	1213 HD-1	1626 HD-1
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	162 HD-1	538 HD-1	913 HD-1	1288 HD-1
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	275 HD-1	613 HD-1	951 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	12 HD-1	312 HD-1	613 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	12 HD-1	275 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

ICC-ES PFR-0003 PCS-0003 BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE

TABLE 4.3.190: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.70	Weight	4600 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	193 150FS-33-50	242 150FS-33-50	290 150FS-33-50	338 150FS-33-50	386 150FS-33-50	483 200FS-33-50	580 200FS-33-50	676 250FS-33-50
0.9	180 150FS-33-50	225 150FS-33-50	270 150FS-33-50	316 150FS-33-50	361 150FS-33-50	451 150FS-33-50	541 200FS-33-50	631 200FS-33-50
0.8	167 150FS-33-50	209 150FS-33-50	251 150FS-33-50	293 150FS-33-50	335 150FS-33-50	419 150FS-33-50	502 200FS-33-50	586 200FS-33-50
0.7	155 150FS-33-50	193 150FS-33-50	232 150FS-33-50	270 150FS-33-50	309 150FS-33-50	386 150FS-33-50	464 150FS-33-50	541 200FS-33-50
0.6	142 150FS-33-50	177 150FS-33-50	213 150FS-33-50	248 150FS-33-50	283 150FS-33-50	354 150FS-33-50	425 150FS-33-50	496 200FS-33-50
0.5	129 150FS-33-50	161 150FS-33-50	193 150FS-33-50	225 150FS-33-50	258 150FS-33-50	322 150FS-33-50	386 150FS-33-50	451 150FS-33-50
0.4	116 150FS-33-50	145 150FS-33-50	174 150FS-33-50	203 150FS-33-50	232 150FS-33-50	290 150FS-33-50	348 150FS-33-50	406 150FS-33-50
0.3	103 150FS-33-50	129 150FS-33-50	155 150FS-33-50	180 150FS-33-50	206 150FS-33-50	258 150FS-33-50	309 150FS-33-50	361 150FS-33-50
0.2	90 150FS-33-50	113 150FS-33-50	135 150FS-33-50	158 150FS-33-50	180 150FS-33-50	225 150FS-33-50	270 150FS-33-50	316 150FS-33-50
0.1	77 150FS-33-50	97 150FS-33-50	116 150FS-33-50	135 150FS-33-50	155 150FS-33-50	193 150FS-33-50	232 150FS-33-50	270 150FS-33-50
0.0	68 150FS-33-50	85 150FS-33-50	101 150FS-33-50	118 150FS-33-50	135 150FS-33-50	169 150FS-33-50	203 150FS-33-50	237 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	170 HD-1	758 HD-1	1347 HD-1	1936 HD-1	2524 HD-1	3113 HD-1
0.9	0 HD-0	0 HD-0	13 HD-1	562 HD-1	1111 HD-1	1661 HD-1	2210 HD-1	2760 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	366 HD-1	876 HD-1	1386 HD-1	1896 HD-1	2407 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	170 HD-1	641 HD-1	1111 HD-1	1582 HD-1	2053 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	405 HD-1	837 HD-1	1268 HD-1	1700 HD-1
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	170 HD-1	562 HD-1	955 HD-1	1347 HD-1
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	287 HD-1	641 HD-1	994 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	13 HD-1	327 HD-1	641 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	13 HD-1	287 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

HCAi PCS-0003 DESIGNED FOR CODE COMPLIANCE BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE 2019

TABLE 4.3.191: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.70	Weight	4800 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	202 150FS-33-50	252 150FS-33-50	302 150FS-33-50	353 150FS-33-50	403 150FS-33-50	504 200FS-33-50	605 200FS-33-50	706 250FS-33-50
0.9	188 150FS-33-50	235 150FS-33-50	282 150FS-33-50	329 150FS-33-50	376 150FS-33-50	470 200FS-33-50	564 200FS-33-50	659 250FS-33-50
0.8	175 150FS-33-50	218 150FS-33-50	262 150FS-33-50	306 150FS-33-50	349 150FS-33-50	437 150FS-33-50	524 200FS-33-50	612 200FS-33-50
0.7	161 150FS-33-50	202 150FS-33-50	242 150FS-33-50	282 150FS-33-50	323 150FS-33-50	403 150FS-33-50	484 200FS-33-50	564 200FS-33-50
0.6	148 150FS-33-50	185 150FS-33-50	222 150FS-33-50	259 150FS-33-50	296 150FS-33-50	370 150FS-33-50	444 150FS-33-50	517 200FS-33-50
0.5	134 150FS-33-50	168 150FS-33-50	202 150FS-33-50	235 150FS-33-50	269 150FS-33-50	336 150FS-33-50	403 150FS-33-50	470 150FS-33-50
0.4	121 150FS-33-50	151 150FS-33-50	181 150FS-33-50	212 150FS-33-50	242 150FS-33-50	302 150FS-33-50	363 150FS-33-50	423 150FS-33-50
0.3	108 150FS-33-50	134 150FS-33-50	161 150FS-33-50	188 150FS-33-50	215 150FS-33-50	269 150FS-33-50	323 150FS-33-50	376 150FS-33-50
0.2	94 150FS-33-50	118 150FS-33-50	141 150FS-33-50	165 150FS-33-50	188 150FS-33-50	235 150FS-33-50	282 150FS-33-50	329 150FS-33-50
0.1	81 150FS-33-50	101 150FS-33-50	121 150FS-33-50	141 150FS-33-50	161 150FS-33-50	202 150FS-33-50	242 150FS-33-50	282 150FS-33-50
0.0	71 150FS-33-50	88 150FS-33-50	106 150FS-33-50	123 150FS-33-50	141 150FS-33-50	176 150FS-33-50	212 150FS-33-50	247 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	177 HD-1	791 HD-1	1406 HD-1	2020 HD-1	2634 HD-1	3248 HD-2
0.9	0 HD-0	0 HD-0	13 HD-1	587 HD-1	1160 HD-1	1733 HD-1	2306 HD-1	2880 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	382 HD-1	914 HD-1	1446 HD-1	1979 HD-1	2511 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	177 HD-1	668 HD-1	1160 HD-1	1651 HD-1	2143 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	423 HD-1	873 HD-1	1324 HD-1	1774 HD-1
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	177 HD-1	587 HD-1	996 HD-1	1406 HD-1
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	300 HD-1	668 HD-1	1037 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	13 HD-1	341 HD-1	668 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	13 HD-1	300 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

HCAi PCS-0003 REVIEWED FOR CODE COMPLIANCE BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE 2019

TABLE 4.3.192: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	0.70	Weight	5000 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	210 150FS-33-50	263 150FS-33-50	315 150FS-33-50	368 150FS-33-50	420 150FS-33-50	525 200FS-33-50	630 250FS-33-50	735 250FS-33-50
0.9	196 150FS-33-50	245 150FS-33-50	294 150FS-33-50	343 150FS-33-50	392 150FS-33-50	490 200FS-33-50	588 200FS-33-50	686 250FS-33-50
0.8	182 150FS-33-50	228 150FS-33-50	273 150FS-33-50	319 150FS-33-50	364 150FS-33-50	455 150FS-33-50	546 200FS-33-50	637 250FS-33-50
0.7	168 150FS-33-50	210 150FS-33-50	252 150FS-33-50	294 150FS-33-50	336 150FS-33-50	420 150FS-33-50	504 200FS-33-50	588 200FS-33-50
0.6	154 150FS-33-50	193 150FS-33-50	231 150FS-33-50	270 150FS-33-50	308 150FS-33-50	385 150FS-33-50	462 150FS-33-50	539 200FS-33-50
0.5	140 150FS-33-50	175 150FS-33-50	210 150FS-33-50	245 150FS-33-50	280 150FS-33-50	350 150FS-33-50	420 150FS-33-50	490 200FS-33-50
0.4	126 150FS-33-50	158 150FS-33-50	189 150FS-33-50	221 150FS-33-50	252 150FS-33-50	315 150FS-33-50	378 150FS-33-50	441 150FS-33-50
0.3	112 150FS-33-50	140 150FS-33-50	168 150FS-33-50	196 150FS-33-50	224 150FS-33-50	280 150FS-33-50	336 150FS-33-50	392 150FS-33-50
0.2	98 150FS-33-50	123 150FS-33-50	147 150FS-33-50	172 150FS-33-50	196 150FS-33-50	245 150FS-33-50	294 150FS-33-50	343 150FS-33-50
0.1	84 150FS-33-50	105 150FS-33-50	126 150FS-33-50	147 150FS-33-50	168 150FS-33-50	210 150FS-33-50	252 150FS-33-50	294 150FS-33-50
0.0	74 150FS-33-50	92 150FS-33-50	110 150FS-33-50	129 150FS-33-50	147 150FS-33-50	184 150FS-33-50	221 150FS-33-50	257 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	0 HD-0	184 HD-1	824 HD-1	1464 HD-1	2104 HD-1	2744 HD-1	3384 HD-2
0.9	0 HD-0	0 HD-0	14 HD-1	611 HD-1	1208 HD-1	1805 HD-1	2403 HD-1	3000 HD-1
0.8	0 HD-0	0 HD-0	0 HD-0	398 HD-1	952 HD-1	1507 HD-1	2061 HD-1	2616 HD-1
0.7	0 HD-0	0 HD-0	0 HD-0	184 HD-1	696 HD-1	1208 HD-1	1720 HD-1	2232 HD-1
0.6	0 HD-0	0 HD-0	0 HD-0	0 HD-0	440 HD-1	910 HD-1	1379 HD-1	1848 HD-1
0.5	0 HD-0	0 HD-0	0 HD-0	0 HD-0	184 HD-1	611 HD-1	1038 HD-1	1464 HD-1
0.4	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	312 HD-1	696 HD-1	1080 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	14 HD-1	355 HD-1	696 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	14 HD-1	312 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0

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TABLE 4.3.193: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.00	Weight	2000 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	120 150FS-33-50	150 150FS-33-50	180 150FS-33-50	210 150FS-33-50	240 150FS-33-50	300 150FS-33-50	360 150FS-33-50	420 150FS-33-50
0.9	112 150FS-33-50	140 150FS-33-50	168 150FS-33-50	196 150FS-33-50	224 150FS-33-50	280 150FS-33-50	336 150FS-33-50	392 150FS-33-50
0.8	104 150FS-33-50	130 150FS-33-50	156 150FS-33-50	182 150FS-33-50	208 150FS-33-50	260 150FS-33-50	312 150FS-33-50	364 150FS-33-50
0.7	96 150FS-33-50	120 150FS-33-50	144 150FS-33-50	168 150FS-33-50	192 150FS-33-50	240 150FS-33-50	288 150FS-33-50	336 150FS-33-50
0.6	88 150FS-33-50	110 150FS-33-50	132 150FS-33-50	154 150FS-33-50	176 150FS-33-50	220 150FS-33-50	264 150FS-33-50	308 150FS-33-50
0.5	80 150FS-33-50	100 150FS-33-50	120 150FS-33-50	140 150FS-33-50	160 150FS-33-50	200 150FS-33-50	240 150FS-33-50	280 150FS-33-50
0.4	72 150FS-33-50	90 150FS-33-50	108 150FS-33-50	126 150FS-33-50	144 150FS-33-50	180 150FS-33-50	216 150FS-33-50	252 150FS-33-50
0.3	64 150FS-33-50	80 150FS-33-50	96 150FS-33-50	112 150FS-33-50	128 150FS-33-50	160 150FS-33-50	192 150FS-33-50	224 150FS-33-50
0.2	56 150FS-33-50	70 150FS-33-50	84 150FS-33-50	98 150FS-33-50	112 150FS-33-50	140 150FS-33-50	168 150FS-33-50	196 150FS-33-50
0.1	48 150FS-33-50	60 150FS-33-50	72 150FS-33-50	84 150FS-33-50	96 150FS-33-50	120 150FS-33-50	144 150FS-33-50	168 150FS-33-50
0.0	42 150FS-33-50	53 150FS-33-50	63 150FS-33-50	74 150FS-33-50	84 150FS-33-50	105 150FS-33-50	126 150FS-33-50	147 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	222 HD-1	588 HD-1	953 HD-1	1319 HD-1	1684 HD-1	2050 HD-1	2416 HD-1
0.9	0 HD-0	149 HD-1	490 HD-1	831 HD-1	1173 HD-1	1514 HD-1	1855 HD-1	2196 HD-1
0.8	0 HD-0	76 HD-1	393 HD-1	709 HD-1	1026 HD-1	1343 HD-1	1660 HD-1	1977 HD-1
0.7	0 HD-0	3 HD-1	295 HD-1	588 HD-1	880 HD-1	1173 HD-1	1465 HD-1	1758 HD-1
0.6	0 HD-0	0 HD-0	198 HD-1	466 HD-1	734 HD-1	1002 HD-1	1270 HD-1	1538 HD-1
0.5	0 HD-0	0 HD-0	100 HD-1	344 HD-1	588 HD-1	831 HD-1	1075 HD-1	1319 HD-1
0.4	0 HD-0	0 HD-0	3 HD-1	222 HD-1	441 HD-1	661 HD-1	880 HD-1	1099 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	100 HD-1	295 HD-1	490 HD-1	685 HD-1	880 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	149 HD-1	319 HD-1	490 HD-1	661 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	3 HD-1	149 HD-1	295 HD-1	441 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	21 HD-1	149 HD-1	277 HD-1

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TABLE 4.3.194: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.00	Weight	2200 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	132 150FS-33-50	165 150FS-33-50	198 150FS-33-50	231 150FS-33-50	264 150FS-33-50	330 150FS-33-50	396 150FS-33-50	462 150FS-33-50
0.9	123 150FS-33-50	154 150FS-33-50	185 150FS-33-50	216 150FS-33-50	246 150FS-33-50	308 150FS-33-50	370 150FS-33-50	431 150FS-33-50
0.8	114 150FS-33-50	143 150FS-33-50	172 150FS-33-50	200 150FS-33-50	229 150FS-33-50	286 150FS-33-50	343 150FS-33-50	400 150FS-33-50
0.7	106 150FS-33-50	132 150FS-33-50	158 150FS-33-50	185 150FS-33-50	211 150FS-33-50	264 150FS-33-50	317 150FS-33-50	370 150FS-33-50
0.6	97 150FS-33-50	121 150FS-33-50	145 150FS-33-50	169 150FS-33-50	194 150FS-33-50	242 150FS-33-50	290 150FS-33-50	339 150FS-33-50
0.5	88 150FS-33-50	110 150FS-33-50	132 150FS-33-50	154 150FS-33-50	176 150FS-33-50	220 150FS-33-50	264 150FS-33-50	308 150FS-33-50
0.4	79 150FS-33-50	99 150FS-33-50	119 150FS-33-50	139 150FS-33-50	158 150FS-33-50	198 150FS-33-50	238 150FS-33-50	277 150FS-33-50
0.3	70 150FS-33-50	88 150FS-33-50	106 150FS-33-50	123 150FS-33-50	141 150FS-33-50	176 150FS-33-50	211 150FS-33-50	246 150FS-33-50
0.2	62 150FS-33-50	77 150FS-33-50	92 150FS-33-50	108 150FS-33-50	123 150FS-33-50	154 150FS-33-50	185 150FS-33-50	216 150FS-33-50
0.1	53 150FS-33-50	66 150FS-33-50	79 150FS-33-50	92 150FS-33-50	106 150FS-33-50	132 150FS-33-50	158 150FS-33-50	185 150FS-33-50
0.0	46 150FS-33-50	58 150FS-33-50	69 150FS-33-50	81 150FS-33-50	92 150FS-33-50	116 150FS-33-50	139 150FS-33-50	162 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	244 HD-1	646 HD-1	1048 HD-1	1451 HD-1	1853 HD-1	2255 HD-1	2657 HD-1
0.9	0 HD-0	164 HD-1	539 HD-1	914 HD-1	1290 HD-1	1665 HD-1	2041 HD-1	2416 HD-1
0.8	0 HD-0	83 HD-1	432 HD-1	780 HD-1	1129 HD-1	1477 HD-1	1826 HD-1	2175 HD-1
0.7	0 HD-0	3 HD-1	325 HD-1	646 HD-1	968 HD-1	1290 HD-1	1612 HD-1	1933 HD-1
0.6	0 HD-0	0 HD-0	217 HD-1	512 HD-1	807 HD-1	1102 HD-1	1397 HD-1	1692 HD-1
0.5	0 HD-0	0 HD-0	110 HD-1	378 HD-1	646 HD-1	914 HD-1	1183 HD-1	1451 HD-1
0.4	0 HD-0	0 HD-0	3 HD-1	244 HD-1	485 HD-1	727 HD-1	968 HD-1	1209 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	110 HD-1	325 HD-1	539 HD-1	754 HD-1	968 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	164 HD-1	351 HD-1	539 HD-1	727 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	3 HD-1	164 HD-1	325 HD-1	485 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	23 HD-1	164 HD-1	304 HD-1

REVIEWED FOR CODE COMPLIANCE HCAi PCS-0003 BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE

TABLE 4.3.195: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.00	Weight	2400 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	144 150FS-33-50	180 150FS-33-50	216 150FS-33-50	252 150FS-33-50	288 150FS-33-50	360 150FS-33-50	432 150FS-33-50	504 200FS-33-50
0.9	134 150FS-33-50	168 150FS-33-50	202 150FS-33-50	235 150FS-33-50	269 150FS-33-50	336 150FS-33-50	403 150FS-33-50	470 150FS-33-50
0.8	125 150FS-33-50	156 150FS-33-50	187 150FS-33-50	218 150FS-33-50	250 150FS-33-50	312 150FS-33-50	374 150FS-33-50	437 150FS-33-50
0.7	115 150FS-33-50	144 150FS-33-50	173 150FS-33-50	202 150FS-33-50	230 150FS-33-50	288 150FS-33-50	346 150FS-33-50	403 150FS-33-50
0.6	106 150FS-33-50	132 150FS-33-50	158 150FS-33-50	185 150FS-33-50	211 150FS-33-50	264 150FS-33-50	317 150FS-33-50	370 150FS-33-50
0.5	96 150FS-33-50	120 150FS-33-50	144 150FS-33-50	168 150FS-33-50	192 150FS-33-50	240 150FS-33-50	288 150FS-33-50	336 150FS-33-50
0.4	86 150FS-33-50	108 150FS-33-50	130 150FS-33-50	151 150FS-33-50	173 150FS-33-50	216 150FS-33-50	259 150FS-33-50	302 150FS-33-50
0.3	77 150FS-33-50	96 150FS-33-50	115 150FS-33-50	134 150FS-33-50	154 150FS-33-50	192 150FS-33-50	230 150FS-33-50	269 150FS-33-50
0.2	67 150FS-33-50	84 150FS-33-50	101 150FS-33-50	118 150FS-33-50	134 150FS-33-50	168 150FS-33-50	202 150FS-33-50	235 150FS-33-50
0.1	58 150FS-33-50	72 150FS-33-50	86 150FS-33-50	101 150FS-33-50	115 150FS-33-50	144 150FS-33-50	173 150FS-33-50	202 150FS-33-50
0.0	50 150FS-33-50	63 150FS-33-50	76 150FS-33-50	88 150FS-33-50	101 150FS-33-50	126 150FS-33-50	151 150FS-33-50	176 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_f)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	266 HD-1	705 HD-1	1144 HD-1	1583 HD-1	2021 HD-1	2460 HD-1	2899 HD-1
0.9	0 HD-0	179 HD-1	588 HD-1	998 HD-1	1407 HD-1	1817 HD-1	2226 HD-1	2636 HD-1
0.8	0 HD-0	91 HD-1	471 HD-1	851 HD-1	1232 HD-1	1612 HD-1	1992 HD-1	2372 HD-1
0.7	0 HD-0	3 HD-1	354 HD-1	705 HD-1	1056 HD-1	1407 HD-1	1758 HD-1	2109 HD-1
0.6	0 HD-0	0 HD-0	237 HD-1	559 HD-1	881 HD-1	1202 HD-1	1524 HD-1	1846 HD-1
0.5	0 HD-0	0 HD-0	120 HD-1	413 HD-1	705 HD-1	998 HD-1	1290 HD-1	1583 HD-1
0.4	0 HD-0	0 HD-0	3 HD-1	266 HD-1	530 HD-1	793 HD-1	1056 HD-1	1319 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	120 HD-1	354 HD-1	588 HD-1	822 HD-1	1056 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	179 HD-1	383 HD-1	588 HD-1	793 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	3 HD-1	179 HD-1	354 HD-1	530 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	25 HD-1	179 HD-1	332 HD-1

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TABLE 4.3.196: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.00	Weight	2600 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	156 150FS-33-50	195 150FS-33-50	234 150FS-33-50	273 150FS-33-50	312 150FS-33-50	390 150FS-33-50	468 150FS-33-50	546 200FS-33-50
0.9	146 150FS-33-50	182 150FS-33-50	218 150FS-33-50	255 150FS-33-50	291 150FS-33-50	364 150FS-33-50	437 150FS-33-50	510 200FS-33-50
0.8	135 150FS-33-50	169 150FS-33-50	203 150FS-33-50	237 150FS-33-50	270 150FS-33-50	338 150FS-33-50	406 150FS-33-50	473 150FS-33-50
0.7	125 150FS-33-50	156 150FS-33-50	187 150FS-33-50	218 150FS-33-50	250 150FS-33-50	312 150FS-33-50	374 150FS-33-50	437 150FS-33-50
0.6	114 150FS-33-50	143 150FS-33-50	172 150FS-33-50	200 150FS-33-50	229 150FS-33-50	286 150FS-33-50	343 150FS-33-50	400 150FS-33-50
0.5	104 150FS-33-50	130 150FS-33-50	156 150FS-33-50	182 150FS-33-50	208 150FS-33-50	260 150FS-33-50	312 150FS-33-50	364 150FS-33-50
0.4	94 150FS-33-50	117 150FS-33-50	140 150FS-33-50	164 150FS-33-50	187 150FS-33-50	234 150FS-33-50	281 150FS-33-50	328 150FS-33-50
0.3	83 150FS-33-50	104 150FS-33-50	125 150FS-33-50	146 150FS-33-50	166 150FS-33-50	208 150FS-33-50	250 150FS-33-50	291 150FS-33-50
0.2	73 150FS-33-50	91 150FS-33-50	109 150FS-33-50	127 150FS-33-50	146 150FS-33-50	182 150FS-33-50	218 150FS-33-50	255 150FS-33-50
0.1	62 150FS-33-50	78 150FS-33-50	94 150FS-33-50	109 150FS-33-50	125 150FS-33-50	156 150FS-33-50	187 150FS-33-50	218 150FS-33-50
0.0	55 150FS-33-50	68 150FS-33-50	82 150FS-33-50	96 150FS-33-50	109 150FS-33-50	137 150FS-33-50	164 150FS-33-50	191 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	288 HD-1	764 HD-1	1239 HD-1	1714 HD-1	2190 HD-1	2665 HD-1	3140 HD-1
0.9	0 HD-0	193 HD-1	637 HD-1	1081 HD-1	1524 HD-1	1968 HD-1	2412 HD-1	2855 HD-1
0.8	0 HD-0	98 HD-1	510 HD-1	922 HD-1	1334 HD-1	1746 HD-1	2158 HD-1	2570 HD-1
0.7	0 HD-0	3 HD-1	384 HD-1	764 HD-1	1144 HD-1	1524 HD-1	1905 HD-1	2285 HD-1
0.6	0 HD-0	0 HD-0	257 HD-1	605 HD-1	954 HD-1	1302 HD-1	1651 HD-1	2000 HD-1
0.5	0 HD-0	0 HD-0	130 HD-1	447 HD-1	764 HD-1	1081 HD-1	1398 HD-1	1714 HD-1
0.4	0 HD-0	0 HD-0	3 HD-1	288 HD-1	574 HD-1	859 HD-1	1144 HD-1	1429 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	130 HD-1	384 HD-1	637 HD-1	891 HD-1	1144 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	193 HD-1	415 HD-1	637 HD-1	859 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	3 HD-1	193 HD-1	384 HD-1	574 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	27 HD-1	193 HD-1	360 HD-1

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TABLE 4.3.197: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.00	Weight	2800 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	168 150FS-33-50	210 150FS-33-50	252 150FS-33-50	294 150FS-33-50	336 150FS-33-50	420 150FS-33-50	504 200FS-33-50	588 200FS-33-50
0.9	157 150FS-33-50	196 150FS-33-50	235 150FS-33-50	274 150FS-33-50	314 150FS-33-50	392 150FS-33-50	470 200FS-33-50	549 200FS-33-50
0.8	146 150FS-33-50	182 150FS-33-50	218 150FS-33-50	255 150FS-33-50	291 150FS-33-50	364 150FS-33-50	437 150FS-33-50	510 200FS-33-50
0.7	134 150FS-33-50	168 150FS-33-50	202 150FS-33-50	235 150FS-33-50	269 150FS-33-50	336 150FS-33-50	403 150FS-33-50	470 150FS-33-50
0.6	123 150FS-33-50	154 150FS-33-50	185 150FS-33-50	216 150FS-33-50	246 150FS-33-50	308 150FS-33-50	370 150FS-33-50	431 150FS-33-50
0.5	112 150FS-33-50	140 150FS-33-50	168 150FS-33-50	196 150FS-33-50	224 150FS-33-50	280 150FS-33-50	336 150FS-33-50	392 150FS-33-50
0.4	101 150FS-33-50	126 150FS-33-50	151 150FS-33-50	176 150FS-33-50	202 150FS-33-50	252 150FS-33-50	302 150FS-33-50	353 150FS-33-50
0.3	90 150FS-33-50	112 150FS-33-50	134 150FS-33-50	157 150FS-33-50	179 150FS-33-50	224 150FS-33-50	269 150FS-33-50	314 150FS-33-50
0.2	78 150FS-33-50	98 150FS-33-50	118 150FS-33-50	137 150FS-33-50	157 150FS-33-50	196 150FS-33-50	235 150FS-33-50	274 150FS-33-50
0.1	67 150FS-33-50	84 150FS-33-50	101 150FS-33-50	118 150FS-33-50	134 150FS-33-50	168 150FS-33-50	202 150FS-33-50	235 150FS-33-50
0.0	59 150FS-33-50	74 150FS-33-50	88 150FS-33-50	103 150FS-33-50	118 150FS-33-50	147 150FS-33-50	176 150FS-33-50	206 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	311 HD-1	823 HD-1	1334 HD-1	1846 HD-1	2358 HD-1	2870 HD-1	3382 HD-2
0.9	0 HD-0	208 HD-1	686 HD-1	1164 HD-1	1642 HD-1	2119 HD-1	2597 HD-1	3075 HD-1
0.8	0 HD-0	106 HD-1	550 HD-1	993 HD-1	1437 HD-1	1880 HD-1	2324 HD-1	2768 HD-1
0.7	0 HD-0	4 HD-1	413 HD-1	823 HD-1	1232 HD-1	1642 HD-1	2051 HD-1	2461 HD-1
0.6	0 HD-0	0 HD-0	277 HD-1	652 HD-1	1027 HD-1	1403 HD-1	1778 HD-1	2153 HD-1
0.5	0 HD-0	0 HD-0	140 HD-1	481 HD-1	823 HD-1	1164 HD-1	1505 HD-1	1846 HD-1
0.4	0 HD-0	0 HD-0	4 HD-1	311 HD-1	618 HD-1	925 HD-1	1232 HD-1	1539 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	140 HD-1	413 HD-1	686 HD-1	959 HD-1	1232 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	208 HD-1	447 HD-1	686 HD-1	925 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	4 HD-1	208 HD-1	413 HD-1	618 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	29 HD-1	208 HD-1	387 HD-1

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TABLE 4.3.198: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.00	Weight	3000 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	180 150FS-33-50	225 150FS-33-50	270 150FS-33-50	315 150FS-33-50	360 150FS-33-50	450 150FS-33-50	540 200FS-33-50	630 200FS-33-50
0.9	168 150FS-33-50	210 150FS-33-50	252 150FS-33-50	294 150FS-33-50	336 150FS-33-50	420 150FS-33-50	504 200FS-33-50	588 200FS-33-50
0.8	156 150FS-33-50	195 150FS-33-50	234 150FS-33-50	273 150FS-33-50	312 150FS-33-50	390 150FS-33-50	468 150FS-33-50	546 200FS-33-50
0.7	144 150FS-33-50	180 150FS-33-50	216 150FS-33-50	252 150FS-33-50	288 150FS-33-50	360 150FS-33-50	432 150FS-33-50	504 200FS-33-50
0.6	132 150FS-33-50	165 150FS-33-50	198 150FS-33-50	231 150FS-33-50	264 150FS-33-50	330 150FS-33-50	396 150FS-33-50	462 150FS-33-50
0.5	120 150FS-33-50	150 150FS-33-50	180 150FS-33-50	210 150FS-33-50	240 150FS-33-50	300 150FS-33-50	360 150FS-33-50	420 150FS-33-50
0.4	108 150FS-33-50	135 150FS-33-50	162 150FS-33-50	189 150FS-33-50	216 150FS-33-50	270 150FS-33-50	324 150FS-33-50	378 150FS-33-50
0.3	96 150FS-33-50	120 150FS-33-50	144 150FS-33-50	168 150FS-33-50	192 150FS-33-50	240 150FS-33-50	288 150FS-33-50	336 150FS-33-50
0.2	84 150FS-33-50	105 150FS-33-50	126 150FS-33-50	147 150FS-33-50	168 150FS-33-50	210 150FS-33-50	252 150FS-33-50	294 150FS-33-50
0.1	72 150FS-33-50	90 150FS-33-50	108 150FS-33-50	126 150FS-33-50	144 150FS-33-50	180 150FS-33-50	216 150FS-33-50	252 150FS-33-50
0.0	63 150FS-33-50	79 150FS-33-50	95 150FS-33-50	110 150FS-33-50	126 150FS-33-50	158 150FS-33-50	189 150FS-33-50	221 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	333 HD-1	881 HD-1	1430 HD-1	1978 HD-1	2527 HD-1	3075 HD-1	3623 HD-2
0.9	0 HD-0	223 HD-1	735 HD-1	1247 HD-1	1759 HD-1	2271 HD-1	2783 HD-1	3294 HD-2
0.8	0 HD-0	113 HD-1	589 HD-1	1064 HD-1	1539 HD-1	2015 HD-1	2490 HD-1	2965 HD-1
0.7	0 HD-0	4 HD-1	443 HD-1	881 HD-1	1320 HD-1	1759 HD-1	2198 HD-1	2636 HD-1
0.6	0 HD-0	0 HD-0	296 HD-1	698 HD-1	1101 HD-1	1503 HD-1	1905 HD-1	2307 HD-1
0.5	0 HD-0	0 HD-0	150 HD-1	516 HD-1	881 HD-1	1247 HD-1	1613 HD-1	1978 HD-1
0.4	0 HD-0	0 HD-0	4 HD-1	333 HD-1	662 HD-1	991 HD-1	1320 HD-1	1649 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	150 HD-1	443 HD-1	735 HD-1	1028 HD-1	1320 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	223 HD-1	479 HD-1	735 HD-1	991 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	4 HD-1	223 HD-1	443 HD-1	662 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	31 HD-1	223 HD-1	415 HD-1

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PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

TABLE 4.3.199: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.00	Weight	3200 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	192 150FS-33-50	240 150FS-33-50	288 150FS-33-50	336 150FS-33-50	384 150FS-33-50	480 200FS-33-50	576 200FS-33-50	672 250FS-33-50
0.9	179 150FS-33-50	224 150FS-33-50	269 150FS-33-50	314 150FS-33-50	358 150FS-33-50	448 150FS-33-50	538 200FS-33-50	627 200FS-33-50
0.8	166 150FS-33-50	208 150FS-33-50	250 150FS-33-50	291 150FS-33-50	333 150FS-33-50	416 150FS-33-50	499 200FS-33-50	582 200FS-33-50
0.7	154 150FS-33-50	192 150FS-33-50	230 150FS-33-50	269 150FS-33-50	307 150FS-33-50	384 150FS-33-50	461 150FS-33-50	538 200FS-33-50
0.6	141 150FS-33-50	176 150FS-33-50	211 150FS-33-50	246 150FS-33-50	282 150FS-33-50	352 150FS-33-50	422 150FS-33-50	493 200FS-33-50
0.5	128 150FS-33-50	160 150FS-33-50	192 150FS-33-50	224 150FS-33-50	256 150FS-33-50	320 150FS-33-50	384 150FS-33-50	448 150FS-33-50
0.4	115 150FS-33-50	144 150FS-33-50	173 150FS-33-50	202 150FS-33-50	230 150FS-33-50	288 150FS-33-50	346 150FS-33-50	403 150FS-33-50
0.3	102 150FS-33-50	128 150FS-33-50	154 150FS-33-50	179 150FS-33-50	205 150FS-33-50	256 150FS-33-50	307 150FS-33-50	358 150FS-33-50
0.2	90 150FS-33-50	112 150FS-33-50	134 150FS-33-50	157 150FS-33-50	179 150FS-33-50	224 150FS-33-50	269 150FS-33-50	314 150FS-33-50
0.1	77 150FS-33-50	96 150FS-33-50	115 150FS-33-50	134 150FS-33-50	154 150FS-33-50	192 150FS-33-50	230 150FS-33-50	269 150FS-33-50
0.0	67 150FS-33-50	84 150FS-33-50	101 150FS-33-50	118 150FS-33-50	134 150FS-33-50	168 150FS-33-50	202 150FS-33-50	235 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	355 HD-1	940 HD-1	1525 HD-1	2110 HD-1	2695 HD-1	3280 HD-2	3865 HD-2
0.9	0 HD-0	238 HD-1	784 HD-1	1330 HD-1	1876 HD-1	2422 HD-1	2968 HD-1	3514 HD-2
0.8	0 HD-0	121 HD-1	628 HD-1	1135 HD-1	1642 HD-1	2149 HD-1	2656 HD-1	3163 HD-1
0.7	0 HD-0	4 HD-1	472 HD-1	940 HD-1	1408 HD-1	1876 HD-1	2344 HD-1	2812 HD-1
0.6	0 HD-0	0 HD-0	316 HD-1	745 HD-1	1174 HD-1	1603 HD-1	2032 HD-1	2461 HD-1
0.5	0 HD-0	0 HD-0	160 HD-1	550 HD-1	940 HD-1	1330 HD-1	1720 HD-1	2110 HD-1
0.4	0 HD-0	0 HD-0	4 HD-1	355 HD-1	706 HD-1	1057 HD-1	1408 HD-1	1759 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	160 HD-1	472 HD-1	784 HD-1	1096 HD-1	1408 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	238 HD-1	511 HD-1	784 HD-1	1057 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	4 HD-1	238 HD-1	472 HD-1	706 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	33 HD-1	238 HD-1	443 HD-1

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TABLE 4.3.200: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.00	Weight	3400 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	204 150FS-33-50	255 150FS-33-50	306 150FS-33-50	357 150FS-33-50	408 150FS-33-50	510 200FS-33-50	612 200FS-33-50	714 250FS-33-50
0.9	190 150FS-33-50	238 150FS-33-50	286 150FS-33-50	333 150FS-33-50	381 150FS-33-50	476 200FS-33-50	571 200FS-33-50	666 250FS-33-50
0.8	177 150FS-33-50	221 150FS-33-50	265 150FS-33-50	309 150FS-33-50	354 150FS-33-50	442 150FS-33-50	530 200FS-33-50	619 200FS-33-50
0.7	163 150FS-33-50	204 150FS-33-50	245 150FS-33-50	286 150FS-33-50	326 150FS-33-50	408 150FS-33-50	490 200FS-33-50	571 200FS-33-50
0.6	150 150FS-33-50	187 150FS-33-50	224 150FS-33-50	262 150FS-33-50	299 150FS-33-50	374 150FS-33-50	449 150FS-33-50	524 200FS-33-50
0.5	136 150FS-33-50	170 150FS-33-50	204 150FS-33-50	238 150FS-33-50	272 150FS-33-50	340 150FS-33-50	408 150FS-33-50	476 200FS-33-50
0.4	122 150FS-33-50	153 150FS-33-50	184 150FS-33-50	214 150FS-33-50	245 150FS-33-50	306 150FS-33-50	367 150FS-33-50	428 150FS-33-50
0.3	109 150FS-33-50	136 150FS-33-50	163 150FS-33-50	190 150FS-33-50	218 150FS-33-50	272 150FS-33-50	326 150FS-33-50	381 150FS-33-50
0.2	95 150FS-33-50	119 150FS-33-50	143 150FS-33-50	167 150FS-33-50	190 150FS-33-50	238 150FS-33-50	286 150FS-33-50	333 150FS-33-50
0.1	82 150FS-33-50	102 150FS-33-50	122 150FS-33-50	143 150FS-33-50	163 150FS-33-50	204 150FS-33-50	245 150FS-33-50	286 150FS-33-50
0.0	71 150FS-33-50	89 150FS-33-50	107 150FS-33-50	125 150FS-33-50	143 150FS-33-50	179 150FS-33-50	214 150FS-33-50	250 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	377 HD-1	999 HD-1	1620 HD-1	2242 HD-1	2863 HD-1	3485 HD-2	4107 HD-2
0.9	0 HD-0	253 HD-1	833 HD-1	1413 HD-1	1993 HD-1	2573 HD-1	3154 HD-1	3734 HD-2
0.8	0 HD-0	129 HD-1	667 HD-1	1206 HD-1	1745 HD-1	2283 HD-1	2822 HD-1	3361 HD-2
0.7	0 HD-0	4 HD-1	502 HD-1	999 HD-1	1496 HD-1	1993 HD-1	2491 HD-1	2988 HD-1
0.6	0 HD-0	0 HD-0	336 HD-1	792 HD-1	1247 HD-1	1703 HD-1	2159 HD-1	2615 HD-1
0.5	0 HD-0	0 HD-0	170 HD-1	584 HD-1	999 HD-1	1413 HD-1	1828 HD-1	2242 HD-1
0.4	0 HD-0	0 HD-0	4 HD-1	377 HD-1	750 HD-1	1123 HD-1	1496 HD-1	1869 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	170 HD-1	502 HD-1	833 HD-1	1165 HD-1	1496 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	253 HD-1	543 HD-1	833 HD-1	1123 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	4 HD-1	253 HD-1	502 HD-1	750 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	35 HD-1	253 HD-1	470 HD-1

ENGINEER OF CODE COMPLIANCE
HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

TABLE 4.3.201: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.00	Weight	3600 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	216 150FS-33-50	270 150FS-33-50	324 150FS-33-50	378 150FS-33-50	432 150FS-33-50	540 200FS-33-50	648 250FS-33-50	756 250FS-33-50
0.9	202 150FS-33-50	252 150FS-33-50	302 150FS-33-50	353 150FS-33-50	403 150FS-33-50	504 200FS-33-50	605 200FS-33-50	706 250FS-33-50
0.8	187 150FS-33-50	234 150FS-33-50	281 150FS-33-50	328 150FS-33-50	374 150FS-33-50	468 200FS-33-50	562 200FS-33-50	655 250FS-33-50
0.7	173 150FS-33-50	216 150FS-33-50	259 150FS-33-50	302 150FS-33-50	346 150FS-33-50	432 150FS-33-50	518 200FS-33-50	605 200FS-33-50
0.6	158 150FS-33-50	198 150FS-33-50	238 150FS-33-50	277 150FS-33-50	317 150FS-33-50	396 150FS-33-50	475 200FS-33-50	554 200FS-33-50
0.5	144 150FS-33-50	180 150FS-33-50	216 150FS-33-50	252 150FS-33-50	288 150FS-33-50	360 150FS-33-50	432 150FS-33-50	504 200FS-33-50
0.4	130 150FS-33-50	162 150FS-33-50	194 150FS-33-50	227 150FS-33-50	259 150FS-33-50	324 150FS-33-50	389 150FS-33-50	454 150FS-33-50
0.3	115 150FS-33-50	144 150FS-33-50	173 150FS-33-50	202 150FS-33-50	230 150FS-33-50	288 150FS-33-50	346 150FS-33-50	403 150FS-33-50
0.2	101 150FS-33-50	126 150FS-33-50	151 150FS-33-50	176 150FS-33-50	202 150FS-33-50	252 150FS-33-50	302 150FS-33-50	353 150FS-33-50
0.1	86 150FS-33-50	108 150FS-33-50	130 150FS-33-50	151 150FS-33-50	173 150FS-33-50	216 150FS-33-50	259 150FS-33-50	302 150FS-33-50
0.0	76 150FS-33-50	95 150FS-33-50	113 150FS-33-50	132 150FS-33-50	151 150FS-33-50	189 150FS-33-50	227 150FS-33-50	265 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	399 HD-1	1058 HD-1	1716 HD-1	2374 HD-1	3032 HD-1	3690 HD-2	4348 HD-2
0.9	0 HD-0	268 HD-1	882 HD-1	1496 HD-1	2111 HD-1	2725 HD-1	3339 HD-2	3953 HD-2
0.8	0 HD-0	136 HD-1	707 HD-1	1277 HD-1	1847 HD-1	2418 HD-1	2988 HD-1	3558 HD-2
0.7	0 HD-0	5 HD-1	531 HD-1	1058 HD-1	1584 HD-1	2111 HD-1	2637 HD-1	3164 HD-1
0.6	0 HD-0	0 HD-0	356 HD-1	838 HD-1	1321 HD-1	1803 HD-1	2286 HD-1	2769 HD-1
0.5	0 HD-0	0 HD-0	180 HD-1	619 HD-1	1058 HD-1	1496 HD-1	1935 HD-1	2374 HD-1
0.4	0 HD-0	0 HD-0	5 HD-1	399 HD-1	794 HD-1	1189 HD-1	1584 HD-1	1979 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	180 HD-1	531 HD-1	882 HD-1	1233 HD-1	1584 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	268 HD-1	575 HD-1	882 HD-1	1189 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	5 HD-1	268 HD-1	531 HD-1	794 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	37 HD-1	268 HD-1	498 HD-1

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TABLE 4.3.202: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.00	Weight	3800 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	228 150FS-33-50	285 150FS-33-50	342 150FS-33-50	399 150FS-33-50	456 200FS-33-50	570 200FS-33-50	684 250FS-33-50	798 300FS-33-50
0.9	213 150FS-33-50	266 150FS-33-50	319 150FS-33-50	372 150FS-33-50	426 150FS-33-50	532 200FS-33-50	638 250FS-33-50	745 250FS-33-50
0.8	198 150FS-33-50	247 150FS-33-50	296 150FS-33-50	346 150FS-33-50	395 150FS-33-50	494 200FS-33-50	593 200FS-33-50	692 250FS-33-50
0.7	182 150FS-33-50	228 150FS-33-50	274 150FS-33-50	319 150FS-33-50	365 150FS-33-50	456 150FS-33-50	547 200FS-33-50	638 250FS-33-50
0.6	167 150FS-33-50	209 150FS-33-50	251 150FS-33-50	293 150FS-33-50	334 150FS-33-50	418 150FS-33-50	502 200FS-33-50	585 200FS-33-50
0.5	152 150FS-33-50	190 150FS-33-50	228 150FS-33-50	266 150FS-33-50	304 150FS-33-50	380 150FS-33-50	456 150FS-33-50	532 200FS-33-50
0.4	137 150FS-33-50	171 150FS-33-50	205 150FS-33-50	239 150FS-33-50	274 150FS-33-50	342 150FS-33-50	410 150FS-33-50	479 200FS-33-50
0.3	122 150FS-33-50	152 150FS-33-50	182 150FS-33-50	213 150FS-33-50	243 150FS-33-50	304 150FS-33-50	365 150FS-33-50	426 150FS-33-50
0.2	106 150FS-33-50	133 150FS-33-50	160 150FS-33-50	186 150FS-33-50	213 150FS-33-50	266 150FS-33-50	319 150FS-33-50	372 150FS-33-50
0.1	91 150FS-33-50	114 150FS-33-50	137 150FS-33-50	160 150FS-33-50	182 150FS-33-50	228 150FS-33-50	274 150FS-33-50	319 150FS-33-50
0.0	80 150FS-33-50	100 150FS-33-50	120 150FS-33-50	140 150FS-33-50	160 150FS-33-50	200 150FS-33-50	239 150FS-33-50	279 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	422 HD-1	1116 HD-1	1811 HD-1	2506 HD-1	3200 HD-2	3895 HD-2	4590 HD-2
0.9	0 HD-0	283 HD-1	931 HD-1	1579 HD-1	2228 HD-1	2876 HD-1	3525 HD-2	4173 HD-2
0.8	0 HD-0	144 HD-1	746 HD-1	1348 HD-1	1950 HD-1	2552 HD-1	3154 HD-1	3756 HD-2
0.7	0 HD-0	5 HD-1	561 HD-1	1116 HD-1	1672 HD-1	2228 HD-1	2784 HD-1	3339 HD-2
0.6	0 HD-0	0 HD-0	375 HD-1	885 HD-1	1394 HD-1	1904 HD-1	2413 HD-1	2922 HD-1
0.5	0 HD-0	0 HD-0	190 HD-1	653 HD-1	1116 HD-1	1579 HD-1	2043 HD-1	2506 HD-1
0.4	0 HD-0	0 HD-0	5 HD-1	422 HD-1	838 HD-1	1255 HD-1	1672 HD-1	2089 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	190 HD-1	561 HD-1	931 HD-1	1302 HD-1	1672 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	283 HD-1	607 HD-1	931 HD-1	1255 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	5 HD-1	283 HD-1	561 HD-1	838 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	39 HD-1	283 HD-1	526 HD-1

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TABLE 4.3.203: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.00	Weight	4000 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg (z/h)	Wall Aspect Ratio (H/L)							
	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	240 150FS-33-50	300 150FS-33-50	360 150FS-33-50	420 150FS-33-50	480 200FS-33-50	600 200FS-33-50	720 250FS-33-50	840 300FS-33-50
0.9	224 150FS-33-50	280 150FS-33-50	336 150FS-33-50	392 150FS-33-50	448 200FS-33-50	560 200FS-33-50	672 250FS-33-50	784 250FS-33-50
0.8	208 150FS-33-50	260 150FS-33-50	312 150FS-33-50	364 150FS-33-50	416 150FS-33-50	520 200FS-33-50	624 200FS-33-50	728 250FS-33-50
0.7	192 150FS-33-50	240 150FS-33-50	288 150FS-33-50	336 150FS-33-50	384 150FS-33-50	480 200FS-33-50	576 200FS-33-50	672 250FS-33-50
0.6	176 150FS-33-50	220 150FS-33-50	264 150FS-33-50	308 150FS-33-50	352 150FS-33-50	440 150FS-33-50	528 200FS-33-50	616 200FS-33-50
0.5	160 150FS-33-50	200 150FS-33-50	240 150FS-33-50	280 150FS-33-50	320 150FS-33-50	400 150FS-33-50	480 200FS-33-50	560 200FS-33-50
0.4	144 150FS-33-50	180 150FS-33-50	216 150FS-33-50	252 150FS-33-50	288 150FS-33-50	360 150FS-33-50	432 150FS-33-50	504 200FS-33-50
0.3	128 150FS-33-50	160 150FS-33-50	192 150FS-33-50	224 150FS-33-50	256 150FS-33-50	320 150FS-33-50	384 150FS-33-50	448 150FS-33-50
0.2	112 150FS-33-50	140 150FS-33-50	168 150FS-33-50	196 150FS-33-50	224 150FS-33-50	280 150FS-33-50	336 150FS-33-50	392 150FS-33-50
0.1	96 150FS-33-50	120 150FS-33-50	144 150FS-33-50	168 150FS-33-50	192 150FS-33-50	240 150FS-33-50	288 150FS-33-50	336 150FS-33-50
0.0	84 150FS-33-50	105 150FS-33-50	126 150FS-33-50	147 150FS-33-50	168 150FS-33-50	210 150FS-33-50	252 150FS-33-50	294 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg (z/h)	Max Pod Aspect Ratio (H/L_i)							
	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	444 HD-1	1175 HD-1	1906 HD-1	2638 HD-1	3369 HD-2	4100 HD-2	4831 HD-3
0.9	0 HD-0	298 HD-1	980 HD-1	1663 HD-1	2345 HD-1	3028 HD-1	3710 HD-2	4393 HD-2
0.8	0 HD-0	151 HD-1	785 HD-1	1419 HD-1	2053 HD-1	2686 HD-1	3320 HD-2	3954 HD-2
0.7	0 HD-0	5 HD-1	590 HD-1	1175 HD-1	1760 HD-1	2345 HD-1	2930 HD-1	3515 HD-2
0.6	0 HD-0	0 HD-0	395 HD-1	931 HD-1	1468 HD-1	2004 HD-1	2540 HD-1	3076 HD-1
0.5	0 HD-0	0 HD-0	200 HD-1	688 HD-1	1175 HD-1	1663 HD-1	2150 HD-1	2638 HD-1
0.4	0 HD-0	0 HD-0	5 HD-1	444 HD-1	883 HD-1	1321 HD-1	1760 HD-1	2199 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	200 HD-1	590 HD-1	980 HD-1	1370 HD-1	1760 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	298 HD-1	639 HD-1	980 HD-1	1321 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	5 HD-1	298 HD-1	590 HD-1	883 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	42 HD-1	298 HD-1	553 HD-1

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TABLE 4.3.204: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.00	Weight	4200 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	252 150FS-33-50	315 150FS-33-50	378 150FS-33-50	441 200FS-33-50	504 200FS-33-50	630 250FS-33-50	756 250FS-33-50	882 300FS-33-50
0.9	235 150FS-33-50	294 150FS-33-50	353 150FS-33-50	412 150FS-33-50	470 200FS-33-50	588 200FS-33-50	706 250FS-33-50	823 300FS-33-50
0.8	218 150FS-33-50	273 150FS-33-50	328 150FS-33-50	382 150FS-33-50	437 150FS-33-50	546 200FS-33-50	655 250FS-33-50	764 250FS-33-50
0.7	202 150FS-33-50	252 150FS-33-50	302 150FS-33-50	353 150FS-33-50	403 150FS-33-50	504 200FS-33-50	605 200FS-33-50	706 250FS-33-50
0.6	185 150FS-33-50	231 150FS-33-50	277 150FS-33-50	323 150FS-33-50	370 150FS-33-50	462 200FS-33-50	554 200FS-33-50	647 250FS-33-50
0.5	168 150FS-33-50	210 150FS-33-50	252 150FS-33-50	294 150FS-33-50	336 150FS-33-50	420 150FS-33-50	504 200FS-33-50	588 200FS-33-50
0.4	151 150FS-33-50	189 150FS-33-50	227 150FS-33-50	265 150FS-33-50	302 150FS-33-50	378 150FS-33-50	454 150FS-33-50	529 200FS-33-50
0.3	134 150FS-33-50	168 150FS-33-50	202 150FS-33-50	235 150FS-33-50	269 150FS-33-50	336 150FS-33-50	403 150FS-33-50	470 150FS-33-50
0.2	118 150FS-33-50	147 150FS-33-50	176 150FS-33-50	206 150FS-33-50	235 150FS-33-50	294 150FS-33-50	353 150FS-33-50	412 150FS-33-50
0.1	101 150FS-33-50	126 150FS-33-50	151 150FS-33-50	176 150FS-33-50	202 150FS-33-50	252 150FS-33-50	302 150FS-33-50	353 150FS-33-50
0.0	88 150FS-33-50	110 150FS-33-50	132 150FS-33-50	154 150FS-33-50	176 150FS-33-50	221 150FS-33-50	265 150FS-33-50	309 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	466 HD-1	1234 HD-1	2002 HD-1	2769 HD-1	3537 HD-2	4305 HD-2	5073 HD-3
0.9	0 HD-0	312 HD-1	1029 HD-1	1746 HD-1	2462 HD-1	3179 HD-2	3896 HD-2	4612 HD-2
0.8	0 HD-0	159 HD-1	824 HD-1	1490 HD-1	2155 HD-1	2821 HD-1	3486 HD-2	4151 HD-2
0.7	0 HD-0	5 HD-1	620 HD-1	1234 HD-1	1848 HD-1	2462 HD-1	3077 HD-1	3691 HD-2
0.6	0 HD-0	0 HD-0	415 HD-1	978 HD-1	1541 HD-1	2104 HD-1	2667 HD-1	3230 HD-2
0.5	0 HD-0	0 HD-0	210 HD-1	722 HD-1	1234 HD-1	1746 HD-1	2258 HD-1	2769 HD-1
0.4	0 HD-0	0 HD-0	5 HD-1	466 HD-1	927 HD-1	1387 HD-1	1848 HD-1	2309 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	210 HD-1	620 HD-1	1029 HD-1	1439 HD-1	1848 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	312 HD-1	671 HD-1	1029 HD-1	1387 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	5 HD-1	312 HD-1	620 HD-1	927 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	44 HD-1	312 HD-1	581 HD-1

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TABLE 4.3.205: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.00	Weight	4400 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	264 150FS-33-50	330 150FS-33-50	396 150FS-33-50	462 200FS-33-50	528 200FS-33-50	660 250FS-33-50	792 300FS-33-50	924 300FS-33-50
0.9	246 150FS-33-50	308 150FS-33-50	370 150FS-33-50	431 200FS-33-50	493 200FS-33-50	616 250FS-33-50	739 250FS-33-50	862 300FS-33-50
0.8	229 150FS-33-50	286 150FS-33-50	343 150FS-33-50	400 150FS-33-50	458 200FS-33-50	572 200FS-33-50	686 250FS-33-50	801 300FS-33-50
0.7	211 150FS-33-50	264 150FS-33-50	317 150FS-33-50	370 150FS-33-50	422 150FS-33-50	528 200FS-33-50	634 250FS-33-50	739 250FS-33-50
0.6	194 150FS-33-50	242 150FS-33-50	290 150FS-33-50	339 150FS-33-50	387 150FS-33-50	484 200FS-33-50	581 200FS-33-50	678 250FS-33-50
0.5	176 150FS-33-50	220 150FS-33-50	264 150FS-33-50	308 150FS-33-50	352 150FS-33-50	440 150FS-33-50	528 200FS-33-50	616 200FS-33-50
0.4	158 150FS-33-50	198 150FS-33-50	238 150FS-33-50	277 150FS-33-50	317 150FS-33-50	396 150FS-33-50	475 200FS-33-50	554 200FS-33-50
0.3	141 150FS-33-50	176 150FS-33-50	211 150FS-33-50	246 150FS-33-50	282 150FS-33-50	352 150FS-33-50	422 150FS-33-50	493 200FS-33-50
0.2	123 150FS-33-50	154 150FS-33-50	185 150FS-33-50	216 150FS-33-50	246 150FS-33-50	308 150FS-33-50	370 150FS-33-50	431 150FS-33-50
0.1	106 150FS-33-50	132 150FS-33-50	158 150FS-33-50	185 150FS-33-50	211 150FS-33-50	264 150FS-33-50	317 150FS-33-50	370 150FS-33-50
0.0	92 150FS-33-50	116 150FS-33-50	139 150FS-33-50	162 150FS-33-50	185 150FS-33-50	231 150FS-33-50	277 150FS-33-50	323 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	488 HD-1	1293 HD-1	2097 HD-1	2901 HD-1	3706 HD-2	4510 HD-2	5314 HD-3
0.9	0 HD-0	327 HD-1	1078 HD-1	1829 HD-1	2580 HD-1	3330 HD-2	4081 HD-2	4832 HD-3
0.8	0 HD-0	166 HD-1	864 HD-1	1561 HD-1	2258 HD-1	2955 HD-1	3652 HD-2	4349 HD-2
0.7	0 HD-0	6 HD-1	649 HD-1	1293 HD-1	1936 HD-1	2580 HD-1	3223 HD-2	3867 HD-2
0.6	0 HD-0	0 HD-0	435 HD-1	1024 HD-1	1614 HD-1	2204 HD-1	2794 HD-1	3384 HD-2
0.5	0 HD-0	0 HD-0	220 HD-1	756 HD-1	1293 HD-1	1829 HD-1	2365 HD-1	2901 HD-1
0.4	0 HD-0	0 HD-0	6 HD-1	488 HD-1	971 HD-1	1453 HD-1	1936 HD-1	2419 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	220 HD-1	649 HD-1	1078 HD-1	1507 HD-1	1936 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	327 HD-1	703 HD-1	1078 HD-1	1453 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	6 HD-1	327 HD-1	649 HD-1	971 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	46 HD-1	327 HD-1	609 HD-1

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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

TABLE 4.3.206: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.00	Weight	4600 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	276	345	414	483	552	690	828	966
	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50
0.9	258	322	386	451	515	644	773	902
	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50
0.8	239	299	359	419	478	598	718	837
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50
0.7	221	276	331	386	442	552	662	773
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50
0.6	202	253	304	354	405	506	607	708
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.5	184	230	276	322	368	460	552	644
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.4	166	207	248	290	331	414	497	580
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50
0.3	147	184	221	258	294	368	442	515
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50
0.2	129	161	193	225	258	322	386	451
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.1	110	138	166	193	221	276	331	386
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.0	97	121	145	169	193	242	290	338
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0	510	1351	2192	3033	3874	4715	5556
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	No Solutions
0.9	0	342	1127	1912	2697	3482	4267	5051
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3
0.8	0	174	903	1632	2360	3089	3818	4547
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.7	0	6	679	1351	2024	2697	3370	4042
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.6	0	0	454	1071	1688	2304	2921	3538
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2
0.5	0	0	230	791	1351	1912	2473	3033
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.4	0	0	6	510	1015	1519	2024	2529
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.3	0	0	0	230	679	1127	1576	2024
	HD-0	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1
0.2	0	0	0	0	342	735	1127	1519
	HD-0	HD-0	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1
0.1	0	0	0	0	6	342	679	1015
	HD-0	HD-0	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1
0.0	0	0	0	0	0	48	342	636
	HD-0	HD-0	HD-0	HD-0	HD-0	HD-1	HD-1	HD-1

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TABLE 4.3.207: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.00	Weight	4800 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	288 150FS-33-50	360 150FS-33-50	432 200FS-33-50	504 200FS-33-50	576 200FS-33-50	720 250FS-33-50	864 300FS-33-50	1008 400FS-33-50
0.9	269 150FS-33-50	336 150FS-33-50	403 150FS-33-50	470 200FS-33-50	538 200FS-33-50	672 250FS-33-50	806 300FS-33-50	941 300FS-33-50
0.8	250 150FS-33-50	312 150FS-33-50	374 150FS-33-50	437 200FS-33-50	499 200FS-33-50	624 250FS-33-50	749 250FS-33-50	874 300FS-33-50
0.7	230 150FS-33-50	288 150FS-33-50	346 150FS-33-50	403 150FS-33-50	461 200FS-33-50	576 200FS-33-50	691 250FS-33-50	806 300FS-33-50
0.6	211 150FS-33-50	264 150FS-33-50	317 150FS-33-50	370 150FS-33-50	422 150FS-33-50	528 200FS-33-50	634 250FS-33-50	739 250FS-33-50
0.5	192 150FS-33-50	240 150FS-33-50	288 150FS-33-50	336 150FS-33-50	384 150FS-33-50	480 200FS-33-50	576 200FS-33-50	672 250FS-33-50
0.4	173 150FS-33-50	216 150FS-33-50	259 150FS-33-50	302 150FS-33-50	346 150FS-33-50	432 150FS-33-50	518 200FS-33-50	605 200FS-33-50
0.3	154 150FS-33-50	192 150FS-33-50	230 150FS-33-50	269 150FS-33-50	307 150FS-33-50	384 150FS-33-50	461 150FS-33-50	538 200FS-33-50
0.2	134 150FS-33-50	168 150FS-33-50	202 150FS-33-50	235 150FS-33-50	269 150FS-33-50	336 150FS-33-50	403 150FS-33-50	470 150FS-33-50
0.1	115 150FS-33-50	144 150FS-33-50	173 150FS-33-50	202 150FS-33-50	230 150FS-33-50	288 150FS-33-50	346 150FS-33-50	403 150FS-33-50
0.0	101 150FS-33-50	126 150FS-33-50	151 150FS-33-50	176 150FS-33-50	202 150FS-33-50	252 150FS-33-50	302 150FS-33-50	353 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_f)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	533 HD-1	1410 HD-1	2288 HD-1	3165 HD-1	4043 HD-2	4920 HD-3	5798 No Solutions
0.9	0 HD-0	357 HD-1	1176 HD-1	1995 HD-1	2814 HD-1	3633 HD-2	4452 HD-2	5271 HD-3
0.8	0 HD-0	182 HD-1	942 HD-1	1703 HD-1	2463 HD-1	3224 HD-2	3984 HD-2	4745 HD-3
0.7	0 HD-0	6 HD-1	708 HD-1	1410 HD-1	2112 HD-1	2814 HD-1	3516 HD-2	4218 HD-2
0.6	0 HD-0	0 HD-0	474 HD-1	1118 HD-1	1761 HD-1	2405 HD-1	3048 HD-1	3692 HD-2
0.5	0 HD-0	0 HD-0	240 HD-1	825 HD-1	1410 HD-1	1995 HD-1	2580 HD-1	3165 HD-1
0.4	0 HD-0	0 HD-0	6 HD-1	533 HD-1	1059 HD-1	1586 HD-1	2112 HD-1	2639 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	240 HD-1	708 HD-1	1176 HD-1	1644 HD-1	2112 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	357 HD-1	767 HD-1	1176 HD-1	1586 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	6 HD-1	357 HD-1	708 HD-1	1059 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	50 HD-1	357 HD-1	664 HD-1

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TABLE 4.3.208: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.00	Weight	5000 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	300 150FS-33-50	375 150FS-33-50	450 200FS-33-50	525 200FS-33-50	600 250FS-33-50	750 250FS-33-50	900 300FS-33-50	1050 400FS-33-50
0.9	280 150FS-33-50	350 150FS-33-50	420 200FS-33-50	490 200FS-33-50	560 200FS-33-50	700 250FS-33-50	840 300FS-33-50	980 400FS-33-50
0.8	260 150FS-33-50	325 150FS-33-50	390 150FS-33-50	455 200FS-33-50	520 200FS-33-50	650 250FS-33-50	780 250FS-33-50	910 300FS-33-50
0.7	240 150FS-33-50	300 150FS-33-50	360 150FS-33-50	420 150FS-33-50	480 200FS-33-50	600 200FS-33-50	720 250FS-33-50	840 300FS-33-50
0.6	220 150FS-33-50	275 150FS-33-50	330 150FS-33-50	385 150FS-33-50	440 150FS-33-50	550 200FS-33-50	660 250FS-33-50	770 250FS-33-50
0.5	200 150FS-33-50	250 150FS-33-50	300 150FS-33-50	350 150FS-33-50	400 150FS-33-50	500 200FS-33-50	600 200FS-33-50	700 250FS-33-50
0.4	180 150FS-33-50	225 150FS-33-50	270 150FS-33-50	315 150FS-33-50	360 150FS-33-50	450 150FS-33-50	540 200FS-33-50	630 200FS-33-50
0.3	160 150FS-33-50	200 150FS-33-50	240 150FS-33-50	280 150FS-33-50	320 150FS-33-50	400 150FS-33-50	480 200FS-33-50	560 200FS-33-50
0.2	140 150FS-33-50	175 150FS-33-50	210 150FS-33-50	245 150FS-33-50	280 150FS-33-50	350 150FS-33-50	420 150FS-33-50	490 200FS-33-50
0.1	120 150FS-33-50	150 150FS-33-50	180 150FS-33-50	210 150FS-33-50	240 150FS-33-50	300 150FS-33-50	360 150FS-33-50	420 150FS-33-50
0.0	105 150FS-33-50	131 150FS-33-50	158 150FS-33-50	184 150FS-33-50	210 150FS-33-50	263 150FS-33-50	315 150FS-33-50	368 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	0 HD-0	555 HD-1	1469 HD-1	2383 HD-1	3297 HD-2	4211 HD-2	5125 HD-3	6039 No Solutions
0.9	0 HD-0	372 HD-1	1225 HD-1	2078 HD-1	2931 HD-1	3784 HD-2	4638 HD-2	5491 HD-3
0.8	0 HD-0	189 HD-1	981 HD-1	1773 HD-1	2566 HD-1	3358 HD-2	4150 HD-2	4942 HD-3
0.7	0 HD-0	6 HD-1	738 HD-1	1469 HD-1	2200 HD-1	2931 HD-1	3663 HD-2	4394 HD-2
0.6	0 HD-0	0 HD-0	494 HD-1	1164 HD-1	1834 HD-1	2505 HD-1	3175 HD-2	3845 HD-2
0.5	0 HD-0	0 HD-0	250 HD-1	859 HD-1	1469 HD-1	2078 HD-1	2688 HD-1	3297 HD-2
0.4	0 HD-0	0 HD-0	6 HD-1	555 HD-1	1103 HD-1	1652 HD-1	2200 HD-1	2748 HD-1
0.3	0 HD-0	0 HD-0	0 HD-0	250 HD-1	738 HD-1	1225 HD-1	1713 HD-1	2200 HD-1
0.2	0 HD-0	0 HD-0	0 HD-0	0 HD-0	372 HD-1	798 HD-1	1225 HD-1	1652 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	0 HD-0	6 HD-1	372 HD-1	738 HD-1	1103 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	0 HD-0	52 HD-1	372 HD-1	692 HD-1

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TABLE 4.3.209: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.30	Weight	2000 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	156 150FS-33-50	195 150FS-33-50	234 150FS-33-50	273 150FS-33-50	312 150FS-33-50	390 150FS-33-50	468 150FS-33-50	546 200FS-33-50
0.9	146 150FS-33-50	182 150FS-33-50	218 150FS-33-50	255 150FS-33-50	291 150FS-33-50	364 150FS-33-50	437 150FS-33-50	510 200FS-33-50
0.8	135 150FS-33-50	169 150FS-33-50	203 150FS-33-50	237 150FS-33-50	270 150FS-33-50	338 150FS-33-50	406 150FS-33-50	473 150FS-33-50
0.7	125 150FS-33-50	156 150FS-33-50	187 150FS-33-50	218 150FS-33-50	250 150FS-33-50	312 150FS-33-50	374 150FS-33-50	437 150FS-33-50
0.6	114 150FS-33-50	143 150FS-33-50	172 150FS-33-50	200 150FS-33-50	229 150FS-33-50	286 150FS-33-50	343 150FS-33-50	400 150FS-33-50
0.5	104 150FS-33-50	130 150FS-33-50	156 150FS-33-50	182 150FS-33-50	208 150FS-33-50	260 150FS-33-50	312 150FS-33-50	364 150FS-33-50
0.4	94 150FS-33-50	117 150FS-33-50	140 150FS-33-50	164 150FS-33-50	187 150FS-33-50	234 150FS-33-50	281 150FS-33-50	328 150FS-33-50
0.3	83 150FS-33-50	104 150FS-33-50	125 150FS-33-50	146 150FS-33-50	166 150FS-33-50	208 150FS-33-50	250 150FS-33-50	291 150FS-33-50
0.2	73 150FS-33-50	91 150FS-33-50	109 150FS-33-50	127 150FS-33-50	146 150FS-33-50	182 150FS-33-50	218 150FS-33-50	255 150FS-33-50
0.1	62 150FS-33-50	78 150FS-33-50	94 150FS-33-50	109 150FS-33-50	125 150FS-33-50	156 150FS-33-50	187 150FS-33-50	218 150FS-33-50
0.0	55 150FS-33-50	68 150FS-33-50	82 150FS-33-50	96 150FS-33-50	109 150FS-33-50	137 150FS-33-50	164 150FS-33-50	191 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	151 HD-1	626 HD-1	1101 HD-1	1577 HD-1	2052 HD-1	2527 HD-1	3003 HD-1	3478 HD-2
0.9	87 HD-1	531 HD-1	975 HD-1	1418 HD-1	1862 HD-1	2305 HD-1	2749 HD-1	3193 HD-2
0.8	24 HD-1	436 HD-1	848 HD-1	1260 HD-1	1672 HD-1	2084 HD-1	2496 HD-1	2907 HD-1
0.7	0 HD-0	341 HD-1	721 HD-1	1101 HD-1	1482 HD-1	1862 HD-1	2242 HD-1	2622 HD-1
0.6	0 HD-0	246 HD-1	594 HD-1	943 HD-1	1291 HD-1	1640 HD-1	1989 HD-1	2337 HD-1
0.5	0 HD-0	151 HD-1	468 HD-1	784 HD-1	1101 HD-1	1418 HD-1	1735 HD-1	2052 HD-1
0.4	0 HD-0	56 HD-1	341 HD-1	626 HD-1	911 HD-1	1196 HD-1	1482 HD-1	1767 HD-1
0.3	0 HD-0	0 HD-0	214 HD-1	468 HD-1	721 HD-1	975 HD-1	1228 HD-1	1482 HD-1
0.2	0 HD-0	0 HD-0	87 HD-1	309 HD-1	531 HD-1	753 HD-1	975 HD-1	1196 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	151 HD-1	341 HD-1	531 HD-1	721 HD-1	911 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	32 HD-1	198 HD-1	365 HD-1	531 HD-1	697 HD-1

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TABLE 4.3.210: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.30	Weight	2200 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	172 150FS-33-50	215 150FS-33-50	257 150FS-33-50	300 150FS-33-50	343 150FS-33-50	429 150FS-33-50	515 200FS-33-50	601 200FS-33-50
0.9	160 150FS-33-50	200 150FS-33-50	240 150FS-33-50	280 150FS-33-50	320 150FS-33-50	400 150FS-33-50	480 200FS-33-50	561 200FS-33-50
0.8	149 150FS-33-50	186 150FS-33-50	223 150FS-33-50	260 150FS-33-50	297 150FS-33-50	372 150FS-33-50	446 150FS-33-50	521 200FS-33-50
0.7	137 150FS-33-50	172 150FS-33-50	206 150FS-33-50	240 150FS-33-50	275 150FS-33-50	343 150FS-33-50	412 150FS-33-50	480 200FS-33-50
0.6	126 150FS-33-50	157 150FS-33-50	189 150FS-33-50	220 150FS-33-50	252 150FS-33-50	315 150FS-33-50	378 150FS-33-50	440 150FS-33-50
0.5	114 150FS-33-50	143 150FS-33-50	172 150FS-33-50	200 150FS-33-50	229 150FS-33-50	286 150FS-33-50	343 150FS-33-50	400 150FS-33-50
0.4	103 150FS-33-50	129 150FS-33-50	154 150FS-33-50	180 150FS-33-50	206 150FS-33-50	257 150FS-33-50	309 150FS-33-50	360 150FS-33-50
0.3	92 150FS-33-50	114 150FS-33-50	137 150FS-33-50	160 150FS-33-50	183 150FS-33-50	229 150FS-33-50	275 150FS-33-50	320 150FS-33-50
0.2	80 150FS-33-50	100 150FS-33-50	120 150FS-33-50	140 150FS-33-50	160 150FS-33-50	200 150FS-33-50	240 150FS-33-50	280 150FS-33-50
0.1	69 150FS-33-50	86 150FS-33-50	103 150FS-33-50	120 150FS-33-50	137 150FS-33-50	172 150FS-33-50	206 150FS-33-50	240 150FS-33-50
0.0	60 150FS-33-50	75 150FS-33-50	90 150FS-33-50	105 150FS-33-50	120 150FS-33-50	150 150FS-33-50	180 150FS-33-50	210 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	166 HD-1	689 HD-1	1211 HD-1	1734 HD-1	2257 HD-1	2780 HD-1	3303 HD-2	3826 HD-2
0.9	96 HD-1	584 HD-1	1072 HD-1	1560 HD-1	2048 HD-1	2536 HD-1	3024 HD-1	3512 HD-2
0.8	26 HD-1	479 HD-1	933 HD-1	1386 HD-1	1839 HD-1	2292 HD-1	2745 HD-1	3198 HD-2
0.7	0 HD-0	375 HD-1	793 HD-1	1211 HD-1	1630 HD-1	2048 HD-1	2466 HD-1	2884 HD-1
0.6	0 HD-0	270 HD-1	654 HD-1	1037 HD-1	1421 HD-1	1804 HD-1	2187 HD-1	2571 HD-1
0.5	0 HD-0	166 HD-1	514 HD-1	863 HD-1	1211 HD-1	1560 HD-1	1909 HD-1	2257 HD-1
0.4	0 HD-0	61 HD-1	375 HD-1	689 HD-1	1002 HD-1	1316 HD-1	1630 HD-1	1943 HD-1
0.3	0 HD-0	0 HD-0	235 HD-1	514 HD-1	793 HD-1	1072 HD-1	1351 HD-1	1630 HD-1
0.2	0 HD-0	0 HD-0	96 HD-1	340 HD-1	584 HD-1	828 HD-1	1072 HD-1	1316 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	166 HD-1	375 HD-1	584 HD-1	793 HD-1	1002 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	35 HD-1	218 HD-1	401 HD-1	584 HD-1	767 HD-1

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TABLE 4.3.211: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.30	Weight	2400 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	187	234	281	328	374	468	562	655
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.9	175	218	262	306	349	437	524	612
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50
0.8	162	203	243	284	324	406	487	568
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50
0.7	150	187	225	262	300	374	449	524
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50
0.6	137	172	206	240	275	343	412	480
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50
0.5	125	156	187	218	250	312	374	437
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.4	112	140	168	197	225	281	337	393
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.3	100	125	150	175	200	250	300	349
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.2	87	109	131	153	175	218	262	306
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.1	75	94	112	131	150	187	225	262
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.0	66	82	98	115	131	164	197	229
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	181	751	1322	1892	2462	3033	3603	4173
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.9	105	637	1169	1702	2234	2766	3299	3831
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.8	29	523	1017	1512	2006	2500	2995	3489
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2
0.7	0	409	865	1322	1778	2234	2690	3147
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.6	0	295	713	1131	1550	1968	2386	2804
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.5	0	181	561	941	1322	1702	2082	2462
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.4	0	67	409	751	1093	1436	1778	2120
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.3	0	0	257	561	865	1169	1474	1778
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.2	0	0	105	371	637	903	1169	1436
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.1	0	0	0	181	409	637	865	1093
	HD-0	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1
0.0	0	0	0	38	238	437	637	837
	HD-0	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1

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TABLE 4.3.212: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.30	Weight	2600 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	203 150FS-33-50	254 150FS-33-50	304 150FS-33-50	355 150FS-33-50	406 150FS-33-50	507 200FS-33-50	608 200FS-33-50	710 250FS-33-50
0.9	189 150FS-33-50	237 150FS-33-50	284 150FS-33-50	331 150FS-33-50	379 150FS-33-50	473 200FS-33-50	568 200FS-33-50	662 250FS-33-50
0.8	176 150FS-33-50	220 150FS-33-50	264 150FS-33-50	308 150FS-33-50	352 150FS-33-50	439 150FS-33-50	527 200FS-33-50	615 200FS-33-50
0.7	162 150FS-33-50	203 150FS-33-50	243 150FS-33-50	284 150FS-33-50	324 150FS-33-50	406 150FS-33-50	487 200FS-33-50	568 200FS-33-50
0.6	149 150FS-33-50	186 150FS-33-50	223 150FS-33-50	260 150FS-33-50	297 150FS-33-50	372 150FS-33-50	446 150FS-33-50	521 200FS-33-50
0.5	135 150FS-33-50	169 150FS-33-50	203 150FS-33-50	237 150FS-33-50	270 150FS-33-50	338 150FS-33-50	406 150FS-33-50	473 150FS-33-50
0.4	122 150FS-33-50	152 150FS-33-50	183 150FS-33-50	213 150FS-33-50	243 150FS-33-50	304 150FS-33-50	365 150FS-33-50	426 150FS-33-50
0.3	108 150FS-33-50	135 150FS-33-50	162 150FS-33-50	189 150FS-33-50	216 150FS-33-50	270 150FS-33-50	324 150FS-33-50	379 150FS-33-50
0.2	95 150FS-33-50	118 150FS-33-50	142 150FS-33-50	166 150FS-33-50	189 150FS-33-50	237 150FS-33-50	284 150FS-33-50	331 150FS-33-50
0.1	81 150FS-33-50	101 150FS-33-50	122 150FS-33-50	142 150FS-33-50	162 150FS-33-50	203 150FS-33-50	243 150FS-33-50	284 150FS-33-50
0.0	71 150FS-33-50	89 150FS-33-50	106 150FS-33-50	124 150FS-33-50	142 150FS-33-50	177 150FS-33-50	213 150FS-33-50	248 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_f)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	196 HD-1	814 HD-1	1432 HD-1	2050 HD-1	2667 HD-1	3285 HD-2	3903 HD-2	4521 HD-2
0.9	113 HD-1	690 HD-1	1267 HD-1	1844 HD-1	2420 HD-1	2997 HD-1	3574 HD-2	4150 HD-2
0.8	31 HD-1	567 HD-1	1102 HD-1	1638 HD-1	2173 HD-1	2709 HD-1	3244 HD-2	3780 HD-2
0.7	0 HD-0	443 HD-1	937 HD-1	1432 HD-1	1926 HD-1	2420 HD-1	2915 HD-1	3409 HD-2
0.6	0 HD-0	319 HD-1	773 HD-1	1226 HD-1	1679 HD-1	2132 HD-1	2585 HD-1	3038 HD-1
0.5	0 HD-0	196 HD-1	608 HD-1	1020 HD-1	1432 HD-1	1844 HD-1	2256 HD-1	2667 HD-1
0.4	0 HD-0	72 HD-1	443 HD-1	814 HD-1	1184 HD-1	1555 HD-1	1926 HD-1	2297 HD-1
0.3	0 HD-0	0 HD-0	278 HD-1	608 HD-1	937 HD-1	1267 HD-1	1596 HD-1	1926 HD-1
0.2	0 HD-0	0 HD-0	113 HD-1	402 HD-1	690 HD-1	978 HD-1	1267 HD-1	1555 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	196 HD-1	443 HD-1	690 HD-1	937 HD-1	1184 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	41 HD-1	258 HD-1	474 HD-1	690 HD-1	906 HD-1

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TABLE 4.3.213: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.30	Weight	2800 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	218	273	328	382	437	546	655	764
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50
0.9	204	255	306	357	408	510	612	713
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.8	189	237	284	331	379	473	568	662
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.7	175	218	262	306	349	437	524	612
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50
0.6	160	200	240	280	320	400	480	561
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50
0.5	146	182	218	255	291	364	437	510
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50
0.4	131	164	197	229	262	328	393	459
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.3	116	146	175	204	233	291	349	408
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.2	102	127	153	178	204	255	306	357
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.1	87	109	131	153	175	218	262	306
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.0	76	96	115	134	153	191	229	268
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	211	876	1542	2207	2873	3538	4204	4869
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3
0.9	122	743	1364	1985	2606	3228	3849	4470
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-2
0.8	33	610	1187	1764	2340	2917	3494	4070
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.7	0	477	1009	1542	2074	2606	3139	3671
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2
0.6	0	344	832	1320	1808	2296	2784	3272
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2
0.5	0	211	655	1098	1542	1985	2429	2873
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.4	0	78	477	876	1276	1675	2074	2473
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.3	0	0	300	655	1009	1364	1719	2074
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.2	0	0	122	433	743	1054	1364	1675
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.1	0	0	0	211	477	743	1009	1276
	HD-0	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1
0.0	0	0	0	45	277	510	743	976
	HD-0	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1

HCAi PCS-0003 BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE

TABLE 4.3.214: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.30	Weight	3000 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	234	293	351	410	468	585	702	819
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50
0.9	218	273	328	382	437	546	655	764
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50
0.8	203	254	304	355	406	507	608	710
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.7	187	234	281	328	374	468	562	655
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.6	172	215	257	300	343	429	515	601
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50
0.5	156	195	234	273	312	390	468	546
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50
0.4	140	176	211	246	281	351	421	491
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50
0.3	125	156	187	218	250	312	374	437
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.2	109	137	164	191	218	273	328	382
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.1	94	117	140	164	187	234	281	328
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.0	82	102	123	143	164	205	246	287
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	226	939	1652	2365	3078	3791	4504	5217
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3
0.9	131	796	1462	2127	2793	3458	4124	4789
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3
0.8	36	654	1272	1890	2507	3125	3743	4361
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.7	0	511	1082	1652	2222	2793	3363	3933
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.6	0	369	891	1414	1937	2460	2983	3506
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2
0.5	0	226	701	1177	1652	2127	2603	3078
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.4	0	83	511	939	1367	1794	2222	2650
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.3	0	0	321	701	1082	1462	1842	2222
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.2	0	0	131	464	796	1129	1462	1794
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.1	0	0	0	226	511	796	1082	1367
	HD-0	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1
0.0	0	0	0	48	297	547	796	1046
	HD-0	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1

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TABLE 4.3.215: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.30	Weight	3200 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	250	312	374	437	499	624	749	874
	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50
0.9	233	291	349	408	466	582	699	815
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50
0.8	216	270	324	379	433	541	649	757
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50
0.7	200	250	300	349	399	499	599	699
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.6	183	229	275	320	366	458	549	641
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	250FS-33-50
0.5	166	208	250	291	333	416	499	582
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50
0.4	150	187	225	262	300	374	449	524
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50
0.3	133	166	200	233	266	333	399	466
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.2	116	146	175	204	233	291	349	408
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.1	100	125	150	175	200	250	300	349
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.0	87	109	131	153	175	218	262	306
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	241	1002	1762	2523	3283	4044	4804	5565
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions
0.9	140	849	1559	2269	2979	3689	4398	5108
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3
0.8	38	697	1356	2016	2675	3334	3993	4652
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-2
0.7	0	545	1154	1762	2370	2979	3587	4196
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.6	0	393	951	1509	2066	2624	3182	3739
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.5	0	241	748	1255	1762	2269	2776	3283
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2
0.4	0	89	545	1002	1458	1914	2370	2827
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.3	0	0	342	748	1154	1559	1965	2370
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.2	0	0	140	495	849	1204	1559	1914
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.1	0	0	0	241	545	849	1154	1458
	HD-0	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1
0.0	0	0	0	51	317	583	849	1116
	HD-0	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1

ENGINEERED FOR CODE COMPLIANCE HCAi PCS-0003 BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE 2019

TABLE 4.3.216: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.30	Weight	3400 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	265 150FS-33-50	332 150FS-33-50	398 150FS-33-50	464 200FS-33-50	530 200FS-33-50	663 250FS-33-50	796 300FS-33-50	928 300FS-33-50
0.9	248 150FS-33-50	309 150FS-33-50	371 150FS-33-50	433 200FS-33-50	495 200FS-33-50	619 250FS-33-50	743 250FS-33-50	866 300FS-33-50
0.8	230 150FS-33-50	287 150FS-33-50	345 150FS-33-50	402 150FS-33-50	460 200FS-33-50	575 200FS-33-50	690 250FS-33-50	804 300FS-33-50
0.7	212 150FS-33-50	265 150FS-33-50	318 150FS-33-50	371 150FS-33-50	424 150FS-33-50	530 200FS-33-50	636 250FS-33-50	743 250FS-33-50
0.6	194 150FS-33-50	243 150FS-33-50	292 150FS-33-50	340 150FS-33-50	389 150FS-33-50	486 200FS-33-50	583 200FS-33-50	681 250FS-33-50
0.5	177 150FS-33-50	221 150FS-33-50	265 150FS-33-50	309 150FS-33-50	354 150FS-33-50	442 150FS-33-50	530 200FS-33-50	619 200FS-33-50
0.4	159 150FS-33-50	199 150FS-33-50	239 150FS-33-50	278 150FS-33-50	318 150FS-33-50	398 150FS-33-50	477 200FS-33-50	557 200FS-33-50
0.3	141 150FS-33-50	177 150FS-33-50	212 150FS-33-50	248 150FS-33-50	283 150FS-33-50	354 150FS-33-50	424 150FS-33-50	495 200FS-33-50
0.2	124 150FS-33-50	155 150FS-33-50	186 150FS-33-50	217 150FS-33-50	248 150FS-33-50	309 150FS-33-50	371 150FS-33-50	433 150FS-33-50
0.1	106 150FS-33-50	133 150FS-33-50	159 150FS-33-50	186 150FS-33-50	212 150FS-33-50	265 150FS-33-50	318 150FS-33-50	371 150FS-33-50
0.0	93 150FS-33-50	116 150FS-33-50	139 150FS-33-50	162 150FS-33-50	186 150FS-33-50	232 150FS-33-50	278 150FS-33-50	325 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	256 HD-1	1064 HD-1	1872 HD-1	2680 HD-1	3488 HD-2	4296 HD-2	5104 HD-3	5912 No Solutions
0.9	148 HD-1	902 HD-1	1657 HD-1	2411 HD-1	3165 HD-1	3919 HD-2	4673 HD-2	5427 HD-3
0.8	41 HD-1	741 HD-1	1441 HD-1	2141 HD-1	2842 HD-1	3542 HD-2	4242 HD-2	4943 HD-3
0.7	0 HD-0	579 HD-1	1226 HD-1	1872 HD-1	2519 HD-1	3165 HD-1	3811 HD-2	4458 HD-2
0.6	0 HD-0	418 HD-1	1010 HD-1	1603 HD-1	2195 HD-1	2788 HD-1	3380 HD-2	3973 HD-2
0.5	0 HD-0	256 HD-1	795 HD-1	1333 HD-1	1872 HD-1	2411 HD-1	2950 HD-1	3488 HD-2
0.4	0 HD-0	94 HD-1	579 HD-1	1064 HD-1	1549 HD-1	2034 HD-1	2519 HD-1	3003 HD-1
0.3	0 HD-0	0 HD-0	364 HD-1	795 HD-1	1226 HD-1	1657 HD-1	2088 HD-1	2519 HD-1
0.2	0 HD-0	0 HD-0	148 HD-1	525 HD-1	902 HD-1	1280 HD-1	1657 HD-1	2034 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	256 HD-1	579 HD-1	902 HD-1	1226 HD-1	1549 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	54 HD-1	337 HD-1	620 HD-1	902 HD-1	1185 HD-1

HCAI PCS-0003 BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE

TABLE 4.3.217: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.30	Weight	3600 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	281 150FS-33-50	351 150FS-33-50	421 200FS-33-50	491 200FS-33-50	562 200FS-33-50	702 250FS-33-50	842 300FS-33-50	983 400FS-33-50
0.9	262 150FS-33-50	328 150FS-33-50	393 150FS-33-50	459 200FS-33-50	524 200FS-33-50	655 250FS-33-50	786 300FS-33-50	917 300FS-33-50
0.8	243 150FS-33-50	304 150FS-33-50	365 150FS-33-50	426 150FS-33-50	487 200FS-33-50	608 200FS-33-50	730 250FS-33-50	852 300FS-33-50
0.7	225 150FS-33-50	281 150FS-33-50	337 150FS-33-50	393 150FS-33-50	449 200FS-33-50	562 200FS-33-50	674 250FS-33-50	786 250FS-33-50
0.6	206 150FS-33-50	257 150FS-33-50	309 150FS-33-50	360 150FS-33-50	412 150FS-33-50	515 200FS-33-50	618 200FS-33-50	721 250FS-33-50
0.5	187 150FS-33-50	234 150FS-33-50	281 150FS-33-50	328 150FS-33-50	374 150FS-33-50	468 200FS-33-50	562 200FS-33-50	655 250FS-33-50
0.4	168 150FS-33-50	211 150FS-33-50	253 150FS-33-50	295 150FS-33-50	337 150FS-33-50	421 150FS-33-50	505 200FS-33-50	590 200FS-33-50
0.3	150 150FS-33-50	187 150FS-33-50	225 150FS-33-50	262 150FS-33-50	300 150FS-33-50	374 150FS-33-50	449 150FS-33-50	524 200FS-33-50
0.2	131 150FS-33-50	164 150FS-33-50	197 150FS-33-50	229 150FS-33-50	262 150FS-33-50	328 150FS-33-50	393 150FS-33-50	459 150FS-33-50
0.1	112 150FS-33-50	140 150FS-33-50	168 150FS-33-50	197 150FS-33-50	225 150FS-33-50	281 150FS-33-50	337 150FS-33-50	393 150FS-33-50
0.0	98 150FS-33-50	123 150FS-33-50	147 150FS-33-50	172 150FS-33-50	197 150FS-33-50	246 150FS-33-50	295 150FS-33-50	344 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	271 HD-1	1127 HD-1	1982 HD-1	2838 HD-1	3693 HD-2	4549 HD-2	5405 HD-3	6260 No Solutions
0.9	157 HD-1	956 HD-1	1754 HD-1	2553 HD-1	3351 HD-2	4150 HD-2	4948 HD-3	5747 No Solutions
0.8	43 HD-1	784 HD-1	1526 HD-1	2267 HD-1	3009 HD-1	3750 HD-2	4492 HD-2	5233 HD-3
0.7	0 HD-0	613 HD-1	1298 HD-1	1982 HD-1	2667 HD-1	3351 HD-2	4036 HD-2	4720 HD-2
0.6	0 HD-0	442 HD-1	1070 HD-1	1697 HD-1	2324 HD-1	2952 HD-1	3579 HD-2	4207 HD-2
0.5	0 HD-0	271 HD-1	842 HD-1	1412 HD-1	1982 HD-1	2553 HD-1	3123 HD-1	3693 HD-2
0.4	0 HD-0	100 HD-1	613 HD-1	1127 HD-1	1640 HD-1	2153 HD-1	2667 HD-1	3180 HD-2
0.3	0 HD-0	0 HD-0	385 HD-1	842 HD-1	1298 HD-1	1754 HD-1	2210 HD-1	2667 HD-1
0.2	0 HD-0	0 HD-0	157 HD-1	556 HD-1	956 HD-1	1355 HD-1	1754 HD-1	2153 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	271 HD-1	613 HD-1	956 HD-1	1298 HD-1	1640 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	57 HD-1	357 HD-1	656 HD-1	956 HD-1	1255 HD-1

ENGINEER OF CODE COMPLIANCE HCAi PCS-0003 BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE

TABLE 4.3.218: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.30	Weight	3800 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg (z/h)	Wall Aspect Ratio (H/L)							
	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	296	371	445	519	593	741	889	1037
	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50
0.9	277	346	415	484	553	692	830	968
	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50
0.8	257	321	385	450	514	642	771	899
	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50
0.7	237	296	356	415	474	593	711	830
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50
0.6	217	272	326	380	435	543	652	761
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50
0.5	198	247	296	346	395	494	593	692
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.4	178	222	267	311	356	445	534	622
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50
0.3	158	198	237	277	316	395	474	553
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50
0.2	138	173	207	242	277	346	415	484
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50
0.1	119	148	178	207	237	296	356	415
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.0	104	130	156	182	207	259	311	363
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg (z/h)	Max Pod Aspect Ratio (H/L_i)							
	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	286	1189	2092	2995	3899	4802	5705	6608
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-3	No Solutions	No Solutions
0.9	166	1009	1852	2694	3537	4380	5223	6066
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions
0.8	45	828	1611	2393	3176	3959	4741	5524
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions
0.7	0	647	1370	2092	2815	3537	4260	4982
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3
0.6	0	467	1129	1791	2454	3116	3778	4440
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.5	0	286	888	1490	2092	2694	3297	3899
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.4	0	106	647	1189	1731	2273	2815	3357
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2
0.3	0	0	407	888	1370	1852	2333	2815
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.2	0	0	166	587	1009	1430	1852	2273
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.1	0	0	0	286	647	1009	1370	1731
	HD-0	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1
0.0	0	0	0	60	376	693	1009	1325
	HD-0	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1

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TABLE 4.3.219: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.30	Weight	4000 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	312 150FS-33-50	390 200FS-33-50	468 200FS-33-50	546 200FS-33-50	624 250FS-33-50	780 300FS-33-50	936 300FS-33-50	1092 400FS-33-50
0.9	291 150FS-33-50	364 150FS-33-50	437 200FS-33-50	510 200FS-33-50	582 200FS-33-50	728 250FS-33-50	874 300FS-33-50	1019 400FS-33-50
0.8	270 150FS-33-50	338 150FS-33-50	406 150FS-33-50	473 200FS-33-50	541 200FS-33-50	676 250FS-33-50	811 300FS-33-50	946 300FS-33-50
0.7	250 150FS-33-50	312 150FS-33-50	374 150FS-33-50	437 200FS-33-50	499 200FS-33-50	624 250FS-33-50	749 250FS-33-50	874 300FS-33-50
0.6	229 150FS-33-50	286 150FS-33-50	343 150FS-33-50	400 150FS-33-50	458 200FS-33-50	572 200FS-33-50	686 250FS-33-50	801 300FS-33-50
0.5	208 150FS-33-50	260 150FS-33-50	312 150FS-33-50	364 150FS-33-50	416 150FS-33-50	520 200FS-33-50	624 200FS-33-50	728 250FS-33-50
0.4	187 150FS-33-50	234 150FS-33-50	281 150FS-33-50	328 150FS-33-50	374 150FS-33-50	468 200FS-33-50	562 200FS-33-50	655 250FS-33-50
0.3	166 150FS-33-50	208 150FS-33-50	250 150FS-33-50	291 150FS-33-50	333 150FS-33-50	416 150FS-33-50	499 200FS-33-50	582 200FS-33-50
0.2	146 150FS-33-50	182 150FS-33-50	218 150FS-33-50	255 150FS-33-50	291 150FS-33-50	364 150FS-33-50	437 150FS-33-50	510 200FS-33-50
0.1	125 150FS-33-50	156 150FS-33-50	187 150FS-33-50	218 150FS-33-50	250 150FS-33-50	312 150FS-33-50	374 150FS-33-50	437 150FS-33-50
0.0	109 150FS-33-50	137 150FS-33-50	164 150FS-33-50	191 150FS-33-50	218 150FS-33-50	273 150FS-33-50	328 150FS-33-50	382 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	301 HD-1	1252 HD-1	2203 HD-1	3153 HD-1	4104 HD-2	5054 HD-3	6005 No Solutions	6956 No Solutions
0.9	175 HD-1	1062 HD-1	1949 HD-1	2836 HD-1	3724 HD-2	4611 HD-2	5498 HD-3	6385 No Solutions
0.8	48 HD-1	872 HD-1	1696 HD-1	2519 HD-1	3343 HD-2	4167 HD-2	4991 HD-3	5815 No Solutions
0.7	0 HD-0	682 HD-1	1442 HD-1	2203 HD-1	2963 HD-1	3724 HD-2	4484 HD-2	5245 HD-3
0.6	0 HD-0	491 HD-1	1189 HD-1	1886 HD-1	2583 HD-1	3280 HD-2	3977 HD-2	4674 HD-2
0.5	0 HD-0	301 HD-1	935 HD-1	1569 HD-1	2203 HD-1	2836 HD-1	3470 HD-2	4104 HD-2
0.4	0 HD-0	111 HD-1	682 HD-1	1252 HD-1	1822 HD-1	2393 HD-1	2963 HD-1	3533 HD-2
0.3	0 HD-0	0 HD-0	428 HD-1	935 HD-1	1442 HD-1	1949 HD-1	2456 HD-1	2963 HD-1
0.2	0 HD-0	0 HD-0	175 HD-1	618 HD-1	1062 HD-1	1505 HD-1	1949 HD-1	2393 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	301 HD-1	682 HD-1	1062 HD-1	1442 HD-1	1822 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	64 HD-1	396 HD-1	729 HD-1	1062 HD-1	1394 HD-1

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TABLE 4.3.220: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.30	Weight	4200 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	328 150FS-33-50	410 200FS-33-50	491 200FS-33-50	573 250FS-33-50	655 250FS-33-50	819 300FS-33-50	983 400FS-33-50	1147 400FS-33-50
0.9	306 150FS-33-50	382 150FS-33-50	459 200FS-33-50	535 200FS-33-50	612 250FS-33-50	764 300FS-33-50	917 300FS-33-50	1070 400FS-33-50
0.8	284 150FS-33-50	355 150FS-33-50	426 200FS-33-50	497 200FS-33-50	568 200FS-33-50	710 250FS-33-50	852 300FS-33-50	994 400FS-33-50
0.7	262 150FS-33-50	328 150FS-33-50	393 150FS-33-50	459 200FS-33-50	524 200FS-33-50	655 250FS-33-50	786 300FS-33-50	917 300FS-33-50
0.6	240 150FS-33-50	300 150FS-33-50	360 150FS-33-50	420 150FS-33-50	480 200FS-33-50	601 200FS-33-50	721 250FS-33-50	841 300FS-33-50
0.5	218 150FS-33-50	273 150FS-33-50	328 150FS-33-50	382 150FS-33-50	437 150FS-33-50	546 200FS-33-50	655 250FS-33-50	764 250FS-33-50
0.4	197 150FS-33-50	246 150FS-33-50	295 150FS-33-50	344 150FS-33-50	393 150FS-33-50	491 200FS-33-50	590 200FS-33-50	688 250FS-33-50
0.3	175 150FS-33-50	218 150FS-33-50	262 150FS-33-50	306 150FS-33-50	349 150FS-33-50	437 150FS-33-50	524 200FS-33-50	612 200FS-33-50
0.2	153 150FS-33-50	191 150FS-33-50	229 150FS-33-50	268 150FS-33-50	306 150FS-33-50	382 150FS-33-50	459 150FS-33-50	535 200FS-33-50
0.1	131 150FS-33-50	164 150FS-33-50	197 150FS-33-50	229 150FS-33-50	262 150FS-33-50	328 150FS-33-50	393 150FS-33-50	459 150FS-33-50
0.0	115 150FS-33-50	143 150FS-33-50	172 150FS-33-50	201 150FS-33-50	229 150FS-33-50	287 150FS-33-50	344 150FS-33-50	401 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	316 HD-1	1314 HD-1	2313 HD-1	3311 HD-2	4309 HD-2	5307 HD-3	6305 No Solutions	7303 No Solutions
0.9	183 HD-1	1115 HD-1	2046 HD-1	2978 HD-1	3910 HD-2	4841 HD-3	5773 No Solutions	6705 No Solutions
0.8	50 HD-1	915 HD-1	1780 HD-1	2645 HD-1	3510 HD-2	4375 HD-2	5241 HD-3	6106 No Solutions
0.7	0 HD-0	716 HD-1	1514 HD-1	2313 HD-1	3111 HD-1	3910 HD-2	4708 HD-2	5507 No Solutions
0.6	0 HD-0	516 HD-1	1248 HD-1	1980 HD-1	2712 HD-1	3444 HD-2	4176 HD-2	4908 HD-3
0.5	0 HD-0	316 HD-1	982 HD-1	1647 HD-1	2313 HD-1	2978 HD-1	3644 HD-2	4309 HD-2
0.4	0 HD-0	117 HD-1	716 HD-1	1314 HD-1	1913 HD-1	2512 HD-1	3111 HD-1	3710 HD-2
0.3	0 HD-0	0 HD-0	449 HD-1	982 HD-1	1514 HD-1	2046 HD-1	2579 HD-1	3111 HD-1
0.2	0 HD-0	0 HD-0	183 HD-1	649 HD-1	1115 HD-1	1581 HD-1	2046 HD-1	2512 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	316 HD-1	716 HD-1	1115 HD-1	1514 HD-1	1913 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	67 HD-1	416 HD-1	765 HD-1	1115 HD-1	1464 HD-1

ENGINEER OF RECORD CERTIFICATION
HCAI PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE

TABLE 4.3.221: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.30	Weight	4400 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg (z/h)	Wall Aspect Ratio (H/L)							
	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	343 150FS-33-50	429 200FS-33-50	515 200FS-33-50	601 250FS-33-50	686 250FS-33-50	858 300FS-33-50	1030 400FS-33-50	1201 400FS-33-50
0.9	320 150FS-33-50	400 200FS-33-50	480 200FS-33-50	561 200FS-33-50	641 250FS-33-50	801 300FS-33-50	961 400FS-33-50	1121 400FS-33-50
0.8	297 150FS-33-50	372 150FS-33-50	446 200FS-33-50	521 200FS-33-50	595 250FS-33-50	744 250FS-33-50	892 300FS-33-50	1041 400FS-33-50
0.7	275 150FS-33-50	343 150FS-33-50	412 200FS-33-50	480 200FS-33-50	549 200FS-33-50	686 250FS-33-50	824 300FS-33-50	961 400FS-33-50
0.6	252 150FS-33-50	315 150FS-33-50	378 150FS-33-50	440 200FS-33-50	503 200FS-33-50	629 250FS-33-50	755 250FS-33-50	881 300FS-33-50
0.5	229 150FS-33-50	286 150FS-33-50	343 150FS-33-50	400 150FS-33-50	458 200FS-33-50	572 200FS-33-50	686 250FS-33-50	801 300FS-33-50
0.4	206 150FS-33-50	257 150FS-33-50	309 150FS-33-50	360 150FS-33-50	412 150FS-33-50	515 200FS-33-50	618 200FS-33-50	721 250FS-33-50
0.3	183 150FS-33-50	229 150FS-33-50	275 150FS-33-50	320 150FS-33-50	366 150FS-33-50	458 150FS-33-50	549 200FS-33-50	641 250FS-33-50
0.2	160 150FS-33-50	200 150FS-33-50	240 150FS-33-50	280 150FS-33-50	320 150FS-33-50	400 150FS-33-50	480 200FS-33-50	561 200FS-33-50
0.1	137 150FS-33-50	172 150FS-33-50	206 150FS-33-50	240 150FS-33-50	275 150FS-33-50	343 150FS-33-50	412 150FS-33-50	480 200FS-33-50
0.0	120 150FS-33-50	150 150FS-33-50	180 150FS-33-50	210 150FS-33-50	240 150FS-33-50	300 150FS-33-50	360 150FS-33-50	420 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg (z/h)	Max Pod Aspect Ratio (H/L_i)							
	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	331 HD-1	1377 HD-1	2423 HD-1	3468 HD-2	4514 HD-2	5560 No Solutions	6606 No Solutions	7651 No Solutions
0.9	192 HD-1	1168 HD-1	2144 HD-1	3120 HD-1	4096 HD-2	5072 HD-3	6048 No Solutions	7024 No Solutions
0.8	53 HD-1	959 HD-1	1865 HD-1	2771 HD-1	3678 HD-2	4584 HD-2	5490 HD-3	6396 No Solutions
0.7	0 HD-0	750 HD-1	1586 HD-1	2423 HD-1	3259 HD-2	4096 HD-2	4932 HD-3	5769 No Solutions
0.6	0 HD-0	541 HD-1	1307 HD-1	2074 HD-1	2841 HD-1	3608 HD-2	4375 HD-2	5142 HD-3
0.5	0 HD-0	331 HD-1	1029 HD-1	1726 HD-1	2423 HD-1	3120 HD-1	3817 HD-2	4514 HD-2
0.4	0 HD-0	122 HD-1	750 HD-1	1377 HD-1	2004 HD-1	2632 HD-1	3259 HD-2	3887 HD-2
0.3	0 HD-0	0 HD-0	471 HD-1	1029 HD-1	1586 HD-1	2144 HD-1	2702 HD-1	3259 HD-2
0.2	0 HD-0	0 HD-0	192 HD-1	680 HD-1	1168 HD-1	1656 HD-1	2144 HD-1	2632 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	331 HD-1	750 HD-1	1168 HD-1	1586 HD-1	2004 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	70 HD-1	436 HD-1	802 HD-1	1168 HD-1	1534 HD-1

ENGINEERED FOR CODE COMPLIANCE HCAi PCS-0003 BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE

TABLE 4.3.222: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.30	Weight	4600 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	359 200FS-33-50	449 200FS-33-50	538 200FS-33-50	628 250FS-33-50	718 250FS-33-50	897 300FS-33-50	1076 400FS-33-50	1256 400FS-33-50
0.9	335 150FS-33-50	419 200FS-33-50	502 200FS-33-50	586 250FS-33-50	670 250FS-33-50	837 300FS-33-50	1005 400FS-33-50	1172 400FS-33-50
0.8	311 150FS-33-50	389 200FS-33-50	466 200FS-33-50	544 200FS-33-50	622 250FS-33-50	777 300FS-33-50	933 300FS-33-50	1088 400FS-33-50
0.7	287 150FS-33-50	359 150FS-33-50	431 200FS-33-50	502 200FS-33-50	574 200FS-33-50	718 250FS-33-50	861 300FS-33-50	1005 400FS-33-50
0.6	263 150FS-33-50	329 150FS-33-50	395 150FS-33-50	460 200FS-33-50	526 200FS-33-50	658 250FS-33-50	789 300FS-33-50	921 300FS-33-50
0.5	239 150FS-33-50	299 150FS-33-50	359 150FS-33-50	419 150FS-33-50	478 200FS-33-50	598 200FS-33-50	718 250FS-33-50	837 300FS-33-50
0.4	215 150FS-33-50	269 150FS-33-50	323 150FS-33-50	377 150FS-33-50	431 150FS-33-50	538 200FS-33-50	646 250FS-33-50	753 250FS-33-50
0.3	191 150FS-33-50	239 150FS-33-50	287 150FS-33-50	335 150FS-33-50	383 150FS-33-50	478 200FS-33-50	574 200FS-33-50	670 250FS-33-50
0.2	167 150FS-33-50	209 150FS-33-50	251 150FS-33-50	293 150FS-33-50	335 150FS-33-50	419 150FS-33-50	502 200FS-33-50	586 200FS-33-50
0.1	144 150FS-33-50	179 150FS-33-50	215 150FS-33-50	251 150FS-33-50	287 150FS-33-50	359 150FS-33-50	431 150FS-33-50	502 200FS-33-50
0.0	126 150FS-33-50	157 150FS-33-50	188 150FS-33-50	220 150FS-33-50	251 150FS-33-50	314 150FS-33-50	377 150FS-33-50	440 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	346 HD-1	1440 HD-1	2533 HD-1	3626 HD-2	4719 HD-2	5813 No Solutions	6906 No Solutions	7999 No Solutions
0.9	201 HD-1	1221 HD-1	2241 HD-1	3262 HD-2	4282 HD-2	5302 HD-3	6323 No Solutions	7343 No Solutions
0.8	55 HD-1	1002 HD-1	1950 HD-1	2897 HD-1	3845 HD-2	4792 HD-3	5740 No Solutions	6687 No Solutions
0.7	0 HD-0	784 HD-1	1658 HD-1	2533 HD-1	3407 HD-2	4282 HD-2	5157 HD-3	6031 No Solutions
0.6	0 HD-0	565 HD-1	1367 HD-1	2168 HD-1	2970 HD-1	3772 HD-2	4574 HD-2	5375 HD-3
0.5	0 HD-0	346 HD-1	1075 HD-1	1804 HD-1	2533 HD-1	3262 HD-2	3991 HD-2	4719 HD-2
0.4	0 HD-0	128 HD-1	784 HD-1	1440 HD-1	2096 HD-1	2752 HD-1	3407 HD-2	4063 HD-2
0.3	0 HD-0	0 HD-0	492 HD-1	1075 HD-1	1658 HD-1	2241 HD-1	2824 HD-1	3407 HD-2
0.2	0 HD-0	0 HD-0	201 HD-1	711 HD-1	1221 HD-1	1731 HD-1	2241 HD-1	2752 HD-1
0.1	0 HD-0	0 HD-0	0 HD-0	346 HD-1	784 HD-1	1221 HD-1	1658 HD-1	2096 HD-1
0.0	0 HD-0	0 HD-0	0 HD-0	73 HD-1	456 HD-1	838 HD-1	1221 HD-1	1604 HD-1

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TABLE 4.3.223: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.30	Weight	4800 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	374	468	562	655	749	936	1123	1310
	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50	500FS-33-50
0.9	349	437	524	612	699	874	1048	1223
	200FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50
0.8	324	406	487	568	649	811	973	1136
	150FS-33-50	200FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50
0.7	300	374	449	524	599	749	899	1048
	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50
0.6	275	343	412	480	549	686	824	961
	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50
0.5	250	312	374	437	499	624	749	874
	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50
0.4	225	281	337	393	449	562	674	786
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50
0.3	200	250	300	349	399	499	599	699
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.2	175	218	262	306	349	437	524	612
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50
0.1	150	187	225	262	300	374	449	524
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50
0.0	131	164	197	229	262	328	393	459
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	362	1502	2643	3784	4925	6065	7206	8347
	HD-1	HD-1	HD-1	HD-2	HD-3	No Solutions	No Solutions	No Solutions
0.9	209	1274	2339	3404	4468	5533	6598	7662
	HD-1	HD-1	HD-1	HD-2	HD-2	No Solutions	No Solutions	No Solutions
0.8	57	1046	2035	3023	4012	5001	5989	6978
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-3	No Solutions	No Solutions
0.7	0	818	1730	2643	3556	4468	5381	6293
	HD-0	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions
0.6	0	590	1426	2263	3099	3936	4772	5609
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-2	HD-3	No Solutions
0.5	0	362	1122	1883	2643	3404	4164	4925
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3
0.4	0	133	818	1502	2187	2871	3556	4240
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.3	0	0	514	1122	1730	2339	2947	3556
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2
0.2	0	0	209	742	1274	1806	2339	2871
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.1	0	0	0	362	818	1274	1730	2187
	HD-0	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1
0.0	0	0	0	76	476	875	1274	1673
	HD-0	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1

HCAI PCS-0003 REVIEWED FOR CODE COMPLIANCE BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE

TABLE 4.3.224: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.30	Weight	5000 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg (z/h)	Wall Aspect Ratio (H/L)							
	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	390	488	585	683	780	975	1170	1365
	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50	500FS-33-50
0.9	364	455	546	637	728	910	1092	1274
	200FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	500FS-33-50
0.8	338	423	507	592	676	845	1014	1183
	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50
0.7	312	390	468	546	624	780	936	1092
	150FS-33-50	200FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	300FS-33-50	400FS-33-50
0.6	286	358	429	501	572	715	858	1001
	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50
0.5	260	325	390	455	520	650	780	910
	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50
0.4	234	293	351	410	468	585	702	819
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50
0.3	208	260	312	364	416	520	624	728
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.2	182	228	273	319	364	455	546	637
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	250FS-33-50
0.1	156	195	234	273	312	390	468	546
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50
0.0	137	171	205	239	273	341	410	478
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg (z/h)	Max Pod Aspect Ratio (H/L_i)							
	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	377	1565	2753	3941	5130	6318	7506	8695
	HD-1	HD-1	HD-1	HD-2	HD-3	No Solutions	No Solutions	No Solutions
0.9	218	1327	2436	3545	4654	5763	6873	7982
	HD-1	HD-1	HD-1	HD-2	HD-2	No Solutions	No Solutions	No Solutions
0.8	60	1090	2119	3149	4179	5209	6239	7269
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-3	No Solutions	No Solutions
0.7	0	852	1803	2753	3704	4654	5605	6556
	HD-0	HD-1	HD-1	HD-1	HD-2	HD-2	No Solutions	No Solutions
0.6	0	614	1486	2357	3228	4100	4971	5843
	HD-0	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions
0.5	0	377	1169	1961	2753	3545	4338	5130
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3
0.4	0	139	852	1565	2278	2991	3704	4417
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.3	0	0	535	1169	1803	2436	3070	3704
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2
0.2	0	0	218	773	1327	1882	2436	2991
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.1	0	0	0	377	852	1327	1803	2278
	HD-0	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1
0.0	0	0	0	79	495	911	1327	1743
	HD-0	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1

HCAi PCS-0003 BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE

TABLE 4.3.225: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.60	Weight	2000 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	192 150FS-33-50	240 150FS-33-50	288 150FS-33-50	336 150FS-33-50	384 150FS-33-50	480 200FS-33-50	576 200FS-33-50	672 250FS-33-50
0.9	179 150FS-33-50	224 150FS-33-50	269 150FS-33-50	314 150FS-33-50	358 150FS-33-50	448 150FS-33-50	538 200FS-33-50	627 200FS-33-50
0.8	166 150FS-33-50	208 150FS-33-50	250 150FS-33-50	291 150FS-33-50	333 150FS-33-50	416 150FS-33-50	499 200FS-33-50	582 200FS-33-50
0.7	154 150FS-33-50	192 150FS-33-50	230 150FS-33-50	269 150FS-33-50	307 150FS-33-50	384 150FS-33-50	461 150FS-33-50	538 200FS-33-50
0.6	141 150FS-33-50	176 150FS-33-50	211 150FS-33-50	246 150FS-33-50	282 150FS-33-50	352 150FS-33-50	422 150FS-33-50	493 200FS-33-50
0.5	128 150FS-33-50	160 150FS-33-50	192 150FS-33-50	224 150FS-33-50	256 150FS-33-50	320 150FS-33-50	384 150FS-33-50	448 150FS-33-50
0.4	115 150FS-33-50	144 150FS-33-50	173 150FS-33-50	202 150FS-33-50	230 150FS-33-50	288 150FS-33-50	346 150FS-33-50	403 150FS-33-50
0.3	102 150FS-33-50	128 150FS-33-50	154 150FS-33-50	179 150FS-33-50	205 150FS-33-50	256 150FS-33-50	307 150FS-33-50	358 150FS-33-50
0.2	90 150FS-33-50	112 150FS-33-50	134 150FS-33-50	157 150FS-33-50	179 150FS-33-50	224 150FS-33-50	269 150FS-33-50	314 150FS-33-50
0.1	77 150FS-33-50	96 150FS-33-50	115 150FS-33-50	134 150FS-33-50	154 150FS-33-50	192 150FS-33-50	230 150FS-33-50	269 150FS-33-50
0.0	67 150FS-33-50	84 150FS-33-50	101 150FS-33-50	118 150FS-33-50	134 150FS-33-50	168 150FS-33-50	202 150FS-33-50	235 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	445 HD-1	1030 HD-1	1615 HD-1	2200 HD-1	2785 HD-1	3370 HD-2	3955 HD-2	4540 HD-2
0.9	367 HD-1	913 HD-1	1459 HD-1	2005 HD-1	2551 HD-1	3097 HD-1	3643 HD-2	4189 HD-2
0.8	289 HD-1	796 HD-1	1303 HD-1	1810 HD-1	2317 HD-1	2824 HD-1	3331 HD-2	3838 HD-2
0.7	211 HD-1	679 HD-1	1147 HD-1	1615 HD-1	2083 HD-1	2551 HD-1	3019 HD-1	3487 HD-2
0.6	133 HD-1	562 HD-1	991 HD-1	1420 HD-1	1849 HD-1	2278 HD-1	2707 HD-1	3136 HD-1
0.5	55 HD-1	445 HD-1	835 HD-1	1225 HD-1	1615 HD-1	2005 HD-1	2395 HD-1	2785 HD-1
0.4	0 HD-0	328 HD-1	679 HD-1	1030 HD-1	1381 HD-1	1732 HD-1	2083 HD-1	2434 HD-1
0.3	0 HD-0	211 HD-1	523 HD-1	835 HD-1	1147 HD-1	1459 HD-1	1771 HD-1	2083 HD-1
0.2	0 HD-0	94 HD-1	367 HD-1	640 HD-1	913 HD-1	1186 HD-1	1459 HD-1	1732 HD-1
0.1	0 HD-0	0 HD-0	211 HD-1	445 HD-1	679 HD-1	913 HD-1	1147 HD-1	1381 HD-1
0.0	0 HD-0	0 HD-0	94 HD-1	299 HD-1	504 HD-1	708 HD-1	913 HD-1	1118 HD-1

HCAi PCS-0003 BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE

TABLE 4.3.226: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.60	Weight	2200 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	211	264	317	370	422	528	634	739
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50
0.9	197	246	296	345	394	493	591	690
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.8	183	229	275	320	366	458	549	641
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	250FS-33-50
0.7	169	211	253	296	338	422	507	591
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50
0.6	155	194	232	271	310	387	465	542
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50
0.5	141	176	211	246	282	352	422	493
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50
0.4	127	158	190	222	253	317	380	444
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.3	113	141	169	197	225	282	338	394
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.2	99	123	148	172	197	246	296	345
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.1	84	106	127	148	169	211	253	296
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.0	74	92	111	129	148	185	222	259
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	490	1133	1777	2420	3064	3707	4351	4994
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3
0.9	404	1004	1605	2206	2806	3407	4007	4608
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-2
0.8	318	876	1433	1991	2549	3106	3664	4222
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.7	232	747	1262	1777	2291	2806	3321	3836
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.6	146	618	1090	1562	2034	2506	2978	3450
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2
0.5	61	490	919	1348	1777	2206	2635	3064
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.4	0	361	747	1133	1519	1905	2291	2677
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.3	0	232	575	919	1262	1605	1948	2291
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.2	0	103	404	704	1004	1305	1605	1905
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.1	0	0	232	490	747	1004	1262	1519
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.0	0	0	103	329	554	779	1004	1230
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1

HCAi PCS-0003 BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE

TABLE 4.3.227: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.60	Weight	2400 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	230	288	346	403	461	576	691	806
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50
0.9	215	269	323	376	430	538	645	753
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50
0.8	200	250	300	349	399	499	599	699
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.7	184	230	276	323	369	461	553	645
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.6	169	211	253	296	338	422	507	591
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50
0.5	154	192	230	269	307	384	461	538
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50
0.4	138	173	207	242	276	346	415	484
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50
0.3	123	154	184	215	246	307	369	430
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.2	108	134	161	188	215	269	323	376
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.1	92	115	138	161	184	230	276	323
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.0	81	101	121	141	161	202	242	282
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	534	1236	1938	2640	3342	4044	4746	5448
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	HD-3
0.9	440	1096	1751	2406	3061	3716	4372	5027
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3
0.8	347	955	1564	2172	2780	3389	3997	4606
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-2
0.7	253	815	1376	1938	2500	3061	3623	4184
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.6	160	674	1189	1704	2219	2734	3248	3763
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.5	66	534	1002	1470	1938	2406	2874	3342
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2
0.4	0	394	815	1236	1657	2078	2500	2921
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.3	0	253	628	1002	1376	1751	2125	2500
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.2	0	113	440	768	1096	1423	1751	2078
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.1	0	0	253	534	815	1096	1376	1657
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.0	0	0	113	359	604	850	1096	1341
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1

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TABLE 4.3.228: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.60	Weight	2600 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	250	312	374	437	499	624	749	874
	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50
0.9	233	291	349	408	466	582	699	815
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50
0.8	216	270	324	379	433	541	649	757
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50
0.7	200	250	300	349	399	499	599	699
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.6	183	229	275	320	366	458	549	641
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	250FS-33-50
0.5	166	208	250	291	333	416	499	582
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50
0.4	150	187	225	262	300	374	449	524
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50
0.3	133	166	200	233	266	333	399	466
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.2	116	146	175	204	233	291	349	408
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.1	100	125	150	175	200	250	300	349
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.0	87	109	131	153	175	218	262	306
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	579	1339	2100	2860	3621	4381	5142	5902
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions
0.9	477	1187	1897	2607	3316	4026	4736	5446
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	HD-3
0.8	376	1035	1694	2353	3012	3671	4330	4989
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3
0.7	274	883	1491	2100	2708	3316	3925	4533
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-2
0.6	173	731	1288	1846	2404	2961	3519	4077
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.5	72	579	1086	1593	2100	2607	3114	3621
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2
0.4	0	426	883	1339	1795	2252	2708	3164
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.3	0	274	680	1086	1491	1897	2302	2708
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.2	0	122	477	832	1187	1542	1897	2252
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.1	0	0	274	579	883	1187	1491	1795
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.0	0	0	122	388	655	921	1187	1453
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1

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TABLE 4.3.229: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.60	Weight	2800 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg (z/h)	Wall Aspect Ratio (H/L)							
	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	269	336	403	470	538	672	806	941
	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	300FS-33-50
0.9	251	314	376	439	502	627	753	878
	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50
0.8	233	291	349	408	466	582	699	815
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50
0.7	215	269	323	376	430	538	645	753
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50
0.6	197	246	296	345	394	493	591	690
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.5	179	224	269	314	358	448	538	627
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50
0.4	161	202	242	282	323	403	484	564
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50
0.3	143	179	215	251	287	358	430	502
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50
0.2	125	157	188	220	251	314	376	439
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.1	108	134	161	188	215	269	323	376
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.0	94	118	141	165	188	235	282	329
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg (z/h)	Max Pod Aspect Ratio (H/L_i)							
	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	623	1442	2261	3080	3899	4718	5537	6356
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	No Solutions	No Solutions
0.9	514	1278	2043	2807	3571	4336	5100	5865
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions
0.8	405	1114	1824	2534	3244	3954	4663	5373
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-2	HD-3
0.7	295	951	1606	2261	2916	3571	4227	4882
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3
0.6	186	787	1387	1988	2589	3189	3790	4390
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-2
0.5	77	623	1169	1715	2261	2807	3353	3899
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.4	0	459	951	1442	1933	2425	2916	3408
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2
0.3	0	295	732	1169	1606	2043	2479	2916
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.2	0	132	514	896	1278	1660	2043	2425
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.1	0	0	295	623	951	1278	1606	1933
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.0	0	0	132	418	705	992	1278	1565
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1

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TABLE 4.3.230: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.60	Weight	3000 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	288	360	432	504	576	720	864	1008
	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50
0.9	269	336	403	470	538	672	806	941
	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	300FS-33-50
0.8	250	312	374	437	499	624	749	874
	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50
0.7	230	288	346	403	461	576	691	806
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50
0.6	211	264	317	370	422	528	634	739
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50
0.5	192	240	288	336	384	480	576	672
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.4	173	216	259	302	346	432	518	605
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50
0.3	154	192	230	269	307	384	461	538
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50
0.2	134	168	202	235	269	336	403	470
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.1	115	144	173	202	230	288	346	403
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.0	101	126	151	176	202	252	302	353
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	668	1545	2423	3300	4178	5055	5933	6810
	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions	No Solutions
0.9	551	1370	2189	3008	3827	4646	5465	6284
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions
0.8	434	1194	1955	2715	3476	4236	4997	5757
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions
0.7	317	1019	1721	2423	3125	3827	4529	5231
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3
0.6	200	843	1487	2130	2774	3417	4061	4704
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-2
0.5	83	668	1253	1838	2423	3008	3593	4178
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.4	0	492	1019	1545	2072	2598	3125	3651
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2
0.3	0	317	785	1253	1721	2189	2657	3125
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.2	0	141	551	960	1370	1779	2189	2598
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.1	0	0	317	668	1019	1370	1721	2072
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.0	0	0	141	448	755	1062	1370	1677
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1

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TABLE 4.3.231: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.60	Weight	3200 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	307	384	461	538	614	768	922	1075
	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	300FS-33-50	400FS-33-50
0.9	287	358	430	502	573	717	860	1004
	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50
0.8	266	333	399	466	532	666	799	932
	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	300FS-33-50
0.7	246	307	369	430	492	614	737	860
	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50
0.6	225	282	338	394	451	563	676	788
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50
0.5	205	256	307	358	410	512	614	717
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.4	184	230	276	323	369	461	553	645
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.3	164	205	246	287	328	410	492	573
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50
0.2	143	179	215	251	287	358	430	502
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50
0.1	123	154	184	215	246	307	369	430
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50
0.0	108	134	161	188	215	269	323	376
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	712	1648	2584	3520	4456	5392	6328	7264
	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions	No Solutions
0.9	587	1461	2334	3208	4082	4955	5829	6702
	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions	No Solutions
0.8	462	1274	2085	2896	3707	4518	5330	6141
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions
0.7	338	1086	1835	2584	3333	4082	4830	5579
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions
0.6	213	899	1586	2272	2958	3645	4331	5018
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3
0.5	88	712	1336	1960	2584	3208	3832	4456
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-2
0.4	0	525	1086	1648	2210	2771	3333	3894
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.3	0	338	837	1336	1835	2334	2834	3333
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2
0.2	0	150	587	1024	1461	1898	2334	2771
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.1	0	0	338	712	1086	1461	1835	2210
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.0	0	0	150	478	806	1133	1461	1788
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1

HCAI PCS-0003 DESIGNED FOR CODE COMPLIANCE BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE

TABLE 4.3.232: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.60	Weight	3400 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	326 150FS-33-50	408 200FS-33-50	490 200FS-33-50	571 200FS-33-50	653 250FS-33-50	816 300FS-33-50	979 400FS-33-50	1142 400FS-33-50
0.9	305 150FS-33-50	381 150FS-33-50	457 200FS-33-50	533 200FS-33-50	609 250FS-33-50	762 250FS-33-50	914 300FS-33-50	1066 400FS-33-50
0.8	283 150FS-33-50	354 150FS-33-50	424 200FS-33-50	495 200FS-33-50	566 200FS-33-50	707 250FS-33-50	849 300FS-33-50	990 400FS-33-50
0.7	261 150FS-33-50	326 150FS-33-50	392 150FS-33-50	457 200FS-33-50	522 200FS-33-50	653 250FS-33-50	783 300FS-33-50	914 300FS-33-50
0.6	239 150FS-33-50	299 150FS-33-50	359 150FS-33-50	419 150FS-33-50	479 200FS-33-50	598 200FS-33-50	718 250FS-33-50	838 300FS-33-50
0.5	218 150FS-33-50	272 150FS-33-50	326 150FS-33-50	381 150FS-33-50	435 150FS-33-50	544 200FS-33-50	653 250FS-33-50	762 250FS-33-50
0.4	196 150FS-33-50	245 150FS-33-50	294 150FS-33-50	343 150FS-33-50	392 150FS-33-50	490 200FS-33-50	588 200FS-33-50	685 250FS-33-50
0.3	174 150FS-33-50	218 150FS-33-50	261 150FS-33-50	305 150FS-33-50	348 150FS-33-50	435 150FS-33-50	522 200FS-33-50	609 200FS-33-50
0.2	152 150FS-33-50	190 150FS-33-50	228 150FS-33-50	267 150FS-33-50	305 150FS-33-50	381 150FS-33-50	457 150FS-33-50	533 200FS-33-50
0.1	131 150FS-33-50	163 150FS-33-50	196 150FS-33-50	228 150FS-33-50	261 150FS-33-50	326 150FS-33-50	392 150FS-33-50	457 150FS-33-50
0.0	114 150FS-33-50	143 150FS-33-50	171 150FS-33-50	200 150FS-33-50	228 150FS-33-50	286 150FS-33-50	343 150FS-33-50	400 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	757 HD-1	1751 HD-1	2746 HD-1	3740 HD-2	4735 HD-3	5729 No Solutions	6724 No Solutions	7718 No Solutions
0.9	624 HD-1	1552 HD-1	2480 HD-1	3409 HD-2	4337 HD-2	5265 HD-3	6193 No Solutions	7121 No Solutions
0.8	491 HD-1	1353 HD-1	2215 HD-1	3077 HD-1	3939 HD-2	4801 HD-3	5663 No Solutions	6525 No Solutions
0.7	359 HD-1	1154 HD-1	1950 HD-1	2746 HD-1	3541 HD-2	4337 HD-2	5132 HD-3	5928 No Solutions
0.6	226 HD-1	955 HD-1	1685 HD-1	2414 HD-1	3143 HD-1	3873 HD-2	4602 HD-2	5331 HD-3
0.5	94 HD-1	757 HD-1	1420 HD-1	2083 HD-1	2746 HD-1	3409 HD-2	4072 HD-2	4735 HD-3
0.4	0 HD-0	558 HD-1	1154 HD-1	1751 HD-1	2348 HD-1	2944 HD-1	3541 HD-2	4138 HD-2
0.3	0 HD-0	359 HD-1	889 HD-1	1420 HD-1	1950 HD-1	2480 HD-1	3011 HD-1	3541 HD-2
0.2	0 HD-0	160 HD-1	624 HD-1	1088 HD-1	1552 HD-1	2016 HD-1	2480 HD-1	2944 HD-1
0.1	0 HD-0	0 HD-0	359 HD-1	757 HD-1	1154 HD-1	1552 HD-1	1950 HD-1	2348 HD-1
0.0	0 HD-0	0 HD-0	160 HD-1	508 HD-1	856 HD-1	1204 HD-1	1552 HD-1	1900 HD-1

REVIEWED FOR CODE COMPLIANCE HCAi PCS-0003 BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE

TABLE 4.3.233: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.60	Weight	3600 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg (z/h)	Wall Aspect Ratio (H/L)							
	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	346 150FS-33-50	432 200FS-33-50	518 200FS-33-50	605 250FS-33-50	691 250FS-33-50	864 300FS-33-50	1037 400FS-33-50	1210 400FS-33-50
0.9	323 150FS-33-50	403 200FS-33-50	484 200FS-33-50	564 200FS-33-50	645 250FS-33-50	806 300FS-33-50	968 400FS-33-50	1129 400FS-33-50
0.8	300 150FS-33-50	374 150FS-33-50	449 200FS-33-50	524 200FS-33-50	599 250FS-33-50	749 250FS-33-50	899 300FS-33-50	1048 400FS-33-50
0.7	276 150FS-33-50	346 150FS-33-50	415 200FS-33-50	484 200FS-33-50	553 200FS-33-50	691 250FS-33-50	829 300FS-33-50	968 400FS-33-50
0.6	253 150FS-33-50	317 150FS-33-50	380 150FS-33-50	444 200FS-33-50	507 200FS-33-50	634 250FS-33-50	760 250FS-33-50	887 300FS-33-50
0.5	230 150FS-33-50	288 150FS-33-50	346 150FS-33-50	403 150FS-33-50	461 200FS-33-50	576 200FS-33-50	691 250FS-33-50	806 300FS-33-50
0.4	207 150FS-33-50	259 150FS-33-50	311 150FS-33-50	363 150FS-33-50	415 150FS-33-50	518 200FS-33-50	622 200FS-33-50	726 250FS-33-50
0.3	184 150FS-33-50	230 150FS-33-50	276 150FS-33-50	323 150FS-33-50	369 150FS-33-50	461 200FS-33-50	553 200FS-33-50	645 250FS-33-50
0.2	161 150FS-33-50	202 150FS-33-50	242 150FS-33-50	282 150FS-33-50	323 150FS-33-50	403 150FS-33-50	484 200FS-33-50	564 200FS-33-50
0.1	138 150FS-33-50	173 150FS-33-50	207 150FS-33-50	242 150FS-33-50	276 150FS-33-50	346 150FS-33-50	415 150FS-33-50	484 200FS-33-50
0.0	121 150FS-33-50	151 150FS-33-50	181 150FS-33-50	212 150FS-33-50	242 150FS-33-50	302 150FS-33-50	363 150FS-33-50	423 150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg (z/h)	Max Pod Aspect Ratio (H/L_i)							
	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	801 HD-1	1854 HD-1	2907 HD-1	3960 HD-2	5013 HD-3	6066 No Solutions	7119 No Solutions	8172 No Solutions
0.9	661 HD-1	1643 HD-1	2626 HD-1	3609 HD-2	4592 HD-2	5575 No Solutions	6557 No Solutions	7540 No Solutions
0.8	520 HD-1	1433 HD-1	2345 HD-1	3258 HD-2	4171 HD-2	5083 HD-3	5996 No Solutions	6908 No Solutions
0.7	380 HD-1	1222 HD-1	2065 HD-1	2907 HD-1	3749 HD-2	4592 HD-2	5434 HD-3	6277 No Solutions
0.6	239 HD-1	1012 HD-1	1784 HD-1	2556 HD-1	3328 HD-2	4100 HD-2	4873 HD-3	5645 No Solutions
0.5	99 HD-1	801 HD-1	1503 HD-1	2205 HD-1	2907 HD-1	3609 HD-2	4311 HD-2	5013 HD-3
0.4	0 HD-0	590 HD-1	1222 HD-1	1854 HD-1	2486 HD-1	3118 HD-1	3749 HD-2	4381 HD-2
0.3	0 HD-0	380 HD-1	941 HD-1	1503 HD-1	2065 HD-1	2626 HD-1	3188 HD-2	3749 HD-2
0.2	0 HD-0	169 HD-1	661 HD-1	1152 HD-1	1643 HD-1	2135 HD-1	2626 HD-1	3118 HD-1
0.1	0 HD-0	0 HD-0	380 HD-1	801 HD-1	1222 HD-1	1643 HD-1	2065 HD-1	2486 HD-1
0.0	0 HD-0	0 HD-0	169 HD-1	538 HD-1	906 HD-1	1275 HD-1	1643 HD-1	2012 HD-1

ENGINEER OF RECORD COMPLIANCE
HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE

TABLE 4.3.234: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.60	Weight	3800 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	365	456	547	638	730	912	1094	1277
	200FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	500FS-33-50
0.9	340	426	511	596	681	851	1021	1192
	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50
0.8	316	395	474	553	632	790	948	1107
	150FS-33-50	200FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50
0.7	292	365	438	511	584	730	876	1021
	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50
0.6	268	334	401	468	535	669	803	936
	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	300FS-33-50
0.5	243	304	365	426	486	608	730	851
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50
0.4	219	274	328	383	438	547	657	766
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50
0.3	195	243	292	340	389	486	584	681
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.2	170	213	255	298	340	426	511	596
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50
0.1	146	182	219	255	292	365	438	511
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50
0.0	128	160	192	223	255	319	383	447
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	846	1957	3069	4180	5292	6403	7515	8626
	HD-1	HD-1	HD-1	HD-2	HD-3	No Solutions	No Solutions	No Solutions
0.9	697	1735	2772	3810	4847	5884	6922	7959
	HD-1	HD-1	HD-1	HD-2	HD-3	No Solutions	No Solutions	No Solutions
0.8	549	1512	2476	3439	4402	5366	6329	7292
	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions	No Solutions
0.7	401	1290	2179	3069	3958	4847	5736	6625
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-3	No Solutions	No Solutions
0.6	253	1068	1883	2698	3513	4328	5143	5958
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions
0.5	105	846	1587	2328	3069	3810	4551	5292
	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3
0.4	0	623	1290	1957	2624	3291	3958	4625
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-2
0.3	0	401	994	1587	2179	2772	3365	3958
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.2	0	179	697	1216	1735	2253	2772	3291
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2
0.1	0	0	401	846	1290	1735	2179	2624
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.0	0	0	179	568	957	1346	1735	2124
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1

HCAI PCS-0003 BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE

TABLE 4.3.235: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.60	Weight	4000 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	384	480	576	672	768	960	1152	1344
	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50	500FS-33-50
0.9	358	448	538	627	717	896	1075	1254
	200FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50
0.8	333	416	499	582	666	832	998	1165
	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50
0.7	307	384	461	538	614	768	922	1075
	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	300FS-33-50	400FS-33-50
0.6	282	352	422	493	563	704	845	986
	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50
0.5	256	320	384	448	512	640	768	896
	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50
0.4	230	288	346	403	461	576	691	806
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50
0.3	205	256	307	358	410	512	614	717
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.2	179	224	269	314	358	448	538	627
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50
0.1	154	192	230	269	307	384	461	538
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50
0.0	134	168	202	235	269	336	403	470
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	890	2060	3230	4400	5570	6740	7910	9080
	HD-1	HD-1	HD-2	HD-2	No Solutions	No Solutions	No Solutions	No Solutions
0.9	734	1826	2918	4010	5102	6194	7286	8378
	HD-1	HD-1	HD-1	HD-2	HD-3	No Solutions	No Solutions	No Solutions
0.8	578	1592	2606	3620	4634	5648	6662	7676
	HD-1	HD-1	HD-1	HD-2	HD-2	No Solutions	No Solutions	No Solutions
0.7	422	1358	2294	3230	4166	5102	6038	6974
	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions	No Solutions
0.6	266	1124	1982	2840	3698	4556	5414	6272
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions
0.5	110	890	1670	2450	3230	4010	4790	5570
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions
0.4	0	656	1358	2060	2762	3464	4166	4868
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3
0.3	0	422	1046	1670	2294	2918	3542	4166
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.2	0	188	734	1280	1826	2372	2918	3464
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2
0.1	0	0	422	890	1358	1826	2294	2762
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.0	0	0	188	598	1007	1417	1826	2236
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1

HCAI PCS-0003 BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE

TABLE 4.3.236: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.60	Weight	4200 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg (z/h)	Wall Aspect Ratio (H/L)							
	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	403 200FS-33-50	504 200FS-33-50	605 250FS-33-50	706 250FS-33-50	806 300FS-33-50	1008 400FS-33-50	1210 400FS-33-50	1411 500FS-33-50
0.9	376 200FS-33-50	470 200FS-33-50	564 250FS-33-50	659 250FS-33-50	753 300FS-33-50	941 400FS-33-50	1129 400FS-33-50	1317 500FS-33-50
0.8	349 200FS-33-50	437 200FS-33-50	524 200FS-33-50	612 250FS-33-50	699 250FS-33-50	874 300FS-33-50	1048 400FS-33-50	1223 400FS-33-50
0.7	323 150FS-33-50	403 200FS-33-50	484 200FS-33-50	564 200FS-33-50	645 250FS-33-50	806 300FS-33-50	968 400FS-33-50	1129 400FS-33-50
0.6	296 150FS-33-50	370 150FS-33-50	444 200FS-33-50	517 200FS-33-50	591 250FS-33-50	739 250FS-33-50	887 300FS-33-50	1035 400FS-33-50
0.5	269 150FS-33-50	336 150FS-33-50	403 150FS-33-50	470 200FS-33-50	538 200FS-33-50	672 250FS-33-50	806 300FS-33-50	941 300FS-33-50
0.4	242 150FS-33-50	302 150FS-33-50	363 150FS-33-50	423 150FS-33-50	484 200FS-33-50	605 200FS-33-50	726 250FS-33-50	847 300FS-33-50
0.3	215 150FS-33-50	269 150FS-33-50	323 150FS-33-50	376 150FS-33-50	430 150FS-33-50	538 200FS-33-50	645 250FS-33-50	753 250FS-33-50
0.2	188 150FS-33-50	235 150FS-33-50	282 150FS-33-50	329 150FS-33-50	376 150FS-33-50	470 200FS-33-50	564 200FS-33-50	659 250FS-33-50
0.1	161 150FS-33-50	202 150FS-33-50	242 150FS-33-50	282 150FS-33-50	323 150FS-33-50	403 150FS-33-50	484 200FS-33-50	564 200FS-33-50
0.0	141 150FS-33-50	176 150FS-33-50	212 150FS-33-50	247 150FS-33-50	282 150FS-33-50	353 150FS-33-50	423 150FS-33-50	494 200FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg (z/h)	Max Pod Aspect Ratio (H/L_i)							
	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	935 HD-1	2163 HD-1	3392 HD-2	4620 HD-2	5849 No Solutions	7077 No Solutions	8306 No Solutions	9534 No Solutions
0.9	771 HD-1	1917 HD-1	3064 HD-1	4211 HD-2	5357 HD-3	6504 No Solutions	7650 No Solutions	8797 No Solutions
0.8	607 HD-1	1672 HD-1	2736 HD-1	3801 HD-2	4866 HD-3	5930 No Solutions	6995 No Solutions	8060 No Solutions
0.7	443 HD-1	1426 HD-1	2409 HD-1	3392 HD-2	4374 HD-2	5357 HD-3	6340 No Solutions	7323 No Solutions
0.6	279 HD-1	1180 HD-1	2081 HD-1	2982 HD-1	3883 HD-2	4784 HD-3	5685 No Solutions	6586 No Solutions
0.5	116 HD-1	935 HD-1	1754 HD-1	2573 HD-1	3392 HD-2	4211 HD-2	5030 HD-3	5849 No Solutions
0.4	0 HD-0	689 HD-1	1426 HD-1	2163 HD-1	2900 HD-1	3637 HD-2	4374 HD-2	5111 HD-3
0.3	0 HD-0	443 HD-1	1098 HD-1	1754 HD-1	2409 HD-1	3064 HD-1	3719 HD-2	4374 HD-2
0.2	0 HD-0	197 HD-1	771 HD-1	1344 HD-1	1917 HD-1	2491 HD-1	3064 HD-1	3637 HD-2
0.1	0 HD-0	0 HD-0	443 HD-1	935 HD-1	1426 HD-1	1917 HD-1	2409 HD-1	2900 HD-1
0.0	0 HD-0	0 HD-0	197 HD-1	627 HD-1	1057 HD-1	1487 HD-1	1917 HD-1	2347 HD-1

ENGINEERED FOR CODE COMPLIANCE HCAI PCS-0003 BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE

TABLE 4.3.237: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.60	Weight	4400 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg (z/h)	Wall Aspect Ratio (H/L)							
	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	422	528	634	739	845	1056	1267	1478
	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	300FS-33-50	400FS-33-50	500FS-33-50	500FS-33-50
0.9	394	493	591	690	788	986	1183	1380
	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50	500FS-33-50
0.8	366	458	549	641	732	915	1098	1281
	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	500FS-33-50
0.7	338	422	507	591	676	845	1014	1183
	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50
0.6	310	387	465	542	620	774	929	1084
	150FS-33-50	200FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	300FS-33-50	400FS-33-50
0.5	282	352	422	493	563	704	845	986
	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50
0.4	253	317	380	444	507	634	760	887
	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50
0.3	225	282	338	394	451	563	676	788
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50
0.2	197	246	296	345	394	493	591	690
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.1	169	211	253	296	338	422	507	591
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50
0.0	148	185	222	259	296	370	444	517
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg (z/h)	Max Pod Aspect Ratio (H/L_i)							
	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	979	2266	3553	4840	6127	7414	8701	9988
	HD-1	HD-1	HD-2	HD-3	No Solutions	No Solutions	No Solutions	No Solutions
0.9	807	2009	3210	4411	5612	6813	8015	9216
	HD-1	HD-1	HD-2	HD-2	No Solutions	No Solutions	No Solutions	No Solutions
0.8	636	1751	2867	3982	5097	6213	7328	8444
	HD-1	HD-1	HD-1	HD-2	HD-3	No Solutions	No Solutions	No Solutions
0.7	464	1494	2523	3553	4583	5612	6642	7671
	HD-1	HD-1	HD-1	HD-2	HD-2	No Solutions	No Solutions	No Solutions
0.6	293	1236	2180	3124	4068	5012	5955	6899
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-3	No Solutions	No Solutions
0.5	121	979	1837	2695	3553	4411	5269	6127
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions
0.4	0	722	1494	2266	3038	3810	4583	5355
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3
0.3	0	464	1151	1837	2523	3210	3896	4583
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-2
0.2	0	207	807	1408	2009	2609	3210	3810
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.1	0	0	464	979	1494	2009	2523	3038
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1
0.0	0	0	207	657	1108	1558	2009	2459
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1

ENGINEERED FOR CODE COMPLIANCE HCAi PCS-0003 BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE

TABLE 4.3.238: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.60	Weight	4600 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg (z/h)	Wall Aspect Ratio (H/L)							
	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	442	552	662	773	883	1104	1325	1546
	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50	500FS-33-50	500FS-33-50
0.9	412	515	618	721	824	1030	1236	1443
	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50	500FS-33-50
0.8	383	478	574	670	765	957	1148	1340
	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50	500FS-33-50
0.7	353	442	530	618	707	883	1060	1236
	200FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50
0.6	324	405	486	567	648	810	972	1133
	150FS-33-50	200FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50
0.5	294	368	442	515	589	736	883	1030
	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50
0.4	265	331	397	464	530	662	795	927
	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	300FS-33-50
0.3	236	294	353	412	471	589	707	824
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50
0.2	206	258	309	361	412	515	618	721
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.1	177	221	265	309	353	442	530	618
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50
0.0	155	193	232	270	309	386	464	541
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg (z/h)	Max Pod Aspect Ratio (H/L_i)							
	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	1024	2369	3715	5060	6406	7751	9097	10442
	HD-1	HD-1	HD-2	HD-3	No Solutions	No Solutions	No Solutions	No Solutions
0.9	844	2100	3356	4612	5867	7123	8379	9635
	HD-1	HD-1	HD-2	HD-2	No Solutions	No Solutions	No Solutions	No Solutions
0.8	665	1831	2997	4163	5329	6495	7661	8827
	HD-1	HD-1	HD-1	HD-2	HD-3	No Solutions	No Solutions	No Solutions
0.7	485	1562	2638	3715	4791	5867	6944	8020
	HD-1	HD-1	HD-1	HD-2	HD-3	No Solutions	No Solutions	No Solutions
0.6	306	1293	2279	3266	4253	5239	6226	7213
	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions	No Solutions
0.5	127	1024	1921	2818	3715	4612	5509	6406
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	No Solutions	No Solutions
0.4	0	754	1562	2369	3176	3984	4791	5598
	HD-0	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions
0.3	0	485	1203	1921	2638	3356	4073	4791
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3
0.2	0	216	844	1472	2100	2728	3356	3984
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.1	0	0	485	1024	1562	2100	2638	3176
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2
0.0	0	0	216	687	1158	1629	2100	2571
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1

ENGINEERED FOR CODE COMPLIANCE HCAi PCS-0003 BY: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE

TABLE 4.3.239: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.60	Weight	4800 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg (z/h)	Wall Aspect Ratio (H/L)							
	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	461	576	691	806	922	1152	1382	1613
	200FS-33-50	250FS-33-50	300FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50	500FS-33-50	#VALUE!
0.9	430	538	645	753	860	1075	1290	1505
	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	300FS-33-50	400FS-33-50	500FS-33-50	500FS-33-50
0.8	399	499	599	699	799	998	1198	1398
	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50	500FS-33-50
0.7	369	461	553	645	737	922	1106	1290
	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50	500FS-33-50
0.6	338	422	507	591	676	845	1014	1183
	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50
0.5	307	384	461	538	614	768	922	1075
	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	300FS-33-50	400FS-33-50
0.4	276	346	415	484	553	691	829	968
	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50
0.3	246	307	369	430	492	614	737	860
	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50
0.2	215	269	323	376	430	538	645	753
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50
0.1	184	230	276	323	369	461	553	645
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.0	161	202	242	282	323	403	484	564
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg (z/h)	Max Pod Aspect Ratio (H/L_f)							
	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	1068	2472	3876	5280	6684	8088	9492	10896
	HD-1	HD-1	HD-2	HD-3	No Solutions	No Solutions	No Solutions	No Solutions
0.9	881	2191	3502	4812	6122	7433	8743	10054
	HD-1	HD-1	HD-2	HD-3	No Solutions	No Solutions	No Solutions	No Solutions
0.8	694	1910	3127	4344	5561	6778	7994	9211
	HD-1	HD-1	HD-1	HD-2	No Solutions	No Solutions	No Solutions	No Solutions
0.7	506	1630	2753	3876	4999	6122	7246	8369
	HD-1	HD-1	HD-1	HD-2	HD-3	No Solutions	No Solutions	No Solutions
0.6	319	1349	2378	3408	4438	5467	6497	7526
	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions	No Solutions
0.5	132	1068	2004	2940	3876	4812	5748	6684
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-3	No Solutions	No Solutions
0.4	0	787	1630	2472	3314	4157	4999	5842
	HD-0	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions
0.3	0	506	1255	2004	2753	3502	4250	4999
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3
0.2	0	226	881	1536	2191	2846	3502	4157
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.1	0	0	506	1068	1630	2191	2753	3314
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2
0.0	0	0	226	717	1208	1700	2191	2683
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1

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TABLE 4.3.240: GROSS SHEAR WALL REQUIREMENTS

PARAMETERS:	Type	S3	(Ip = 1.5)	S_{DS}	1.60	Weight	5000 lbs

TABLE A: SHEAR LOADING & REQUIRED BRACE TYPE

Key: XXXFS-YY-ZZ

XXX = Flat Strap Width (inches x 100), YY = Flat Strap Thickness (mils), ZZ = ASTM A653 Steel Grade

** Value above strap type indicates the shear loading (LRFD Basis - not factored for expected forces, lb/ft)*

Height in Bldg	Wall Aspect Ratio (H/L)							
(z/h)	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
1.0	480	600	720	840	960	1200	1440	1680
	250FS-33-50	250FS-33-50	300FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50	500FS-33-50	#VALUE!
0.9	448	560	672	784	896	1120	1344	1568
	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50	500FS-33-50	500FS-33-50
0.8	416	520	624	728	832	1040	1248	1456
	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50	500FS-33-50
0.7	384	480	576	672	768	960	1152	1344
	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50	500FS-33-50
0.6	352	440	528	616	704	880	1056	1232
	200FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50
0.5	320	400	480	560	640	800	960	1120
	150FS-33-50	200FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50	400FS-33-50
0.4	288	360	432	504	576	720	864	1008
	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	300FS-33-50	400FS-33-50
0.3	256	320	384	448	512	640	768	896
	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50	300FS-33-50
0.2	224	280	336	392	448	560	672	784
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50	250FS-33-50
0.1	192	240	288	336	384	480	576	672
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50	250FS-33-50
0.0	168	210	252	294	336	420	504	588
	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	150FS-33-50	200FS-33-50	200FS-33-50

TABLE B: ANCHORAGE FORCE & REQUIRED HOLD DOWN TYPE

Key:

HD-0 = DTT1Z (Fig 5.6.2), HD-1 = DTT1Z (Fig 5.6.1), HD-2 = S/LTT-20 (Fig 5.6.1), HD-3 = DTT2Z (Fig 5.6.1)

** Value above hold-down type indicates the required anchorage force (LRFD Net Uplift - factored by 2.5 for non-ductile anchors, lbs)*

Height in Bldg	Max Pod Aspect Ratio (H/L_i)							
(z/h)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25
1.0	1113	2575	4038	5500	6963	8425	9888	11350
	HD-1	HD-1	HD-2	No Solutions	No Solutions	No Solutions	No Solutions	No Solutions
0.9	918	2283	3648	5013	6378	7743	9108	10473
	HD-1	HD-1	HD-2	HD-3	No Solutions	No Solutions	No Solutions	No Solutions
0.8	723	1990	3258	4525	5793	7060	8328	9595
	HD-1	HD-1	HD-2	HD-2	No Solutions	No Solutions	No Solutions	No Solutions
0.7	528	1698	2868	4038	5208	6378	7548	8718
	HD-1	HD-1	HD-1	HD-2	HD-3	No Solutions	No Solutions	No Solutions
0.6	333	1405	2478	3550	4623	5695	6768	7840
	HD-1	HD-1	HD-1	HD-2	HD-2	No Solutions	No Solutions	No Solutions
0.5	138	1113	2088	3063	4038	5013	5988	6963
	HD-1	HD-1	HD-1	HD-1	HD-2	HD-3	No Solutions	No Solutions
0.4	0	820	1698	2575	3453	4330	5208	6085
	HD-0	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3	No Solutions
0.3	0	528	1308	2088	2868	3648	4428	5208
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2	HD-3
0.2	0	235	918	1600	2283	2965	3648	4330
	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2	HD-2
0.1	0	0	528	1113	1698	2283	2868	3453
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-2
0.0	0	0	235	747	1259	1771	2283	2794
	HD-0	HD-0	HD-1	HD-1	HD-1	HD-1	HD-1	HD-1

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TABLE 4.4.X

DETAILED SHEAR WALL REQUIREMENTS

REVIEWED FOR CODE COMPLIANCE
HCAi
PCS-0003
CHECKED BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE, 2019

TABLE 4.4.7: DETAILED SHEAR WALL REQUIREMENTS

S3 100FS-33-50

PARAMETERS:	Strap Width	1.00 in	Strap Thick.	33 mils	Strap Grade	50 ksi

TABLE A: MINIMUM REQUIRED CHORD & TRACK SIZES

Key:

Chords (C-Section): WWWSXXX-YY-ZZ (Method), WWW = Web Depth (inches x 100), XXX = Flange Width (inches x 100), YY = Thickness (mils), ZZ = ASTM A653 Steel Grade

Chords (HSS): W.WWxX.XXxY.YYY, W.WW = Web Depth (inches), X.XX = Flange Width (inches), Y.YYY = Thickness (inches), all HSS are A500 Grade B (46 ksi)

Tracks: WWWTXXX-YY-ZZ, WWW = Web Depth (inches x 100), XXX = Flange Width (inches x 100), YY = Thickness (mils), ZZ = ASTM A653 Steel Grade

Pod Height	Member Type	Wall Aspect Ratio (H/L)							
		1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
7.50 ft	Chords (C-Section)	362S125-33-33 (Boxed)	362S125-33-33 (Boxed)	362S125-33-33 (Boxed)	362S125-33-33 (Boxed)	362S125-43-33 (Boxed)	362S125-43-33 (Boxed)	362S125-43-50 (Boxed)	362S125-43-50 (Boxed)
	Chords (HSS)	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8
	Tracks	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50
8.00 ft	Chords (C-Section)	362S125-33-33 (Boxed)	362S125-33-33 (Boxed)	362S125-33-33 (Boxed)	362S125-33-33 (Boxed)	362S125-43-33 (Boxed)	362S125-43-33 (Boxed)	362S125-43-50 (Boxed)	362S125-43-50 (Boxed)
	Chords (HSS)	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8
	Tracks	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50
9.00 ft	Chords (C-Section)	362S125-33-33 (Boxed)	362S125-33-33 (Boxed)	362S125-33-33 (Boxed)	362S125-33-50 (Boxed)	362S125-43-33 (Boxed)	362S125-43-33 (Boxed)	362S125-43-50 (Boxed)	362S125-43-50 (Boxed)
	Chords (HSS)	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8
	Tracks	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50

TABLE B: MINIMUM REQUIRED GUSSET & SCREW CONNECTIONS

Key:

Gussets: WWWGXXX-YY-ZZ, WWW = Height (inches x 100), XXX = Width (inches x 100), YY = Thickness (mils), ZZ = ASTM A653 Steel Grade

Strap-to-Gusset: A(B)xC, A = Total Number of Screws, B = Number of Screws per Row, C = Screw Type

Gusset-to-Chord: A(B)xC, A = Total Number of Screws, B = Number of Screws per Row, C = Screw Type

Gusset-to-Track: A(B)xC, A = Total Number of Screws, B = Number of Screws per Row, C = Screw Type

Pod Height	Connection Component	Wall Aspect Ratio (H/L)							
		1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
7.50 ft	Detail #	7.1.1	7.1.2	7.1.3	7.1.4	7.1.5	7.1.6	7.1.7	7.1.8
	Gussets	650G750-33-50	700G700-33-50	800G650-33-50	850G600-33-50	900G600-33-50	1000G550-33-50	1100G500-33-50	1200G500-33-50
	Strap-to-Gusset	9(1)x#8-18 PMTH	9(1)x#8-18 PMTH	9(1)x#8-18 PMTH	9(1)x#8-18 PMTH	9(1)x#8-18 PMTH	9(1)x#8-18 PMTH	9(1)x#8-18 PMTH	9(1)x#8-18 PMTH
	Gusset-to-Chord	6(2)x#8-18 PMTH	6(2)x#8-18 PMTH	6(2)x#8-18 PMTH	6(2)x#8-18 PMTH	6(2)x#8-18 PMTH	6(2)x#8-18 PMTH	6(2)x#8-18 PMTH	8(2)x#8-18 PMTH
	Gusset-to-Track	7(1)x#8-18 PMTH	6(1)x#8-18 PMTH	5(1)x#8-18 PMTH	5(1)x#8-18 PMTH	4(1)x#8-18 PMTH	4(1)x#8-18 PMTH	3(1)x#8-18 PMTH	3(1)x#8-18 PMTH
8.00 ft	Detail #	7.2.1	7.2.2	7.2.3	7.2.4	7.2.5	7.2.6	7.2.7	7.2.8
	Gussets	650G750-33-50	700G700-33-50	800G650-33-50	850G600-33-50	900G600-33-50	1000G550-33-50	1100G500-33-50	1200G500-33-50
	Strap-to-Gusset	9(1)x#8-18 PMTH	9(1)x#8-18 PMTH	9(1)x#8-18 PMTH	9(1)x#8-18 PMTH	9(1)x#8-18 PMTH	9(1)x#8-18 PMTH	9(1)x#8-18 PMTH	9(1)x#8-18 PMTH
	Gusset-to-Chord	6(2)x#8-18 PMTH	6(2)x#8-18 PMTH	6(2)x#8-18 PMTH	6(2)x#8-18 PMTH	6(2)x#8-18 PMTH	6(2)x#8-18 PMTH	6(2)x#8-18 PMTH	8(2)x#8-18 PMTH
	Gusset-to-Track	7(1)x#8-18 PMTH	6(1)x#8-18 PMTH	5(1)x#8-18 PMTH	5(1)x#8-18 PMTH	4(1)x#8-18 PMTH	4(1)x#8-18 PMTH	3(1)x#8-18 PMTH	3(1)x#8-18 PMTH
9.00 ft	Detail #	7.3.1	7.3.2	7.3.3	7.3.4	7.3.5	7.3.6	7.3.7	7.3.8
	Gussets	650G750-33-50	700G700-33-50	800G650-33-50	850G600-33-50	900G600-33-50	1000G550-33-50	1100G500-33-50	1200G500-33-50
	Strap-to-Gusset	9(1)x#8-18 PMTH	9(1)x#8-18 PMTH	9(1)x#8-18 PMTH	9(1)x#8-18 PMTH	9(1)x#8-18 PMTH	9(1)x#8-18 PMTH	9(1)x#8-18 PMTH	9(1)x#8-18 PMTH
	Gusset-to-Chord	6(2)x#8-18 PMTH	6(2)x#8-18 PMTH	6(2)x#8-18 PMTH	6(2)x#8-18 PMTH	6(2)x#8-18 PMTH	6(2)x#8-18 PMTH	6(2)x#8-18 PMTH	8(2)x#8-18 PMTH
	Gusset-to-Track	7(1)x#8-18 PMTH	6(1)x#8-18 PMTH	5(1)x#8-18 PMTH	5(1)x#8-18 PMTH	4(1)x#8-18 PMTH	4(1)x#8-18 PMTH	3(1)x#8-18 PMTH	3(1)x#8-18 PMTH

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TABLE 4.4.8: DETAILED SHEAR WALL REQUIREMENTS

S3 150FS-33-50

PARAMETERS:	Strap Width	1.50 in	Strap Thick.	33 mils	Strap Grade	50 ksi

TABLE A: MINIMUM REQUIRED CHORD & TRACK SIZES

Key:

Chords (C-Section): WWWSXXX-YY-ZZ (Method), WWW = Web Depth (inches x 100), XXX = Flange Width (inches x 100), YY = Thickness (mils), ZZ = ASTM A653 Steel Grade

Chords (HSS): W.WWxX.XXxY.YYY, W.WW = Web Depth (inches), X.XX = Flange Width (inches), Y.YYY = Thickness (inches), all HSS are A500 Grade B (46 ksi)

Tracks: WWWTXXX-YY-ZZ, WWW = Web Depth (inches x 100), XXX = Flange Width (inches x 100), YY = Thickness (mils), ZZ = ASTM A653 Steel Grade

Pod Height	Member Type	Wall Aspect Ratio (H/L)							
		1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
7.50 ft	Chords (C-Section)	362S125-33-50 (Boxed)	362S125-43-33 (Boxed)	362S125-43-33 (Boxed)	362S125-43-33 (Boxed)	362S125-43-50 (Boxed)	362S125-54-50 (Boxed)	362S125-54-50 (Boxed)	362S125-54-50 (Boxed)
	Chords (HSS)	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8
	Tracks	362T125-43-50	362T125-43-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50
8.00 ft	Chords (C-Section)	362S125-43-33 (Boxed)	362S125-43-33 (Boxed)	362S125-43-33 (Boxed)	362S125-43-33 (Boxed)	362S125-43-50 (Boxed)	362S125-54-50 (Boxed)	362S125-54-50 (Boxed)	362S125-54-50 (Boxed)
	Chords (HSS)	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8
	Tracks	362T125-43-50	362T125-43-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50
9.00 ft	Chords (C-Section)	362S125-43-33 (Boxed)	362S125-43-33 (Boxed)	362S125-43-33 (Boxed)	362S125-43-33 (Boxed)	362S125-54-33 (Boxed)	362S125-54-50 (Boxed)	362S125-54-50 (Boxed)	362S125-54-50 (Boxed)
	Chords (HSS)	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8
	Tracks	362T125-43-50	362T125-43-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50

TABLE B: MINIMUM REQUIRED GUSSET & SCREW CONNECTIONS

Key:

Gussets: WWWGXXX-YY-ZZ, WWW = Height (inches x 100), XXX = Width (inches x 100), YY = Thickness (mils), ZZ = ASTM A653 Steel Grade

Strap-to-Gusset: A(B)xC, A = Total Number of Screws, B = Number of Screws per Row, C = Screw Type

Gusset-to-Chord: A(B)xC, A = Total Number of Screws, B = Number of Screws per Row, C = Screw Type

Gusset-to-Track: A(B)xC, A = Total Number of Screws, B = Number of Screws per Row, C = Screw Type

Pod Height	Connection Component	Wall Aspect Ratio (H/L)							
		1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
7.50 ft	Detail #	8.1.1	8.1.2	8.1.3	8.1.4	8.1.5	8.1.6	8.1.7	8.1.8
	Gussets	600G700-33-50	650G650-33-50	750G650-33-50	800G600-33-50	850G600-33-50	1000G550-33-50	1100G550-33-50	1200G500-33-50
	Strap-to-Gusset	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH
	Gusset-to-Chord	8(2)x#8-18 PMTH	8(2)x#8-18 PMTH	8(2)x#8-18 PMTH	10(2)x#8-18 PMTH	10(2)x#8-18 PMTH	10(2)x#8-18 PMTH	10(2)x#8-18 PMTH	10(2)x#8-18 PMTH
	Gusset-to-Track	7(1)x#8-18 PMTH	6(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH	6(1)x#8-18 PMTH	5(1)x#8-18 PMTH	5(1)x#8-18 PMTH	4(1)x#8-18 PMTH
8.00 ft	Detail #	8.2.1	8.2.2	8.2.3	8.2.4	8.2.5	8.2.6	8.2.7	8.2.8
	Gussets	600G700-33-50	650G650-33-50	750G650-33-50	800G600-33-50	850G600-33-50	1000G550-33-50	1100G550-33-50	1200G500-33-50
	Strap-to-Gusset	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH
	Gusset-to-Chord	8(2)x#8-18 PMTH	8(2)x#8-18 PMTH	8(2)x#8-18 PMTH	10(2)x#8-18 PMTH	10(2)x#8-18 PMTH	10(2)x#8-18 PMTH	10(2)x#8-18 PMTH	10(2)x#8-18 PMTH
	Gusset-to-Track	7(1)x#8-18 PMTH	6(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH	6(1)x#8-18 PMTH	5(1)x#8-18 PMTH	5(1)x#8-18 PMTH	4(1)x#8-18 PMTH
9.00 ft	Detail #	8.3.1	8.3.2	8.3.3	8.3.4	8.3.5	8.3.6	8.3.7	8.3.8
	Gussets	600G700-33-50	650G650-33-50	750G650-33-50	800G600-33-50	850G600-33-50	1000G550-33-50	1100G550-33-50	1200G500-33-50
	Strap-to-Gusset	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH
	Gusset-to-Chord	8(2)x#8-18 PMTH	8(2)x#8-18 PMTH	8(2)x#8-18 PMTH	10(2)x#8-18 PMTH	10(2)x#8-18 PMTH	10(2)x#8-18 PMTH	10(2)x#8-18 PMTH	10(2)x#8-18 PMTH
	Gusset-to-Track	7(1)x#8-18 PMTH	6(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH	6(1)x#8-18 PMTH	5(1)x#8-18 PMTH	5(1)x#8-18 PMTH	4(1)x#8-18 PMTH

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TABLE 4.4.9: DETAILED SHEAR WALL REQUIREMENTS — S3 — 200FS-33-50

PARAMETERS:	Strap Width	2.00 in	Strap Thick.	33 mils	Strap Grade	50 ksi

TABLE A: MINIMUM REQUIRED CHORD & TRACK SIZES

Key:

Chords (C-Section): WWWSXXX-YY-ZZ (Method), WWW = Web Depth (inches x 100), XXX = Flange Width (inches x 100), YY = Thickness (mils), ZZ = ASTM A653 Steel Grade

Chords (HSS): W.WWxX.XXxY.YYY, W.WW = Web Depth (inches), X.XX = Flange Width (inches), Y.YYY = Thickness (inches), all HSS are A500 Grade B (46 ksi)

Tracks: WWWTXXX-YY-ZZ, WWW = Web Depth (inches x 100), XXX = Flange Width (inches x 100), YY = Thickness (mils), ZZ = ASTM A653 Steel Grade

Pod Height	Member Type	Wall Aspect Ratio (H/L)							
		1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
7.50 ft	Chords (C-Section) (Boxed)	362S125-43-50	362S125-43-50	362S125-43-50	362S125-54-33	362S125-54-50	362S125-54-50	362S125-54-50	362S125-68-50
	Chords (HSS)	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8
	Tracks	362T125-43-50	362T125-43-50	362T125-43-50	362T125-43-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50
8.00 ft	Chords (C-Section) (Boxed)	362S125-43-50	362S125-43-50	362S125-54-33	362S125-54-33	362S125-54-50	362S125-54-50	362S125-68-50	362S125-68-50
	Chords (HSS)	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8
	Tracks	362T125-43-50	362T125-43-50	362T125-43-50	362T125-43-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50
9.00 ft	Chords (C-Section) (Boxed)	362S125-43-50	362S125-43-50	362S125-54-33	362S125-54-33	362S125-54-50	362S125-54-50	362S125-68-50	362S125-68-50
	Chords (HSS)	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x0.165	3.5x1.5x0.165	3.5x1.5x0.165
	Tracks	362T125-43-50	362T125-43-50	362T125-43-50	362T125-43-50	362T125-33-50	362T125-33-50	362T125-33-50	362T125-33-50

TABLE B: MINIMUM REQUIRED GUSSET & SCREW CONNECTIONS

Key:

Gussets: WWWGXXX-YY-ZZ, WWW = Height (inches x 100), XXX = Width (inches x 100), YY = Thickness (mils), ZZ = ASTM A653 Steel Grade

Strap-to-Gusset: A(B)xC, A = Total Number of Screws, B = Number of Screws per Row, C = Screw Type

Gusset-to-Chord: A(B)xC, A = Total Number of Screws, B = Number of Screws per Row, C = Screw Type

Gusset-to-Track: A(B)xC, A = Total Number of Screws, B = Number of Screws per Row, C = Screw Type

Pod Height	Connection Component	Wall Aspect Ratio (H/L)							
		1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
7.50 ft	Detail #	9.1.1	9.1.2	9.1.3	9.1.4	9.1.5	9.1.6	9.1.7	9.1.8
	Gussets	700G850-33-50	800G800-33-50	900G750-33-50	950G700-33-50	1050G700-33-50	1150G650-33-50	1300G600-33-50	1400G600-33-50
	Strap-to-Gusset	18(3)x#8-18 PMTH	18(3)x#8-18 PMTH	18(3)x#8-18 PMTH	18(3)x#8-18 PMTH	18(3)x#8-18 PMTH	18(3)x#8-18 PMTH	18(3)x#8-18 PMTH	18(3)x#8-18 PMTH
	Gusset-to-Chord	10(2)x#8-18 PMTH	10(2)x#8-18 PMTH	12(2)x#8-18 PMTH	12(2)x#8-18 PMTH	12(2)x#8-18 PMTH	12(2)x#8-18 PMTH	12(2)x#8-18 PMTH	12(2)x#10-16 PWH
	Gusset-to-Track	9(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH	7(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH	6(1)x#8-18 PMTH	5(1)x#8-18 PMTH
8.00 ft	Detail #	9.2.1	9.2.2	9.2.3	9.2.4	9.2.5	9.2.6	9.2.7	9.2.8
	Gussets	700G850-33-50	800G800-33-50	900G750-33-50	950G700-33-50	1050G700-33-50	1150G650-33-50	1300G600-33-50	1400G600-33-50
	Strap-to-Gusset	18(3)x#8-18 PMTH	18(3)x#8-18 PMTH	18(3)x#8-18 PMTH	18(3)x#8-18 PMTH	18(3)x#8-18 PMTH	18(3)x#8-18 PMTH	18(3)x#8-18 PMTH	18(3)x#8-18 PMTH
	Gusset-to-Chord	10(2)x#8-18 PMTH	10(2)x#8-18 PMTH	12(2)x#8-18 PMTH	12(2)x#8-18 PMTH	12(2)x#8-18 PMTH	12(2)x#8-18 PMTH	12(2)x#10-16 PWH	12(2)x#10-16 PWH
	Gusset-to-Track	9(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH	7(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH	6(1)x#8-18 PMTH	5(1)x#8-18 PMTH
9.00 ft	Detail #	9.3.1	9.3.2	9.3.3	9.3.4	9.3.5	9.3.6	9.3.7	9.3.8
	Gussets	700G850-33-50	800G800-33-50	900G750-33-50	950G700-33-50	1050G700-33-50	1150G650-33-50	1300G600-33-50	1400G600-33-50
	Strap-to-Gusset	18(3)x#8-18 PMTH	18(3)x#8-18 PMTH	18(3)x#8-18 PMTH	18(3)x#8-18 PMTH	18(3)x#8-18 PMTH	18(3)x#8-18 PMTH	18(3)x#8-18 PMTH	18(3)x#8-18 PMTH
	Gusset-to-Chord	10(2)x#8-18 PMTH	10(2)x#8-18 PMTH	12(2)x#8-18 PMTH	12(2)x#8-18 PMTH	12(2)x#8-18 PMTH	12(2)x#8-18 PMTH	12(2)x#10-16 PWH	12(2)x#10-16 PWH
	Gusset-to-Track	9(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH	7(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH	6(1)x#8-18 PMTH	5(1)x#8-18 PMTH

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TABLE 4.4.10: DETAILED SHEAR WALL REQUIREMENTS

S3 250FS-33-50

PARAMETERS:	Strap Width	2.50 in	Strap Thick.	33 mils	Strap Grade	50 ksi

TABLE A: MINIMUM REQUIRED CHORD & TRACK SIZES

Key:

Chords (C-Section): WWWSXXX-YY-ZZ (Method), WWW = Web Depth (inches x 100), XXX = Flange Width (inches x 100), YY = Thickness (mils), ZZ = ASTM A653 Steel Grade

Chords (HSS): W.WWxX.XXxY.YYY, W.WW = Web Depth (inches), X.XX = Flange Width (inches), Y.YYY = Thickness (inches), all HSS are A500 Grade B (46 ksi)

Tracks: WWWTXXX-YY-ZZ, WWW = Web Depth (inches x 100), XXX = Flange Width (inches x 100), YY = Thickness (mils), ZZ = ASTM A653 Steel Grade

Pod Height	Member Type	Wall Aspect Ratio (H/L)							
		1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
7.50 ft	Chords (C-Section)	362S125-54-33 (Boxed)	362S125-54-33 (Boxed)	362S125-54-50 (Boxed)	362S125-54-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)
	Chords (HSS)	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x0.165
	Tracks	362T125-54-50	362T125-43-50	362T125-43-50	362T125-43-50	362T125-43-50	362T125-33-50	362T125-33-50	362T125-33-50
8.00 ft	Chords (C-Section)	362S125-54-33 (Boxed)	362S125-54-33 (Boxed)	362S125-54-50 (Boxed)	362S125-54-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)
	Chords (HSS)	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x0.165	3.5x1.5x0.165	3.5x1.5x0.165
	Tracks	362T125-54-50	362T125-43-50	362T125-43-50	362T125-43-50	362T125-43-50	362T125-33-50	362T125-33-50	362T125-33-50
9.00 ft	Chords (C-Section)	362S125-54-33 (Boxed)	362S125-54-50 (Boxed)	362S125-54-50 (Boxed)	362S125-54-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)
	Chords (HSS)	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x0.165	3.5x1.5x0.165	3.5x1.5x0.165	3.5x1.5x3/16	3.5x1.5x3/16	3.5x1.5x3/16
	Tracks	362T125-54-50	362T125-54-50	362T125-43-50	362T125-43-50	362T125-43-50	362T125-33-50	362T125-33-50	362T125-33-50

TABLE B: MINIMUM REQUIRED GUSSET & SCREW CONNECTIONS

Key:

Gussets: WWWGXXX-YY-ZZ, WWW = Height (inches x 100), XXX = Width (inches x 100), YY = Thickness (mils), ZZ = ASTM A653 Steel Grade

Strap-to-Gusset: A(B)xC, A = Total Number of Screws, B = Number of Screws per Row, C = Screw Type

Gusset-to-Chord: A(B)xC, A = Total Number of Screws, B = Number of Screws per Row, C = Screw Type

Gusset-to-Track: A(B)xC, A = Total Number of Screws, B = Number of Screws per Row, C = Screw Type

Pod Height	Connection Component	Wall Aspect Ratio (H/L)							
		1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
7.50 ft	Detail #	10.1.1	10.1.2	10.1.3	10.1.4	10.1.5	10.1.6	10.1.7	10.1.8
	Gussets	850G950-33-50	950G900-33-50	1050G850-33-50	1100G800-33-50	1200G800-33-50	1300G750-33-50	1450G700-33-50	1550G650-33-50
	Strap-to-Gusset	22(4)x#8-18 PMTH	22(4)x#8-18 PMTH	21(4)x#8-18 PMTH	21(4)x#8-18 PMTH	21(4)x#8-18 PMTH	20(4)x#8-18 PMTH	20(4)x#8-18 PMTH	20(4)x#8-18 PMTH
	Gusset-to-Chord	12(2)x#8-18 PMTH	12(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	12(2)x#10-16 PWH	12(2)x#10-16 PWH	12(2)x#10-16 PWH	12(2)x#10-16 PWH
	Gusset-to-Track	12(1)x#8-18 PMTH	10(1)x#8-18 PMTH	9(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH	6(1)x#8-18 PMTH
8.00 ft	Detail #	10.2.1	10.2.2	10.2.3	10.2.4	10.2.5	10.2.6	10.2.7	10.2.8
	Gussets	850G950-33-50	950G900-33-50	1050G850-33-50	1100G800-33-50	1200G800-33-50	1400G750-33-50	1550G700-33-50	1650G700-33-50
	Strap-to-Gusset	22(4)x#8-18 PMTH	22(4)x#8-18 PMTH	22(4)x#8-18 PMTH	21(4)x#8-18 PMTH	21(4)x#8-18 PMTH	21(4)x#8-18 PMTH	21(4)x#8-18 PMTH	21(4)x#8-18 PMTH
	Gusset-to-Chord	12(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	12(2)x#10-16 PWH	12(2)x#10-16 PWH	12(2)x#10-16 PWH	12(2)x#10-16 PWH
	Gusset-to-Track	12(1)x#8-18 PMTH	10(1)x#8-18 PMTH	9(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH	6(1)x#8-18 PMTH
9.00 ft	Detail #	10.3.1	10.3.2	10.3.3	10.3.4	10.3.5	10.3.6	10.3.7	10.3.8
	Gussets	850G950-33-50	950G900-33-50	1050G850-33-50	1150G800-33-50	1200G800-33-50	1400G750-33-50	1550G700-33-50	1650G700-33-50
	Strap-to-Gusset	22(4)x#8-18 PMTH	22(4)x#8-18 PMTH	22(4)x#8-18 PMTH	22(4)x#8-18 PMTH	22(4)x#8-18 PMTH	22(4)x#8-18 PMTH	22(4)x#8-18 PMTH	22(4)x#8-18 PMTH
	Gusset-to-Chord	12(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	12(2)x#10-16 PWH	14(2)x#10-16 PWH	14(2)x#10-16 PWH	14(2)x#10-16 PWH
	Gusset-to-Track	12(1)x#8-18 PMTH	10(1)x#8-18 PMTH	9(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH	6(1)x#8-18 PMTH

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TABLE 4.4.11: DETAILED SHEAR WALL REQUIREMENTS — S3 — 300FS-33-50

PARAMETERS:	Strap Width	3.00 in	Strap Thick.	33 mils	Strap Grade	50 ksi

TABLE A: MINIMUM REQUIRED CHORD & TRACK SIZES

Key:

Chords (C-Section): WWWSXXX-YY-ZZ (Method), WWW = Web Depth (inches x 100), XXX = Flange Width (inches x 100), YY = Thickness (mils), ZZ = ASTM A653 Steel Grade

Chords (HSS): W.WWxX.XXxY.YYY, W.WW = Web Depth (inches), X.XX = Flange Width (inches), Y.YYY = Thickness (inches), all HSS are A500 Grade B (46 ksi)

Tracks: WWWTXXX-YY-ZZ, WWW = Web Depth (inches x 100), XXX = Flange Width (inches x 100), YY = Thickness (mils), ZZ = ASTM A653 Steel Grade

Pod Height	Member Type	Wall Aspect Ratio (H/L)							
		1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
7.50 ft	Chords (C-Section)	362S125-54-50 (Boxed)	362S125-54-50 (Boxed)	362S125-54-50 (Boxed)	362S125-54-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)
	Chords (HSS)	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x0.165	3.5x1.5x0.165	3.5x1.5x0.165	3.5x1.5x0.165
	Tracks	362T125-54-50	362T125-54-50	362T125-43-50	362T125-43-50	362T125-43-50	362T125-43-50	362T125-33-50	362T125-33-50
8.00 ft	Chords (C-Section)	362S125-54-50 (Boxed)	362S125-54-50 (Boxed)	362S125-54-50 (Boxed)	362S125-54-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)
	Chords (HSS)	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x0.165	3.5x1.5x0.165	3.5x1.5x0.165	3.5x1.5x3/16
	Tracks	362T125-54-50	362T125-54-50	362T125-43-50	362T125-43-50	362T125-43-50	362T125-43-50	362T125-33-50	362T125-33-50
9.00 ft	Chords (C-Section)	362S125-54-50 (Boxed)	362S125-54-50 (Boxed)	362S125-68-33 (Boxed)	362S125-68-33 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S137-68-50 (Boxed)
	Chords (HSS)	3.5x1.5x0.165	3.5x1.5x0.165	3.5x1.5x0.165	3.5x1.5x0.165	3.5x2x1/8	3.5x2x1/8	3.5x2x1/8	3.5x2x1/8
	Tracks	362T125-54-50	362T125-54-50	362T125-54-50	362T125-43-50	362T125-43-50	362T125-43-50	362T125-33-50	362T125-33-50

TABLE B: MINIMUM REQUIRED GUSSET & SCREW CONNECTIONS

Key:

Gussets: WWWGXXX-YY-ZZ, WWW = Height (inches x 100), XXX = Width (inches x 100), YY = Thickness (mils), ZZ = ASTM A653 Steel Grade

Strap-to-Gusset: A(B)xC, A = Total Number of Screws, B = Number of Screws per Row, C = Screw Type

Gusset-to-Chord: A(B)xC, A = Total Number of Screws, B = Number of Screws per Row, C = Screw Type

Gusset-to-Track: A(B)xC, A = Total Number of Screws, B = Number of Screws per Row, C = Screw Type

Pod Height	Connection Component	Wall Aspect Ratio (H/L)							
		1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
7.50 ft	Detail #	11.1.1	11.1.2	11.1.3	11.1.4	11.1.5	11.1.6	11.1.7	11.1.8
	Gussets	950G1100-33-50	1050G1000-33-50	1150G950-33-50	1250G900-33-50	1350G850-33-50	1500G800-33-50	1650G800-33-50	1800G750-33-50
	Strap-to-Gusset	25(5)x#8-18 PMTH	24(5)x#8-18 PMTH	24(5)x#8-18 PMTH	24(5)x#8-18 PMTH	23(5)x#8-18 PMTH	23(5)x#8-18 PMTH	23(5)x#8-18 PMTH	23(5)x#8-18 PMTH
	Gusset-to-Chord	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	16(2)x#8-18 PMTH	14(2)x#10-16 PWH	14(2)x#10-16 PWH	14(2)x#10-16 PWH	14(2)x#10-16 PWH
	Gusset-to-Track	13(1)x#8-18 PMTH	11(1)x#8-18 PMTH	10(1)x#8-18 PMTH	9(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH
8.00 ft	Detail #	11.2.1	11.2.2	11.2.3	11.2.4	11.2.5	11.2.6	11.2.7	11.2.8
	Gussets	1050G1150-33-50	1050G1000-33-50	1150G950-33-50	1250G900-33-50	1350G850-33-50	1500G800-33-50	1650G800-33-50	1800G750-33-50
	Strap-to-Gusset	26(5)x#8-18 PMTH	25(5)x#8-18 PMTH	24(5)x#8-18 PMTH	24(5)x#8-18 PMTH	24(5)x#8-18 PMTH	24(5)x#8-18 PMTH	23(5)x#8-18 PMTH	23(5)x#8-18 PMTH
	Gusset-to-Chord	14(2)x#8-18 PMTH	14(2)x#8-18 PMTH	16(2)x#8-18 PMTH	16(2)x#8-18 PMTH	14(2)x#10-16 PWH	14(2)x#10-16 PWH	14(2)x#10-16 PWH	14(2)x#10-16 PWH
	Gusset-to-Track	13(1)x#8-18 PMTH	11(1)x#8-18 PMTH	10(1)x#8-18 PMTH	9(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH
9.00 ft	Detail #	11.3.1	11.3.2	11.3.3	11.3.4	11.3.5	11.3.6	11.3.7	11.3.8
	Gussets	1050G1150-33-50	1150G1100-33-50	1150G950-33-50	1250G900-33-50	1350G900-33-50	1500G800-33-50	1650G800-33-50	1850G750-33-50
	Strap-to-Gusset	27(5)x#8-18 PMTH	26(5)x#8-18 PMTH	25(5)x#8-18 PMTH	25(5)x#8-18 PMTH	25(5)x#8-18 PMTH	24(5)x#8-18 PMTH	24(5)x#8-18 PMTH	24(5)x#8-18 PMTH
	Gusset-to-Chord	14(2)x#8-18 PMTH	16(2)x#8-18 PMTH	14(2)x#10-16 PWH	14(2)x#10-16 PWH	14(2)x#10-16 PWH	14(2)x#10-16 PWH	14(2)x#10-16 PWH	16(2)x#10-16 PWH
	Gusset-to-Track	14(1)x#8-18 PMTH	12(1)x#8-18 PMTH	10(1)x#8-18 PMTH	9(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH

RELEASED FOR CODE COMPLIANCE PCS-0003 BY IAPMO ES CODA DATE 03/21/2022 SURE PODS

TABLE 4.4.12: DETAILED SHEAR WALL REQUIREMENTS

S3 400FS-33-50

PARAMETERS:	Strap Width	4.00 in	Strap Thick.	33 mils	Strap Grade	50 ksi

TABLE A: MINIMUM REQUIRED CHORD & TRACK SIZES

Key:

Chords (C-Section): WWWSXXX-YY-ZZ (Method), WWW = Web Depth (inches x 100), XXX = Flange Width (inches x 100), YY = Thickness (mils), ZZ = ASTM A653 Steel Grade

Chords (HSS): W.WWxX.XXxY.YYY, W.WW = Web Depth (inches), X.XX = Flange Width (inches), Y.YYY = Thickness (inches), all HSS are A500 Grade B (46 ksi)

Tracks: WWWTXXX-YY-ZZ, WWW = Web Depth (inches x 100), XXX = Flange Width (inches x 100), YY = Thickness (mils), ZZ = ASTM A653 Steel Grade

Pod Height	Member Type	Wall Aspect Ratio (H/L)							
		1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
7.50 ft	Chords (C-Section)	362S125-54-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S137-68-50 (Boxed)	362S137-68-50 (Boxed)	362S137-68-50 (Boxed)
	Chords (HSS)	3.5x1.5x1/8	3.5x1.5x1/8	3.5x1.5x0.165	3.5x1.5x0.165	3.5x1.5x3/16	3.5x1.5x3/16	3.5x2x1/8	3.5x2x1/8
	Tracks	362T125-54-50	362T125-54-50	362T125-54-50	362T125-54-50	362T125-43-50	362T125-43-50	362T125-43-50	362T125-33-50
8.00 ft	Chords (C-Section)	362S125-68-33 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S137-68-50 (Boxed)	362S137-68-50 (Boxed)	362S162-68-50 (Boxed)
	Chords (HSS)	3.5x1.5x0.165	3.5x1.5x0.165	3.5x1.5x0.165	3.5x1.5x0.165	3.5x2x1/8	3.5x2x1/8	3.5x2x1/8	3.5x2x3/16
	Tracks	362T125-68-50	362T125-54-50	362T125-54-50	362T125-54-50	362T125-43-50	362T125-43-50	362T125-43-50	362T125-33-50
9.00 ft	Chords (C-Section)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S137-68-50 (Boxed)	362S137-68-50 (Boxed)	362S162-68-50 (Boxed)	362S162-68-50 (Boxed)
	Chords (HSS)	3.5x1.5x3/16	3.5x2x1/8	3.5x2x1/8	3.5x2x1/8	3.5x2x3/16	3.5x2x3/16	3.5x2x3/16	3.5x2x3/16
	Tracks	362T125-68-50	362T125-54-50	362T125-54-50	362T125-54-50	362T125-43-50	362T125-43-50	362T125-43-50	362T125-43-50

TABLE B: MINIMUM REQUIRED GUSSET & SCREW CONNECTIONS

Key:

Gussets: WWWGXXX-YY-ZZ, WWW = Height (inches x 100), XXX = Width (inches x 100), YY = Thickness (mils), ZZ = ASTM A653 Steel Grade

Strap-to-Gusset: A(B)xC, A = Total Number of Screws, B = Number of Screws per Row, C = Screw Type

Gusset-to-Chord: A(B)xC, A = Total Number of Screws, B = Number of Screws per Row, C = Screw Type

Gusset-to-Track: A(B)xC, A = Total Number of Screws, B = Number of Screws per Row, C = Screw Type

Pod Height	Connection Component	Wall Aspect Ratio (H/L)							
		1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
7.50 ft	Detail #	12.1.1	12.1.2	12.1.3	12.1.4	12.1.5	12.1.6	12.1.7	12.1.8
	Gussets	1100G1250-33-50	1250G1150-33-50	1350G1100-33-50	1500G1050-33-50	1600G1050-33-50	1750G1000-33-50	1950G950-33-50	2150G900-33-50
	Strap-to-Gusset	31(7)x#8-18 PMTH	30(7)x#8-18 PMTH	29(7)x#8-18 PMTH	29(7)x#8-18 PMTH	29(7)x#8-18 PMTH	28(7)x#8-18 PMTH	28(7)x#8-18 PMTH	28(7)x#8-18 PMTH
	Gusset-to-Chord	16(2)x#8-18 PMTH	16(2)x#10-16 PWH	16(2)x#10-16 PWH	16(2)x#10-16 PWH	16(2)x#10-16 PWH	18(2)x#10-16 PWH	18(2)x#10-16 PWH	18(2)x#10-16 PWH
	Gusset-to-Track	16(1)x#8-18 PMTH	14(1)x#8-18 PMTH	12(1)x#8-18 PMTH	11(1)x#8-18 PMTH	10(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH	8(1)x#8-18 PMTH
8.00 ft	Detail #	12.2.1	12.2.2	12.2.3	12.2.4	12.2.5	12.2.6	12.2.7	12.2.8
	Gussets	1150G1250-33-50	1250G1150-33-50	1350G1100-33-50	1500G1050-33-50	1600G1050-33-50	1800G1000-33-50	2000G950-33-50	2250G950-33-50
	Strap-to-Gusset	31(7)x#8-18 PMTH	30(7)x#8-18 PMTH	30(7)x#8-18 PMTH	29(7)x#8-18 PMTH	29(7)x#8-18 PMTH	29(7)x#8-18 PMTH	29(7)x#8-18 PMTH	29(7)x#8-18 PMTH
	Gusset-to-Chord	14(2)x#10-16 PWH	16(2)x#10-16 PWH	16(2)x#10-16 PWH	16(2)x#10-16 PWH	16(2)x#10-16 PWH	18(2)x#10-16 PWH	18(2)x#10-16 PWH	18(2)x#10-16 PWH
	Gusset-to-Track	14(1)x#10-16 PWH	14(1)x#8-18 PMTH	12(1)x#8-18 PMTH	11(1)x#8-18 PMTH	10(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH	8(1)x#8-18 PMTH
9.00 ft	Detail #	12.3.1	12.3.2	12.3.3	12.3.4	12.3.5	12.3.6	12.3.7	12.3.8
	Gussets	1150G1300-33-50	1300G1200-33-50	1350G1100-33-50	1500G1050-33-50	1600G1050-33-50	1800G1000-33-50	2100G1000-33-50	2250G950-33-50
	Strap-to-Gusset	32(7)x#8-18 PMTH	31(7)x#8-18 PMTH	31(7)x#8-18 PMTH	30(7)x#8-18 PMTH	30(7)x#8-18 PMTH	30(7)x#8-18 PMTH	30(7)x#8-18 PMTH	30(7)x#8-18 PMTH
	Gusset-to-Chord	14(2)x#10-16 PWH	16(2)x#10-16 PWH	16(2)x#10-16 PWH	16(2)x#10-16 PWH	18(2)x#10-16 PWH	18(2)x#10-16 PWH	18(2)x#10-16 PWH	18(2)x#10-16 PWH
	Gusset-to-Track	14(1)x#10-16 PWH	14(1)x#8-18 PMTH	12(1)x#8-18 PMTH	11(1)x#8-18 PMTH	10(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH	6(1)x#8-18 PMTH

RELEASED FOR CODE COMPLIANCE PCS-0003 BY ICC-ES CCMC DATE 03/21/2022 SUBJECT TO THE CONDITIONS OF USE

TABLE 4.4.13: DETAILED SHEAR WALL REQUIREMENTS

S3 500FS-33-50

PARAMETERS:	Strap Width	5.00 in	Strap Thick.	33 mils	Strap Grade	50 ksi

TABLE A: MINIMUM REQUIRED CHORD & TRACK SIZES

Key:

Chords (C-Section): WWWSXXX-YY-ZZ (Method), WWW = Web Depth (inches x 100), XXX = Flange Width (inches x 100), YY = Thickness (mils), ZZ = ASTM A653 Steel Grade

Chords (HSS): W.WWxX.XXxY.YYY, W.WW = Web Depth (inches), X.XX = Flange Width (inches), Y.YYY = Thickness (inches), all HSS are A500 Grade B (46 ksi)

Tracks: WWWTXXX-YY-ZZ, WWW = Web Depth (inches x 100), XXX = Flange Width (inches x 100), YY = Thickness (mils), ZZ = ASTM A653 Steel Grade

Pod Height	Member Type	Wall Aspect Ratio (H/L)							
		1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
7.50 ft	Chords (C-Section)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S162-68-50 (Boxed)	362S162-68-50 (Boxed)	362S200-68-50 (Boxed)	362S200-68-50 (Boxed)
	Chords (HSS)	3.5x1.5x0.165	3.5x1.5x0.165	3.5x1.5x3/16	3.5x1.5x3/16	3.5x2x3/16	3.5x2x3/16	3.5x2x3/16	3.5x2x3/16
	Tracks	362T125-68-50	362T125-68-50	362T125-54-50	362T125-54-50	362T125-54-50	362T125-43-50	362T125-43-50	362T125-43-50
8.00 ft	Chords (C-Section)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S162-68-50 (Boxed)	362S162-68-50 (Boxed)	362S200-68-50 (Boxed)	362S200-68-50 (Boxed)
	Chords (HSS)	3.5x1.5x0.165	3.5x1.5x3/16	3.5x2x1/8	3.5x2x1/8	3.5x2x3/16	3.5x2x3/16	3.5x2x3/16	3.5x2x3/16
	Tracks	362T125-68-50	362T125-68-50	362T125-54-50	362T125-54-50	362T125-54-50	362T125-43-50	362T125-43-50	362T125-43-50
9.00 ft	Chords (C-Section)	362S125-68-50 (Boxed)	362S125-68-50 (Boxed)	362S137-68-50 (Boxed)	362S137-68-50 (Boxed)	362S162-68-50 (Boxed)	362S162-68-50 (Boxed)	362S200-68-50 (Boxed)	362S200-68-50 (Boxed)
	Chords (HSS)	3.5x2x1/8	3.5x2x1/8	3.5x2x1/8	3.5x2x3/16	3.5x2x3/16	3.5x2x3/16	3.5x2x3/16	3.5x2x3/16
	Tracks	362T125-68-50	362T125-68-50	362T125-54-50	362T125-54-50	362T125-54-50	362T125-43-50	362T125-43-50	362T125-43-50

TABLE B: MINIMUM REQUIRED GUSSET & SCREW CONNECTIONS

Key:

Gussets: WWWGXXX-YY-ZZ, WWW = Height (inches x 100), XXX = Width (inches x 100), YY = Thickness (mils), ZZ = ASTM A653 Steel Grade

Strap-to-Gusset: A(B)xC, A = Total Number of Screws, B = Number of Screws per Row, C = Screw Type

Gusset-to-Chord: A(B)xC, A = Total Number of Screws, B = Number of Screws per Row, C = Screw Type

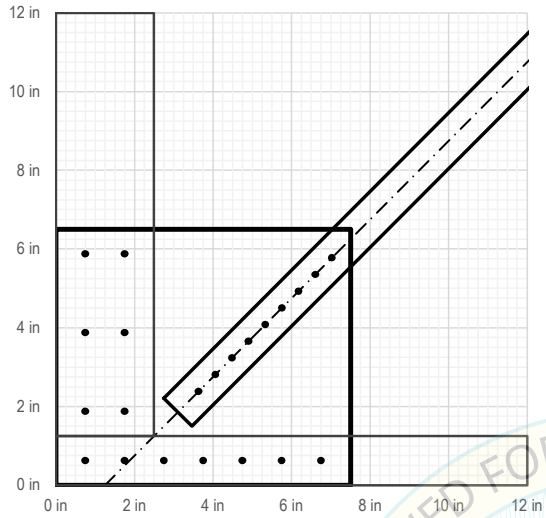
Gusset-to-Track: A(B)xC, A = Total Number of Screws, B = Number of Screws per Row, C = Screw Type

Pod Height	Connection Component	Wall Aspect Ratio (H/L)							
		1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50
7.50 ft	Detail #	13.1.1	13.1.2	13.1.3	13.1.4	13.1.5	13.1.6	13.1.7	13.1.8
	Gussets	1300G1450-33-50	1450G1450-33-50	1600G1300-33-50	1750G1250-33-50	1900G1250-33-50	2150G1200-33-50	2500G1200-33-50	2750G1150-33-50
	Strap-to-Gusset	36(9)x#8-18 PMTH	35(9)x#8-18 PMTH	35(9)x#8-18 PMTH	34(9)x#8-18 PMTH	34(9)x#8-18 PMTH	34(9)x#8-18 PMTH	34(9)x#8-18 PMTH	34(9)x#8-18 PMTH
	Gusset-to-Chord	16(2)x#10-16 PWH	18(2)x#10-16 PWH	18(2)x#10-16 PWH	20(2)x#10-16 PWH	20(2)x#10-16 PWH	20(2)x#10-16 PWH	20(4)x#10-16 PWH	20(4)x#10-16 PWH
	Gusset-to-Track	16(1)x#10-16 PWH	14(1)x#10-16 PWH	14(1)x#8-18 PMTH	12(1)x#8-18 PMTH	11(1)x#8-18 PMTH	9(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH
8.00 ft	Detail #	13.2.1	13.2.2	13.2.3	13.2.4	13.2.5	13.2.6	13.2.7	13.2.8
	Gussets	1350G1450-33-50	1450G1450-33-50	1600G1300-33-50	1750G1250-33-50	1900G1250-33-50	2150G1200-33-50	2500G1200-33-50	2750G1150-33-50
	Strap-to-Gusset	36(9)x#8-18 PMTH	36(9)x#8-18 PMTH	35(9)x#8-18 PMTH	35(9)x#8-18 PMTH	35(9)x#8-18 PMTH	34(9)x#8-18 PMTH	34(9)x#8-18 PMTH	34(9)x#8-18 PMTH
	Gusset-to-Chord	16(2)x#10-16 PWH	18(2)x#10-16 PWH	18(2)x#10-16 PWH	20(2)x#10-16 PWH	20(2)x#10-16 PWH	20(2)x#10-16 PWH	20(4)x#10-16 PWH	20(4)x#10-16 PWH
	Gusset-to-Track	16(1)x#10-16 PWH	14(1)x#10-16 PWH	14(1)x#8-18 PMTH	13(1)x#8-18 PMTH	11(1)x#8-18 PMTH	9(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH
9.00 ft	Detail #	13.3.1	13.3.2	13.3.3	13.3.4	13.3.5	13.3.6	13.3.7	13.3.8
	Gussets	1450G1600-33-50	1600G1500-33-50	1650G1350-33-50	1750G1250-33-50	1950G1250-33-50	2150G1200-33-50	2500G1200-33-50	2750G1200-33-50
	Strap-to-Gusset	38(9)x#8-18 PMTH	37(9)x#8-18 PMTH	36(9)x#8-18 PMTH	36(9)x#8-18 PMTH	35(9)x#8-18 PMTH	35(9)x#8-18 PMTH	35(9)x#8-18 PMTH	35(9)x#8-18 PMTH
	Gusset-to-Chord	18(2)x#10-16 PWH	18(2)x#10-16 PWH	20(2)x#10-16 PWH	20(2)x#10-16 PWH	20(2)x#10-16 PWH	20(2)x#10-16 PWH	22(4)x#10-16 PWH	22(4)x#10-16 PWH
	Gusset-to-Track	17(1)x#10-16 PWH	14(1)x#10-16 PWH	15(1)x#8-18 PMTH	13(1)x#8-18 PMTH	12(1)x#8-18 PMTH	10(1)x#8-18 PMTH	8(1)x#8-18 PMTH	7(1)x#8-18 PMTH

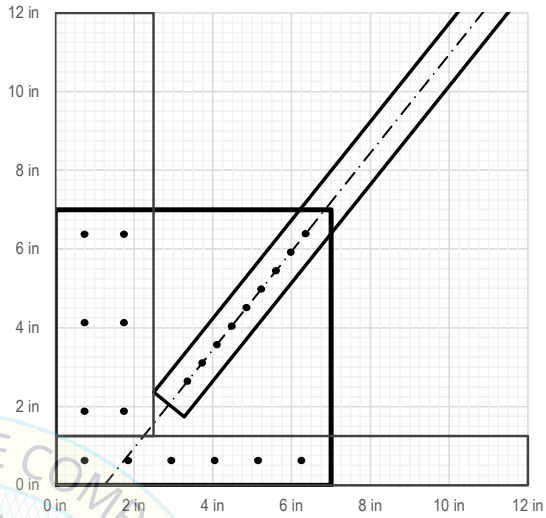
RELEASED FOR CODE COMPLIANCE PCS-0003 BY ICC-ES CODE DATE 03/21/2022 SUBJECT TO CONDITIONS OF REPORT

CONNECTION DETAILS					S3		100FS-33-50
STRAP TYPE:	**Strap Width**	1.00 in	**Strap Thick.**	33 mils	**Strap Grade**	50 ksi	

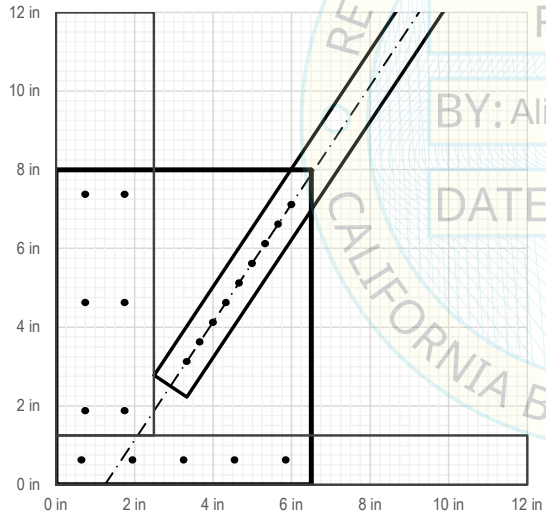
DETAIL 7.1.1



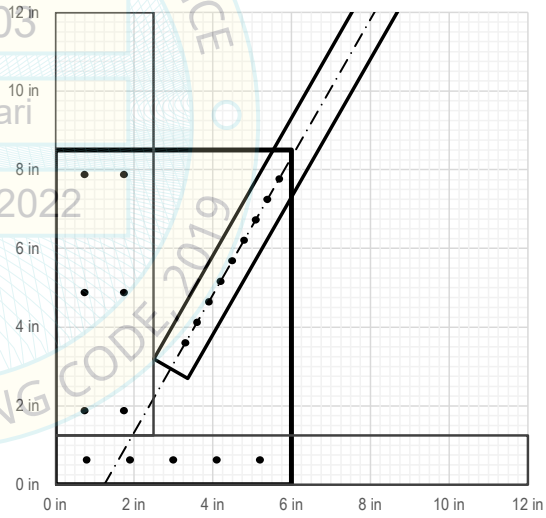
DETAIL 7.1.2



DETAIL 7.1.3



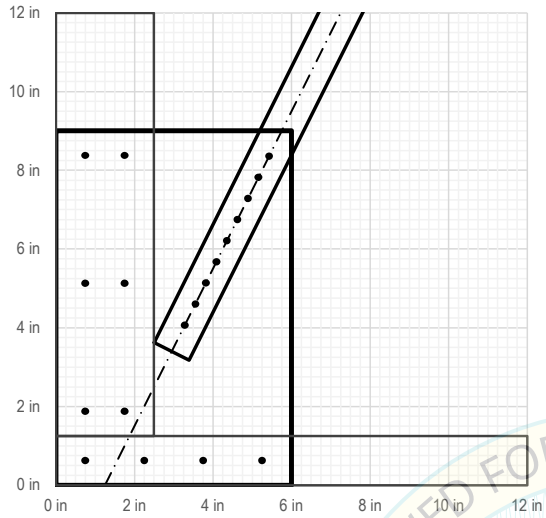
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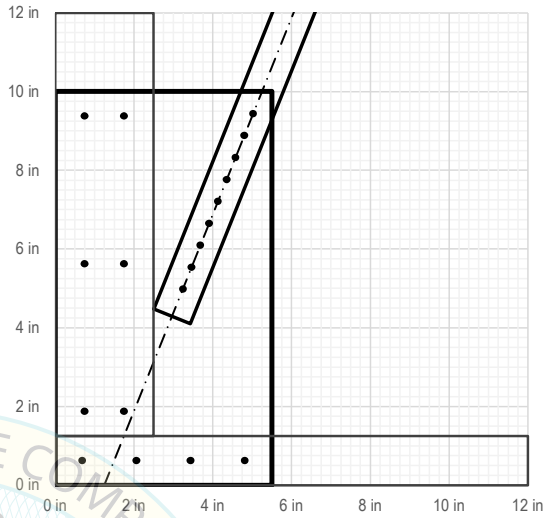
REVIEWED FOR CODE COMPLIANCE
HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS					S3		100FS-33-50
STRAP TYPE:	**Strap Width**	1.00 in	**Strap Thick.**	33 mils	**Strap Grade**	50 ksi	

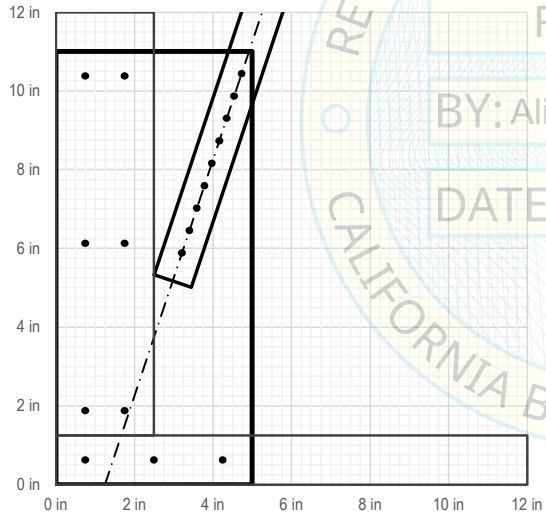
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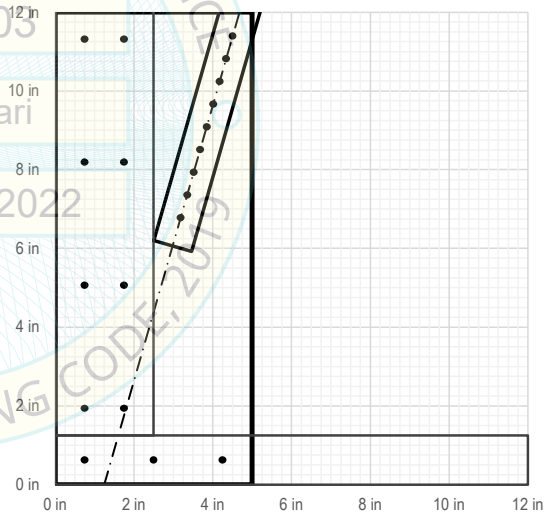
DETAIL 7.1.6



DETAIL 7.1.7



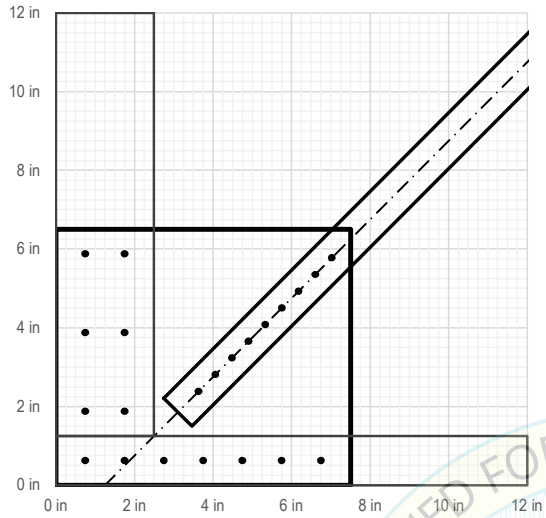
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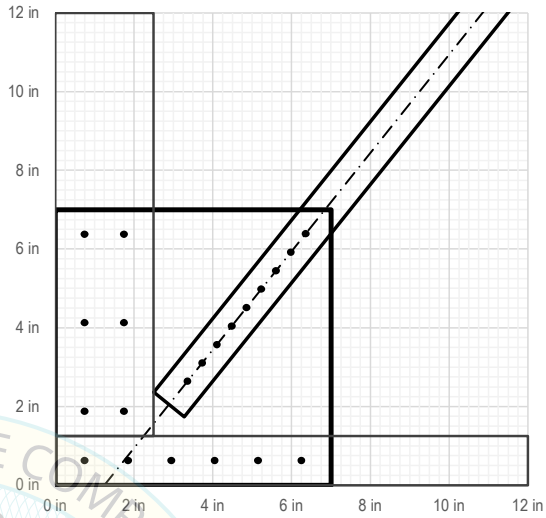
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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE, 2019

CONNECTION DETAILS					S3		100FS-33-50
STRAP TYPE:	**Strap Width**	1.00 in	**Strap Thick.**	33 mils	**Strap Grade**	50 ksi	

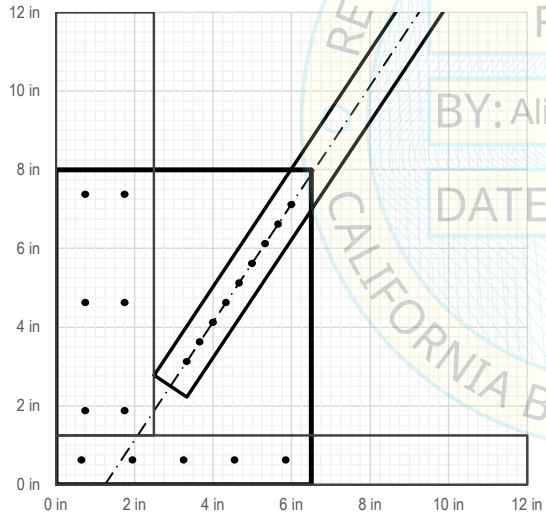
DETAIL 7.2.1



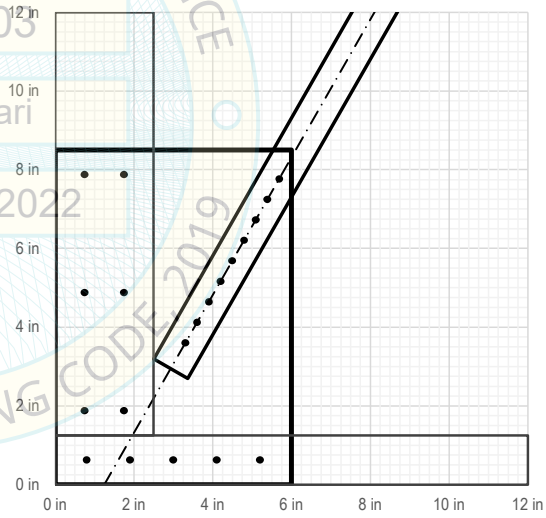
DETAIL 7.2.2



DETAIL 7.2.3



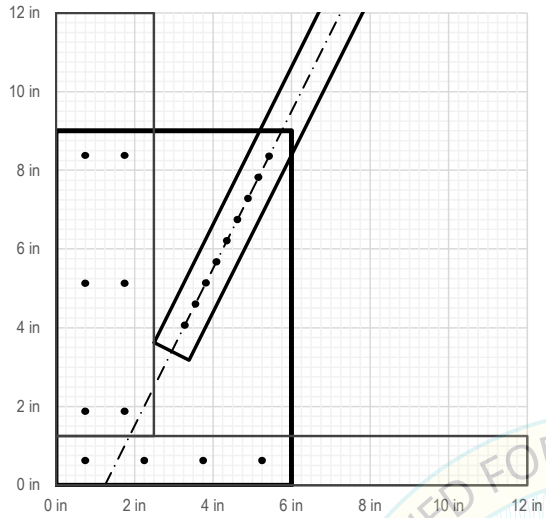
DETAIL 7.2.4



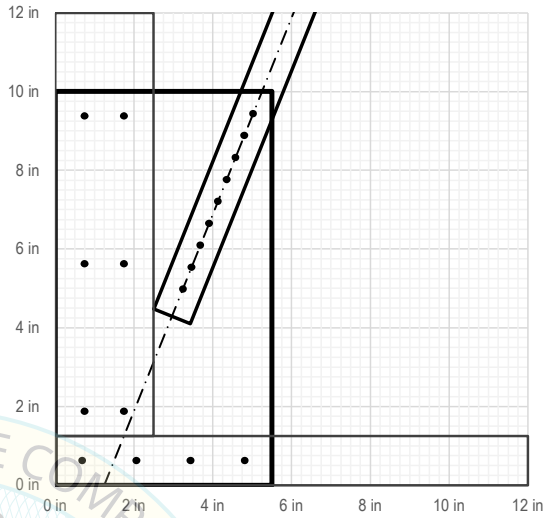
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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS					S3		100FS-33-50
STRAP TYPE:	**Strap Width**	1.00 in	**Strap Thick.**	33 mils	**Strap Grade**	50 ksi	

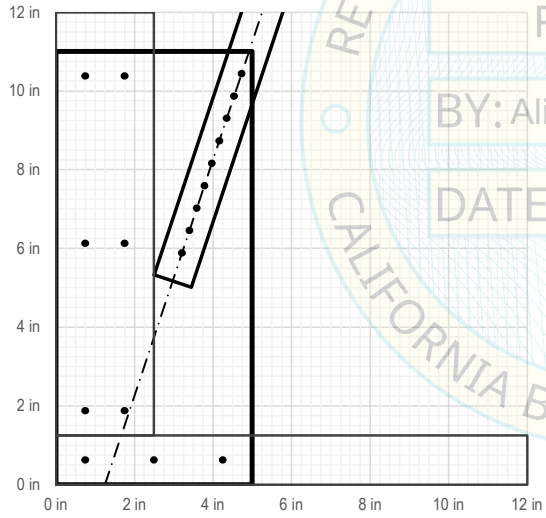
DETAIL 7.2.5



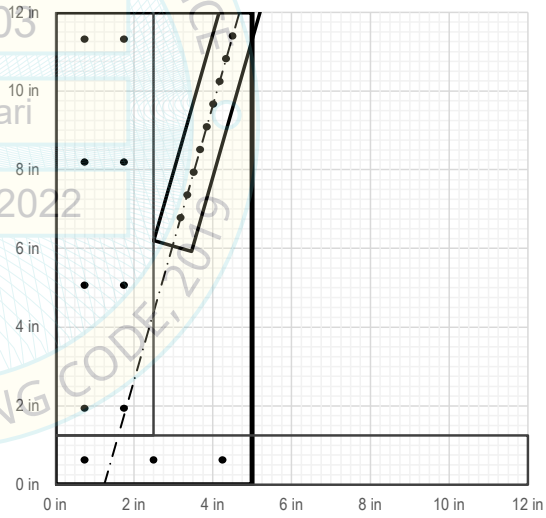
DETAIL 7.2.6



DETAIL 7.2.7



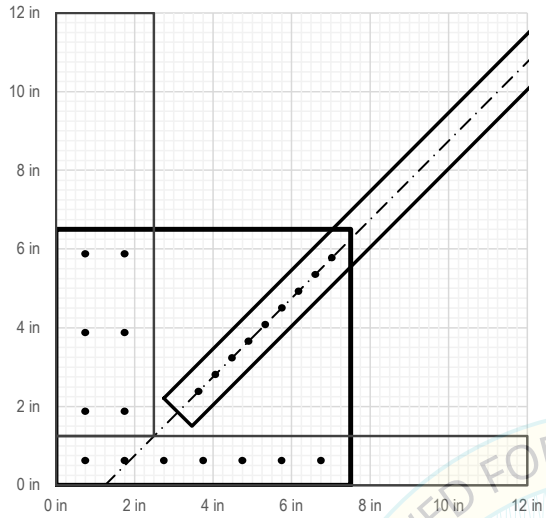
DETAIL 7.2.8



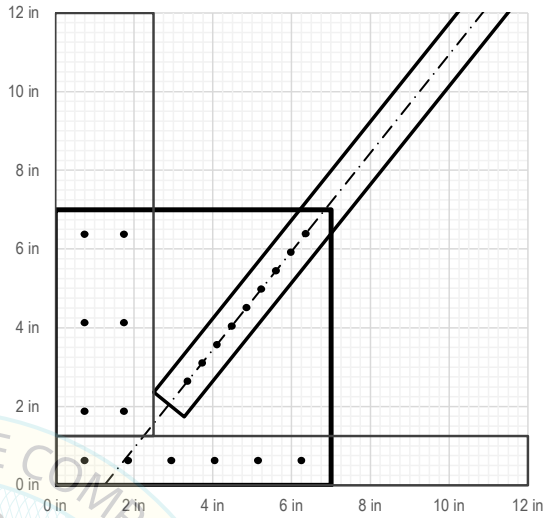
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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE, 2019

CONNECTION DETAILS			S3		100FS-33-50
STRAP TYPE:	Strap Width	1.00 in	Strap Thick.	33 mils	Strap Grade	50 ksi

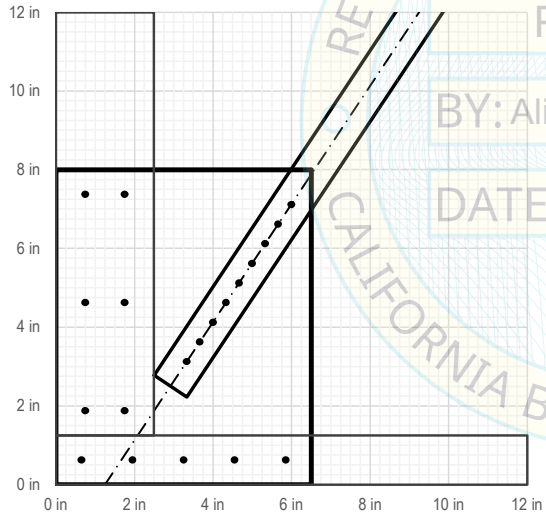
DETAIL 7.3.1



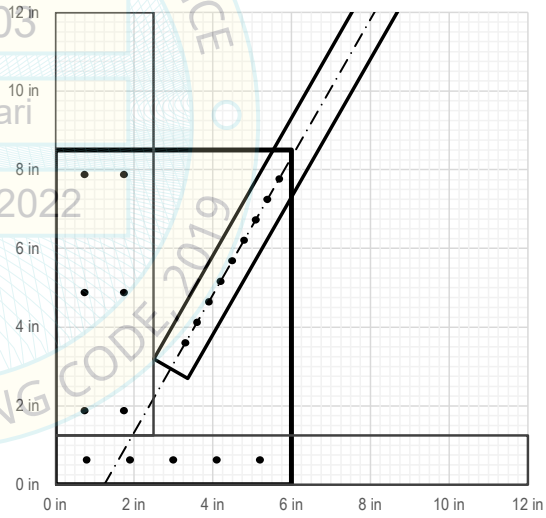
DETAIL 7.3.2



DETAIL 7.3.3



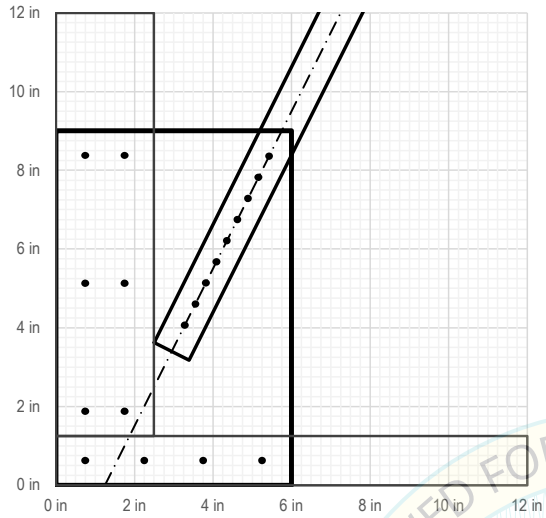
DETAIL 7.3.4



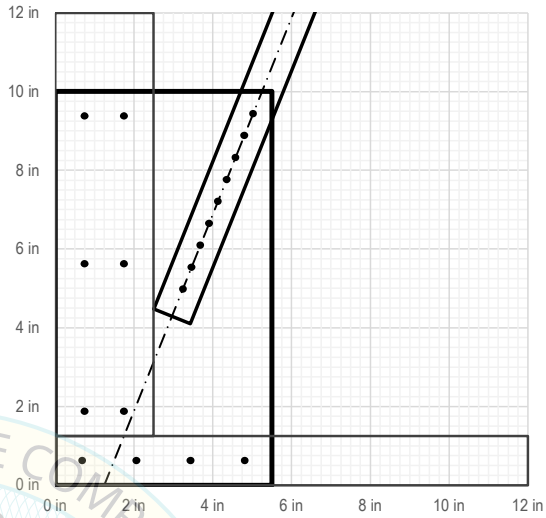
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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS					S3		100FS-33-50
STRAP TYPE:	**Strap Width**	1.00 in	**Strap Thick.**	33 mils	**Strap Grade**	50 ksi	

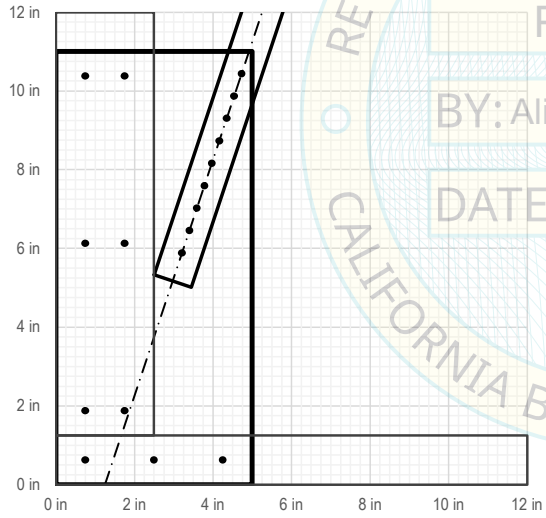
DETAIL 7.3.5



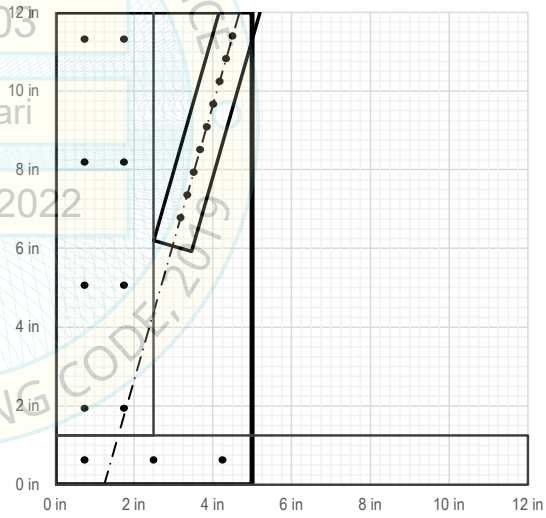
DETAIL 7.3.6



DETAIL 7.3.7



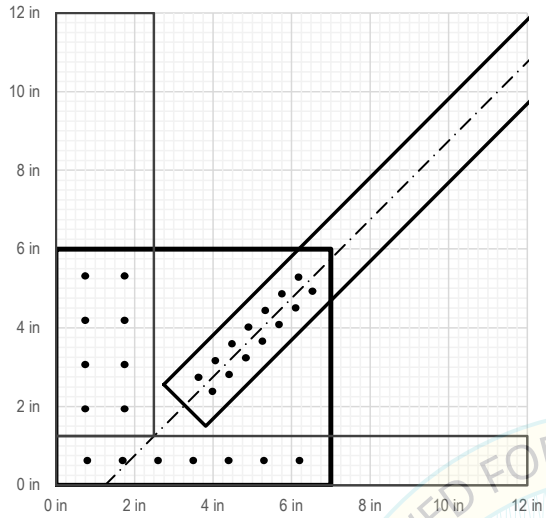
DETAIL 7.3.8



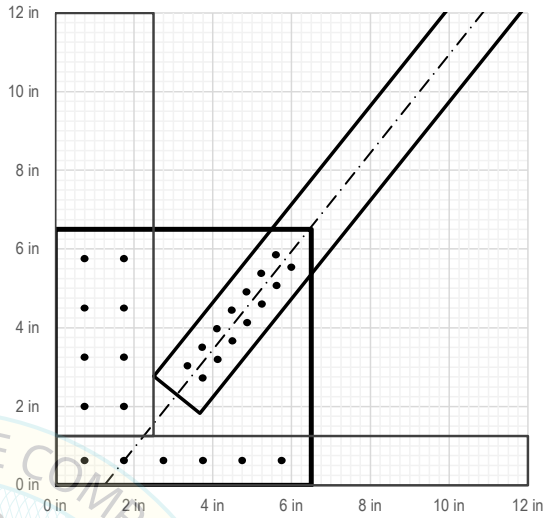
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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE, 2019

CONNECTION DETAILS					S3		150FS-33-50
STRAP TYPE:	**Strap Width**	1.50 in	**Strap Thick.**	33 mils	**Strap Grade**	50 ksi	

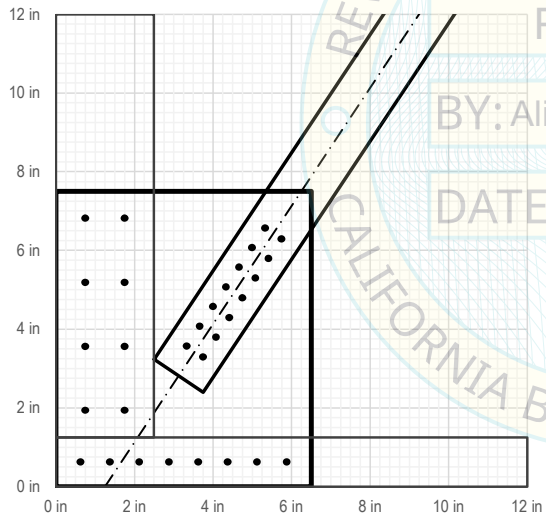
DETAIL 8.1.1



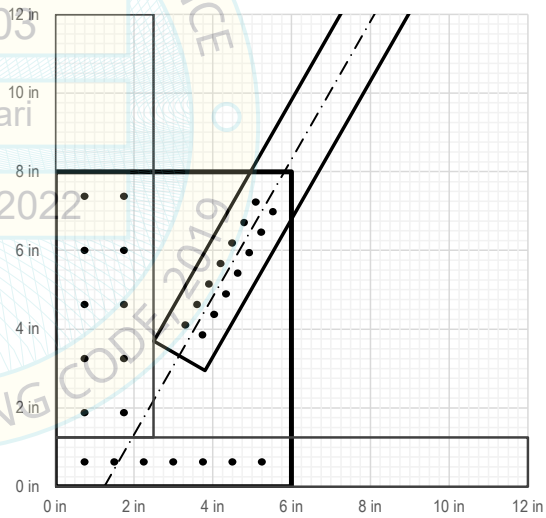
DETAIL 8.1.2



DETAIL 8.1.3



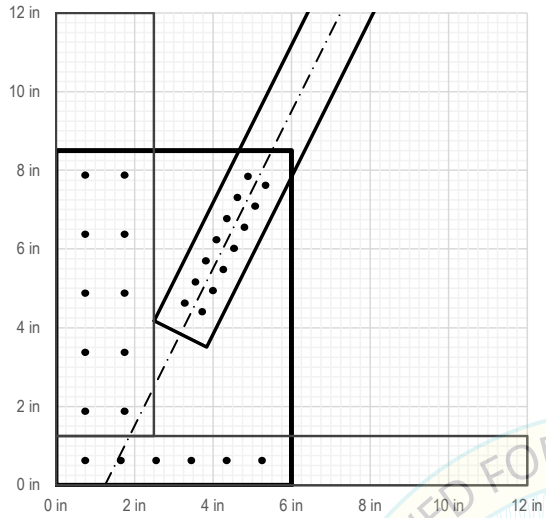
DETAIL 8.1.4



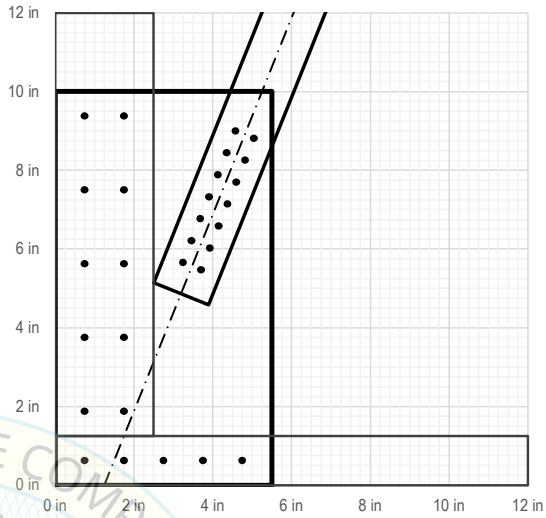
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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS					S3		150FS-33-50
STRAP TYPE:	Strap Width	1.50 in	Strap Thick.	33 mils	Strap Grade	50 ksi	

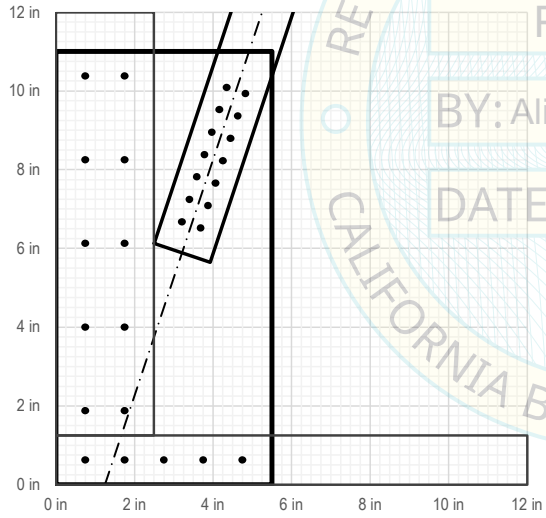
DETAIL 8.1.5



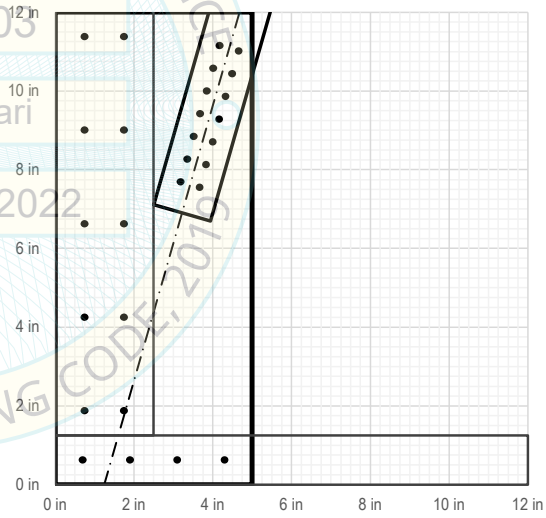
DETAIL 8.1.6



DETAIL 8.1.7



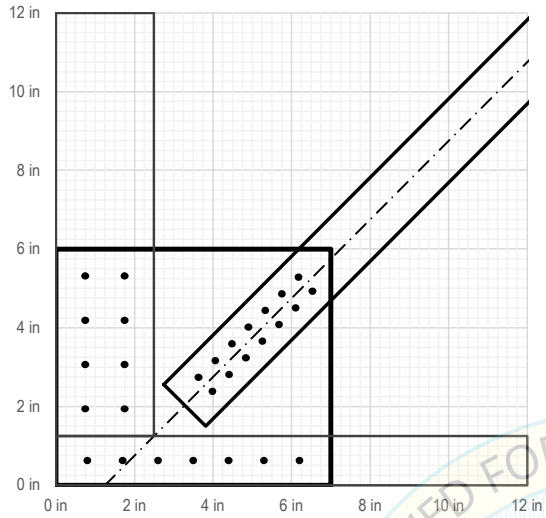
DETAIL 8.1.8



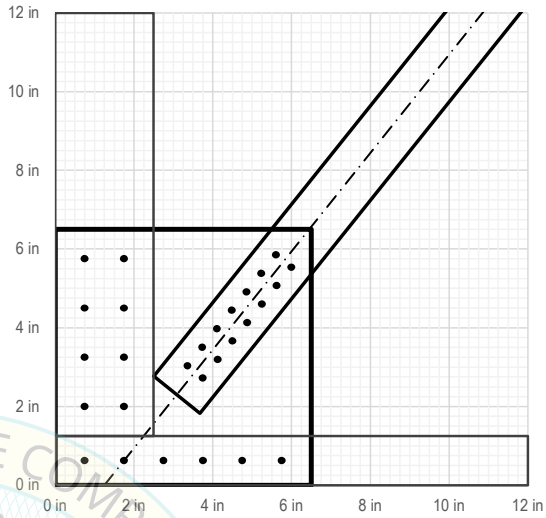
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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE, 2019

CONNECTION DETAILS					S3		150FS-33-50
STRAP TYPE:	Strap Width	1.50 in	Strap Thick.	33 mils	Strap Grade	50 ksi	

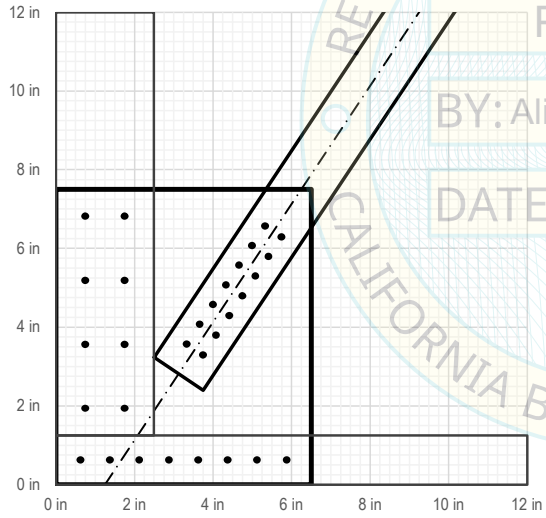
DETAIL 8.2.1



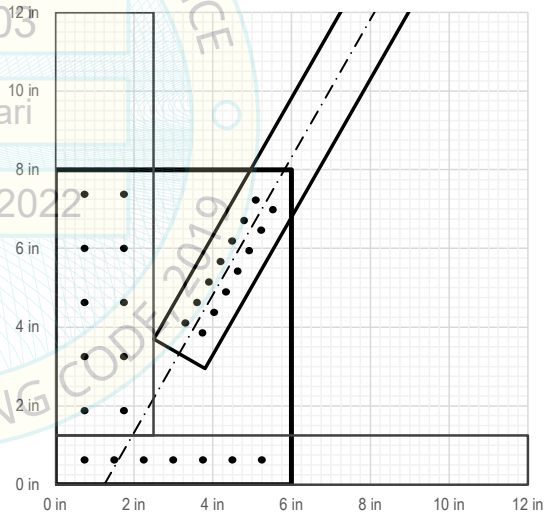
DETAIL 8.2.2



DETAIL 8.2.3



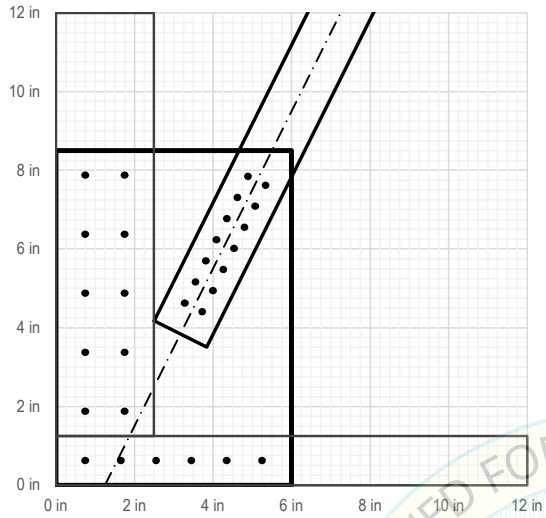
DETAIL 8.2.4



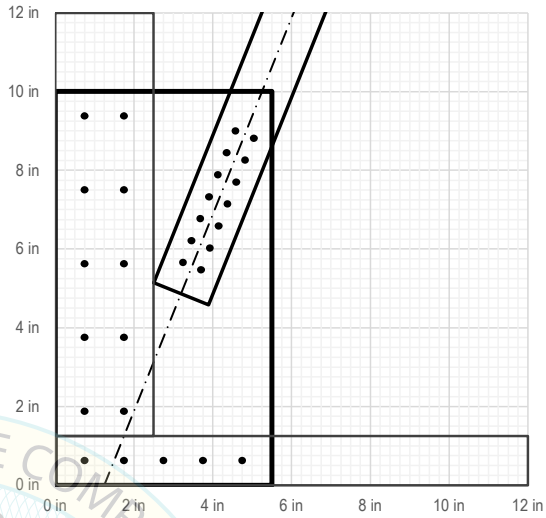
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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS					S3		150FS-33-50
STRAP TYPE:	Strap Width	1.50 in	Strap Thick.	33 mils	Strap Grade	50 ksi	

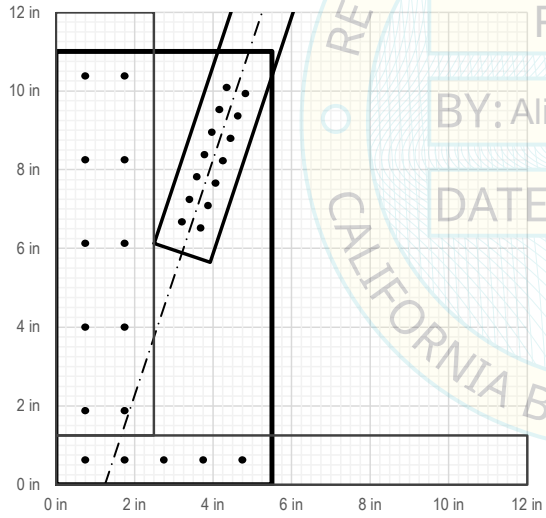
DETAIL 8.2.5



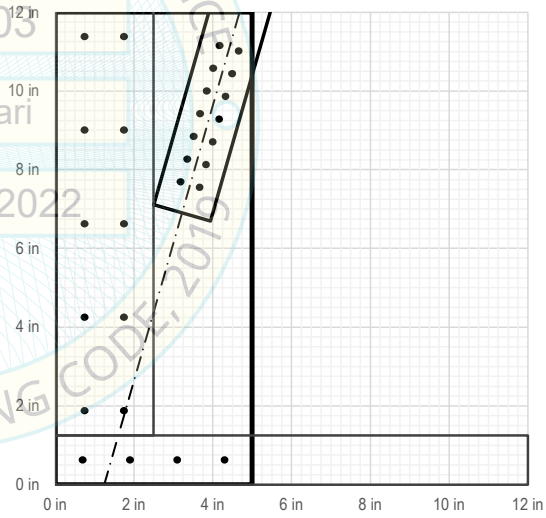
DETAIL 8.2.6



DETAIL 8.2.7



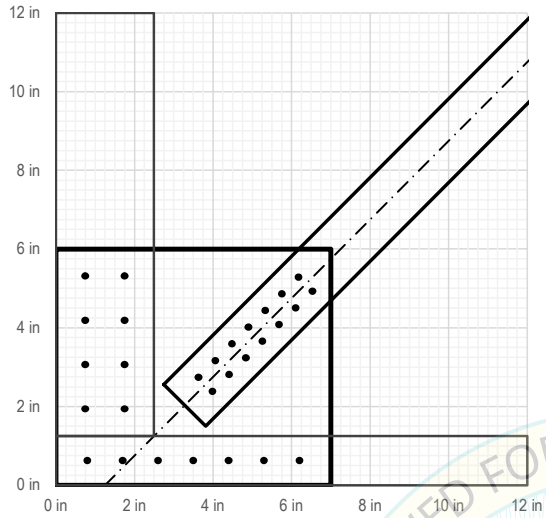
DETAIL 8.2.8



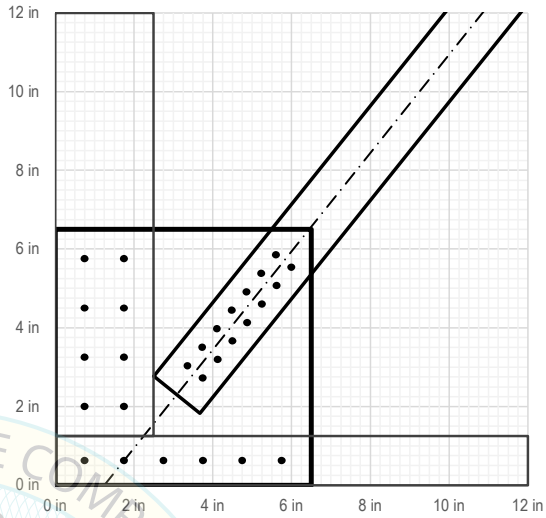
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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE, 2019

CONNECTION DETAILS					S3		150FS-33-50
STRAP TYPE:	**Strap Width**	1.50 in	**Strap Thick.**	33 mils	**Strap Grade**	50 ksi	

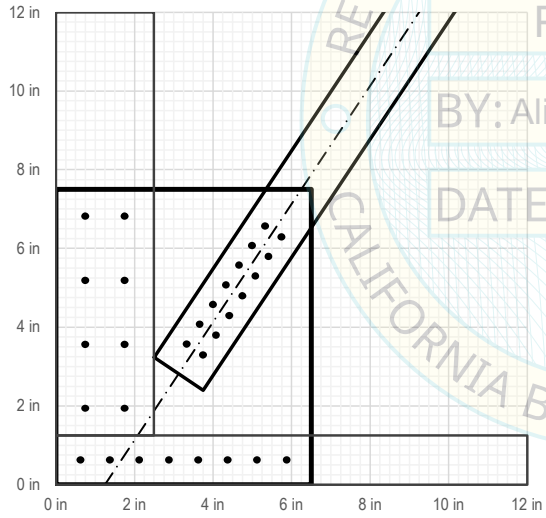
DETAIL 8.3.1



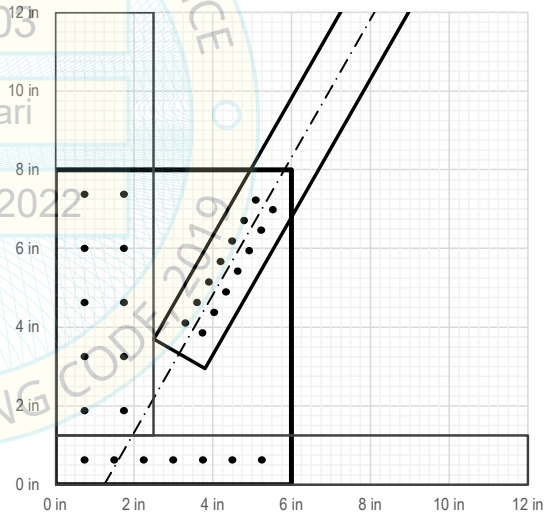
DETAIL 8.3.2



DETAIL 8.3.3



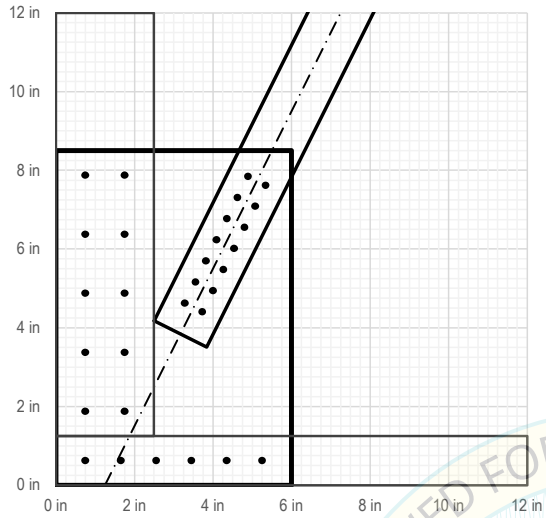
DETAIL 8.3.4



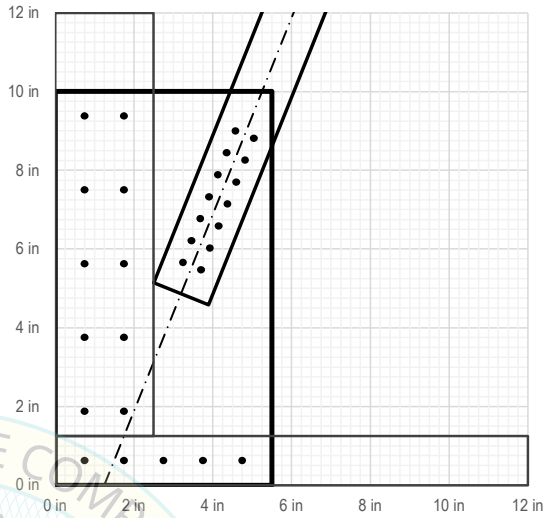
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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS					S3		150FS-33-50
STRAP TYPE:	Strap Width	1.50 in	Strap Thick.	33 mils	Strap Grade	50 ksi	

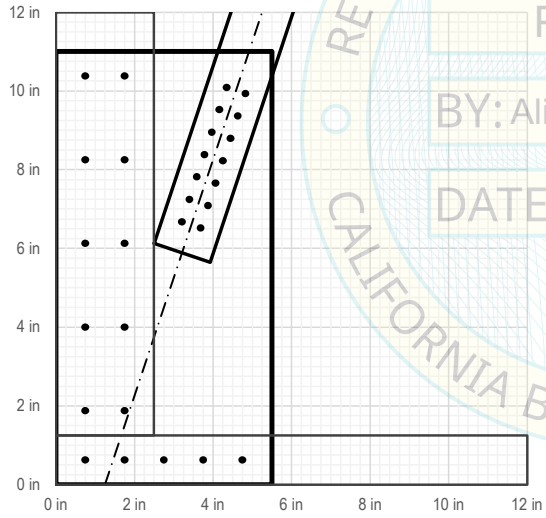
DETAIL 8.3.5



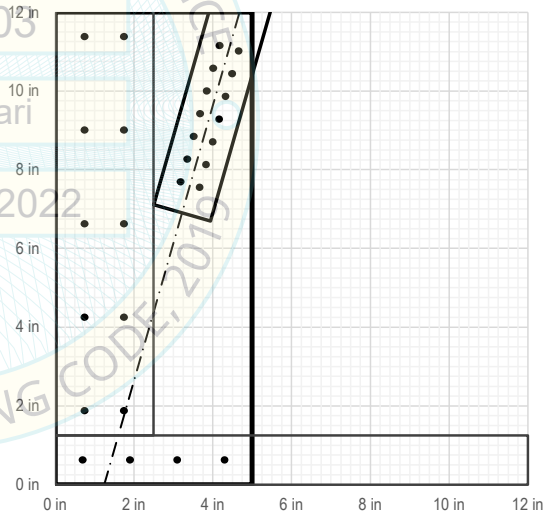
DETAIL 8.3.6



DETAIL 8.3.7



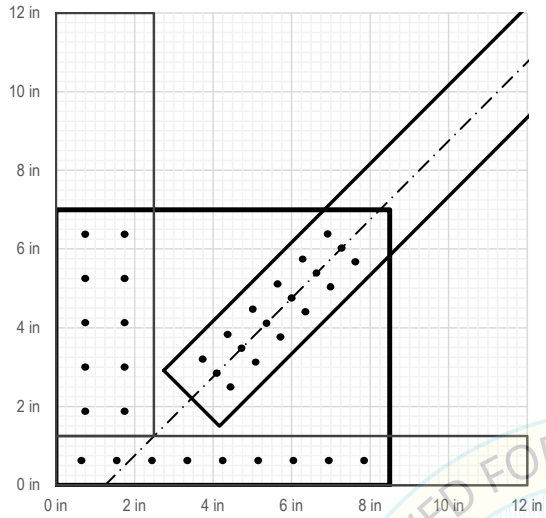
DETAIL 8.3.8



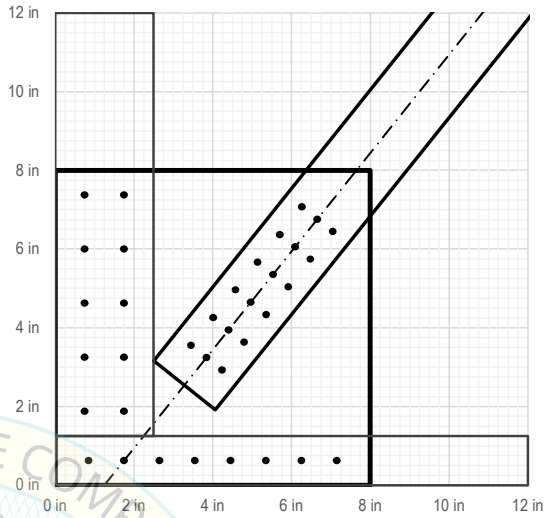
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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE, 2019

CONNECTION DETAILS					S3		200FS-33-50
STRAP TYPE:	**Strap Width**	2.00 in	**Strap Thick.**	33 mils	**Strap Grade**	50 ksi	

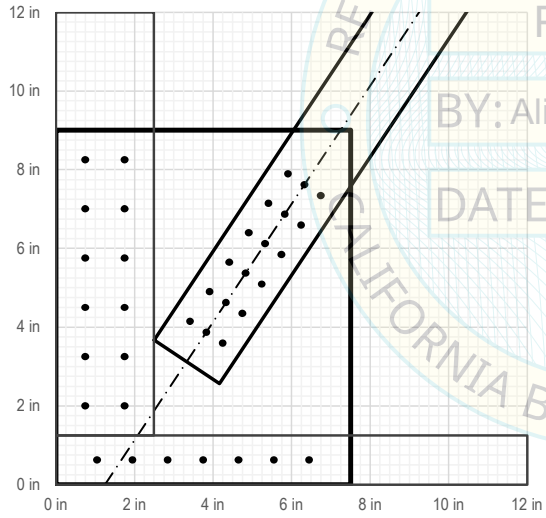
DETAIL 9.1.1



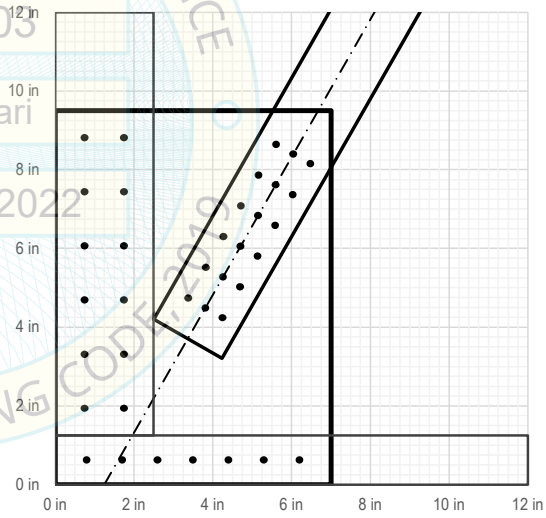
DETAIL 9.1.2



DETAIL 9.1.3



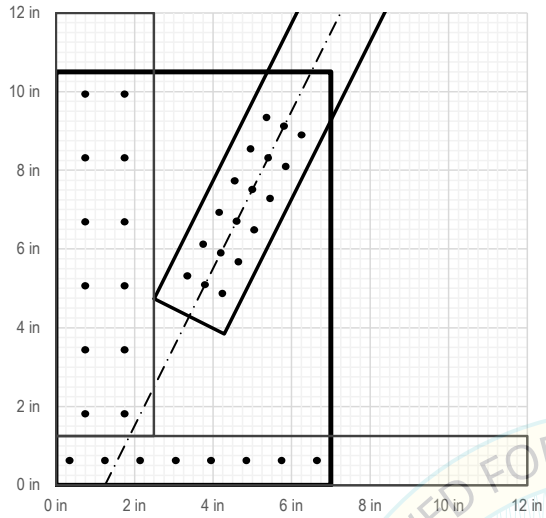
DETAIL 9.1.4



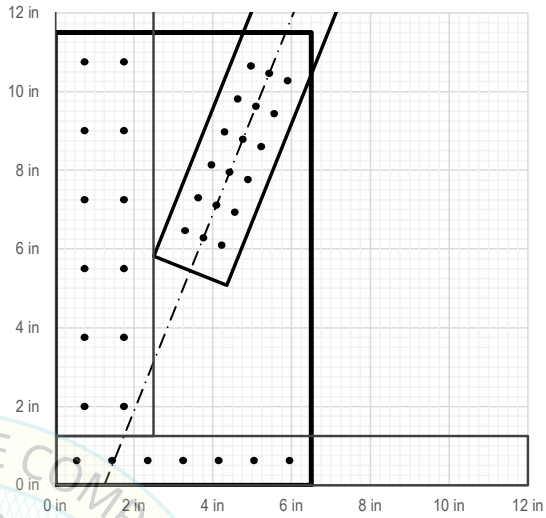
REVIEWED FOR CODE COMPLIANCE
HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE

CONNECTION DETAILS					S3		200FS-33-50
STRAP TYPE:	**Strap Width**	2.00 in	**Strap Thick.**	33 mils	**Strap Grade**	50 ksi	

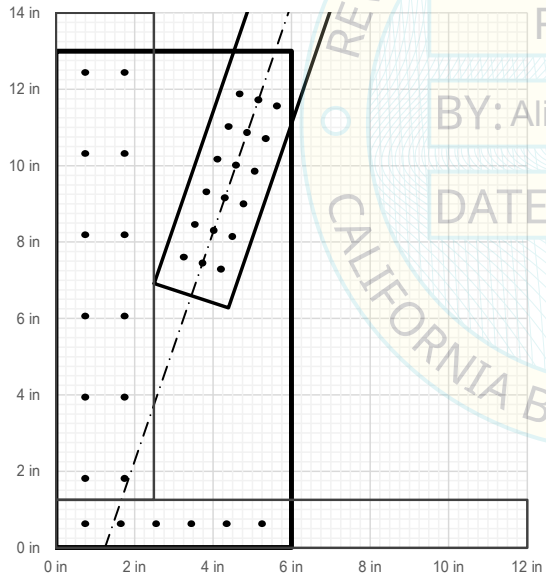
DETAIL 9.1.5



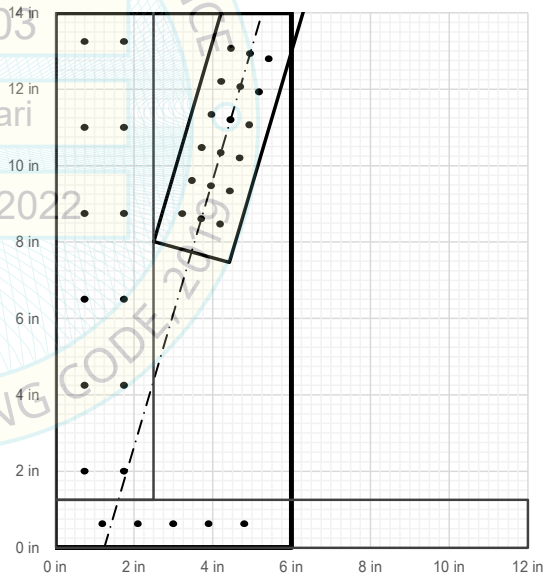
DETAIL 9.1.6



DETAIL 9.1.7



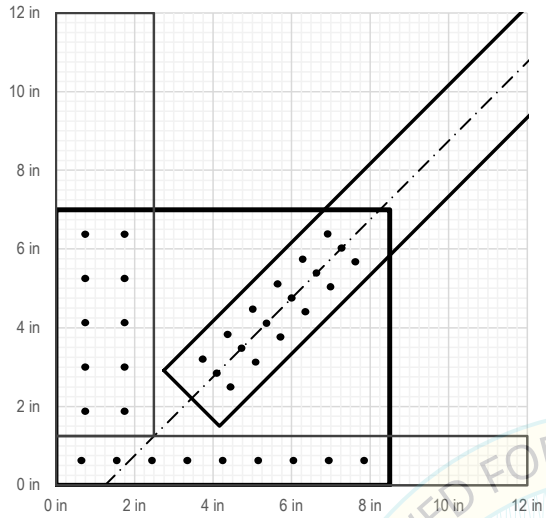
DETAIL 9.1.8



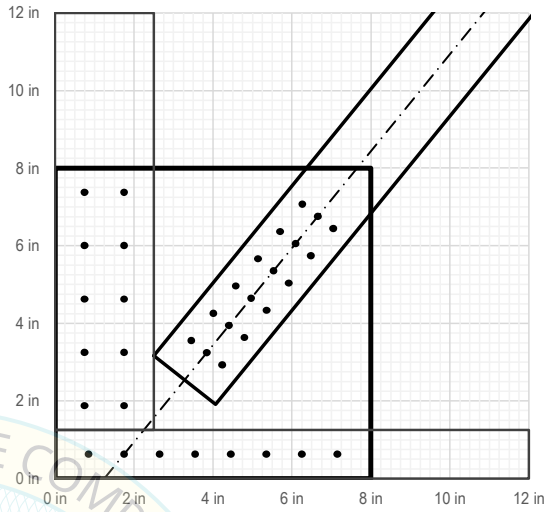
REVIEWED FOR CODE COMPLIANCE
HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS					S3		200FS-33-50
STRAP TYPE:	**Strap Width**	2.00 in	**Strap Thick.**	33 mils	**Strap Grade**	50 ksi	

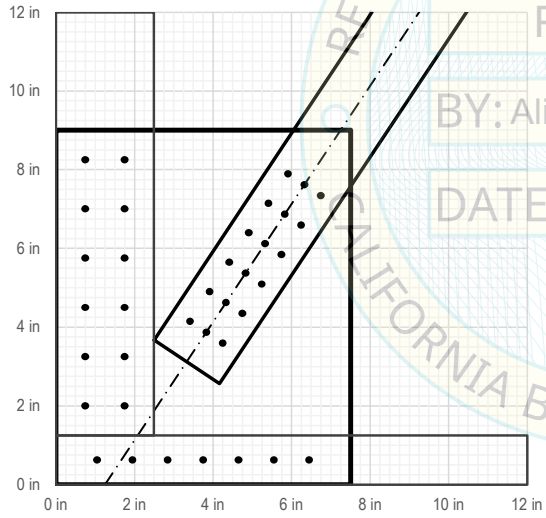
DETAIL 9.2.1



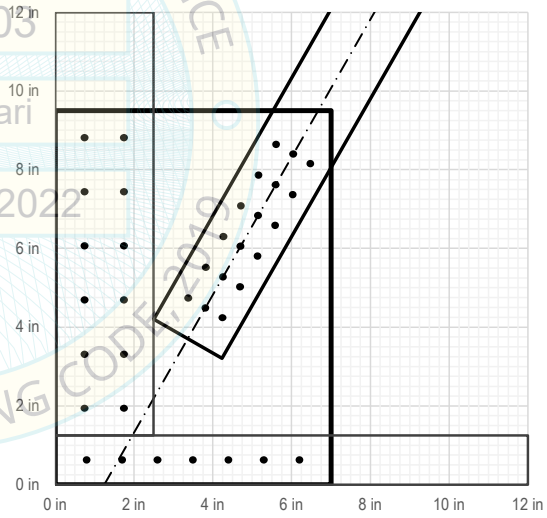
DETAIL 9.2.2



DETAIL 9.2.3



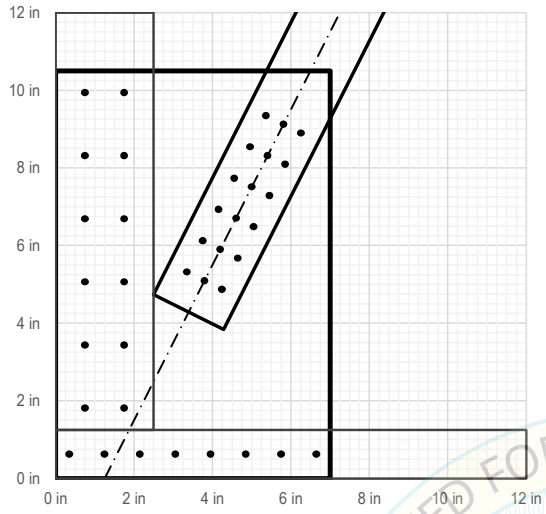
DETAIL 9.2.4



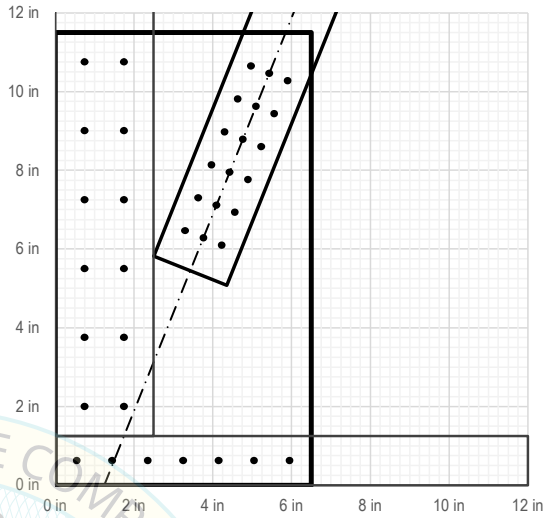
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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE

CONNECTION DETAILS					S3		200FS-33-50
STRAP TYPE:	**Strap Width**	2.00 in	**Strap Thick.**	33 mils	**Strap Grade**	50 ksi	

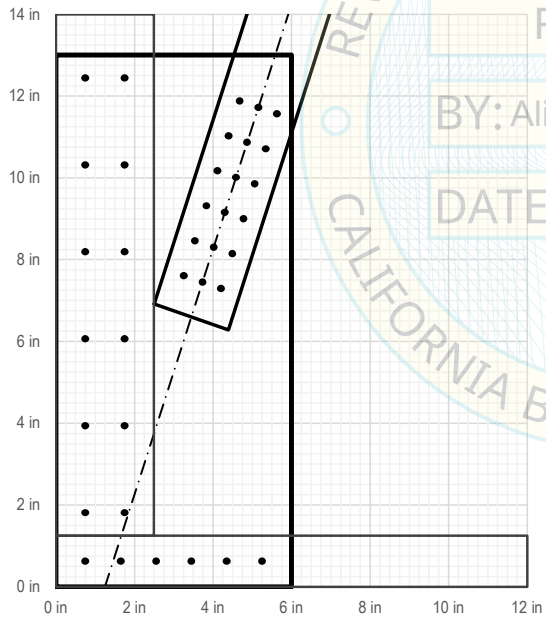
DETAIL 9.2.5



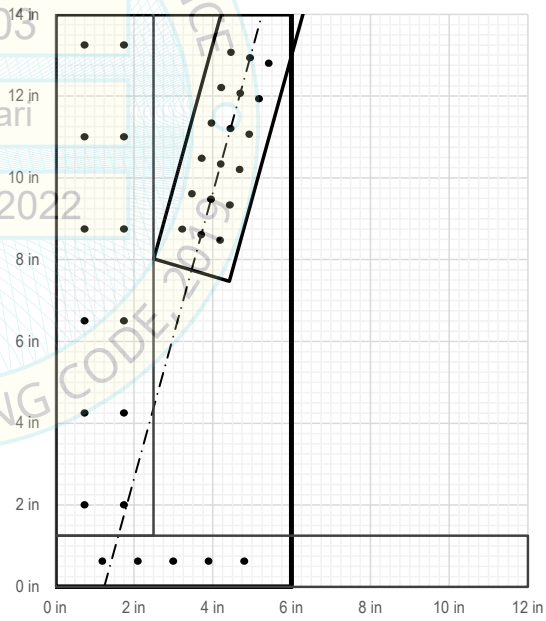
DETAIL 9.2.6



DETAIL 9.2.7



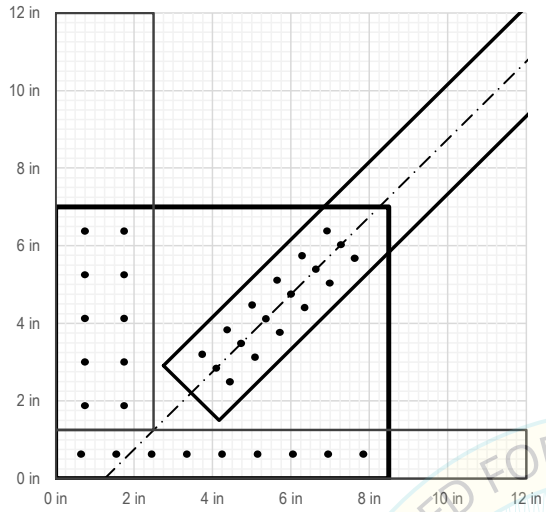
DETAIL 9.2.8



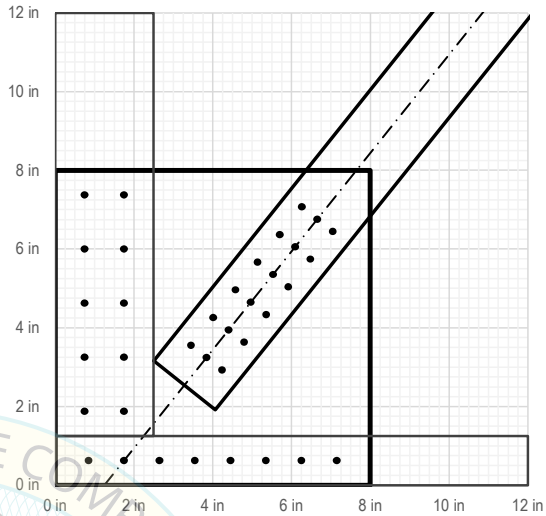
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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS					S3		200FS-33-50
STRAP TYPE:	**Strap Width**	2.00 in	**Strap Thick.**	33 mils	**Strap Grade**	50 ksi	

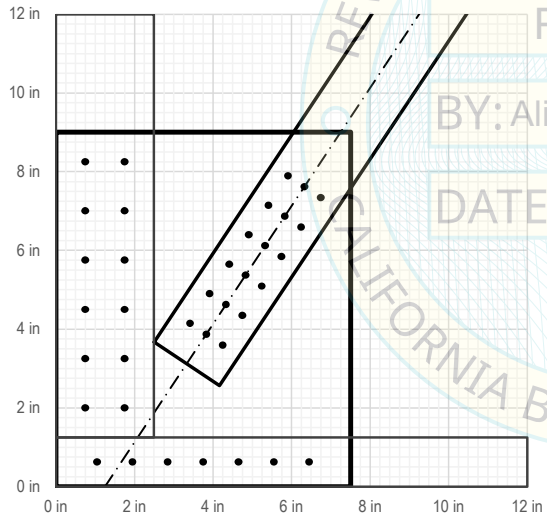
DETAIL 9.3.1



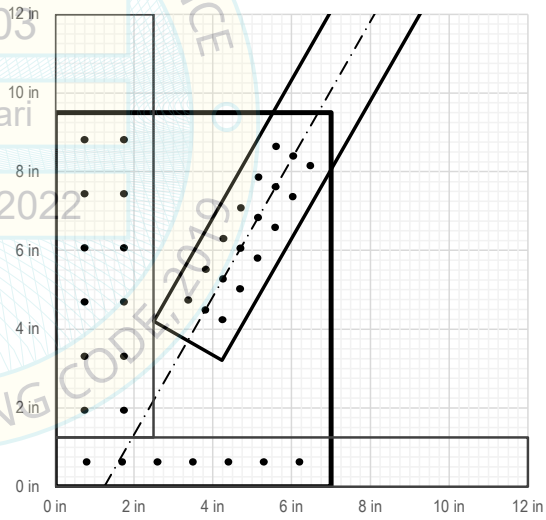
DETAIL 9.3.2



DETAIL 9.3.3



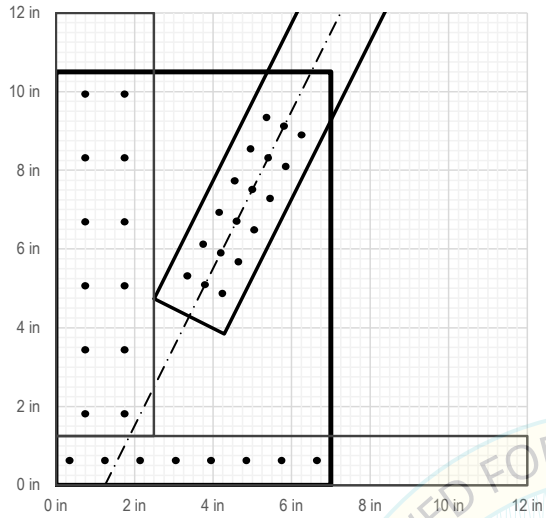
DETAIL 9.3.4



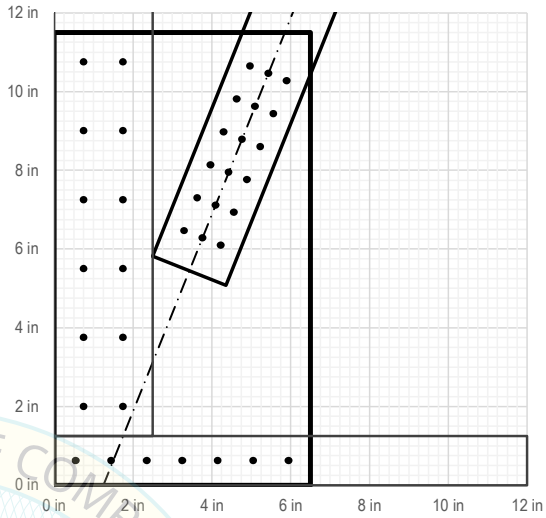
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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE

CONNECTION DETAILS					S3		200FS-33-50
STRAP TYPE:	**Strap Width**	2.00 in	**Strap Thick.**	33 mils	**Strap Grade**	50 ksi	

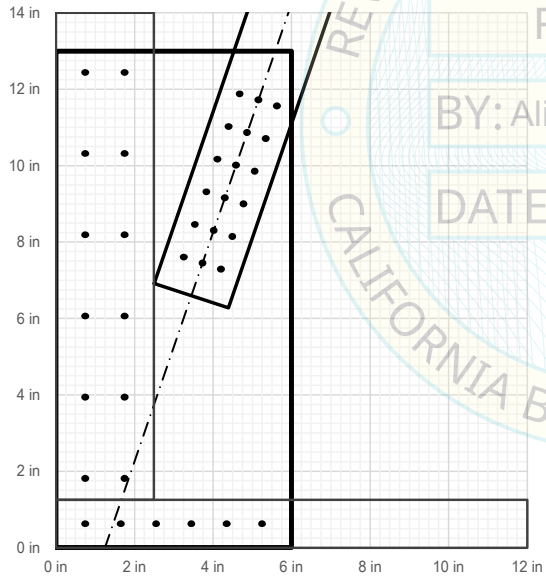
DETAIL 9.3.5



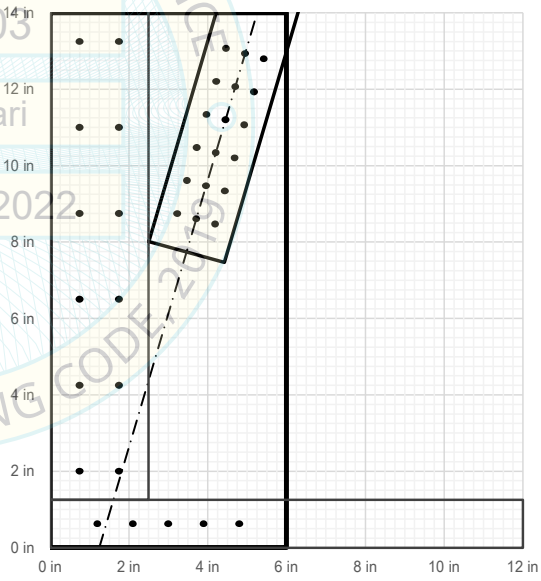
DETAIL 9.3.6



DETAIL 9.3.7



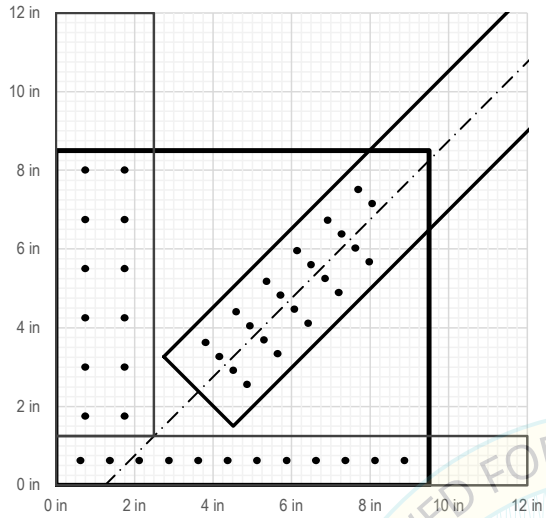
DETAIL 9.3.8



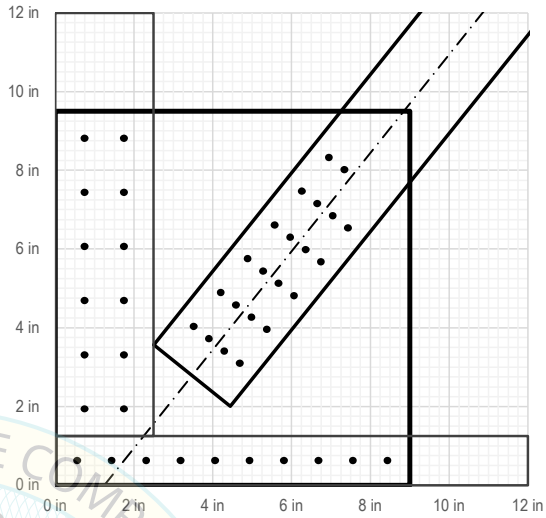
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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS		S3		250FS-33-50
STRAP TYPE:	Strap Width 2.50 in	Strap Thick. 33 mils	Strap Grade 50 ksi	

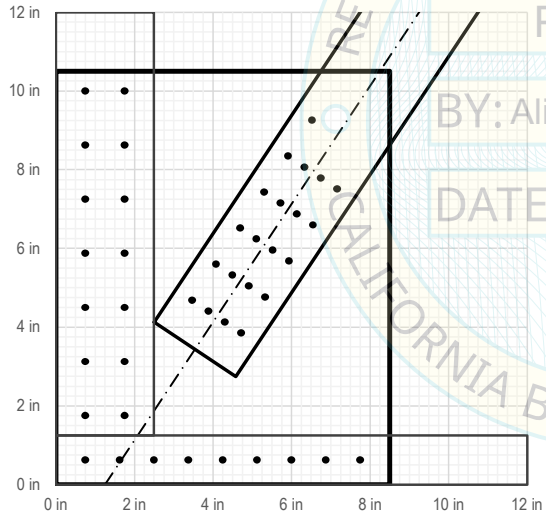
DETAIL 10.1.1



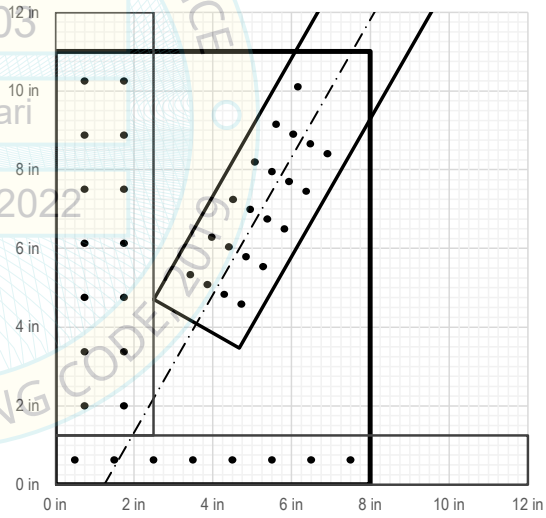
DETAIL 10.1.2



DETAIL 10.1.3



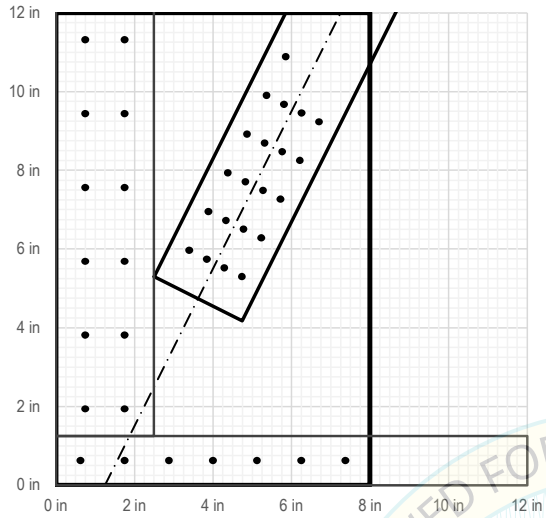
DETAIL 10.1.4



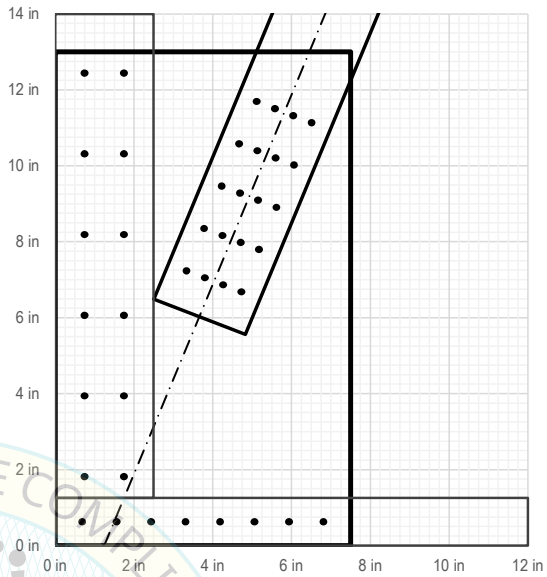
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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS			S3		250FS-33-50
STRAP TYPE:	**Strap Width**	2.50 in	**Strap Thick.**	33 mils	**Strap Grade** 50 ksi

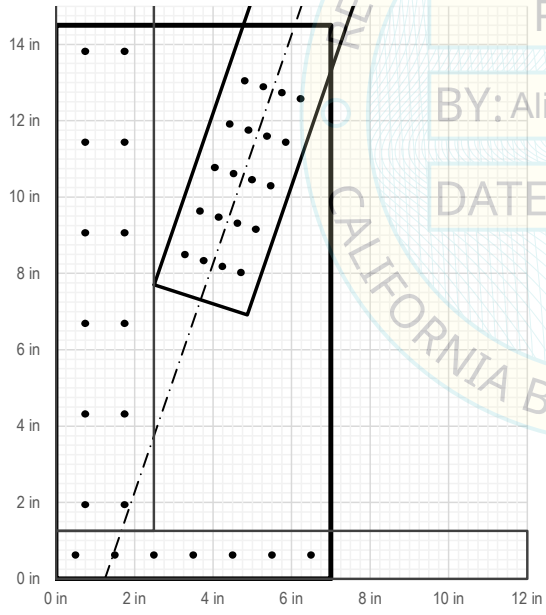
DETAIL 10.1.5



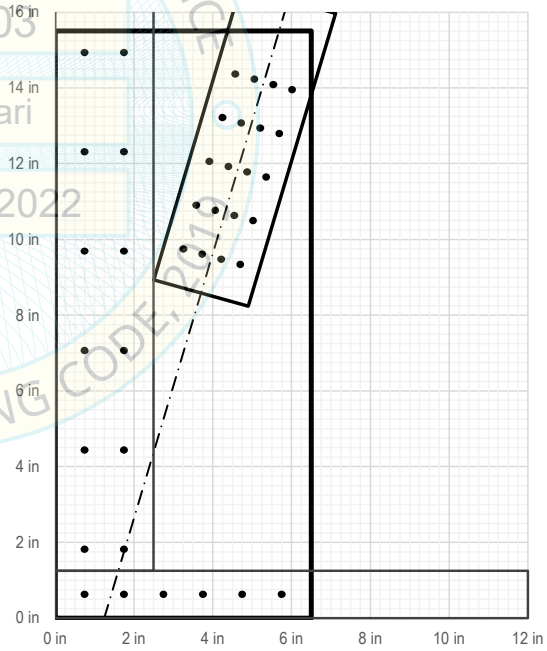
DETAIL 10.1.6



DETAIL 10.1.7



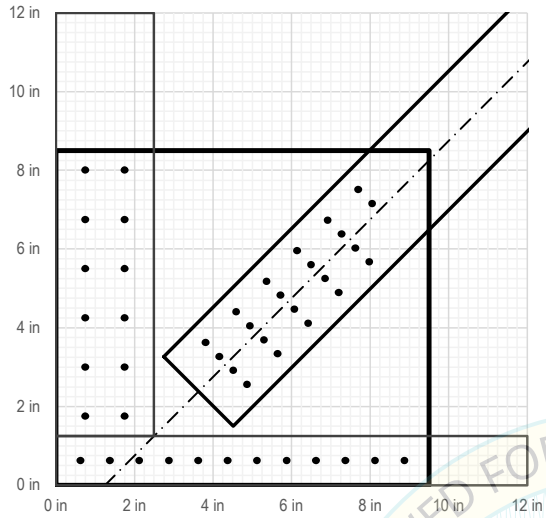
DETAIL 10.1.8



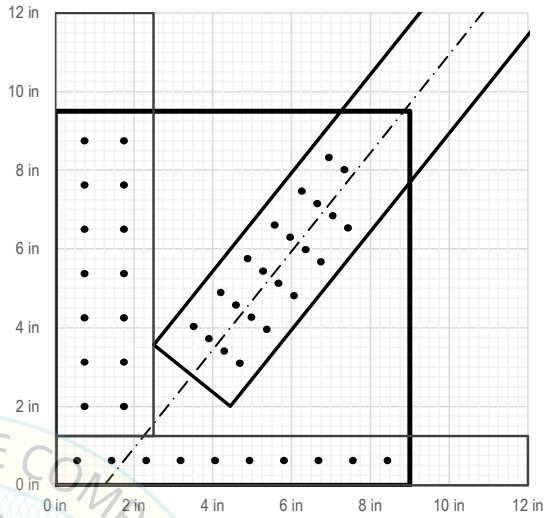
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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS					S3		250FS-33-50
STRAP TYPE:	**Strap Width**	2.50 in	**Strap Thick.**	33 mils	**Strap Grade**	50 ksi	

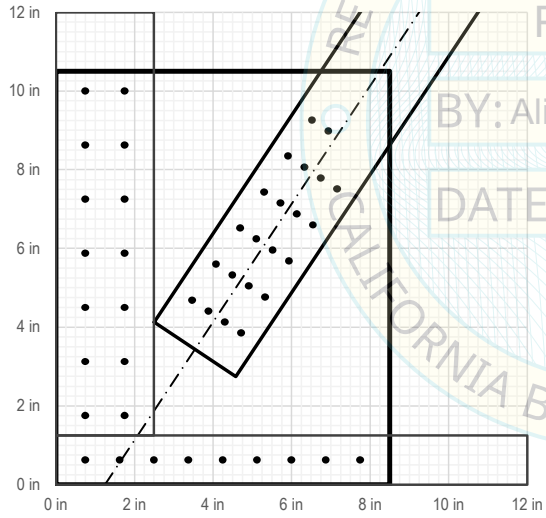
DETAIL 10.2.1



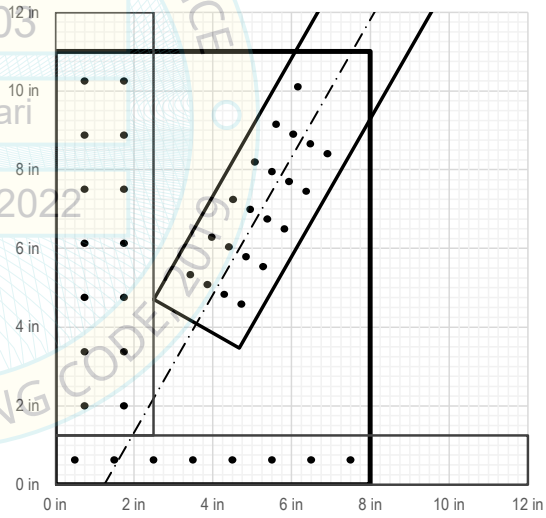
DETAIL 10.2.2



DETAIL 10.2.3



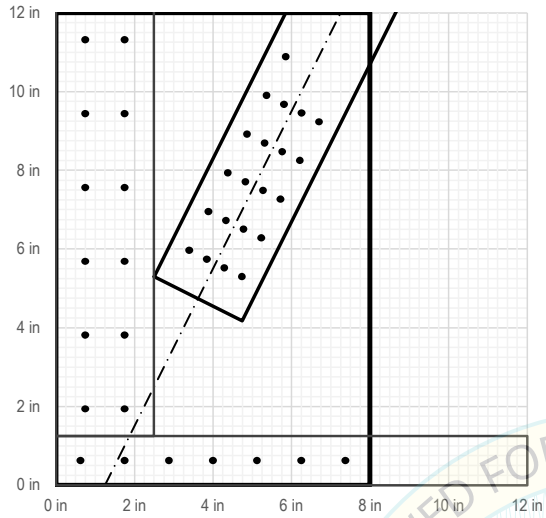
DETAIL 10.2.4



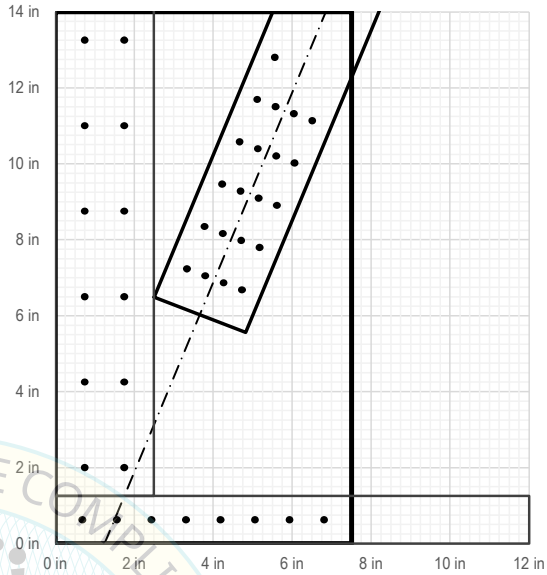
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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS					S3		250FS-33-50
STRAP TYPE:	**Strap Width**	2.50 in	**Strap Thick.**	33 mils	**Strap Grade**	50 ksi	

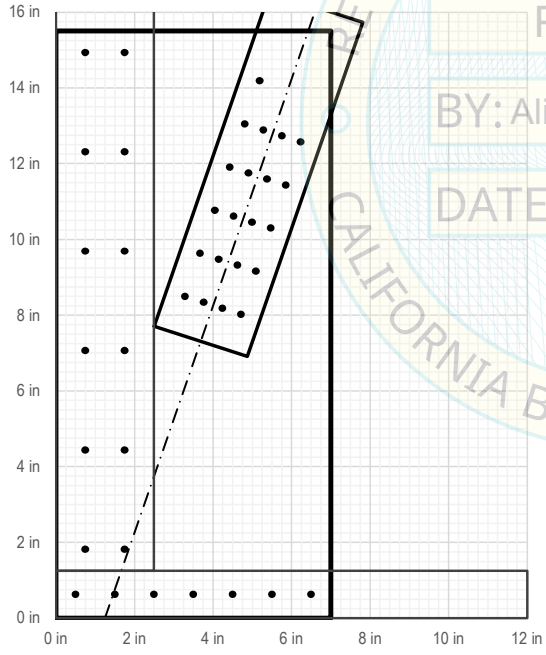
DETAIL 10.2.5



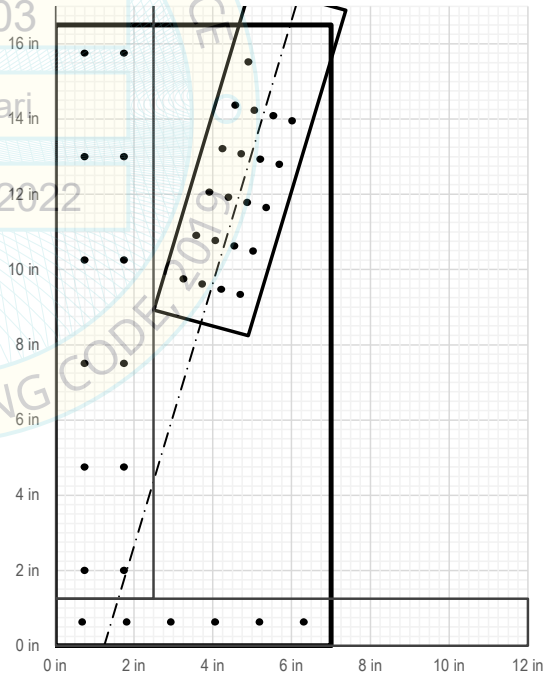
DETAIL 10.2.6



DETAIL 10.2.7



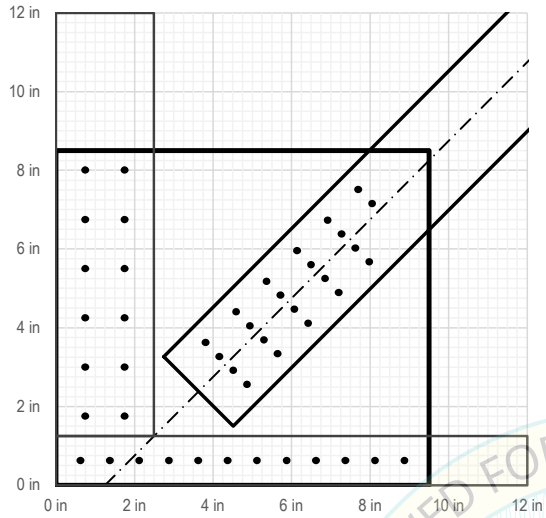
DETAIL 10.2.8



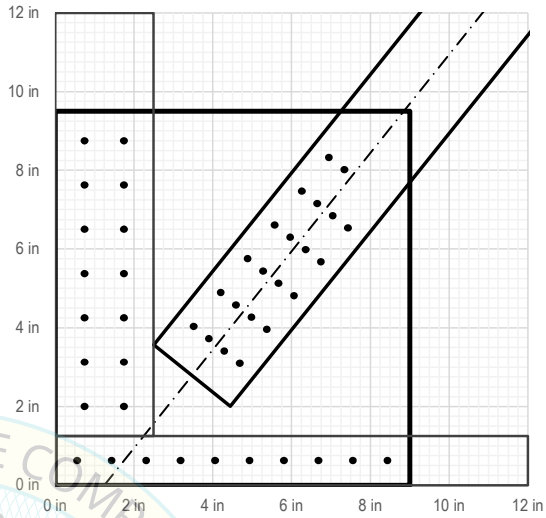
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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS					S3		250FS-33-50
STRAP TYPE:	**Strap Width**	2.50 in	**Strap Thick.**	33 mils	**Strap Grade**	50 ksi	

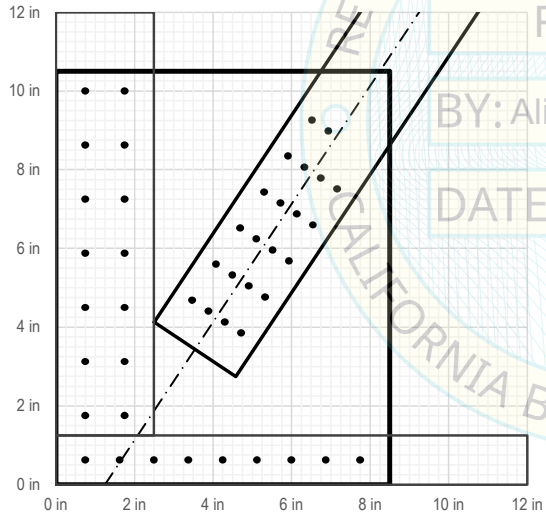
DETAIL 10.3.1



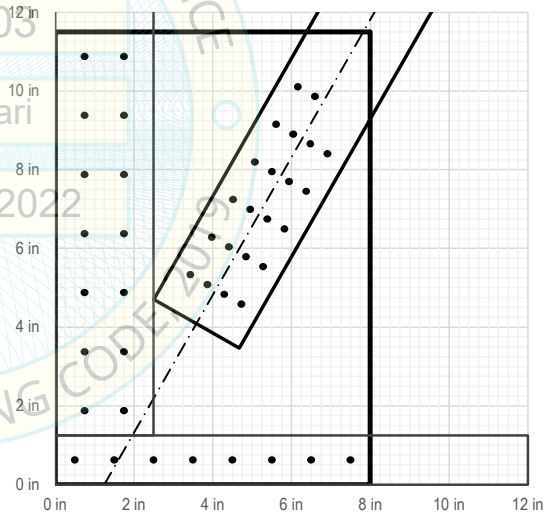
DETAIL 10.3.2



DETAIL 10.3.3



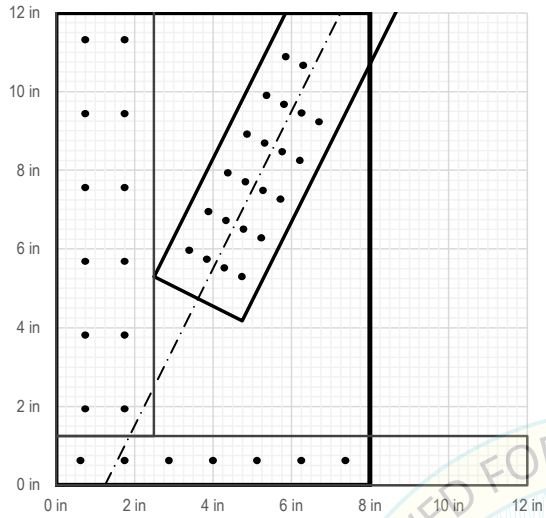
DETAIL 10.3.4



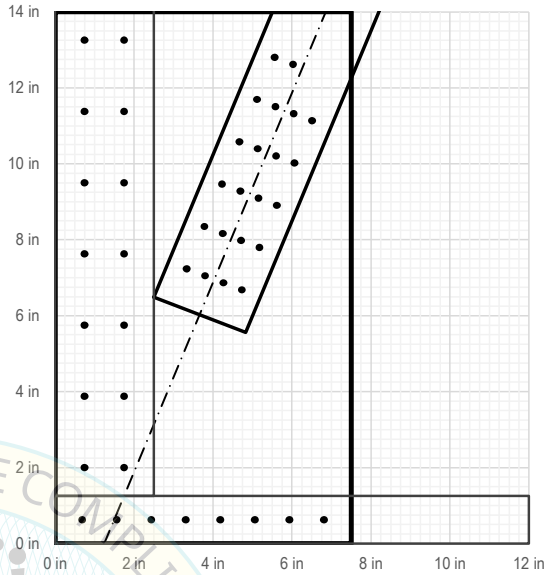
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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS					S3		250FS-33-50
STRAP TYPE:	Strap Width	2.50 in	Strap Thick.	33 mils	Strap Grade	50 ksi	

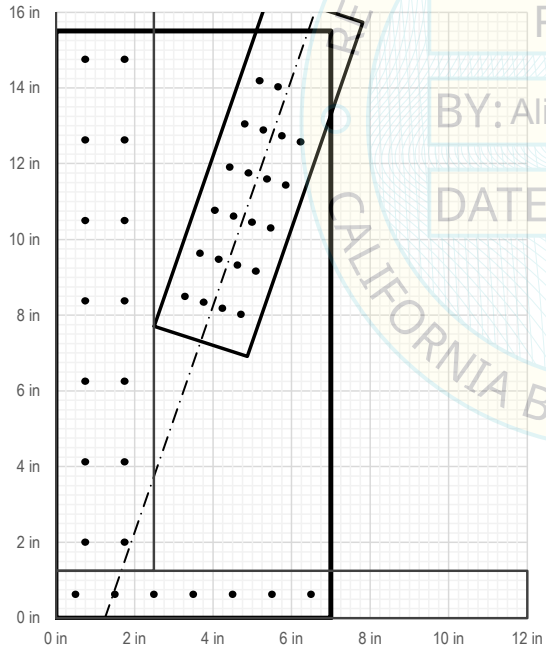
DETAIL 10.3.5



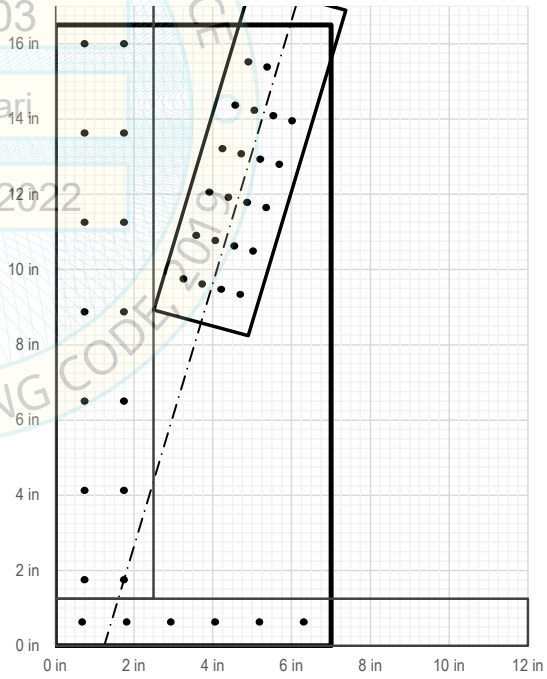
DETAIL 10.3.6



DETAIL 10.3.7



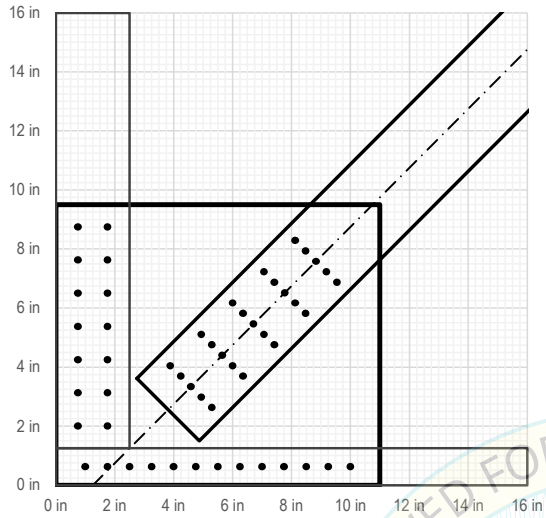
DETAIL 10.3.8



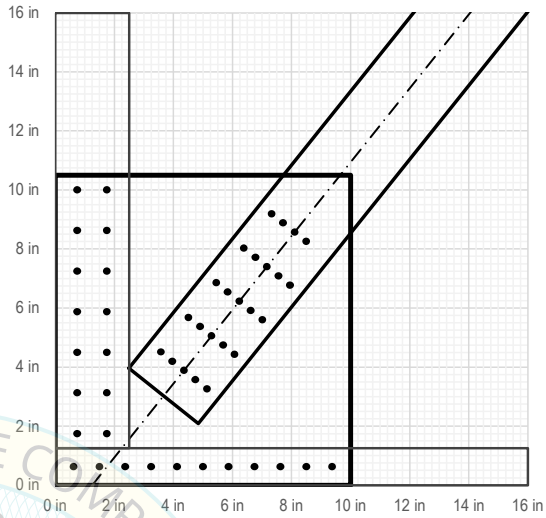
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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE

CONNECTION DETAILS					S3		300FS-33-50
STRAP TYPE:	Strap Width	3.00 in	Strap Thick.	33 mils	Strap Grade	50 ksi	

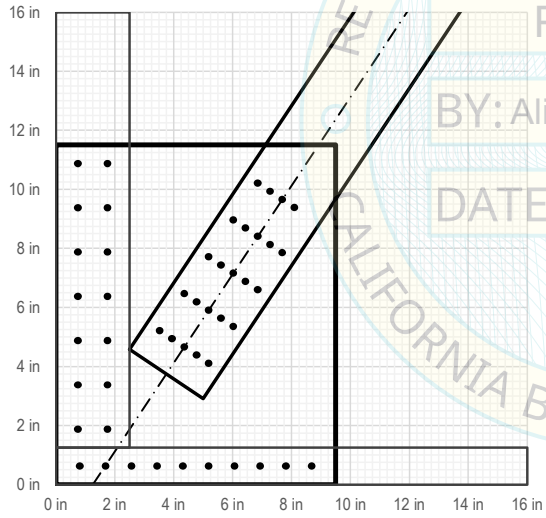
DETAIL 11.1.1



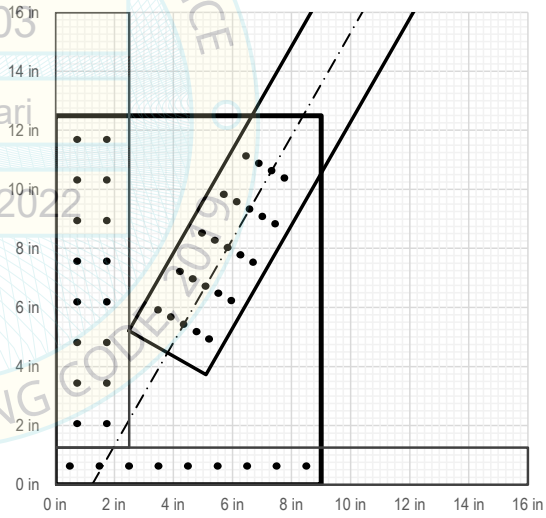
DETAIL 11.1.2



DETAIL 11.1.3



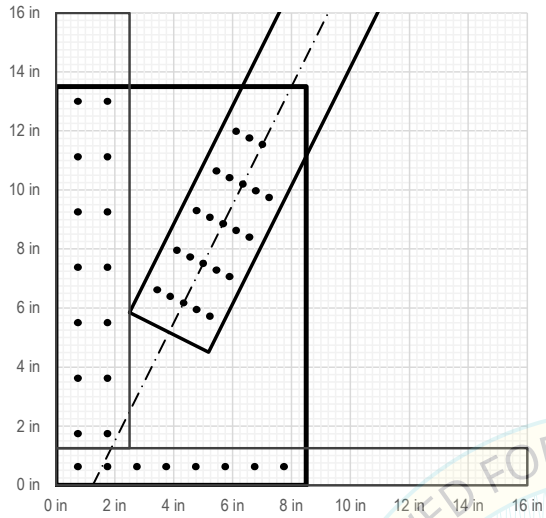
DETAIL 11.1.4



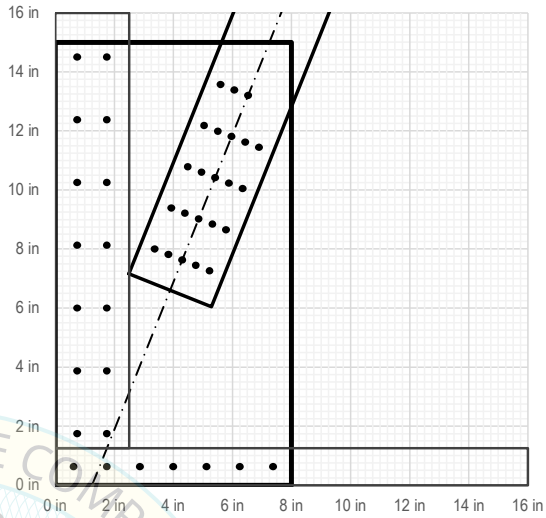
REVIEWED FOR CODE COMPLIANCE
HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS			S3		300FS-33-50
STRAP TYPE:	Strap Width	3.00 in	Strap Thick.	33 mils	Strap Grade	50 ksi

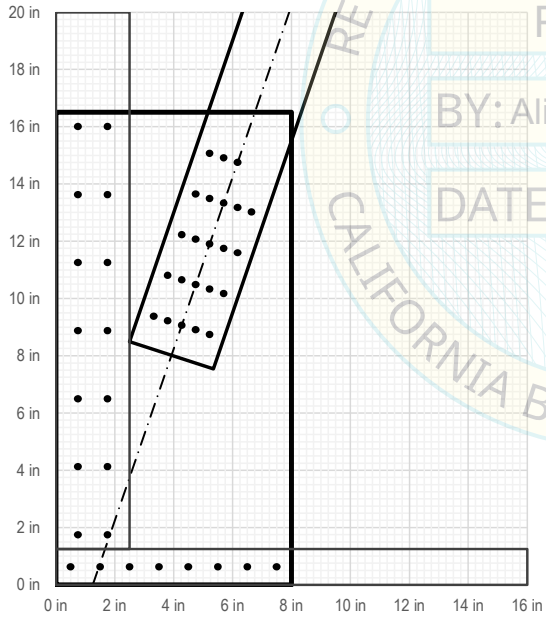
DETAIL 11.1.5



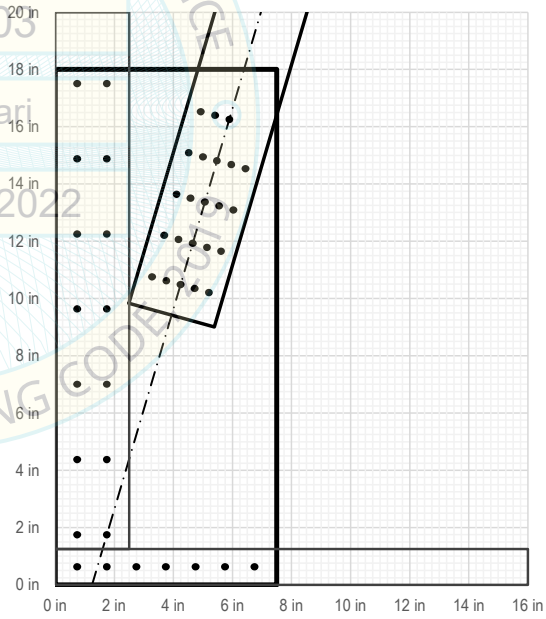
DETAIL 11.1.6



DETAIL 11.1.7



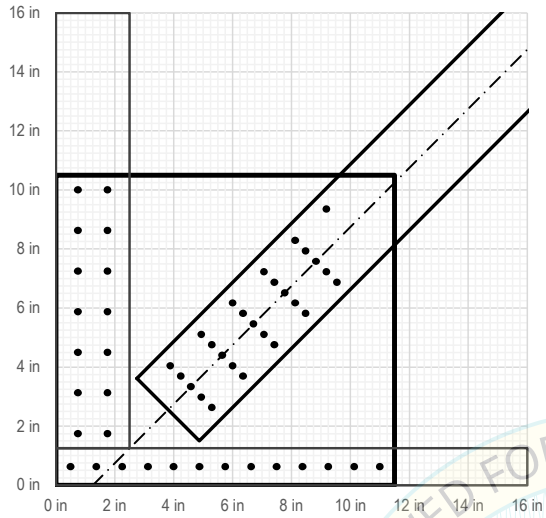
DETAIL 11.1.8



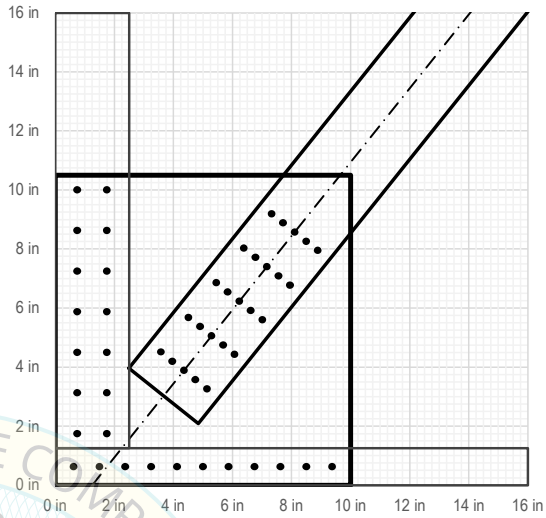
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PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS					S3		300FS-33-50
STRAP TYPE:	Strap Width	3.00 in	Strap Thick.	33 mils	Strap Grade	50 ksi	

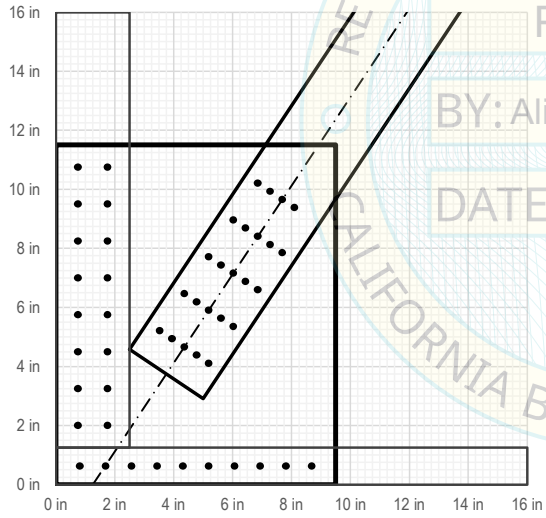
DETAIL 11.2.1



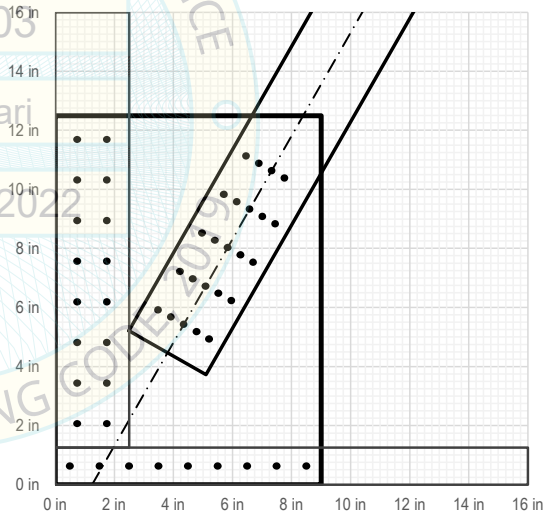
DETAIL 11.2.2



DETAIL 11.2.3



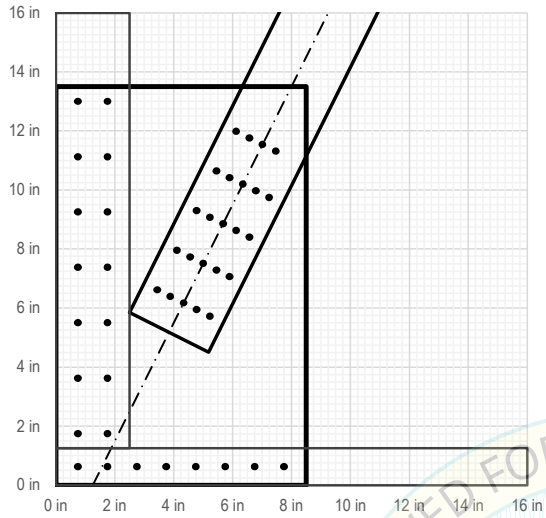
DETAIL 11.2.4



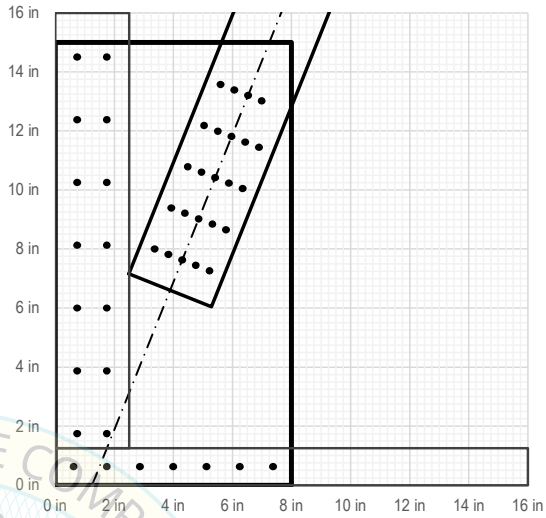
REVIEWED FOR CODE COMPLIANCE
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PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS					S3		300FS-33-50
STRAP TYPE:	Strap Width	3.00 in	Strap Thick.	33 mils	Strap Grade	50 ksi	

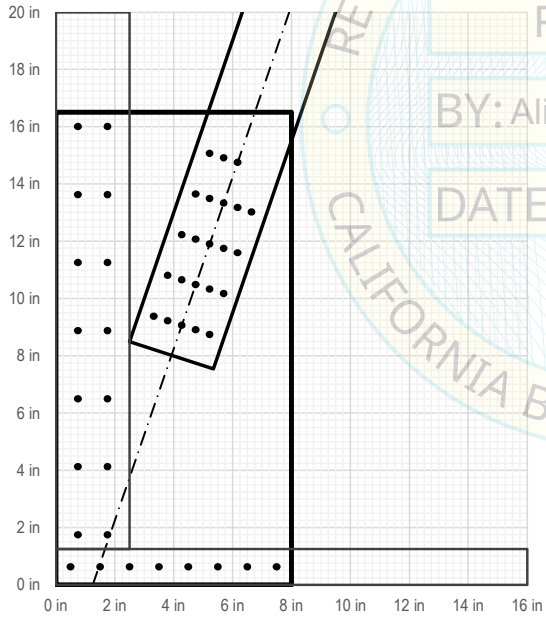
DETAIL 11.2.5



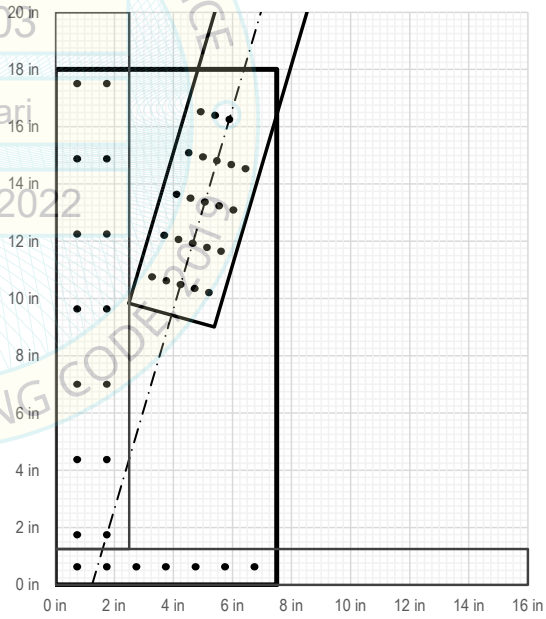
DETAIL 11.2.6



DETAIL 11.2.7



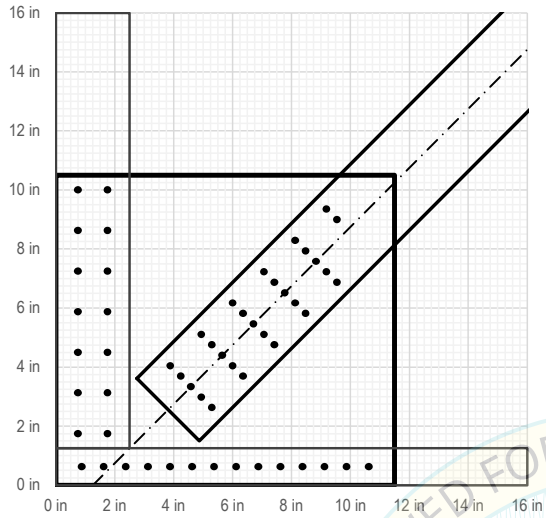
DETAIL 11.2.8



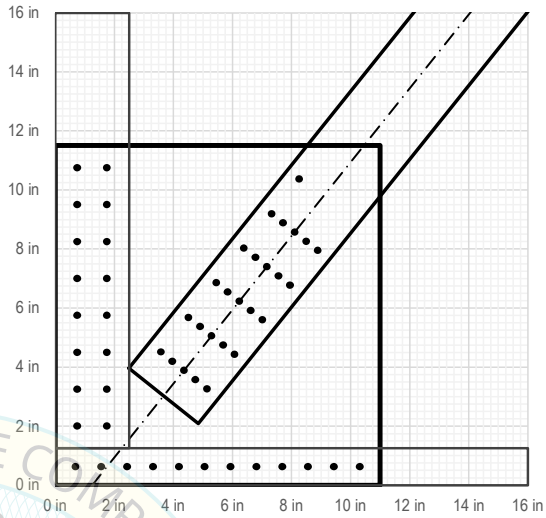
REVIEWED FOR CODE COMPLIANCE
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DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS					S3		300FS-33-50
STRAP TYPE:	Strap Width	3.00 in	Strap Thick.	33 mils	Strap Grade	50 ksi	

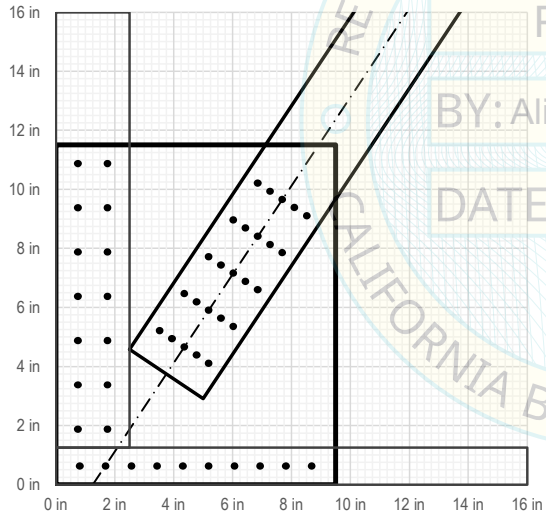
DETAIL 11.3.1



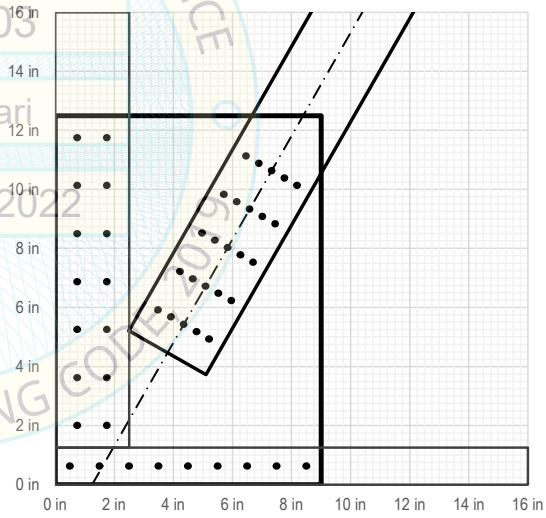
DETAIL 11.3.2



DETAIL 11.3.3



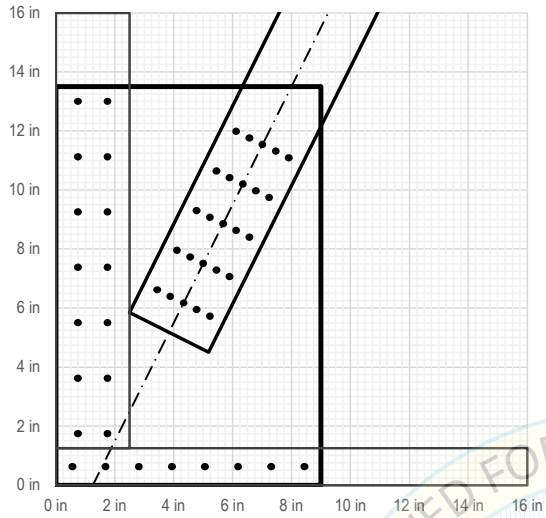
DETAIL 11.3.4



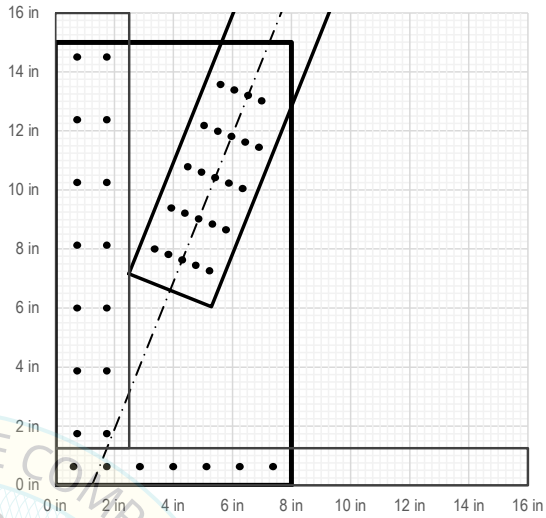
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DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS			S3		300FS-33-50
STRAP TYPE:	Strap Width	3.00 in	Strap Thick.	33 mils	Strap Grade	50 ksi

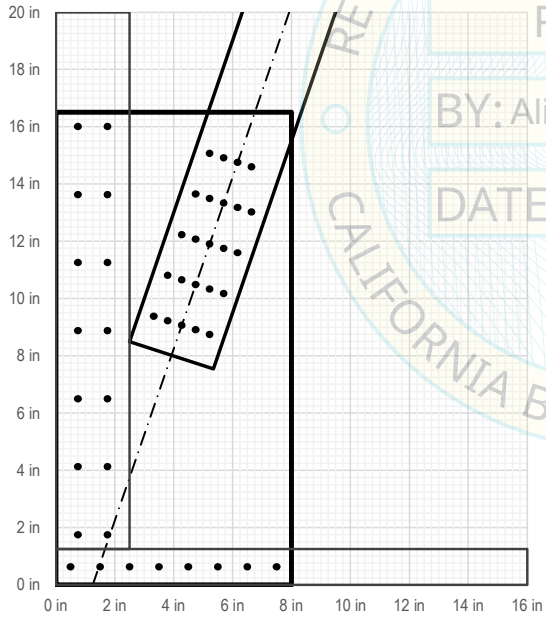
DETAIL 11.3.5



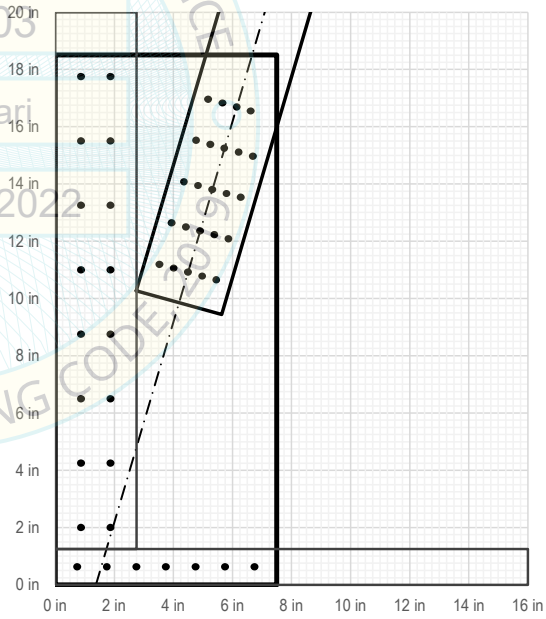
DETAIL 11.3.6



DETAIL 11.3.7



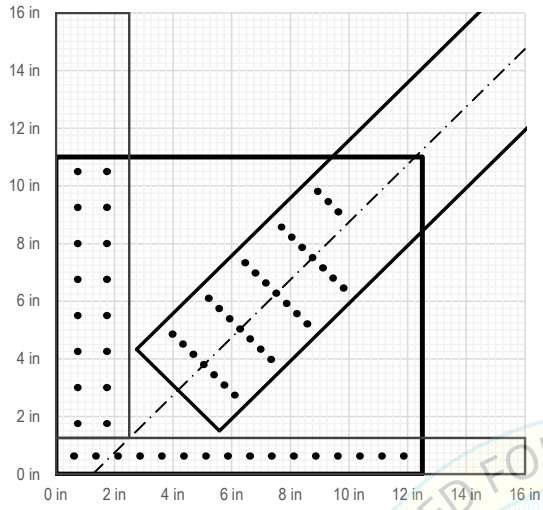
DETAIL 11.3.8



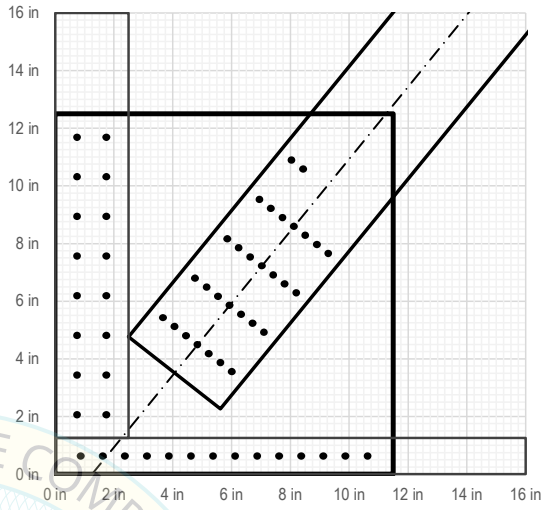
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DATE: 03/21/2022
CALIFORNIA BUILDING CODES

CONNECTION DETAILS			S3		400FS-33-50
STRAP TYPE:	Strap Width	4.00 in	Strap Thick.	33 mils	Strap Grade	50 ksi

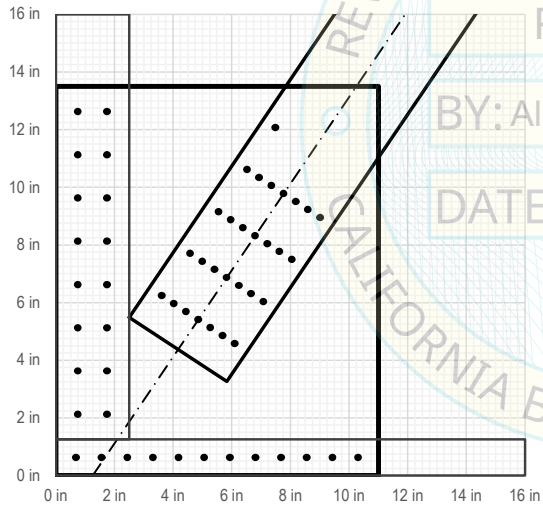
DETAIL 12.1.1



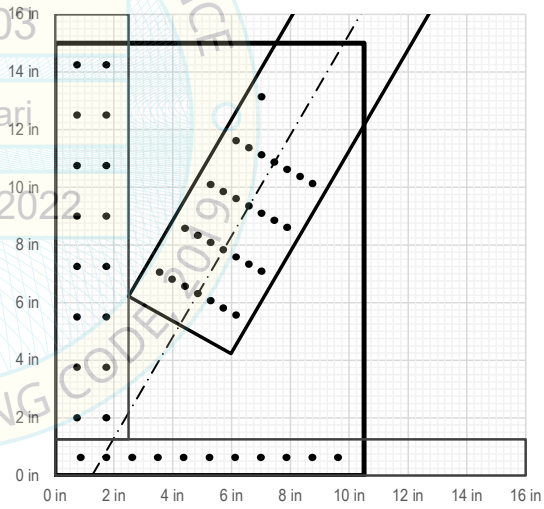
DETAIL 12.1.2



DETAIL 12.1.3



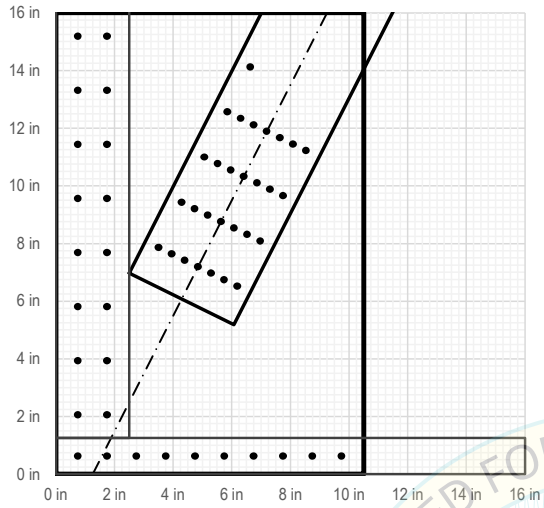
DETAIL 12.1.4



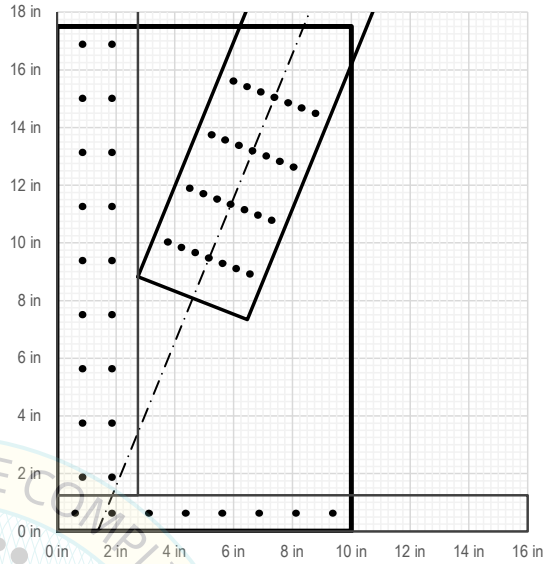
REVIEWED FOR CODE COMPLIANCE
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PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS			S3		400FS-33-50
STRAP TYPE:	**Strap Width**	4.00 in	**Strap Thick.**	33 mils	**Strap Grade** 50 ksi

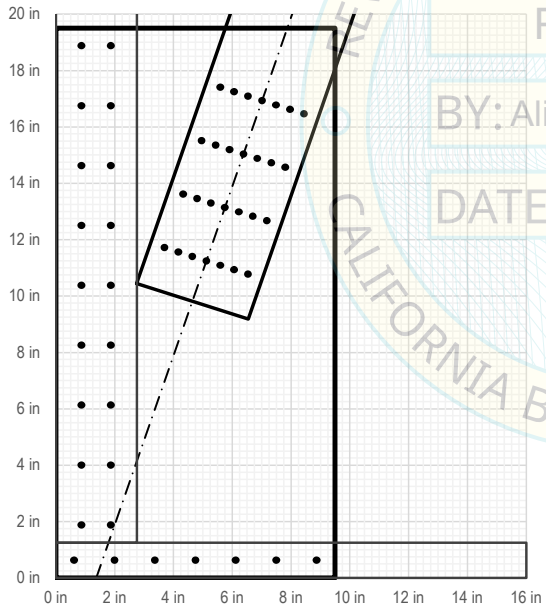
DETAIL 12.1.5



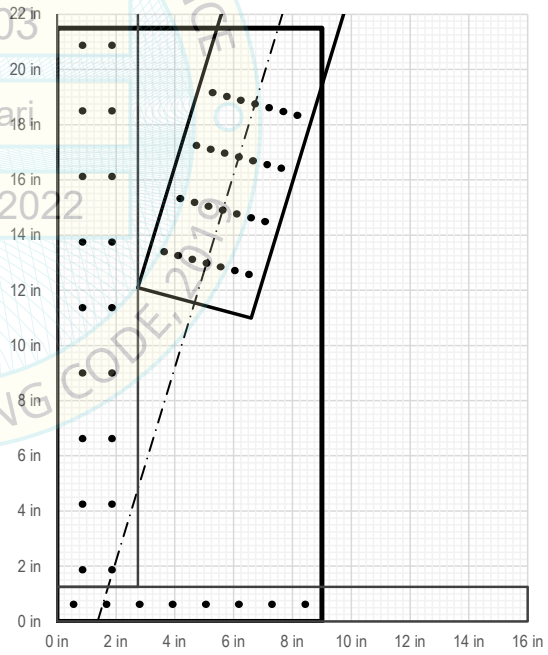
DETAIL 12.1.6



DETAIL 12.1.7



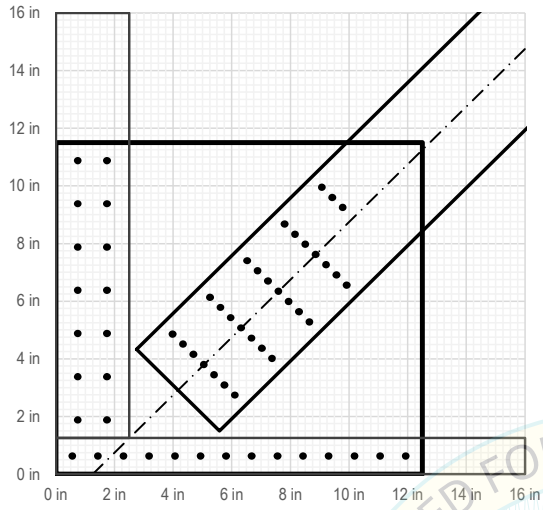
DETAIL 12.1.8



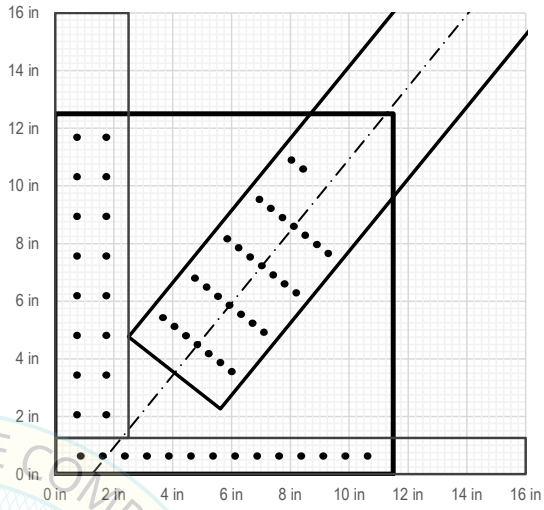
REVIEWED FOR CODE COMPLIANCE
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PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS					S3		400FS-33-50
STRAP TYPE:	Strap Width	4.00 in	Strap Thick.	33 mils	Strap Grade	50 ksi	

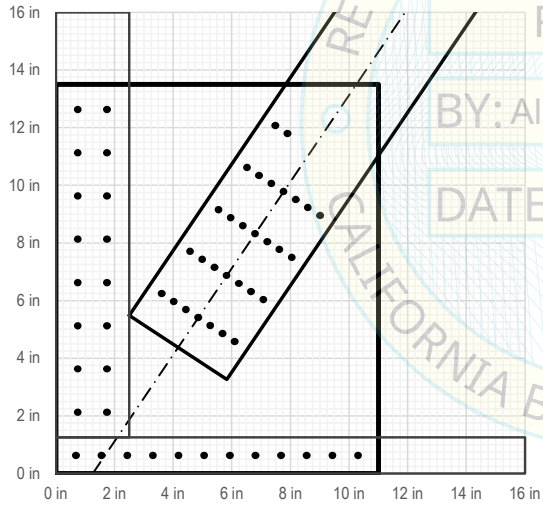
DETAIL 12.2.1



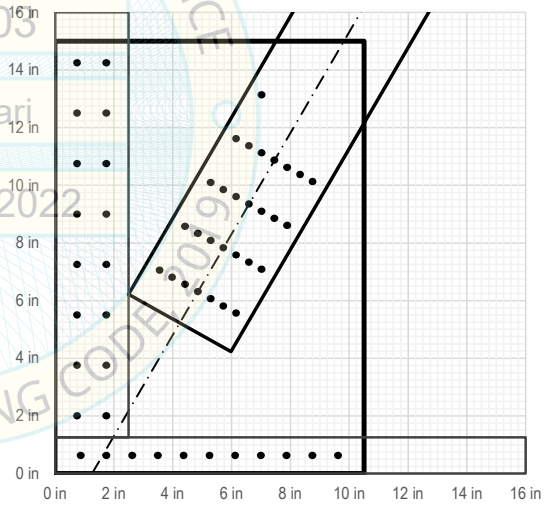
DETAIL 12.2.2



DETAIL 12.2.3



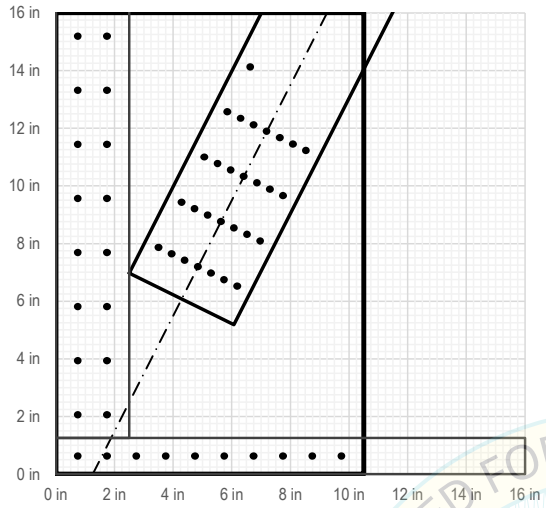
DETAIL 12.2.4



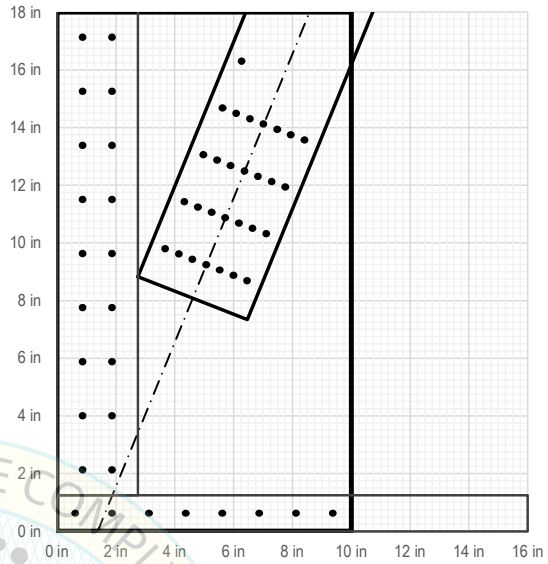
REVIEWED FOR CODE COMPLIANCE
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PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS					S3		400FS-33-50
STRAP TYPE:	**Strap Width**	4.00 in	**Strap Thick.**	33 mils	**Strap Grade**	50 ksi	

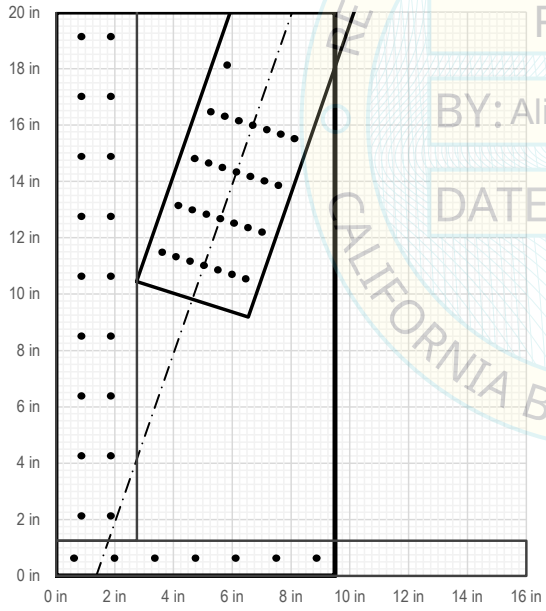
DETAIL 12.2.5



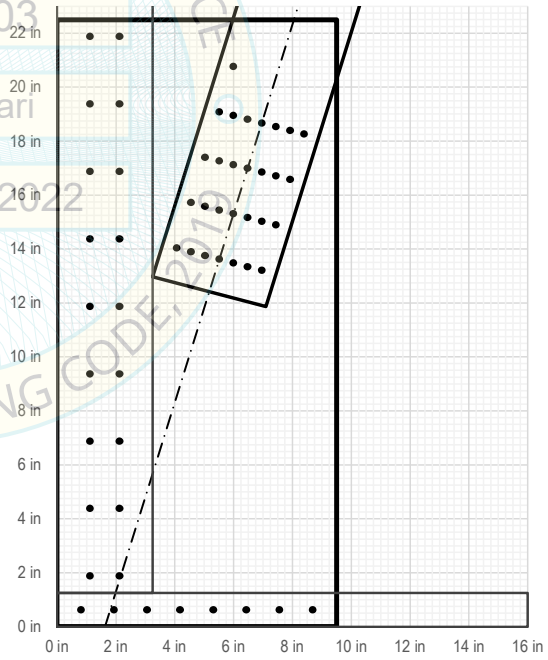
DETAIL 12.2.6



DETAIL 12.2.7



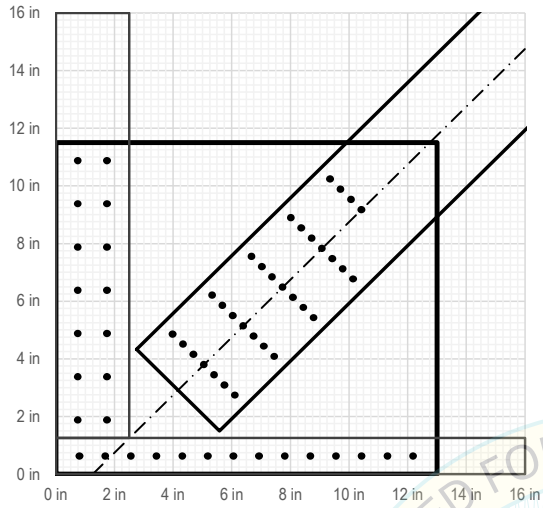
DETAIL 12.2.8



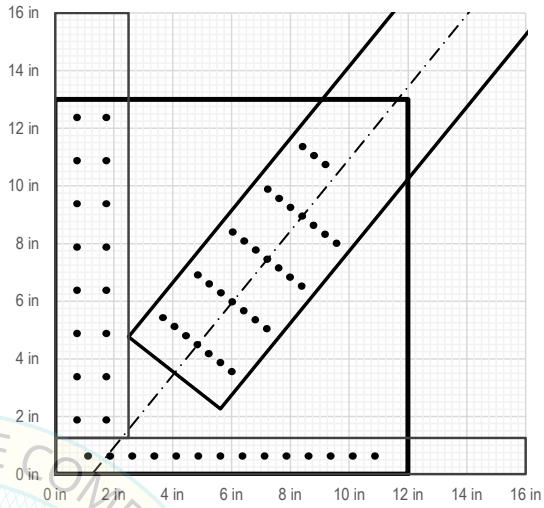
REVIEWED FOR CODE COMPLIANCE
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PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS					S3		400FS-33-50
STRAP TYPE:	Strap Width	4.00 in	Strap Thick.	33 mils	Strap Grade	50 ksi	

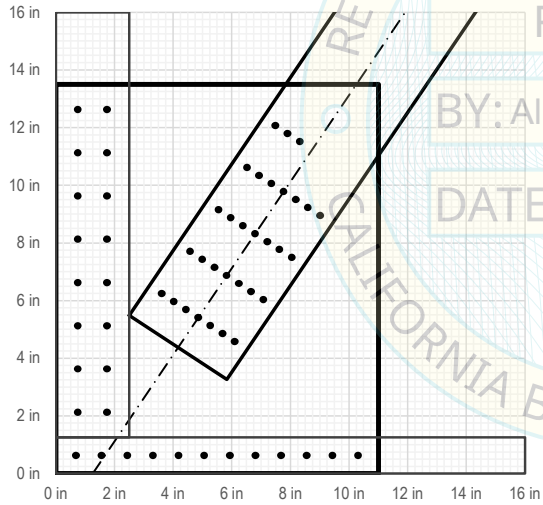
DETAIL 12.3.1



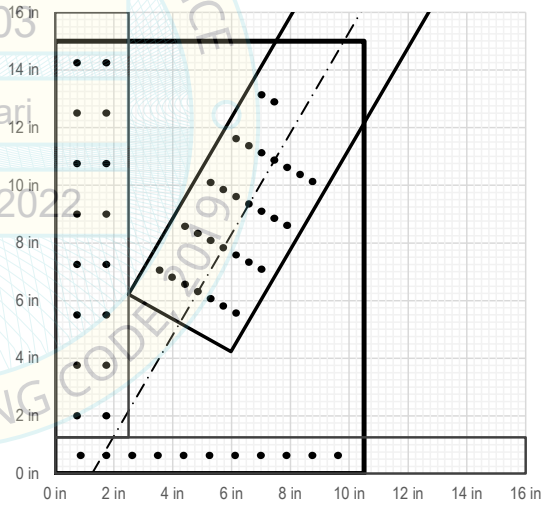
DETAIL 12.3.2



DETAIL 12.3.3



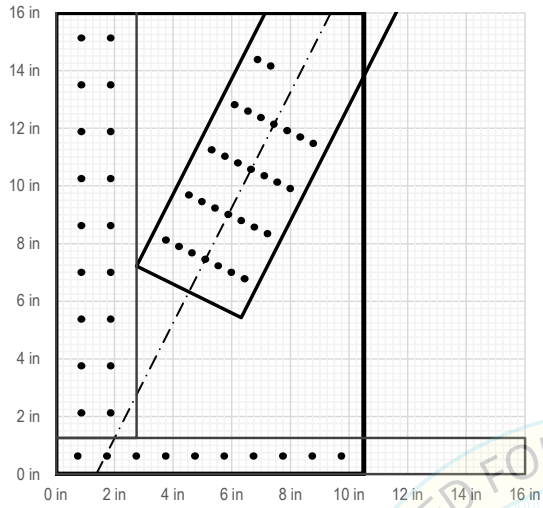
DETAIL 12.3.4



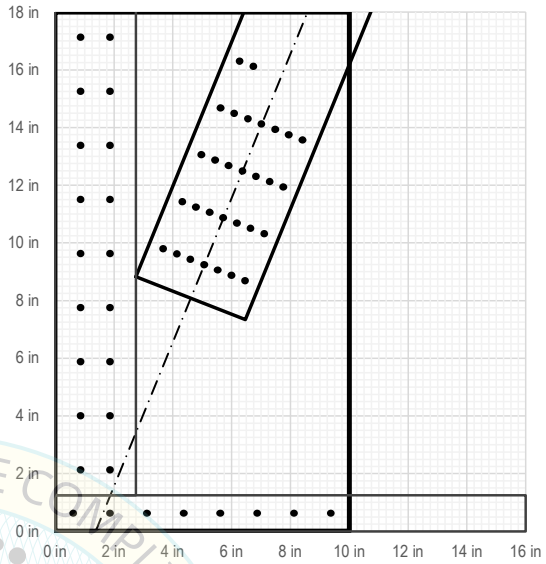
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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS			S3		400FS-33-50
STRAP TYPE:	**Strap Width**	4.00 in	**Strap Thick.**	33 mils	**Strap Grade** 50 ksi

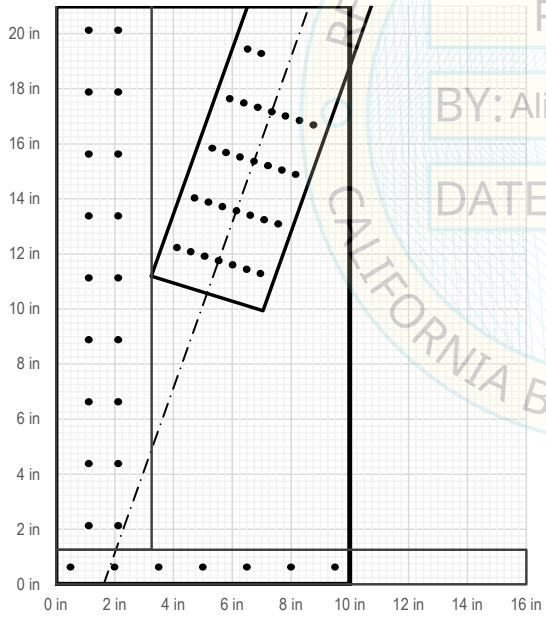
DETAIL 12.3.5



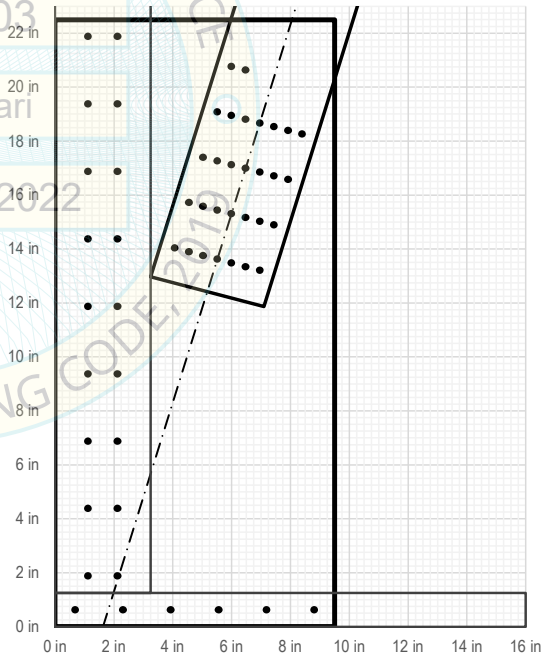
DETAIL 12.3.6



DETAIL 12.3.7



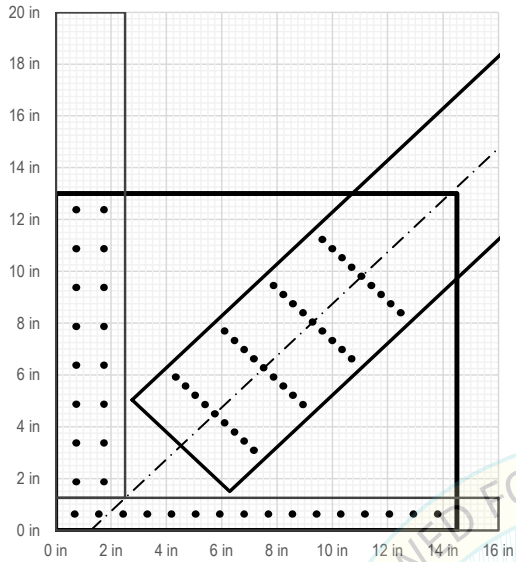
DETAIL 12.3.8



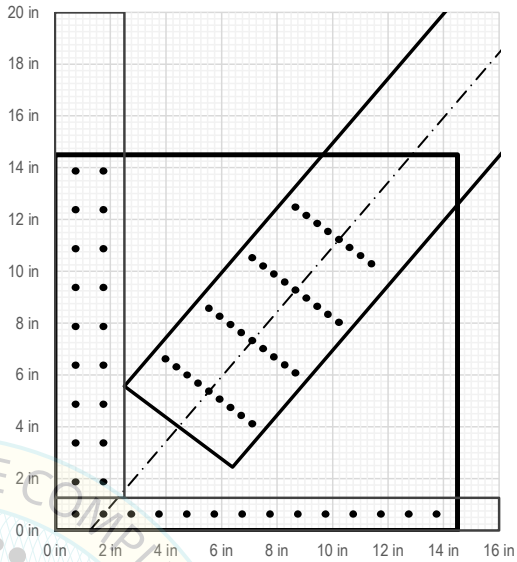
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PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE (CBC)

CONNECTION DETAILS					S3		500FS-33-50
STRAP TYPE:	**Strap Width**	5.00 in	**Strap Thick.**	33 mils	**Strap Grade**	50 ksi	

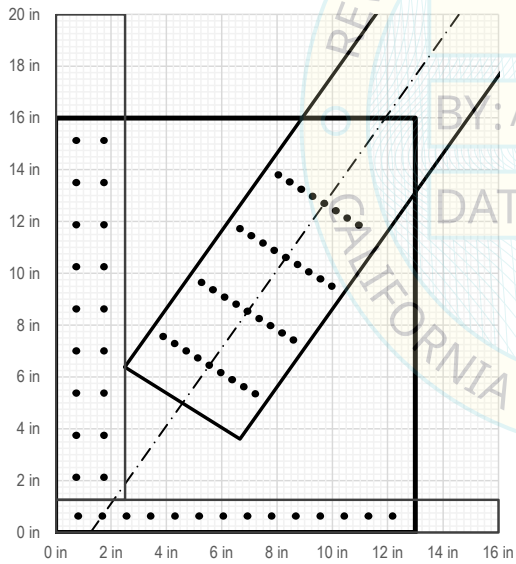
DETAIL 13.1.1



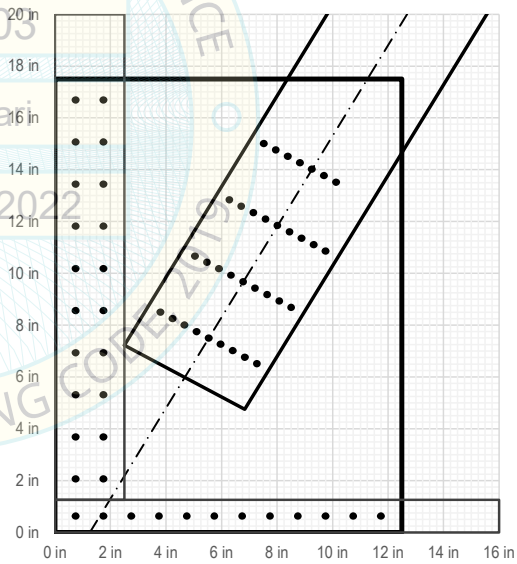
DETAIL 13.1.2



DETAIL 13.1.3



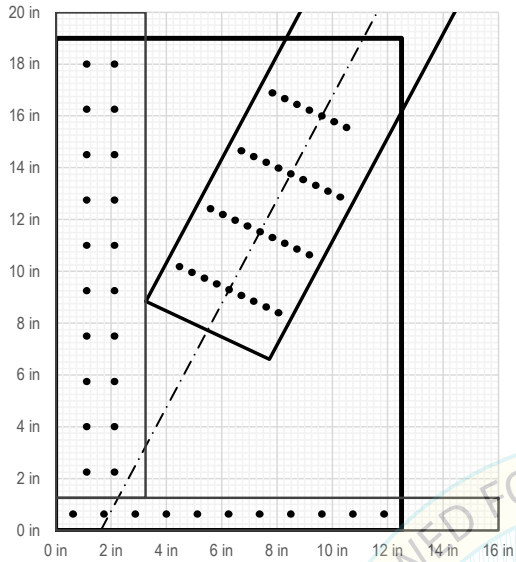
DETAIL 13.1.4



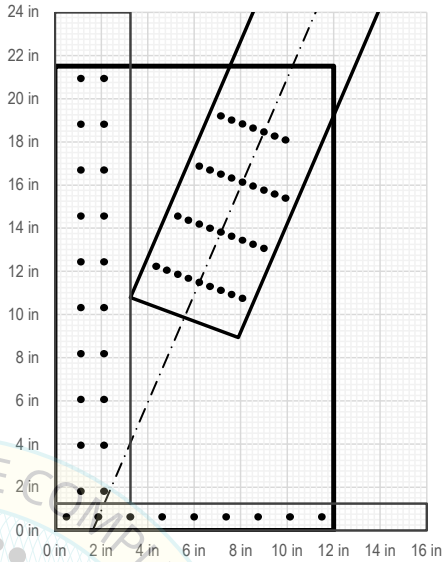
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PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS			S3		500FS-33-50
STRAP TYPE:	**Strap Width**	5.00 in	**Strap Thick.**	33 mils	**Strap Grade** 50 ksi

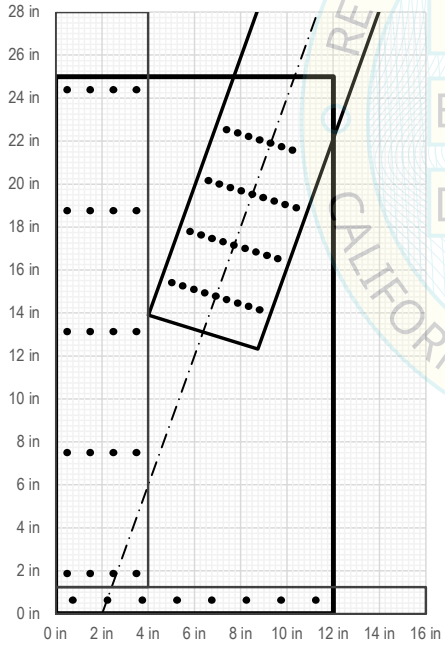
DETAIL 13.1.5



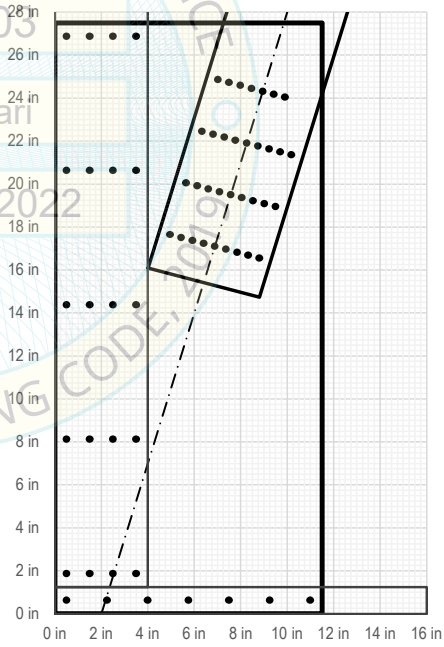
DETAIL 13.1.6



DETAIL 13.1.7



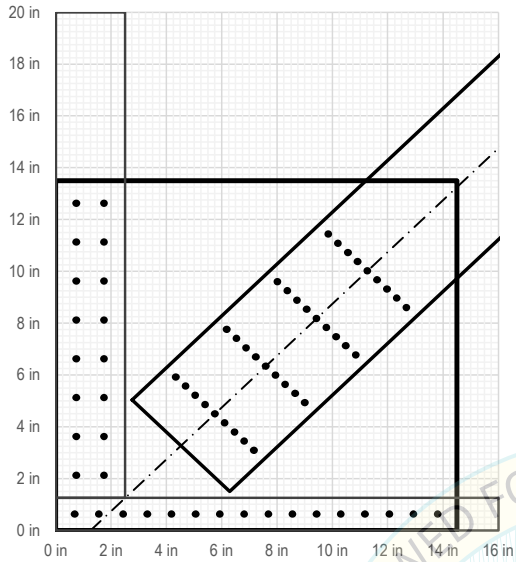
DETAIL 13.1.8



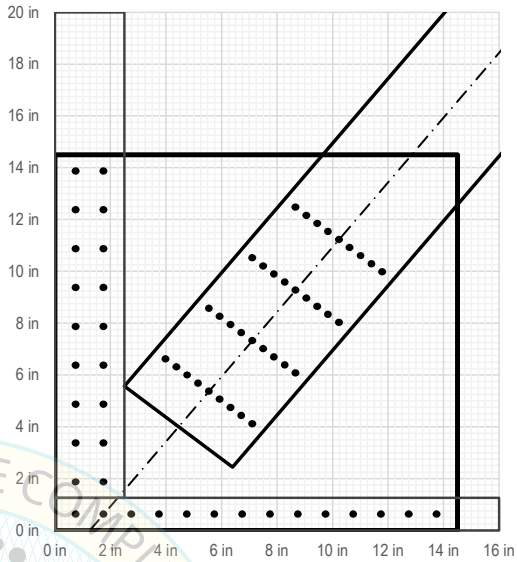
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DATE: 03/21/2022
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CONNECTION DETAILS					S3		500FS-33-50
STRAP TYPE:	Strap Width	5.00 in	Strap Thick.	33 mils	Strap Grade	50 ksi	

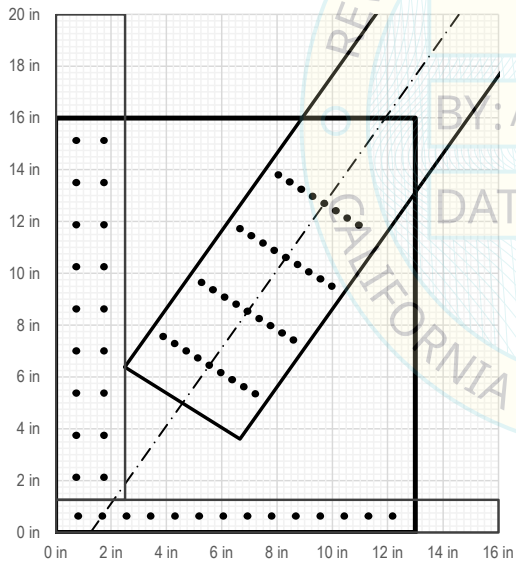
DETAIL 13.2.1



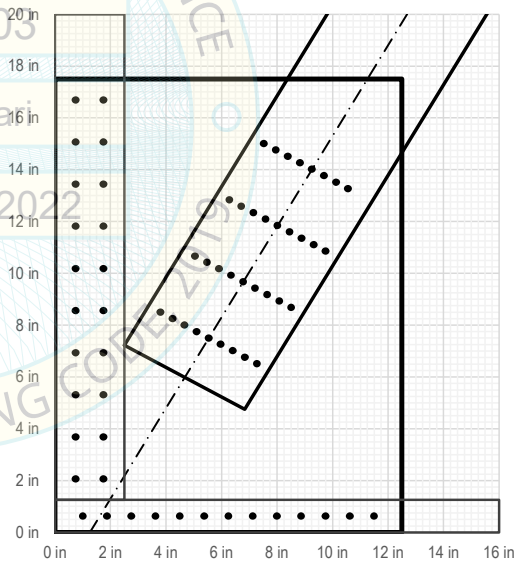
DETAIL 13.2.2



DETAIL 13.2.3



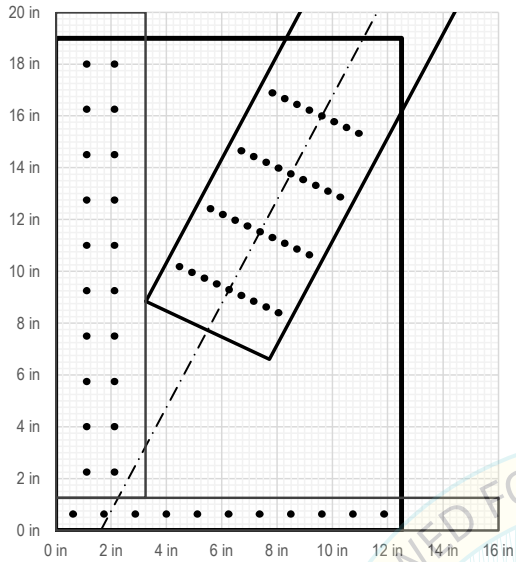
DETAIL 13.2.4



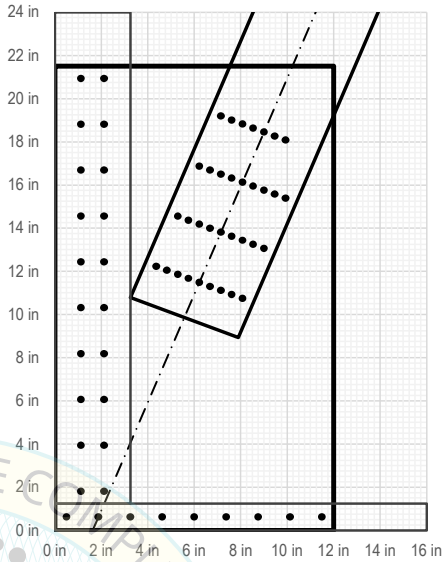
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DATE: 03/21/2022
CALIFORNIA BUILDING CODE 2019

CONNECTION DETAILS					S3		500FS-33-50
STRAP TYPE:	**Strap Width**	5.00 in	**Strap Thick.**	33 mils	**Strap Grade**	50 ksi	

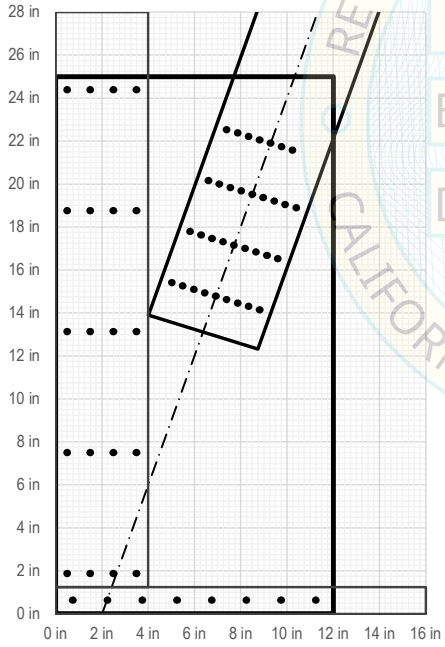
DETAIL 13.2.5



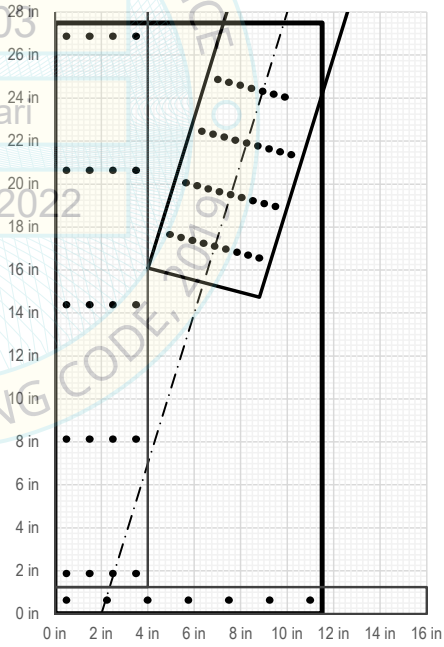
DETAIL 13.2.6



DETAIL 13.2.7



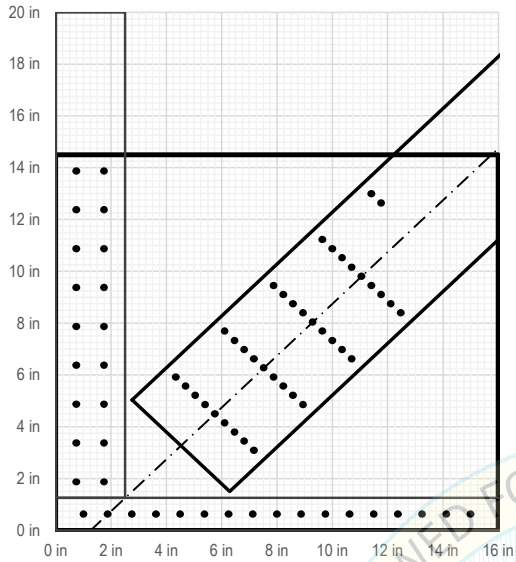
DETAIL 13.2.8



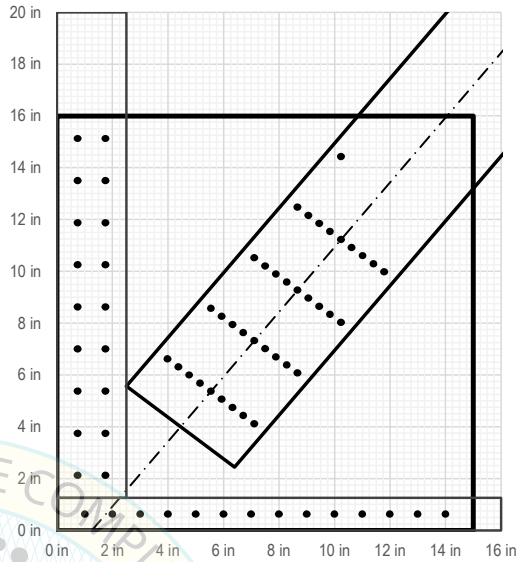
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DATE: 03/21/2022
CALIFORNIA BUILDING CODE, 2019

CONNECTION DETAILS					S3		500FS-33-50
STRAP TYPE:	**Strap Width**	5.00 in	**Strap Thick.**	33 mils	**Strap Grade**	50 ksi	

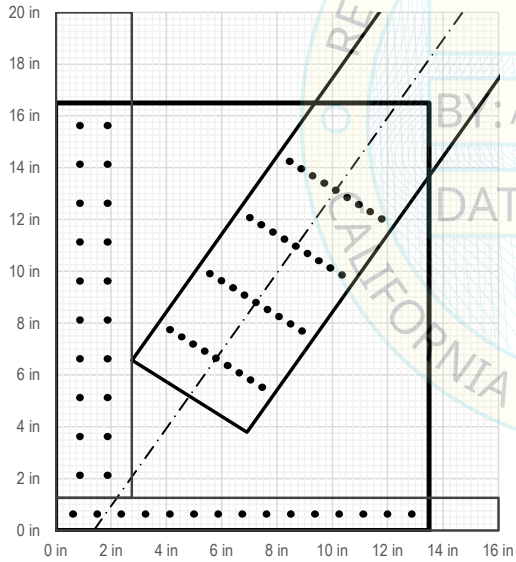
DETAIL 13.3.1



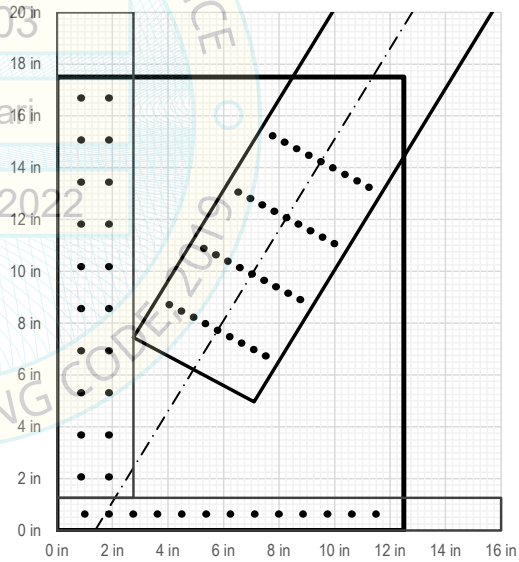
DETAIL 13.3.2



DETAIL 13.3.3



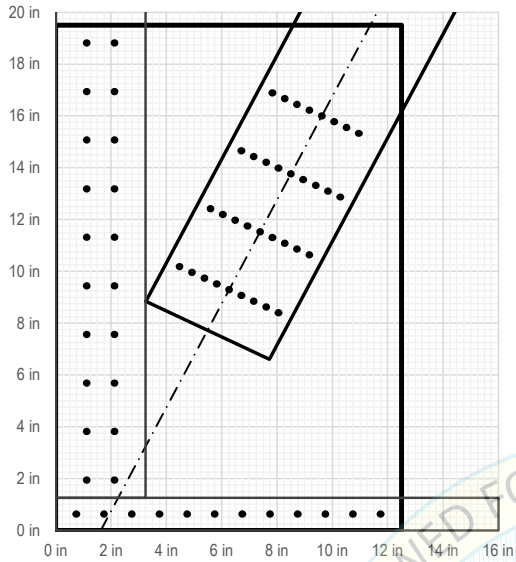
DETAIL 13.3.4



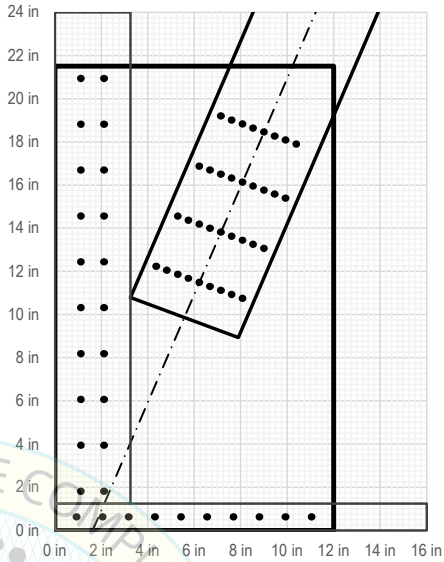
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DATE: 03/21/2022
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CONNECTION DETAILS					S3		500FS-33-50
STRAP TYPE:	**Strap Width**	5.00 in	**Strap Thick.**	33 mils	**Strap Grade**	50 ksi	

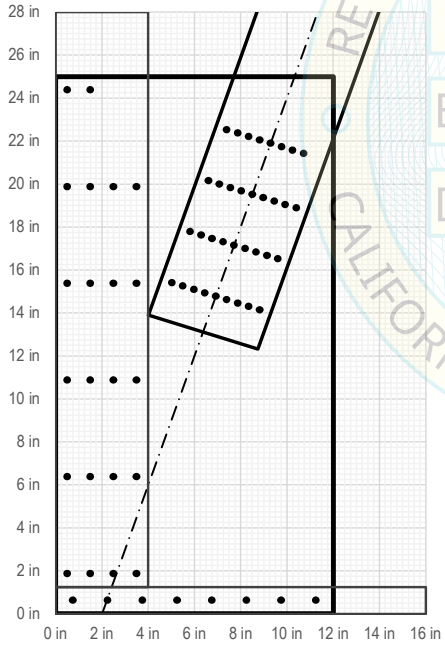
DETAIL 13.3.5



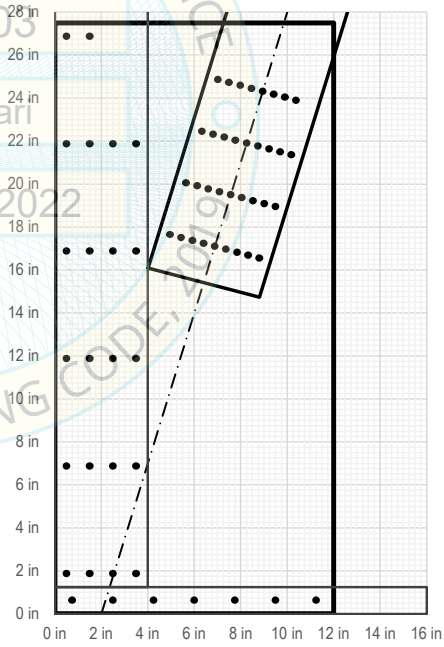
DETAIL 13.3.6



DETAIL 13.3.7



DETAIL 13.3.8



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HCAi
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DATE: 03/21/2022
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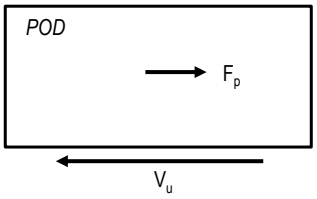
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DATE: 03/21/2022
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TABLE 4.5.4

MINIMUM SHEAR ANCHORAGE REQUIREMENTS

Shear Anchorage

Example Calculation



$F_p = \max(0.3 , \min(1.6 , 0.4 * (a_p / R_p) * (1 + 2 * z/h))) * I_p * S_{DS} * \text{Weight}$

$\underline{\Sigma F_x = 0:}$

$\Phi V_n \geq V_u = F_p$

$V_n = v_{n,an} * n_{an} / \Omega, \quad \Omega = 2.5$

$\rightarrow \mathbf{n_{an} \geq \Omega F_p / (\Phi v_{n,an})}$

** $\Phi v_{n,an}$ = nominal shear capacity per anchor = 450 lb*

** n_{an} = required number of shear anchors*

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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE, 2019

TABLE 4.5.4: MINIMUM SHEAR ANCHORAGE REQUIREMENTS S3 (Ip = 1.5)

TABLE A: S_{DS} = 0.40

Key:

** Top value is the total pod shear force, V_u (lbs)*

** Bottom value is the required number of shear anchors*

Height in Bldg (z/h)	Pod Weight								
	2000 lbs	2200 lbs	2400 lbs	2600 lbs	2800 lbs	3000 lbs	3200 lbs	3400 lbs	3600 lbs
1.0	1029	1131	1234	1337	1440	1543	1646	1749	1851
	6	7	7	8	8	9	10	10	11
0.9	960	1056	1152	1248	1344	1440	1536	1632	1728
	6	6	7	7	8	8	9	10	10
0.8	891	981	1070	1159	1248	1337	1426	1515	1605
	5	6	6	7	7	8	8	9	9
0.7	823	905	987	1070	1152	1234	1317	1399	1481
	5	6	6	6	7	7	8	8	9
0.6	754	830	905	981	1056	1131	1207	1282	1358
	5	5	6	6	6	7	7	8	8
0.5	686	754	823	891	960	1029	1097	1166	1234
	4	5	5	5	6	6	7	7	7
0.4	617	679	741	802	864	926	987	1049	1111
	4	4	5	5	5	6	6	6	7
0.3	549	603	658	713	768	823	878	933	987
	4	4	4	4	5	5	5	6	6
0.2	480	528	576	624	672	720	768	816	864
	3	3	4	4	4	4	5	5	5
0.1	411	453	494	535	576	617	658	699	741
	3	3	3	3	4	4	4	4	5
0.0	360	396	432	468	504	540	576	612	648
	2	3	3	3	3	3	4	4	4

TABLE B: S_{DS} = 0.70

Key:

** Top value is the total pod shear force, V_u (lbs)*

** Bottom value is the required number of shear anchors*

Height in Bldg (z/h)	Pod Weight								
	2000 lbs	2200 lbs	2400 lbs	2600 lbs	2800 lbs	3000 lbs	3200 lbs	3400 lbs	3600 lbs
1.0	1800	1980	2160	2340	2520	2700	2880	3060	3240
	10	11	12	13	14	15	16	17	18
0.9	1680	1848	2016	2184	2352	2520	2688	2856	3024
	10	11	12	13	14	14	15	16	17
0.8	1560	1716	1872	2028	2184	2340	2496	2652	2808
	9	10	11	12	13	13	14	15	16
0.7	1440	1584	1728	1872	2016	2160	2304	2448	2592
	8	9	10	11	12	12	13	14	15
0.6	1320	1452	1584	1716	1848	1980	2112	2244	2376
	8	9	9	10	11	11	12	13	14
0.5	1200	1320	1440	1560	1680	1800	1920	2040	2160
	7	8	8	9	10	10	11	12	12
0.4	1080	1188	1296	1404	1512	1620	1728	1836	1944
	6	7	8	8	9	9	10	11	11
0.3	960	1056	1152	1248	1344	1440	1536	1632	1728
	6	6	7	7	8	8	9	10	10
0.2	840	924	1008	1092	1176	1260	1344	1428	1512
	5	6	6	7	7	7	8	8	9
0.1	720	792	864	936	1008	1080	1152	1224	1296
	4	5	5	6	6	6	7	7	8
0.0	630	693	756	819	882	945	1008	1071	1134
	4	4	5	5	5	6	6	6	7

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TABLE 4.5.4: MINIMUM SHEAR ANCHORAGE REQUIREMENTS S3 (Ip = 1.5)

TABLE C: S_{DS} = 1.00

Key:

** Top value is the total pod shear force, V_u (lbs)*

** Bottom value is the required number of shear anchors*

Height in Bldg (z/h)	Pod Weight								
	2000 lbs	2200 lbs	2400 lbs	2600 lbs	2800 lbs	3000 lbs	3200 lbs	3400 lbs	3600 lbs
1.0	2571	2829	3086	3343	3600	3857	4114	4371	4629
	15	16	18	19	20	22	23	25	26
0.9	2400	2640	2880	3120	3360	3600	3840	4080	4320
	14	15	16	18	19	20	22	23	24
0.8	2229	2451	2674	2897	3120	3343	3566	3789	4011
	13	14	15	17	18	19	20	22	23
0.7	2057	2263	2469	2674	2880	3086	3291	3497	3703
	12	13	14	15	16	18	19	20	21
0.6	1886	2074	2263	2451	2640	2829	3017	3206	3394
	11	12	13	14	15	16	17	18	19
0.5	1714	1886	2057	2229	2400	2571	2743	2914	3086
	10	11	12	13	14	15	16	17	18
0.4	1543	1697	1851	2006	2160	2314	2469	2623	2777
	9	10	11	12	12	13	14	15	16
0.3	1371	1509	1646	1783	1920	2057	2194	2331	2469
	8	9	10	10	11	12	13	13	14
0.2	1200	1320	1440	1560	1680	1800	1920	2040	2160
	7	8	8	9	10	10	11	12	12
0.1	1029	1131	1234	1337	1440	1543	1646	1749	1851
	6	7	7	8	8	9	10	10	11
0.0	900	990	1080	1170	1260	1350	1440	1530	1620
	5	6	6	7	7	8	8	9	9

TABLE D: S_{DS} = 1.30

Key:

** Top value is the total pod shear force, V_u (lbs)*

** Bottom value is the required number of shear anchors*

Height in Bldg (z/h)	Pod Weight								
	2000 lbs	2200 lbs	2400 lbs	2600 lbs	2800 lbs	3000 lbs	3200 lbs	3400 lbs	3600 lbs
1.0	3343	3677	4011	4346	4680	5014	5349	5683	6017
	19	21	23	25	26	28	30	32	34
0.9	3120	3432	3744	4056	4368	4680	4992	5304	5616
	18	20	21	23	25	26	28	30	32
0.8	2897	3187	3477	3766	4056	4346	4635	4925	5215
	17	18	20	21	23	25	26	28	29
0.7	2674	2942	3209	3477	3744	4011	4279	4546	4814
	15	17	18	20	21	23	24	26	27
0.6	2451	2697	2942	3187	3432	3677	3922	4167	4413
	14	15	17	18	20	21	22	24	25
0.5	2229	2451	2674	2897	3120	3343	3566	3789	4011
	13	14	15	17	18	19	20	22	23
0.4	2006	2206	2407	2607	2808	3009	3209	3410	3610
	12	13	14	15	16	17	18	19	21
0.3	1783	1961	2139	2318	2496	2674	2853	3031	3209
	10	11	12	13	14	15	16	17	18
0.2	1560	1716	1872	2028	2184	2340	2496	2652	2808
	9	10	11	12	13	13	14	15	16
0.1	1337	1471	1605	1738	1872	2006	2139	2273	2407
	8	9	9	10	11	12	12	13	14
0.0	1170	1287	1404	1521	1638	1755	1872	1989	2106
	7	8	8	9	10	10	11	12	12

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TABLE 4.5.4: MINIMUM SHEAR ANCHORAGE REQUIREMENTS S3 (Ip = 1.5)

TABLE E: S_{DS} = 1.60

Key:

** Top value is the total pod shear force, V_u (lbs)*

** Bottom value is the required number of shear anchors*

Height in Bldg (z/h)	Pod Weight								
	2000 lbs	2200 lbs	2400 lbs	2600 lbs	2800 lbs	3000 lbs	3200 lbs	3400 lbs	3600 lbs
1.0	4114	4526	4937	5349	5760	6171	6583	6994	7406
	23	26	28	30	32	35	37	39	42
0.9	3840	4224	4608	4992	5376	5760	6144	6528	6912
	22	24	26	28	30	32	35	37	39
0.8	3566	3922	4279	4635	4992	5349	5705	6062	6418
	20	22	24	26	28	30	32	34	36
0.7	3291	3621	3950	4279	4608	4937	5266	5595	5925
	19	21	22	24	26	28	30	32	33
0.6	3017	3319	3621	3922	4224	4526	4827	5129	5431
	17	19	21	22	24	26	27	29	31
0.5	2743	3017	3291	3566	3840	4114	4389	4663	4937
	16	17	19	20	22	23	25	26	28
0.4	2469	2715	2962	3209	3456	3703	3950	4197	4443
	14	16	17	18	20	21	22	24	25
0.3	2194	2414	2633	2853	3072	3291	3511	3730	3950
	13	14	15	16	18	19	20	21	22
0.2	1920	2112	2304	2496	2688	2880	3072	3264	3456
	11	12	13	14	15	16	18	19	20
0.1	1646	1810	1975	2139	2304	2469	2633	2798	2962
	10	11	11	12	13	14	15	16	17
0.0	1440	1584	1728	1872	2016	2160	2304	2448	2592
	8	9	10	11	12	12	13	14	15

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HCAi
PCS-0003
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DATE: 03/21/2022
CALIFORNIA BUILDING CODE, 2019

TABLE 4.6.2.X

ANCHOR UPLIFT CAPACITIES

TABLE 4.6.2.3: ANCHOR UPLIFT CAPACITIES — 6" NWC Slab

Key:

Anchor Type: XXX YYYY ZZZ,

XXX = Anchor Size (inches x 100), YYYY = Anchor Code, ZZZ = Effective Embedment Depth (inches x 100)

** Value in the table indicates the anchor uplift capacity (lbs) for the specific anchor type, slab/deck type and concrete strength combination. If there is no anchor capacity greater than the required anchorage force from Table 4.3.X.B, there are no solutions.*

TABLE A: HILTI ANCHORS

Anchor Type		Min. Concrete Thickness	Concrete Strength (28-day) 3000 psi	4000 psi	5000 psi
EXPANSION	250 KBTZ2 150	3.25"	220	250	270
	375 KBTZ2 250	5.00"	1790	2070	2310
	500 KBTZ2 325	5.50"	2650	3070	3430
	625 KBTZ2 400	6.00"	3630	4190	4680
	750 KBTZ2 375	6.00"	4070	4700	5250
RESIN	500 RE100 475	Embedment + 1.25"	1670	1720	1760
	625 RE100 450	Embedment + 1.50"	1980	2040	2090
	750 RE100 425	Embedment + 1.875"	2140	2200	2250
	500 RE500 475	Embedment + 1.25"	4410	4600	4760
	625 RE500 450	Embedment + 1.50"	4330	5000	5590
	750 RE500 425	Embedment + 1.875"	3970	4590	5130
SCREW	250 KHEZ 192	4.125"	620	710	800
	375 KHEZ 250	4.00"	1790	2070	2310
	500 KHEZ 216	4.75"	1440	1660	1860
	625 KHEZ 303	6.00"	2390	2760	3090
	750 KHEZ 292	6.00"	2260	2610	2920

TABLE B: SIMPSON ANCHORS

Anchor Type		Min. Concrete Thickness	Concrete Strength (28-day) 3000 psi	4000 psi	5000 psi
EXPANSION	375 CSSB2 250	4.50"	1480	1710	1910
	500 CSSB2 338	6.00"	2660	3070	3430
	625 CSSB2 300	6.00"	2300	2650	2970
	750 CSSB2 ###	6.75"	N/A	N/A	N/A
RESIN	375 SET3G 475	Embedment + 1.25"	4120	4420	4660
	500 SET3G 475	Embedment + 1.25"	4700	5130	5420
	625 SET3G 450	Embedment + 1.50"	4330	5000	5590
	750 SET3G 425	Embedment + 1.875"	3970	4590	5130
SCREW	250 TITEN 194	3.50"	1010	1170	1310
	375 TITEN 240	5.00"	1440	1660	1860
	500 TITEN 278	5.83"	2100	2430	2710
	625 TITEN 297	6.00"	1620	1870	2090
	750 TITEN 294	6.00"	2050	2360	2640

TABLE C: MITEK ANCHORS

Anchor Type		Min. Concrete Thickness	Concrete Strength (28-day) 3000 psi	4000 psi	5000 psi
EXPANSION	375 WACW 200	4.00"	1120	1300	1450
	500 WACW 325	6.00"	2250	2570	2850
	625 WACW 275	5.50"	2550	2950	3300
	750 WACW 325	6.00"	3280	3790	4240
RESIN	375 CIAG7C 388	1.5 x Embedment	2550	2550	2550
	500 CIAG7C 388	1.5 x Embedment	3160	3160	3160
	625 CIAG7C 388	1.5 x Embedment	3460	3680	3680
	750 CIAG7C 388	1.5 x Embedment	3460	3990	4160
SCREW	375 SACHS 249	4.75"	1780	2050	2300
	500 SACHS 221	4.75"	1670	1850	2000
	625 SACHS 236	5.00"	1640	1900	2120
	750 SACHS 297	6.00"	2320	2680	2990

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TABLE 4.6.2.4: ANCHOR UPLIFT CAPACITIES — 3.5" NWC + 3" Metal Deck

Key:
Anchor Type: XXX YYYY ZZZ,
XXX = Anchor Size (inches x 100), YYYY = Anchor Code, ZZZ = Effective Embedment Depth (inches x 100)
** Value in the table indicates the anchor uplift capacity (lbs) for the specific anchor type, slab/deck type and concrete strength combination. If there is no anchor capacity greater than the required anchorage force from Table 4.3.X.B, there are no solutions.*

TABLE A: HILTI ANCHORS

Anchor Type		Min. Concrete Thickness Over Deck	Concrete Strength (28-day) 3000 psi	4000 psi	5000 psi
EXPANSION	250 KBTZ2 150	2.50"	220	250	270
	375 KBTZ2 200	2.50"	1580	1830	2040
	500 KBTZ2 200	3.25"	1580	1830	2040
	625 KBTZ2 ###	5.00"	N/A	N/A	N/A
	750 KBTZ2 ###	5.50"	N/A	N/A	N/A
RESIN	500 RE100 ###	N/A	N/A	N/A	N/A
	625 RE100 ###	N/A	N/A	N/A	N/A
	750 RE100 ###	N/A	N/A	N/A	N/A
	500 RE500 ###	N/A	N/A	N/A	N/A
	625 RE500 ###	N/A	N/A	N/A	N/A
	750 RE500 ###	N/A	N/A	N/A	N/A
SCREW	250 KHEZ 118	2.50"	190	200	220
	375 KHEZ 111	2.50"	380	440	500
	500 KHEZ ###	4.50"	N/A	N/A	N/A
	625 KHEZ ###	5.00"	N/A	N/A	N/A
	750 KHEZ ###	6.00"	N/A	N/A	N/A

TABLE B: SIMPSON ANCHORS

Anchor Type		Min. Concrete Thickness Over Deck	Concrete Strength (28-day) 3000 psi	4000 psi	5000 psi
EXPANSION	375 CSSB2 150	3.25"	690	800	890
	500 CSSB2 225	3.25"	1530	1760	1970
	625 CSSB2 ###	5.50"	N/A	N/A	N/A
	750 CSSB2 ###	6.75"	N/A	N/A	N/A
RESIN	375 SET3G ###	N/A	N/A	N/A	N/A
	500 SET3G ###	N/A	N/A	N/A	N/A
	625 SET3G ###	N/A	N/A	N/A	N/A
	750 SET3G ###	N/A	N/A	N/A	N/A
SCREW	250 TITEN 119	3.25"	580	680	760
	375 TITEN 177	3.25"	650	760	850
	500 TITEN ###	5.00"	N/A	N/A	N/A
	625 TITEN ###	6.00"	N/A	N/A	N/A
	750 TITEN ###	6.00"	N/A	N/A	N/A

TABLE C: MITEK ANCHORS

Anchor Type		Min. Concrete Thickness Over Deck	Concrete Strength (28-day) 3000 psi	4000 psi	5000 psi
EXPANSION	375 WACW ###	N/A	N/A	N/A	N/A
	500 WACW ###	N/A	N/A	N/A	N/A
	625 WACW ###	N/A	N/A	N/A	N/A
	750 WACW ###	N/A	N/A	N/A	N/A
RESIN	375 CIAG7C ###	N/A	N/A	N/A	N/A
	500 CIAG7C ###	N/A	N/A	N/A	N/A
	625 CIAG7C ###	N/A	N/A	N/A	N/A
	750 CIAG7C ###	N/A	N/A	N/A	N/A
SCREW	375 SACHS ###	N/A	N/A	N/A	N/A
	500 SACHS ###	N/A	N/A	N/A	N/A
	625 SACHS ###	N/A	N/A	N/A	N/A
	750 SACHS ###	N/A	N/A	N/A	N/A

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TABLE 4.6.2.5: ANCHOR UPLIFT CAPACITIES — 4.5" NWC + 3" Metal Deck

Key:
Anchor Type: XXX YYYY ZZZ,
XXX = Anchor Size (inches x 100), YYYY = Anchor Code, ZZZ = Effective Embedment Depth (inches x 100)
** Value in the table indicates the anchor uplift capacity (lbs) for the specific anchor type, slab/deck type and concrete strength combination. If there is no anchor capacity greater than the required anchorage force from Table 4.3.X.B, there are no solutions.*

TABLE A: HILTI ANCHORS

Anchor Type		Min. Concrete Thickness Over Deck	Concrete Strength (28-day) 3000 psi	4000 psi	5000 psi
EXPANSION	250 KBTZ2 150	2.50"	220	250	270
	375 KBTZ2 200	2.50"	1580	1830	2040
	500 KBTZ2 200	3.25"	1580	1830	2040
	625 KBTZ2 ###	5.00"	N/A	N/A	N/A
	750 KBTZ2 ###	5.50"	N/A	N/A	N/A
RESIN	500 RE100 ###	N/A	N/A	N/A	N/A
	625 RE100 ###	N/A	N/A	N/A	N/A
	750 RE100 ###	N/A	N/A	N/A	N/A
	500 RE500 ###	N/A	N/A	N/A	N/A
	625 RE500 ###	N/A	N/A	N/A	N/A
	750 RE500 ###	N/A	N/A	N/A	N/A
SCREW	250 KHEZ 192	4.125"	620	710	800
	375 KHEZ 186	4.00"	1150	1320	1480
	500 KHEZ 152	4.50"	850	980	1090
	625 KHEZ ###	5.00"	N/A	N/A	N/A
	750 KHEZ ###	6.00"	N/A	N/A	N/A

TABLE B: SIMPSON ANCHORS

Anchor Type		Min. Concrete Thickness Over Deck	Concrete Strength (28-day) 3000 psi	4000 psi	5000 psi
EXPANSION	375 CSSB2 250	4.50"	1480	1710	1910
	500 CSSB2 250	4.44"	1780	2060	2300
	625 CSSB2 ###	5.50"	N/A	N/A	N/A
	750 CSSB2 ###	6.75"	N/A	N/A	N/A
RESIN	375 SET3G ###	N/A	N/A	N/A	N/A
	500 SET3G ###	N/A	N/A	N/A	N/A
	625 SET3G ###	N/A	N/A	N/A	N/A
	750 SET3G ###	N/A	N/A	N/A	N/A
SCREW	250 TITEN 194	3.50"	1010	1170	1310
	375 TITEN 198	4.33"	920	1060	1180
	500 TITEN ###	5.00"	N/A	N/A	N/A
	625 TITEN ###	6.00"	N/A	N/A	N/A
	750 TITEN ###	6.00"	N/A	N/A	N/A

TABLE C: MITEK ANCHORS

Anchor Type		Min. Concrete Thickness Over Deck	Concrete Strength (28-day) 3000 psi	4000 psi	5000 psi
EXPANSION	375 WACW ###	N/A	N/A	N/A	N/A
	500 WACW ###	N/A	N/A	N/A	N/A
	625 WACW ###	N/A	N/A	N/A	N/A
	750 WACW ###	N/A	N/A	N/A	N/A
RESIN	375 CIAG7C ###	N/A	N/A	N/A	N/A
	500 CIAG7C ###	N/A	N/A	N/A	N/A
	625 CIAG7C ###	N/A	N/A	N/A	N/A
	750 CIAG7C ###	N/A	N/A	N/A	N/A
SCREW	375 SACHS ###	N/A	N/A	N/A	N/A
	500 SACHS ###	N/A	N/A	N/A	N/A
	625 SACHS ###	N/A	N/A	N/A	N/A
	750 SACHS ###	N/A	N/A	N/A	N/A

REVIEWED FOR CODE COMPLIANCE HCAi PCS-0003 BY: Aleeza Asgar DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.X

MAXIMUM UNBRACED TOP TRACK LENGTH

REVIEWED FOR CODE COMPLIANCE
HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.161: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.40 Weight 2000 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	10'-4"	10'-10"	11'-4"	11'-10"	12'-3"	12'-8"	13'-2"	362T125-33-50
	362T125-43-50	13'-2"	13'-10"	14'-6"	15'-1"	15'-8"	16'-3"	16'-9"	362T125-43-50
	362T125-54-50	16'-1"	16'-11"	17'-8"	18'-5"	19'-1"	19'-9"	20'-5"	362T125-54-50
	362T125-68-50	19'-5"	20'-4"	21'-3"	22'-2"	23'-0"	23'-10"	24'-8"	362T125-68-50
	362T125-97-50	23'-7"	24'-9"	25'-10"	26'-11"	27'-11"	28'-11"	29'-11"	362T125-97-50
0.9	362T125-33-50	10'-8"	11'-3"	11'-9"	12'-3"	12'-9"	13'-2"	13'-7"	362T125-33-50
	362T125-43-50	13'-8"	14'-4"	15'-0"	15'-8"	16'-3"	16'-10"	17'-4"	362T125-43-50
	362T125-54-50	16'-8"	17'-6"	18'-3"	19'-1"	19'-9"	20'-6"	21'-2"	362T125-54-50
	362T125-68-50	20'-1"	21'-1"	22'-1"	23'-0"	23'-10"	24'-8"	25'-6"	362T125-68-50
	362T125-97-50	24'-5"	25'-7"	26'-9"	27'-10"	28'-11"	29'-11"	31'-0"	362T125-97-50
0.8	362T125-33-50	11'-1"	11'-8"	12'-2"	12'-9"	13'-2"	13'-8"	14'-2"	362T125-33-50
	362T125-43-50	14'-2"	14'-11"	15'-7"	16'-3"	16'-10"	17'-6"	18'-1"	362T125-43-50
	362T125-54-50	17'-4"	18'-2"	19'-0"	19'-9"	20'-7"	21'-3"	22'-0"	362T125-54-50
	362T125-68-50	20'-10"	21'-11"	22'-11"	23'-10"	24'-9"	25'-8"	26'-6"	362T125-68-50
	362T125-97-50	25'-4"	26'-7"	27'-9"	28'-11"	30'-1"	31'-1"	32'-2"	362T125-97-50
0.7	362T125-33-50	11'-7"	12'-2"	12'-9"	13'-3"	13'-9"	14'-3"	14'-9"	362T125-33-50
	362T125-43-50	14'-9"	15'-6"	16'-3"	16'-11"	17'-7"	18'-2"	18'-10"	362T125-43-50
	362T125-54-50	18'-0"	18'-11"	19'-9"	20'-7"	21'-5"	22'-2"	22'-11"	362T125-54-50
	362T125-68-50	21'-9"	22'-10"	23'-10"	24'-10"	25'-10"	26'-9"	27'-7"	362T125-68-50
	362T125-97-50	26'-5"	27'-8"	28'-11"	30'-2"	31'-4"	32'-5"	33'-6"	362T125-97-50
0.6	362T125-33-50	12'-1"	12'-9"	13'-4"	13'-10"	14'-5"	14'-11"	15'-5"	362T125-33-50
	362T125-43-50	15'-6"	16'-3"	17'-0"	17'-8"	18'-4"	19'-0"	19'-8"	362T125-43-50
	362T125-54-50	18'-10"	19'-9"	20'-8"	21'-7"	22'-4"	23'-2"	23'-11"	362T125-54-50
	362T125-68-50	22'-9"	23'-10"	24'-11"	26'-0"	27'-0"	27'-11"	28'-10"	362T125-68-50
	362T125-97-50	27'-7"	28'-11"	30'-3"	31'-6"	32'-9"	33'-11"	35'-0"	362T125-97-50
0.5	362T125-33-50	12'-9"	13'-4"	14'-0"	14'-7"	15'-1"	15'-8"	16'-2"	362T125-33-50
	362T125-43-50	16'-3"	17'-1"	17'-10"	18'-7"	19'-3"	20'-0"	20'-8"	362T125-43-50
	362T125-54-50	19'-10"	20'-9"	21'-9"	22'-7"	23'-6"	24'-4"	25'-2"	362T125-54-50
	362T125-68-50	23'-10"	25'-1"	26'-2"	27'-3"	28'-4"	29'-4"	30'-3"	362T125-68-50
	362T125-97-50	28'-11"	30'-5"	31'-9"	33'-1"	34'-4"	35'-7"	36'-9"	362T125-97-50
0.4	362T125-33-50	13'-5"	14'-1"	14'-9"	15'-4"	15'-11"	16'-6"	17'-1"	362T125-33-50
	362T125-43-50	17'-2"	18'-0"	18'-10"	19'-7"	20'-4"	21'-1"	21'-9"	362T125-43-50
	362T125-54-50	20'-11"	21'-11"	22'-11"	23'-10"	24'-9"	25'-8"	26'-6"	362T125-54-50
	362T125-68-50	25'-2"	26'-5"	27'-7"	28'-9"	29'-10"	30'-11"	31'-11"	362T125-68-50
	362T125-97-50	30'-6"	32'-1"	33'-6"	34'-11"	36'-3"	37'-6"	38'-9"	362T125-97-50
0.3	362T125-33-50	14'-3"	15'-0"	15'-8"	16'-4"	16'-11"	17'-7"	18'-2"	362T125-33-50
	362T125-43-50	18'-2"	19'-1"	20'-0"	20'-10"	21'-7"	22'-4"	23'-1"	362T125-43-50
	362T125-54-50	22'-2"	23'-3"	24'-4"	25'-4"	26'-4"	27'-3"	28'-2"	362T125-54-50
	362T125-68-50	26'-9"	28'-1"	29'-4"	30'-6"	31'-8"	32'-10"	33'-11"	362T125-68-50
	362T125-97-50	32'-5"	34'-0"	35'-7"	37'-0"	38'-5"	39'-10"	41'-2"	362T125-97-50
0.2	362T125-33-50	15'-3"	16'-1"	16'-9"	17'-6"	18'-2"	18'-9"	19'-5"	362T125-33-50
	362T125-43-50	19'-6"	20'-5"	21'-5"	22'-3"	23'-1"	23'-11"	24'-9"	362T125-43-50
	362T125-54-50	23'-9"	24'-11"	26'-0"	27'-1"	28'-2"	29'-2"	30'-1"	362T125-54-50
	362T125-68-50	28'-7"	30'-0"	31'-5"	32'-8"	33'-11"	35'-2"	36'-4"	362T125-68-50
	362T125-97-50	34'-8"	36'-5"	38'-1"	39'-7"	41'-2"	42'-7"	44'-0"	362T125-97-50
0.1	362T125-33-50	16'-6"	17'-4"	18'-2"	18'-11"	19'-8"	20'-4"	21'-0"	362T125-33-50
	362T125-43-50	21'-1"	22'-1"	23'-1"	24'-1"	25'-0"	25'-11"	26'-9"	362T125-43-50
	362T125-54-50	25'-8"	26'-11"	28'-2"	29'-4"	30'-5"	31'-6"	32'-7"	362T125-54-50
	362T125-68-50	30'-11"	32'-6"	33'-11"	35'-4"	36'-8"	38'-0"	39'-3"	362T125-68-50
	362T125-97-50	37'-6"	39'-4"	41'-2"	42'-10"	44'-6"	46'-1"	47'-7"	362T125-97-50
0.0	362T125-33-50	17'-8"	18'-7"	19'-5"	20'-3"	21'-0"	21'-9"	22'-6"	362T125-33-50
	362T125-43-50	22'-7"	23'-8"	24'-9"	25'-9"	26'-9"	27'-9"	28'-8"	362T125-43-50
	362T125-54-50	27'-6"	28'-10"	30'-2"	31'-5"	32'-7"	33'-9"	34'-10"	362T125-54-50
	362T125-68-50	33'-1"	34'-9"	36'-4"	37'-10"	39'-3"	40'-8"	42'-0"	362T125-68-50
	362T125-97-50	40'-2"	42'-1"	44'-0"	45'-10"	47'-7"	49'-3"	50'-11"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PCS-0003 Brian Alired Asdan DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.162: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.40 Weight 2200 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	9'-10"	10'-4"	10'-9"	11'-3"	11'-8"	12'-1"	12'-6"	362T125-33-50
	362T125-43-50	12'-7"	13'-2"	13'-9"	14'-4"	14'-11"	15'-5"	16'-0"	362T125-43-50
	362T125-54-50	15'-4"	16'-1"	16'-10"	17'-6"	18'-2"	18'-10"	19'-6"	362T125-54-50
	362T125-68-50	18'-6"	19'-5"	20'-3"	21'-1"	21'-11"	22'-8"	23'-6"	362T125-68-50
	362T125-97-50	22'-5"	23'-7"	24'-7"	25'-8"	26'-7"	27'-7"	28'-6"	362T125-97-50
0.9	362T125-33-50	10'-2"	10'-8"	11'-2"	11'-8"	12'-1"	12'-6"	12'-11"	362T125-33-50
	362T125-43-50	13'-0"	13'-8"	14'-3"	14'-11"	15'-5"	16'-0"	16'-7"	362T125-43-50
	362T125-54-50	15'-10"	16'-8"	17'-5"	18'-2"	18'-10"	19'-6"	20'-2"	362T125-54-50
	362T125-68-50	19'-2"	20'-1"	21'-0"	21'-10"	22'-9"	23'-6"	24'-4"	362T125-68-50
	362T125-97-50	23'-3"	24'-5"	25'-6"	26'-7"	27'-7"	28'-7"	29'-6"	362T125-97-50
0.8	362T125-33-50	10'-7"	11'-1"	11'-7"	12'-1"	12'-7"	13'-0"	13'-6"	362T125-33-50
	362T125-43-50	13'-6"	14'-2"	14'-10"	15'-5"	16'-1"	16'-8"	17'-2"	362T125-43-50
	362T125-54-50	16'-6"	17'-4"	18'-1"	18'-10"	19'-7"	20'-3"	20'-11"	362T125-54-50
	362T125-68-50	19'-10"	20'-10"	21'-10"	22'-9"	23'-7"	24'-5"	25'-3"	362T125-68-50
	362T125-97-50	24'-2"	25'-4"	26'-6"	27'-7"	28'-8"	29'-8"	30'-8"	362T125-97-50
0.7	362T125-33-50	11'-0"	11'-7"	12'-1"	12'-7"	13'-1"	13'-7"	14'-0"	362T125-33-50
	362T125-43-50	14'-1"	14'-9"	15'-6"	16'-1"	16'-9"	17'-4"	17'-11"	362T125-43-50
	362T125-54-50	17'-2"	18'-0"	18'-10"	19'-8"	20'-5"	21'-1"	21'-10"	362T125-54-50
	362T125-68-50	20'-9"	21'-9"	22'-9"	23'-8"	24'-7"	25'-5"	26'-4"	362T125-68-50
	362T125-97-50	25'-2"	26'-5"	27'-7"	28'-9"	29'-10"	30'-11"	31'-11"	362T125-97-50
0.6	362T125-33-50	11'-6"	12'-1"	12'-8"	13'-2"	13'-8"	14'-2"	14'-8"	362T125-33-50
	362T125-43-50	14'-9"	15'-6"	16'-2"	16'-10"	17'-6"	18'-1"	18'-9"	362T125-43-50
	362T125-54-50	17'-11"	18'-10"	19'-8"	20'-6"	21'-4"	22'-1"	22'-10"	362T125-54-50
	362T125-68-50	21'-8"	22'-9"	23'-9"	24'-9"	25'-8"	26'-7"	27'-6"	362T125-68-50
	362T125-97-50	26'-3"	27'-7"	28'-10"	30'-0"	31'-2"	32'-3"	33'-4"	362T125-97-50
0.5	362T125-33-50	12'-1"	12'-9"	13'-4"	13'-10"	14'-5"	14'-11"	15'-5"	362T125-33-50
	362T125-43-50	15'-6"	16'-3"	17'-0"	17'-8"	18'-4"	19'-0"	19'-8"	362T125-43-50
	362T125-54-50	18'-10"	19'-9"	20'-8"	21'-7"	22'-4"	23'-2"	23'-11"	362T125-54-50
	362T125-68-50	22'-9"	23'-10"	24'-11"	26'-0"	27'-0"	27'-11"	28'-10"	362T125-68-50
	362T125-97-50	27'-7"	28'-11"	30'-3"	31'-6"	32'-9"	33'-11"	35'-0"	362T125-97-50
0.4	362T125-33-50	12'-9"	13'-5"	14'-0"	14'-8"	15'-2"	15'-9"	16'-3"	362T125-33-50
	362T125-43-50	16'-4"	17'-2"	17'-11"	18'-8"	19'-5"	20'-1"	20'-9"	362T125-43-50
	362T125-54-50	19'-11"	20'-11"	21'-10"	22'-9"	23'-7"	24'-5"	25'-3"	362T125-54-50
	362T125-68-50	24'-0"	25'-2"	26'-4"	27'-5"	28'-5"	29'-6"	30'-5"	362T125-68-50
	362T125-97-50	29'-1"	30'-6"	31'-11"	33'-3"	34'-6"	35'-9"	36'-11"	362T125-97-50
0.3	362T125-33-50	13'-7"	14'-3"	14'-11"	15'-6"	16'-2"	16'-9"	17'-3"	362T125-33-50
	362T125-43-50	17'-4"	18'-2"	19'-0"	19'-10"	20'-7"	21'-4"	22'-0"	362T125-43-50
	362T125-54-50	21'-2"	22'-2"	23'-2"	24'-2"	25'-1"	26'-0"	26'-10"	362T125-54-50
	362T125-68-50	25'-6"	26'-9"	27'-11"	29'-1"	30'-2"	31'-3"	32'-4"	362T125-68-50
	362T125-97-50	30'-11"	32'-5"	33'-11"	35'-3"	36'-8"	37'-11"	39'-2"	362T125-97-50
0.2	362T125-33-50	14'-7"	15'-3"	16'-0"	16'-8"	17'-3"	17'-11"	18'-6"	362T125-33-50
	362T125-43-50	18'-7"	19'-6"	20'-4"	21'-3"	22'-0"	22'-10"	23'-7"	362T125-43-50
	362T125-54-50	22'-7"	23'-9"	24'-10"	25'-10"	26'-10"	27'-9"	28'-8"	362T125-54-50
	362T125-68-50	27'-3"	28'-7"	29'-11"	31'-2"	32'-4"	33'-6"	34'-7"	362T125-68-50
	362T125-97-50	33'-1"	34'-8"	36'-3"	37'-9"	39'-2"	40'-7"	41'-11"	362T125-97-50
0.1	362T125-33-50	15'-9"	16'-6"	17'-3"	18'-0"	18'-8"	19'-4"	20'-0"	362T125-33-50
	362T125-43-50	20'-1"	21'-1"	22'-0"	22'-11"	23'-10"	24'-8"	25'-6"	362T125-43-50
	362T125-54-50	24'-5"	25'-8"	26'-10"	27'-11"	29'-0"	30'-0"	31'-0"	362T125-54-50
	362T125-68-50	29'-6"	30'-11"	32'-4"	33'-8"	34'-11"	36'-2"	37'-5"	362T125-68-50
	362T125-97-50	35'-9"	37'-6"	39'-2"	40'-10"	42'-4"	43'-11"	45'-4"	362T125-97-50
0.0	362T125-33-50	16'-10"	17'-8"	18'-6"	19'-3"	20'-0"	20'-9"	21'-5"	362T125-33-50
	362T125-43-50	21'-6"	22'-7"	23'-7"	24'-7"	25'-6"	26'-5"	27'-3"	362T125-43-50
	362T125-54-50	26'-2"	27'-6"	28'-9"	29'-11"	31'-0"	32'-2"	33'-2"	362T125-54-50
	362T125-68-50	31'-6"	33'-1"	34'-7"	36'-0"	37'-5"	38'-9"	40'-0"	362T125-68-50
	362T125-97-50	38'-3"	40'-2"	41'-11"	43'-8"	45'-4"	46'-11"	48'-6"	362T125-97-50

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TABLE 4.7.4.163: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.40 Weight 2400 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	9'-5"	9'-10"	10'-4"	10'-9"	11'-2"	11'-7"	11'-11"	362T125-33-50
	362T125-43-50	12'-0"	12'-7"	13'-2"	13'-9"	14'-3"	14'-9"	15'-3"	362T125-43-50
	362T125-54-50	14'-8"	15'-5"	16'-1"	16'-9"	17'-5"	18'-0"	18'-7"	362T125-54-50
	362T125-68-50	17'-8"	18'-7"	19'-5"	20'-2"	21'-0"	21'-9"	22'-5"	362T125-68-50
	362T125-97-50	21'-5"	22'-6"	23'-6"	24'-6"	25'-6"	26'-4"	27'-3"	362T125-97-50
0.9	362T125-33-50	9'-9"	10'-3"	10'-8"	11'-2"	11'-7"	12'-0"	12'-5"	362T125-33-50
	362T125-43-50	12'-5"	13'-1"	13'-8"	14'-3"	14'-9"	15'-4"	15'-10"	362T125-43-50
	362T125-54-50	15'-2"	15'-11"	16'-8"	17'-4"	18'-0"	18'-8"	19'-4"	362T125-54-50
	362T125-68-50	18'-4"	19'-3"	20'-1"	20'-11"	21'-9"	22'-6"	23'-3"	362T125-68-50
	362T125-97-50	22'-3"	23'-4"	24'-5"	25'-5"	26'-4"	27'-4"	28'-3"	362T125-97-50
0.8	362T125-33-50	10'-1"	10'-7"	11'-1"	11'-7"	12'-0"	12'-5"	12'-10"	362T125-33-50
	362T125-43-50	12'-11"	13'-7"	14'-2"	14'-9"	15'-4"	15'-11"	16'-5"	362T125-43-50
	362T125-54-50	15'-9"	16'-7"	17'-4"	18'-0"	18'-9"	19'-5"	20'-0"	362T125-54-50
	362T125-68-50	19'-0"	19'-11"	20'-10"	21'-9"	22'-7"	23'-5"	24'-2"	362T125-68-50
	362T125-97-50	23'-1"	24'-3"	25'-4"	26'-5"	27'-5"	28'-4"	29'-4"	362T125-97-50
0.7	362T125-33-50	10'-6"	11'-1"	11'-7"	12'-1"	12'-6"	13'-0"	13'-5"	362T125-33-50
	362T125-43-50	13'-6"	14'-2"	14'-9"	15'-5"	16'-0"	16'-7"	17'-2"	362T125-43-50
	362T125-54-50	16'-5"	17'-3"	18'-0"	18'-9"	19'-6"	20'-2"	20'-10"	362T125-54-50
	362T125-68-50	19'-10"	20'-10"	21'-9"	22'-8"	23'-6"	24'-4"	25'-2"	362T125-68-50
	362T125-97-50	24'-0"	25'-3"	26'-5"	27'-6"	28'-6"	29'-6"	30'-6"	362T125-97-50
0.6	362T125-33-50	11'-0"	11'-7"	12'-1"	12'-7"	13'-1"	13'-7"	14'-0"	362T125-33-50
	362T125-43-50	14'-1"	14'-9"	15'-6"	16'-1"	16'-9"	17'-4"	17'-11"	362T125-43-50
	362T125-54-50	17'-2"	18'-0"	18'-10"	19'-8"	20'-5"	21'-1"	21'-10"	362T125-54-50
	362T125-68-50	20'-9"	21'-9"	22'-9"	23'-8"	24'-7"	25'-5"	26'-4"	362T125-68-50
	362T125-97-50	25'-2"	26'-5"	27'-7"	28'-9"	29'-10"	30'-11"	31'-11"	362T125-97-50
0.5	362T125-33-50	11'-7"	12'-2"	12'-9"	13'-3"	13'-9"	14'-3"	14'-9"	362T125-33-50
	362T125-43-50	14'-9"	15'-6"	16'-3"	16'-11"	17'-7"	18'-2"	18'-10"	362T125-43-50
	362T125-54-50	18'-0"	18'-11"	19'-9"	20'-7"	21'-5"	22'-2"	22'-11"	362T125-54-50
	362T125-68-50	21'-9"	22'-10"	23'-10"	24'-10"	25'-10"	26'-9"	27'-7"	362T125-68-50
	362T125-97-50	26'-5"	27'-8"	28'-11"	30'-2"	31'-4"	32'-5"	33'-6"	362T125-97-50
0.4	362T125-33-50	12'-3"	12'-10"	13'-5"	14'-0"	14'-6"	15'-1"	15'-7"	362T125-33-50
	362T125-43-50	15'-7"	16'-5"	17'-2"	17'-10"	18'-6"	19'-2"	19'-10"	362T125-43-50
	362T125-54-50	19'-0"	20'-0"	20'-11"	21'-9"	22'-7"	23'-5"	24'-2"	362T125-54-50
	362T125-68-50	22'-11"	24'-1"	25'-2"	26'-3"	27'-3"	28'-2"	29'-2"	362T125-68-50
	362T125-97-50	27'-10"	29'-2"	30'-6"	31'-10"	33'-0"	34'-2"	35'-4"	362T125-97-50
0.3	362T125-33-50	13'-0"	13'-8"	14'-3"	14'-10"	15'-5"	16'-0"	16'-6"	362T125-33-50
	362T125-43-50	16'-7"	17'-5"	18'-2"	18'-11"	19'-8"	20'-5"	21'-1"	362T125-43-50
	362T125-54-50	20'-3"	21'-3"	22'-2"	23'-1"	24'-0"	24'-10"	25'-8"	362T125-54-50
	362T125-68-50	24'-4"	25'-7"	26'-9"	27'-10"	28'-11"	29'-11"	30'-11"	362T125-68-50
	362T125-97-50	29'-6"	31'-0"	32'-5"	33'-9"	35'-1"	36'-4"	37'-6"	362T125-97-50
0.2	362T125-33-50	13'-11"	14'-7"	15'-3"	15'-11"	16'-6"	17'-1"	17'-8"	362T125-33-50
	362T125-43-50	17'-9"	18'-8"	19'-6"	20'-4"	21'-1"	21'-10"	22'-7"	362T125-43-50
	362T125-54-50	21'-8"	22'-8"	23'-9"	24'-9"	25'-8"	26'-7"	27'-6"	362T125-54-50
	362T125-68-50	26'-1"	27'-4"	28'-7"	29'-9"	30'-11"	32'-0"	33'-1"	362T125-68-50
	362T125-97-50	31'-8"	33'-2"	34'-8"	36'-1"	37'-6"	38'-10"	40'-2"	362T125-97-50
0.1	362T125-33-50	15'-1"	15'-10"	16'-6"	17'-3"	17'-11"	18'-6"	19'-2"	362T125-33-50
	362T125-43-50	19'-2"	20'-2"	21'-1"	21'-11"	22'-9"	23'-7"	24'-5"	362T125-43-50
	362T125-54-50	23'-5"	24'-7"	25'-8"	26'-9"	27'-9"	28'-9"	29'-8"	362T125-54-50
	362T125-68-50	28'-2"	29'-7"	30'-11"	32'-3"	33'-5"	34'-8"	35'-9"	362T125-68-50
	362T125-97-50	34'-2"	35'-11"	37'-6"	39'-1"	40'-7"	42'-0"	43'-5"	362T125-97-50
0.0	362T125-33-50	16'-2"	16'-11"	17'-8"	18'-5"	19'-2"	19'-10"	20'-6"	362T125-33-50
	362T125-43-50	20'-7"	21'-7"	22'-7"	23'-6"	24'-5"	25'-3"	26'-1"	362T125-43-50
	362T125-54-50	25'-1"	26'-3"	27'-6"	28'-7"	29'-8"	30'-9"	31'-9"	362T125-54-50
	362T125-68-50	30'-2"	31'-8"	33'-1"	34'-6"	35'-9"	37'-1"	38'-3"	362T125-68-50
	362T125-97-50	36'-7"	38'-5"	40'-2"	41'-9"	43'-5"	44'-11"	46'-5"	362T125-97-50

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TABLE 4.7.4.164: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.40 Weight 2600 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	9'-0"	9'-5"	9'-11"	10'-4"	10'-8"	11'-1"	11'-6"	362T125-33-50
	362T125-43-50	11'-6"	12'-1"	12'-8"	13'-2"	13'-8"	14'-2"	14'-8"	362T125-43-50
	362T125-54-50	14'-1"	14'-9"	15'-5"	16'-1"	16'-8"	17'-4"	17'-11"	362T125-54-50
	362T125-68-50	16'-11"	17'-10"	18'-7"	19'-5"	20'-2"	20'-10"	21'-7"	362T125-68-50
	362T125-97-50	20'-7"	21'-7"	22'-7"	23'-6"	24'-5"	25'-4"	26'-2"	362T125-97-50
0.9	362T125-33-50	9'-4"	9'-10"	10'-3"	10'-8"	11'-1"	11'-6"	11'-11"	362T125-33-50
	362T125-43-50	11'-11"	12'-6"	13'-1"	13'-8"	14'-2"	14'-8"	15'-2"	362T125-43-50
	362T125-54-50	14'-7"	15'-3"	16'-0"	16'-8"	17'-4"	17'-11"	18'-6"	362T125-54-50
	362T125-68-50	17'-7"	18'-5"	19'-3"	20'-1"	20'-10"	21'-7"	22'-4"	362T125-68-50
	362T125-97-50	21'-4"	22'-5"	23'-5"	24'-5"	25'-4"	26'-3"	27'-1"	362T125-97-50
0.8	362T125-33-50	9'-8"	10'-2"	10'-8"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-33-50
	362T125-43-50	12'-5"	13'-0"	13'-7"	14'-2"	14'-9"	15'-3"	15'-9"	362T125-43-50
	362T125-54-50	15'-2"	15'-11"	16'-7"	17'-4"	18'-0"	18'-7"	19'-3"	362T125-54-50
	362T125-68-50	18'-3"	19'-2"	20'-0"	20'-10"	21'-8"	22'-5"	23'-2"	362T125-68-50
	362T125-97-50	22'-2"	23'-3"	24'-4"	25'-4"	26'-4"	27'-3"	28'-2"	362T125-97-50
0.7	362T125-33-50	10'-1"	10'-7"	11'-1"	11'-7"	12'-0"	12'-5"	12'-10"	362T125-33-50
	362T125-43-50	12'-11"	13'-7"	14'-2"	14'-9"	15'-4"	15'-11"	16'-5"	362T125-43-50
	362T125-54-50	15'-9"	16'-7"	17'-4"	18'-0"	18'-9"	19'-5"	20'-0"	362T125-54-50
	362T125-68-50	19'-0"	19'-11"	20'-10"	21'-9"	22'-7"	23'-5"	24'-2"	362T125-68-50
	362T125-97-50	23'-1"	24'-3"	25'-4"	26'-5"	27'-5"	28'-4"	29'-4"	362T125-97-50
0.6	362T125-33-50	10'-7"	11'-1"	11'-7"	12'-1"	12'-7"	13'-0"	13'-6"	362T125-33-50
	362T125-43-50	13'-6"	14'-2"	14'-10"	15'-5"	16'-1"	16'-8"	17'-2"	362T125-43-50
	362T125-54-50	16'-6"	17'-4"	18'-1"	18'-10"	19'-7"	20'-3"	20'-11"	362T125-54-50
	362T125-68-50	19'-11"	20'-10"	21'-10"	22'-9"	23'-7"	24'-5"	25'-3"	362T125-68-50
	362T125-97-50	24'-2"	25'-4"	26'-6"	27'-7"	28'-8"	29'-8"	30'-8"	362T125-97-50
0.5	362T125-33-50	11'-1"	11'-8"	12'-2"	12'-9"	13'-2"	13'-8"	14'-2"	362T125-33-50
	362T125-43-50	14'-2"	14'-11"	15'-7"	16'-3"	16'-10"	17'-6"	18'-1"	362T125-43-50
	362T125-54-50	17'-4"	18'-2"	19'-0"	19'-9"	20'-7"	21'-3"	22'-0"	362T125-54-50
	362T125-68-50	20'-10"	21'-11"	22'-11"	23'-10"	24'-9"	25'-8"	26'-6"	362T125-68-50
	362T125-97-50	25'-4"	26'-7"	27'-10"	28'-11"	30'-1"	31'-1"	32'-2"	362T125-97-50
0.4	362T125-33-50	11'-9"	12'-4"	12'-11"	13'-5"	13'-11"	14'-5"	14'-11"	362T125-33-50
	362T125-43-50	15'-0"	15'-9"	16'-5"	17'-2"	17'-10"	18'-5"	19'-1"	362T125-43-50
	362T125-54-50	18'-3"	19'-2"	20'-1"	20'-11"	21'-8"	22'-5"	23'-2"	362T125-54-50
	362T125-68-50	22'-0"	23'-1"	24'-2"	25'-2"	26'-2"	27'-1"	28'-0"	362T125-68-50
	362T125-97-50	26'-9"	28'-1"	29'-4"	30'-6"	31'-8"	32'-10"	33'-11"	362T125-97-50
0.3	362T125-33-50	12'-6"	13'-1"	13'-8"	14'-3"	14'-10"	15'-4"	15'-10"	362T125-33-50
	362T125-43-50	15'-11"	16'-9"	17'-6"	18'-2"	18'-11"	19'-7"	20'-3"	362T125-43-50
	362T125-54-50	19'-5"	20'-4"	21'-3"	22'-2"	23'-0"	23'-10"	24'-8"	362T125-54-50
	362T125-68-50	23'-5"	24'-7"	25'-8"	26'-9"	27'-9"	28'-9"	29'-8"	362T125-68-50
	362T125-97-50	28'-4"	29'-9"	31'-2"	32'-5"	33'-8"	34'-10"	36'-0"	362T125-97-50
0.2	362T125-33-50	13'-4"	14'-0"	14'-8"	15'-3"	15'-10"	16'-5"	17'-0"	362T125-33-50
	362T125-43-50	17'-1"	17'-11"	18'-8"	19'-6"	20'-3"	20'-11"	21'-8"	362T125-43-50
	362T125-54-50	20'-9"	21'-10"	22'-9"	23'-9"	24'-8"	25'-6"	26'-4"	362T125-54-50
	362T125-68-50	25'-0"	26'-3"	27'-6"	28'-7"	29'-8"	30'-9"	31'-9"	362T125-68-50
	362T125-97-50	30'-4"	31'-10"	33'-4"	34'-8"	36'-0"	37'-4"	38'-6"	362T125-97-50
0.1	362T125-33-50	14'-5"	15'-2"	15'-10"	16'-6"	17'-2"	17'-9"	18'-4"	362T125-33-50
	362T125-43-50	18'-5"	19'-4"	20'-3"	21'-1"	21'-11"	22'-8"	23'-5"	362T125-43-50
	362T125-54-50	22'-6"	23'-7"	24'-8"	25'-8"	26'-8"	27'-7"	28'-6"	362T125-54-50
	362T125-68-50	27'-1"	28'-5"	29'-8"	30'-11"	32'-1"	33'-3"	34'-4"	362T125-68-50
	362T125-97-50	32'-10"	34'-6"	36'-0"	37'-6"	38'-11"	40'-4"	41'-8"	362T125-97-50
0.0	362T125-33-50	15'-6"	16'-3"	17'-0"	17'-8"	18'-5"	19'-0"	19'-8"	362T125-33-50
	362T125-43-50	19'-9"	20'-9"	21'-8"	22'-7"	23'-5"	24'-3"	25'-1"	362T125-43-50
	362T125-54-50	24'-1"	25'-3"	26'-5"	27'-6"	28'-6"	29'-6"	30'-6"	362T125-54-50
	362T125-68-50	29'-0"	30'-5"	31'-9"	33'-1"	34'-4"	35'-7"	36'-9"	362T125-68-50
	362T125-97-50	35'-2"	36'-11"	38'-6"	40'-2"	41'-8"	43'-2"	44'-7"	362T125-97-50

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TABLE 4.7.4.165: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.40 Weight 2800 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-8"	11'-0"	362T125-33-50
	362T125-43-50	11'-1"	11'-8"	12'-2"	12'-8"	13'-2"	13'-8"	14'-1"	362T125-43-50
	362T125-54-50	13'-6"	14'-3"	14'-10"	15'-6"	16'-1"	16'-8"	17'-3"	362T125-54-50
	362T125-68-50	16'-4"	17'-2"	17'-11"	18'-8"	19'-5"	20'-1"	20'-9"	362T125-68-50
	362T125-97-50	19'-10"	20'-10"	21'-9"	22'-8"	23'-6"	24'-5"	25'-2"	362T125-97-50
0.9	362T125-33-50	9'-0"	9'-5"	9'-10"	10'-3"	10'-8"	11'-1"	11'-5"	362T125-33-50
	362T125-43-50	11'-6"	12'-1"	12'-7"	13'-2"	13'-8"	14'-2"	14'-7"	362T125-43-50
	362T125-54-50	14'-0"	14'-9"	15'-5"	16'-0"	16'-8"	17'-3"	17'-10"	362T125-54-50
	362T125-68-50	16'-11"	17'-9"	18'-7"	19'-4"	20'-1"	20'-10"	21'-6"	362T125-68-50
	362T125-97-50	20'-6"	21'-7"	22'-6"	23'-6"	24'-5"	25'-3"	26'-1"	362T125-97-50
0.8	362T125-33-50	9'-4"	9'-10"	10'-3"	10'-8"	11'-1"	11'-6"	11'-11"	362T125-33-50
	362T125-43-50	11'-11"	12'-6"	13'-1"	13'-8"	14'-2"	14'-8"	15'-2"	362T125-43-50
	362T125-54-50	14'-7"	15'-3"	16'-0"	16'-8"	17'-4"	17'-11"	18'-6"	362T125-54-50
	362T125-68-50	17'-7"	18'-5"	19'-3"	20'-1"	20'-10"	21'-7"	22'-4"	362T125-68-50
	362T125-97-50	21'-4"	22'-5"	23'-5"	24'-5"	25'-4"	26'-3"	27'-1"	362T125-97-50
0.7	362T125-33-50	9'-9"	10'-3"	10'-8"	11'-2"	11'-7"	12'-0"	12'-5"	362T125-33-50
	362T125-43-50	12'-5"	13'-1"	13'-8"	14'-3"	14'-9"	15'-4"	15'-10"	362T125-43-50
	362T125-54-50	15'-2"	15'-11"	16'-8"	17'-4"	18'-0"	18'-8"	19'-4"	362T125-54-50
	362T125-68-50	18'-4"	19'-3"	20'-1"	20'-11"	21'-9"	22'-6"	23'-3"	362T125-68-50
	362T125-97-50	22'-3"	23'-4"	24'-5"	25'-5"	26'-4"	27'-4"	28'-3"	362T125-97-50
0.6	362T125-33-50	10'-2"	10'-8"	11'-2"	11'-8"	12'-1"	12'-6"	12'-11"	362T125-33-50
	362T125-43-50	13'-0"	13'-8"	14'-3"	14'-11"	15'-5"	16'-0"	16'-7"	362T125-43-50
	362T125-54-50	15'-10"	16'-8"	17'-5"	18'-2"	18'-10"	19'-6"	20'-2"	362T125-54-50
	362T125-68-50	19'-2"	20'-1"	21'-0"	21'-10"	22'-8"	23'-6"	24'-4"	362T125-68-50
	362T125-97-50	23'-3"	24'-5"	25'-6"	26'-7"	27'-7"	28'-7"	29'-6"	362T125-97-50
0.5	362T125-33-50	10'-8"	11'-3"	11'-9"	12'-3"	12'-9"	13'-2"	13'-7"	362T125-33-50
	362T125-43-50	13'-8"	14'-4"	15'-0"	15'-8"	16'-3"	16'-10"	17'-4"	362T125-43-50
	362T125-54-50	16'-8"	17'-6"	18'-3"	19'-1"	19'-9"	20'-6"	21'-2"	362T125-54-50
	362T125-68-50	20'-1"	21'-1"	22'-1"	23'-0"	23'-10"	24'-8"	25'-6"	362T125-68-50
	362T125-97-50	24'-5"	25'-7"	26'-9"	27'-11"	28'-11"	29'-11"	31'-0"	362T125-97-50
0.4	362T125-33-50	11'-3"	11'-10"	12'-5"	12'-11"	13'-5"	13'-11"	14'-4"	362T125-33-50
	362T125-43-50	14'-5"	15'-2"	15'-10"	16'-6"	17'-2"	17'-9"	18'-4"	362T125-43-50
	362T125-54-50	17'-7"	18'-6"	19'-4"	20'-1"	20'-11"	21'-7"	22'-4"	362T125-54-50
	362T125-68-50	21'-2"	22'-3"	23'-3"	24'-3"	25'-2"	26'-1"	26'-11"	362T125-68-50
	362T125-97-50	25'-9"	27'-0"	28'-3"	29'-5"	30'-6"	31'-7"	32'-8"	362T125-97-50
0.3	362T125-33-50	12'-0"	12'-7"	13'-2"	13'-9"	14'-3"	14'-9"	15'-3"	362T125-33-50
	362T125-43-50	15'-4"	16'-1"	16'-10"	17'-6"	18'-2"	18'-10"	19'-6"	362T125-43-50
	362T125-54-50	18'-8"	19'-7"	20'-6"	21'-4"	22'-2"	23'-0"	23'-9"	362T125-54-50
	362T125-68-50	22'-6"	23'-8"	24'-8"	25'-9"	26'-9"	27'-8"	28'-7"	362T125-68-50
	362T125-97-50	27'-4"	28'-8"	30'-0"	31'-3"	32'-5"	33'-7"	34'-8"	362T125-97-50
0.2	362T125-33-50	12'-10"	13'-6"	14'-1"	14'-8"	15'-3"	15'-10"	16'-4"	362T125-33-50
	362T125-43-50	16'-5"	17'-3"	18'-0"	18'-9"	19'-6"	20'-2"	20'-10"	362T125-43-50
	362T125-54-50	20'-0"	21'-0"	21'-11"	22'-10"	23'-9"	24'-7"	25'-5"	362T125-54-50
	362T125-68-50	24'-1"	25'-4"	26'-5"	27'-7"	28'-7"	29'-7"	30'-7"	362T125-68-50
	362T125-97-50	29'-3"	30'-8"	32'-1"	33'-5"	34'-8"	35'-11"	37'-1"	362T125-97-50
0.1	362T125-33-50	13'-11"	14'-7"	15'-3"	15'-11"	16'-6"	17'-1"	17'-8"	362T125-33-50
	362T125-43-50	17'-9"	18'-8"	19'-6"	20'-4"	21'-1"	21'-10"	22'-7"	362T125-43-50
	362T125-54-50	21'-8"	22'-8"	23'-9"	24'-9"	25'-8"	26'-7"	27'-6"	362T125-54-50
	362T125-68-50	26'-1"	27'-4"	28'-7"	29'-9"	30'-11"	32'-0"	33'-1"	362T125-68-50
	362T125-97-50	31'-8"	33'-2"	34'-8"	36'-1"	37'-6"	38'-10"	40'-2"	362T125-97-50
0.0	362T125-33-50	14'-11"	15'-8"	16'-4"	17'-0"	17'-8"	18'-4"	18'-11"	362T125-33-50
	362T125-43-50	19'-0"	19'-11"	20'-10"	21'-9"	22'-7"	23'-4"	24'-2"	362T125-43-50
	362T125-54-50	23'-2"	24'-4"	25'-5"	26'-5"	27'-6"	28'-5"	29'-5"	362T125-54-50
	362T125-68-50	27'-11"	29'-3"	30'-7"	31'-11"	33'-1"	34'-3"	35'-5"	362T125-68-50
	362T125-97-50	33'-10"	35'-6"	37'-1"	38'-8"	40'-2"	41'-7"	42'-11"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PCS-0003 By: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.166: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.40 Weight 3000 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	8'-4"	8'-9"	9'-2"	9'-7"	9'-11"	10'-4"	10'-8"	362T125-33-50
	362T125-43-50	10'-8"	11'-3"	11'-9"	12'-3"	12'-9"	13'-2"	13'-7"	362T125-43-50
	362T125-54-50	13'-1"	13'-9"	14'-4"	14'-11"	15'-6"	16'-1"	16'-7"	362T125-54-50
	362T125-68-50	15'-9"	16'-6"	17'-3"	18'-0"	18'-9"	19'-5"	20'-0"	362T125-68-50
	362T125-97-50	19'-2"	20'-1"	21'-0"	21'-11"	22'-9"	23'-6"	24'-4"	362T125-97-50
0.9	362T125-33-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-8"	11'-0"	362T125-33-50
	362T125-43-50	11'-1"	11'-8"	12'-2"	12'-8"	13'-2"	13'-8"	14'-1"	362T125-43-50
	362T125-54-50	13'-6"	14'-2"	14'-10"	15'-6"	16'-1"	16'-8"	17'-3"	362T125-54-50
	362T125-68-50	16'-4"	17'-2"	17'-11"	18'-8"	19'-5"	20'-1"	20'-9"	362T125-68-50
	362T125-97-50	19'-10"	20'-10"	21'-9"	22'-8"	23'-6"	24'-5"	25'-2"	362T125-97-50
0.8	362T125-33-50	9'-0"	9'-5"	9'-11"	10'-4"	10'-8"	11'-1"	11'-6"	362T125-33-50
	362T125-43-50	11'-6"	12'-1"	12'-8"	13'-2"	13'-8"	14'-2"	14'-8"	362T125-43-50
	362T125-54-50	14'-1"	14'-9"	15'-5"	16'-1"	16'-8"	17'-4"	17'-11"	362T125-54-50
	362T125-68-50	16'-11"	17'-10"	18'-7"	19'-5"	20'-2"	20'-10"	21'-7"	362T125-68-50
	362T125-97-50	20'-7"	21'-7"	22'-7"	23'-6"	24'-5"	25'-4"	26'-2"	362T125-97-50
0.7	362T125-33-50	9'-5"	9'-10"	10'-4"	10'-9"	11'-2"	11'-7"	11'-11"	362T125-33-50
	362T125-43-50	12'-0"	12'-7"	13'-2"	13'-9"	14'-3"	14'-9"	15'-3"	362T125-43-50
	362T125-54-50	14'-8"	15'-5"	16'-1"	16'-9"	17'-5"	18'-0"	18'-7"	362T125-54-50
	362T125-68-50	17'-8"	18'-7"	19'-5"	20'-2"	21'-0"	21'-9"	22'-5"	362T125-68-50
	362T125-97-50	21'-5"	22'-6"	23'-6"	24'-6"	25'-6"	26'-4"	27'-3"	362T125-97-50
0.6	362T125-33-50	9'-10"	10'-4"	10'-9"	11'-3"	11'-8"	12'-1"	12'-6"	362T125-33-50
	362T125-43-50	12'-7"	13'-2"	13'-9"	14'-4"	14'-11"	15'-5"	16'-0"	362T125-43-50
	362T125-54-50	15'-4"	16'-1"	16'-10"	17'-6"	18'-2"	18'-10"	19'-6"	362T125-54-50
	362T125-68-50	18'-6"	19'-5"	20'-3"	21'-1"	21'-11"	22'-8"	23'-6"	362T125-68-50
	362T125-97-50	22'-5"	23'-7"	24'-7"	25'-8"	26'-7"	27'-7"	28'-6"	362T125-97-50
0.5	362T125-33-50	10'-4"	10'-10"	11'-4"	11'-10"	12'-3"	12'-8"	13'-2"	362T125-33-50
	362T125-43-50	13'-2"	13'-10"	14'-6"	15'-1"	15'-8"	16'-3"	16'-9"	362T125-43-50
	362T125-54-50	16'-1"	16'-11"	17'-8"	18'-5"	19'-1"	19'-9"	20'-5"	362T125-54-50
	362T125-68-50	19'-5"	20'-4"	21'-3"	22'-2"	23'-0"	23'-10"	24'-8"	362T125-68-50
	362T125-97-50	23'-7"	24'-9"	25'-10"	26'-11"	27'-11"	28'-11"	29'-11"	362T125-97-50
0.4	362T125-33-50	10'-11"	11'-5"	12'-0"	12'-6"	12'-11"	13'-5"	13'-10"	362T125-33-50
	362T125-43-50	13'-11"	14'-7"	15'-3"	15'-11"	16'-6"	17'-2"	17'-8"	362T125-43-50
	362T125-54-50	17'-0"	17'-10"	18'-8"	19'-5"	20'-2"	20'-11"	21'-7"	362T125-54-50
	362T125-68-50	20'-6"	21'-6"	22'-6"	23'-5"	24'-4"	25'-2"	26'-0"	362T125-68-50
	362T125-97-50	24'-10"	26'-1"	27'-3"	28'-5"	29'-6"	30'-6"	31'-7"	362T125-97-50
0.3	362T125-33-50	11'-7"	12'-2"	12'-9"	13'-3"	13'-9"	14'-3"	14'-9"	362T125-33-50
	362T125-43-50	14'-9"	15'-6"	16'-3"	16'-11"	17'-7"	18'-2"	18'-10"	362T125-43-50
	362T125-54-50	18'-0"	18'-11"	19'-9"	20'-7"	21'-5"	22'-2"	22'-11"	362T125-54-50
	362T125-68-50	21'-9"	22'-10"	23'-10"	24'-10"	25'-10"	26'-9"	27'-7"	362T125-68-50
	362T125-97-50	26'-5"	27'-8"	28'-11"	30'-2"	31'-4"	32'-5"	33'-6"	362T125-97-50
0.2	362T125-33-50	12'-5"	13'-0"	13'-7"	14'-2"	14'-9"	15'-3"	15'-9"	362T125-33-50
	362T125-43-50	15'-10"	16'-8"	17'-5"	18'-1"	18'-10"	19'-6"	20'-2"	362T125-43-50
	362T125-54-50	19'-4"	20'-3"	21'-2"	22'-1"	22'-11"	23'-9"	24'-6"	362T125-54-50
	362T125-68-50	23'-3"	24'-5"	25'-6"	26'-7"	27'-7"	28'-7"	29'-7"	362T125-68-50
	362T125-97-50	28'-3"	29'-8"	31'-0"	32'-3"	33'-6"	34'-8"	35'-10"	362T125-97-50
0.1	362T125-33-50	13'-5"	14'-1"	14'-9"	15'-4"	15'-11"	16'-6"	17'-1"	362T125-33-50
	362T125-43-50	17'-2"	18'-0"	18'-10"	19'-7"	20'-4"	21'-1"	21'-9"	362T125-43-50
	362T125-54-50	20'-11"	21'-11"	22'-11"	23'-10"	24'-9"	25'-8"	26'-6"	362T125-54-50
	362T125-68-50	25'-2"	26'-5"	27'-7"	28'-9"	29'-10"	30'-11"	31'-11"	362T125-68-50
	362T125-97-50	30'-6"	32'-1"	33'-6"	34'-11"	36'-3"	37'-6"	38'-9"	362T125-97-50
0.0	362T125-33-50	14'-5"	15'-1"	15'-9"	16'-5"	17'-1"	17'-8"	18'-3"	362T125-33-50
	362T125-43-50	18'-4"	19'-3"	20'-2"	21'-0"	21'-9"	22'-7"	23'-4"	362T125-43-50
	362T125-54-50	22'-4"	23'-6"	24'-6"	25'-7"	26'-6"	27'-6"	28'-5"	362T125-54-50
	362T125-68-50	26'-11"	28'-3"	29'-7"	30'-9"	32'-0"	33'-1"	34'-2"	362T125-68-50
	362T125-97-50	32'-8"	34'-4"	35'-10"	37'-4"	38'-9"	40'-2"	41'-6"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PCS-0003 By Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.167: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.40 Weight 3200 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	8'-1"	8'-6"	8'-10"	9'-3"	9'-7"	9'-11"	10'-4"	362T125-33-50
	362T125-43-50	10'-4"	10'-10"	11'-4"	11'-10"	12'-4"	12'-9"	13'-2"	362T125-43-50
	362T125-54-50	12'-8"	13'-3"	13'-10"	14'-5"	15'-0"	15'-6"	16'-1"	362T125-54-50
	362T125-68-50	15'-3"	16'-0"	16'-9"	17'-5"	18'-1"	18'-9"	19'-5"	362T125-68-50
	362T125-97-50	18'-6"	19'-5"	20'-4"	21'-2"	22'-0"	22'-9"	23'-6"	362T125-97-50
0.9	362T125-33-50	8'-4"	8'-9"	9'-2"	9'-7"	10'-0"	10'-4"	10'-8"	362T125-33-50
	362T125-43-50	10'-9"	11'-3"	11'-9"	12'-3"	12'-9"	13'-2"	13'-8"	362T125-43-50
	362T125-54-50	13'-1"	13'-9"	14'-4"	15'-0"	15'-7"	16'-1"	16'-8"	362T125-54-50
	362T125-68-50	15'-9"	16'-7"	17'-4"	18'-1"	18'-9"	19'-5"	20'-1"	362T125-68-50
	362T125-97-50	19'-2"	20'-2"	21'-1"	21'-11"	22'-9"	23'-7"	24'-5"	362T125-97-50
0.8	362T125-33-50	8'-8"	9'-2"	9'-7"	10'-0"	10'-4"	10'-9"	11'-1"	362T125-33-50
	362T125-43-50	11'-2"	11'-8"	12'-3"	12'-9"	13'-3"	13'-9"	14'-2"	362T125-43-50
	362T125-54-50	13'-7"	14'-3"	14'-11"	15'-7"	16'-2"	16'-9"	17'-4"	362T125-54-50
	362T125-68-50	16'-5"	17'-3"	18'-0"	18'-9"	19'-6"	20'-2"	20'-10"	362T125-68-50
	362T125-97-50	19'-11"	20'-11"	21'-10"	22'-9"	23'-8"	24'-6"	25'-4"	362T125-97-50
0.7	362T125-33-50	9'-1"	9'-6"	10'-0"	10'-5"	10'-9"	11'-2"	11'-7"	362T125-33-50
	362T125-43-50	11'-7"	12'-2"	12'-9"	13'-3"	13'-10"	14'-4"	14'-9"	362T125-43-50
	362T125-54-50	14'-2"	14'-10"	15'-7"	16'-2"	16'-10"	17'-5"	18'-0"	362T125-54-50
	362T125-68-50	17'-1"	17'-11"	18'-9"	19'-6"	20'-4"	21'-0"	21'-9"	362T125-68-50
	362T125-97-50	20'-9"	21'-9"	22'-9"	23'-9"	24'-8"	25'-6"	26'-4"	362T125-97-50
0.6	362T125-33-50	9'-6"	10'-0"	10'-5"	10'-10"	11'-3"	11'-8"	12'-1"	362T125-33-50
	362T125-43-50	12'-2"	12'-9"	13'-4"	13'-11"	14'-5"	14'-11"	15'-5"	362T125-43-50
	362T125-54-50	14'-10"	15'-7"	16'-3"	16'-11"	17'-7"	18'-3"	18'-10"	362T125-54-50
	362T125-68-50	17'-10"	18'-9"	19'-7"	20'-5"	21'-3"	22'-0"	22'-9"	362T125-68-50
	362T125-97-50	21'-8"	22'-9"	23'-10"	24'-10"	25'-9"	26'-8"	27'-7"	362T125-97-50
0.5	362T125-33-50	10'-0"	10'-6"	10'-11"	11'-5"	11'-10"	12'-3"	12'-8"	362T125-33-50
	362T125-43-50	12'-9"	13'-5"	14'-0"	14'-7"	15'-2"	15'-8"	16'-3"	362T125-43-50
	362T125-54-50	15'-7"	16'-4"	17'-1"	17'-10"	18'-6"	19'-2"	19'-9"	362T125-54-50
	362T125-68-50	18'-9"	19'-8"	20'-7"	21'-5"	22'-3"	23'-1"	23'-10"	362T125-68-50
	362T125-97-50	22'-9"	23'-11"	25'-0"	26'-0"	27'-0"	28'-0"	28'-11"	362T125-97-50
0.4	362T125-33-50	10'-6"	11'-1"	11'-7"	12'-1"	12'-6"	13'-0"	13'-5"	362T125-33-50
	362T125-43-50	13'-6"	14'-2"	14'-9"	15'-5"	16'-0"	16'-7"	17'-2"	362T125-43-50
	362T125-54-50	16'-5"	17'-3"	18'-0"	18'-9"	19'-6"	20'-2"	20'-10"	362T125-54-50
	362T125-68-50	19'-10"	20'-10"	21'-9"	22'-8"	23'-6"	24'-4"	25'-2"	362T125-68-50
	362T125-97-50	24'-0"	25'-3"	26'-5"	27'-6"	28'-6"	29'-6"	30'-6"	362T125-97-50
0.3	362T125-33-50	11'-2"	11'-9"	12'-4"	12'-10"	13'-4"	13'-9"	14'-3"	362T125-33-50
	362T125-43-50	14'-4"	15'-0"	15'-8"	16'-4"	17'-0"	17'-7"	18'-2"	362T125-43-50
	362T125-54-50	17'-5"	18'-4"	19'-2"	19'-11"	20'-9"	21'-5"	22'-2"	362T125-54-50
	362T125-68-50	21'-0"	22'-1"	23'-1"	24'-0"	25'-0"	25'-10"	26'-9"	362T125-68-50
	362T125-97-50	25'-6"	26'-10"	28'-0"	29'-2"	30'-3"	31'-4"	32'-5"	362T125-97-50
0.2	362T125-33-50	12'-0"	12'-7"	13'-2"	13'-9"	14'-3"	14'-9"	15'-3"	362T125-33-50
	362T125-43-50	15'-4"	16'-1"	16'-10"	17'-6"	18'-2"	18'-10"	19'-6"	362T125-43-50
	362T125-54-50	18'-8"	19'-7"	20'-6"	21'-4"	22'-2"	23'-0"	23'-9"	362T125-54-50
	362T125-68-50	22'-6"	23'-8"	24'-8"	25'-9"	26'-9"	27'-8"	28'-7"	362T125-68-50
	362T125-97-50	27'-4"	28'-8"	30'-0"	31'-3"	32'-5"	33'-7"	34'-8"	362T125-97-50
0.1	362T125-33-50	13'-0"	13'-8"	14'-3"	14'-10"	15'-5"	16'-0"	16'-6"	362T125-33-50
	362T125-43-50	16'-7"	17'-5"	18'-2"	18'-11"	19'-8"	20'-5"	21'-1"	362T125-43-50
	362T125-54-50	20'-3"	21'-3"	22'-2"	23'-1"	24'-0"	24'-10"	25'-8"	362T125-54-50
	362T125-68-50	24'-4"	25'-7"	26'-9"	27'-10"	28'-11"	29'-11"	30'-11"	362T125-68-50
	362T125-97-50	29'-7"	31'-0"	32'-5"	33'-9"	35'-1"	36'-4"	37'-6"	362T125-97-50
0.0	362T125-33-50	13'-11"	14'-7"	15'-3"	15'-11"	16'-6"	17'-1"	17'-8"	362T125-33-50
	362T125-43-50	17'-9"	18'-8"	19'-6"	20'-4"	21'-1"	21'-10"	22'-7"	362T125-43-50
	362T125-54-50	21'-8"	22'-8"	23'-9"	24'-9"	25'-8"	26'-7"	27'-6"	362T125-54-50
	362T125-68-50	26'-1"	27'-4"	28'-7"	29'-9"	30'-11"	32'-0"	33'-1"	362T125-68-50
	362T125-97-50	31'-8"	33'-2"	34'-8"	36'-1"	37'-6"	38'-10"	40'-2"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PC-0003 By Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.168: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.40 Weight 3400 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	7'-10"	8'-3"	8'-7"	8'-11"	9'-4"	9'-8"	10'-0"	362T125-33-50
	362T125-43-50	10'-0"	10'-6"	11'-0"	11'-6"	11'-11"	12'-4"	12'-9"	362T125-43-50
	362T125-54-50	12'-3"	12'-10"	13'-5"	14'-0"	14'-7"	15'-1"	15'-7"	362T125-54-50
	362T125-68-50	14'-9"	15'-6"	16'-3"	16'-11"	17'-7"	18'-2"	18'-9"	362T125-68-50
	362T125-97-50	17'-11"	18'-10"	19'-8"	20'-6"	21'-4"	22'-1"	22'-10"	362T125-97-50
0.9	362T125-33-50	8'-1"	8'-6"	8'-11"	9'-3"	9'-8"	10'-0"	10'-4"	362T125-33-50
	362T125-43-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-4"	12'-10"	13'-3"	362T125-43-50
	362T125-54-50	12'-8"	13'-4"	13'-11"	14'-6"	15'-1"	15'-7"	16'-2"	362T125-54-50
	362T125-68-50	15'-4"	16'-1"	16'-10"	17'-6"	18'-2"	18'-10"	19'-6"	362T125-68-50
	362T125-97-50	18'-7"	19'-6"	20'-5"	21'-3"	22'-1"	22'-10"	23'-8"	362T125-97-50
0.8	362T125-33-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-0"	10'-5"	10'-9"	362T125-33-50
	362T125-43-50	10'-9"	11'-4"	11'-10"	12'-4"	12'-10"	13'-4"	13'-9"	362T125-43-50
	362T125-54-50	13'-2"	13'-10"	14'-6"	15'-1"	15'-8"	16'-3"	16'-9"	362T125-54-50
	362T125-68-50	15'-11"	16'-8"	17'-5"	18'-2"	18'-11"	19'-7"	20'-3"	362T125-68-50
	362T125-97-50	19'-4"	20'-3"	21'-2"	22'-1"	22'-11"	23'-9"	24'-7"	362T125-97-50
0.7	362T125-33-50	8'-9"	9'-3"	9'-8"	10'-1"	10'-5"	10'-10"	11'-2"	362T125-33-50
	362T125-43-50	11'-3"	11'-10"	12'-4"	12'-10"	13'-4"	13'-10"	14'-4"	362T125-43-50
	362T125-54-50	13'-9"	14'-5"	15'-1"	15'-8"	16'-4"	16'-11"	17'-6"	362T125-54-50
	362T125-68-50	16'-7"	17'-5"	18'-2"	18'-11"	19'-8"	20'-5"	21'-1"	362T125-68-50
	362T125-97-50	20'-1"	21'-1"	22'-1"	23'-0"	23'-11"	24'-9"	25'-7"	362T125-97-50
0.6	362T125-33-50	9'-2"	9'-8"	10'-1"	10'-6"	10'-11"	11'-4"	11'-9"	362T125-33-50
	362T125-43-50	11'-9"	12'-4"	12'-11"	13'-6"	14'-0"	14'-6"	15'-0"	362T125-43-50
	362T125-54-50	14'-4"	15'-1"	15'-9"	16'-5"	17'-1"	17'-8"	18'-3"	362T125-54-50
	362T125-68-50	17'-4"	18'-2"	19'-0"	19'-10"	20'-7"	21'-4"	22'-0"	362T125-68-50
	362T125-97-50	21'-0"	22'-1"	23'-1"	24'-1"	25'-0"	25'-10"	26'-9"	362T125-97-50
0.5	362T125-33-50	9'-8"	10'-2"	10'-7"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-33-50
	362T125-43-50	12'-4"	13'-0"	13'-7"	14'-2"	14'-8"	15'-3"	15'-9"	362T125-43-50
	362T125-54-50	15'-1"	15'-10"	16'-7"	17'-3"	17'-11"	18'-7"	19'-2"	362T125-54-50
	362T125-68-50	18'-2"	19'-1"	20'-0"	20'-10"	21'-7"	22'-4"	23'-1"	362T125-68-50
	362T125-97-50	22'-1"	23'-2"	24'-3"	25'-3"	26'-3"	27'-2"	28'-1"	362T125-97-50
0.4	362T125-33-50	10'-2"	10'-9"	11'-3"	11'-8"	12'-2"	12'-7"	13'-0"	362T125-33-50
	362T125-43-50	13'-1"	13'-8"	14'-4"	14'-11"	15'-6"	16'-1"	16'-7"	362T125-43-50
	362T125-54-50	15'-11"	16'-9"	17'-6"	18'-2"	18'-11"	19'-7"	20'-3"	362T125-54-50
	362T125-68-50	19'-2"	20'-2"	21'-1"	21'-11"	22'-9"	23'-7"	24'-5"	362T125-68-50
	362T125-97-50	23'-4"	24'-6"	25'-7"	26'-8"	27'-8"	28'-8"	29'-7"	362T125-97-50
0.3	362T125-33-50	10'-10"	11'-5"	11'-11"	12'-5"	12'-11"	13'-4"	13'-10"	362T125-33-50
	362T125-43-50	13'-10"	14'-7"	15'-3"	15'-10"	16'-6"	17'-1"	17'-8"	362T125-43-50
	362T125-54-50	16'-11"	17'-9"	18'-7"	19'-4"	20'-1"	20'-10"	21'-6"	362T125-54-50
	362T125-68-50	20'-5"	21'-5"	22'-4"	23'-4"	24'-2"	25'-1"	25'-11"	362T125-68-50
	362T125-97-50	24'-9"	26'-0"	27'-2"	28'-3"	29'-4"	30'-5"	31'-5"	362T125-97-50
0.2	362T125-33-50	11'-8"	12'-3"	12'-9"	13'-4"	13'-10"	14'-4"	14'-10"	362T125-33-50
	362T125-43-50	14'-10"	15'-7"	16'-4"	17'-0"	17'-8"	18'-3"	18'-11"	362T125-43-50
	362T125-54-50	18'-1"	19'-0"	19'-10"	20'-8"	21'-6"	22'-3"	23'-0"	362T125-54-50
	362T125-68-50	21'-10"	22'-11"	23'-11"	24'-11"	25'-11"	26'-10"	27'-9"	362T125-68-50
	362T125-97-50	26'-6"	27'-10"	29'-1"	30'-3"	31'-5"	32'-7"	33'-8"	362T125-97-50
0.1	362T125-33-50	12'-7"	13'-3"	13'-10"	14'-5"	15'-0"	15'-6"	16'-0"	362T125-33-50
	362T125-43-50	16'-1"	16'-11"	17'-8"	18'-5"	19'-1"	19'-9"	20'-5"	362T125-43-50
	362T125-54-50	19'-7"	20'-7"	21'-6"	22'-5"	23'-3"	24'-1"	24'-11"	362T125-54-50
	362T125-68-50	23'-7"	24'-10"	25'-11"	27'-0"	28'-0"	29'-0"	30'-0"	362T125-68-50
	362T125-97-50	28'-8"	30'-1"	31'-5"	32'-9"	34'-0"	35'-2"	36'-4"	362T125-97-50
0.0	362T125-33-50	13'-6"	14'-2"	14'-10"	15'-5"	16'-0"	16'-7"	17'-2"	362T125-33-50
	362T125-43-50	17'-3"	18'-1"	18'-11"	19'-8"	20'-5"	21'-2"	21'-10"	362T125-43-50
	362T125-54-50	21'-0"	22'-0"	23'-0"	24'-0"	24'-11"	25'-9"	26'-8"	362T125-54-50
	362T125-68-50	25'-3"	26'-6"	27'-9"	28'-11"	30'-0"	31'-1"	32'-1"	362T125-68-50
	362T125-97-50	30'-8"	32'-2"	33'-8"	35'-0"	36'-4"	37'-8"	38'-11"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PCR-0003 By Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.169: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.40 Weight 3600 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	7'-7"	8'-0"	8'-4"	8'-8"	9'-0"	9'-4"	9'-8"	362T125-33-50
	362T125-43-50	9'-9"	10'-3"	10'-8"	11'-2"	11'-7"	12'-0"	12'-5"	362T125-43-50
	362T125-54-50	11'-11"	12'-6"	13'-1"	13'-7"	14'-1"	14'-8"	15'-1"	362T125-54-50
	362T125-68-50	14'-4"	15'-1"	15'-9"	16'-5"	17'-0"	17'-8"	18'-3"	362T125-68-50
	362T125-97-50	17'-5"	18'-4"	19'-2"	19'-11"	20'-8"	21'-5"	22'-2"	362T125-97-50
0.9	362T125-33-50	7'-10"	8'-3"	8'-8"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-33-50
	362T125-43-50	10'-1"	10'-7"	11'-1"	11'-6"	12'-0"	12'-5"	12'-10"	362T125-43-50
	362T125-54-50	12'-4"	12'-11"	13'-6"	14'-1"	14'-8"	15'-2"	15'-8"	362T125-54-50
	362T125-68-50	14'-10"	15'-7"	16'-4"	17'-0"	17'-8"	18'-3"	18'-11"	362T125-68-50
	362T125-97-50	18'-1"	18'-11"	19'-10"	20'-8"	21'-5"	22'-3"	22'-11"	362T125-97-50
0.8	362T125-33-50	8'-2"	8'-7"	9'-0"	9'-4"	9'-9"	10'-1"	10'-5"	362T125-33-50
	362T125-43-50	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	12'-11"	13'-4"	362T125-43-50
	362T125-54-50	12'-10"	13'-5"	14'-1"	14'-8"	15'-2"	15'-9"	16'-3"	362T125-54-50
	362T125-68-50	15'-5"	16'-2"	16'-11"	17'-8"	18'-4"	19'-0"	19'-8"	362T125-68-50
	362T125-97-50	18'-9"	19'-8"	20'-7"	21'-5"	22'-3"	23'-1"	23'-10"	362T125-97-50
0.7	362T125-33-50	8'-6"	9'-0"	9'-4"	9'-9"	10'-2"	10'-6"	10'-10"	362T125-33-50
	362T125-43-50	10'-11"	11'-6"	12'-0"	12'-6"	13'-0"	13'-5"	13'-11"	362T125-43-50
	362T125-54-50	13'-4"	14'-0"	14'-8"	15'-3"	15'-10"	16'-5"	17'-0"	362T125-54-50
	362T125-68-50	16'-1"	16'-11"	17'-8"	18'-5"	19'-1"	19'-10"	20'-5"	362T125-68-50
	362T125-97-50	19'-6"	20'-6"	21'-5"	22'-4"	23'-2"	24'-0"	24'-10"	362T125-97-50
0.6	362T125-33-50	8'-11"	9'-5"	9'-10"	10'-3"	10'-7"	11'-0"	11'-5"	362T125-33-50
	362T125-43-50	11'-5"	12'-0"	12'-7"	13'-1"	13'-7"	14'-1"	14'-7"	362T125-43-50
	362T125-54-50	13'-11"	14'-8"	15'-4"	15'-11"	16'-7"	17'-2"	17'-9"	362T125-54-50
	362T125-68-50	16'-10"	17'-8"	18'-6"	19'-3"	20'-0"	20'-8"	21'-5"	362T125-68-50
	362T125-97-50	20'-5"	21'-5"	22'-5"	23'-4"	24'-3"	25'-1"	26'-0"	362T125-97-50
0.5	362T125-33-50	9'-5"	9'-10"	10'-4"	10'-9"	11'-2"	11'-7"	11'-11"	362T125-33-50
	362T125-43-50	12'-0"	12'-7"	13'-2"	13'-9"	14'-3"	14'-9"	15'-3"	362T125-43-50
	362T125-54-50	14'-8"	15'-5"	16'-1"	16'-9"	17'-5"	18'-0"	18'-7"	362T125-54-50
	362T125-68-50	17'-8"	18'-7"	19'-5"	20'-2"	21'-0"	21'-9"	22'-5"	362T125-68-50
	362T125-97-50	21'-5"	22'-6"	23'-6"	24'-6"	25'-6"	26'-4"	27'-3"	362T125-97-50
0.4	362T125-33-50	9'-11"	10'-5"	10'-11"	11'-4"	11'-9"	12'-3"	12'-7"	362T125-33-50
	362T125-43-50	12'-8"	13'-4"	13'-11"	14'-6"	15'-1"	15'-7"	16'-1"	362T125-43-50
	362T125-54-50	15'-6"	16'-3"	17'-0"	17'-8"	18'-4"	19'-0"	19'-8"	362T125-54-50
	362T125-68-50	18'-8"	19'-7"	20'-6"	21'-4"	22'-2"	22'-11"	23'-8"	362T125-68-50
	362T125-97-50	22'-8"	23'-9"	24'-10"	25'-10"	26'-10"	27'-10"	28'-9"	362T125-97-50
0.3	362T125-33-50	10'-6"	11'-1"	11'-7"	12'-1"	12'-6"	13'-0"	13'-5"	362T125-33-50
	362T125-43-50	13'-6"	14'-2"	14'-9"	15'-5"	16'-0"	16'-7"	17'-2"	362T125-43-50
	362T125-54-50	16'-5"	17'-3"	18'-0"	18'-9"	19'-6"	20'-2"	20'-10"	362T125-54-50
	362T125-68-50	19'-10"	20'-10"	21'-9"	22'-8"	23'-6"	24'-4"	25'-2"	362T125-68-50
	362T125-97-50	24'-0"	25'-3"	26'-5"	27'-6"	28'-6"	29'-7"	30'-6"	362T125-97-50
0.2	362T125-33-50	11'-3"	11'-10"	12'-5"	12'-11"	13'-5"	13'-11"	14'-4"	362T125-33-50
	362T125-43-50	14'-5"	15'-2"	15'-10"	16'-6"	17'-2"	17'-9"	18'-4"	362T125-43-50
	362T125-54-50	17'-7"	18'-6"	19'-4"	20'-1"	20'-11"	21'-7"	22'-4"	362T125-54-50
	362T125-68-50	21'-2"	22'-3"	23'-3"	24'-3"	25'-2"	26'-1"	26'-11"	362T125-68-50
	362T125-97-50	25'-9"	27'-0"	28'-3"	29'-5"	30'-6"	31'-7"	32'-8"	362T125-97-50
0.1	362T125-33-50	12'-3"	12'-10"	13'-5"	14'-0"	14'-6"	15'-1"	15'-7"	362T125-33-50
	362T125-43-50	15'-7"	16'-5"	17'-2"	17'-10"	18'-6"	19'-2"	19'-10"	362T125-43-50
	362T125-54-50	19'-0"	20'-0"	20'-11"	21'-9"	22'-7"	23'-5"	24'-2"	362T125-54-50
	362T125-68-50	22'-11"	24'-1"	25'-2"	26'-3"	27'-3"	28'-2"	29'-2"	362T125-68-50
	362T125-97-50	27'-10"	29'-2"	30'-6"	31'-10"	33'-0"	34'-2"	35'-4"	362T125-97-50
0.0	362T125-33-50	13'-1"	13'-9"	14'-5"	15'-0"	15'-7"	16'-1"	16'-8"	362T125-33-50
	362T125-43-50	16'-9"	17'-7"	18'-4"	19'-1"	19'-10"	20'-7"	21'-3"	362T125-43-50
	362T125-54-50	20'-4"	21'-5"	22'-4"	23'-3"	24'-2"	25'-0"	25'-10"	362T125-54-50
	362T125-68-50	24'-7"	25'-9"	26'-11"	28'-1"	29'-2"	30'-2"	31'-2"	362T125-68-50
	362T125-97-50	29'-9"	31'-3"	32'-8"	34'-0"	35'-4"	36'-7"	37'-10"	362T125-97-50

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TABLE 4.7.4.170: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.40 Weight 3800 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	7'-4"	7'-9"	8'-1"	8'-5"	8'-9"	9'-1"	9'-5"	362T125-33-50
	362T125-43-50	9'-5"	9'-11"	10'-5"	10'-10"	11'-3"	11'-8"	12'-1"	362T125-43-50
	362T125-54-50	11'-7"	12'-2"	12'-8"	13'-3"	13'-9"	14'-3"	14'-9"	362T125-54-50
	362T125-68-50	13'-11"	14'-8"	15'-4"	15'-11"	16'-7"	17'-2"	17'-9"	362T125-68-50
	362T125-97-50	16'-11"	17'-10"	18'-7"	19'-5"	20'-2"	20'-10"	21'-7"	362T125-97-50
0.9	362T125-33-50	7'-8"	8'-0"	8'-5"	8'-9"	9'-1"	9'-5"	9'-9"	362T125-33-50
	362T125-43-50	9'-10"	10'-4"	10'-9"	11'-3"	11'-8"	12'-1"	12'-6"	362T125-43-50
	362T125-54-50	12'-0"	12'-7"	13'-2"	13'-8"	14'-3"	14'-9"	15'-3"	362T125-54-50
	362T125-68-50	14'-5"	15'-2"	15'-10"	16'-6"	17'-2"	17'-9"	18'-5"	362T125-68-50
	362T125-97-50	17'-7"	18'-5"	19'-3"	20'-1"	20'-10"	21'-7"	22'-4"	362T125-97-50
0.8	362T125-33-50	7'-11"	8'-4"	8'-9"	9'-1"	9'-6"	9'-10"	10'-2"	362T125-33-50
	362T125-43-50	10'-2"	10'-8"	11'-2"	11'-8"	12'-1"	12'-7"	13'-0"	362T125-43-50
	362T125-54-50	12'-5"	13'-1"	13'-8"	14'-3"	14'-9"	15'-4"	15'-10"	362T125-54-50
	362T125-68-50	15'-0"	15'-9"	16'-6"	17'-2"	17'-10"	18'-6"	19'-1"	362T125-68-50
	362T125-97-50	18'-3"	19'-2"	20'-0"	20'-10"	21'-8"	22'-5"	23'-2"	362T125-97-50
0.7	362T125-33-50	8'-3"	8'-9"	9'-1"	9'-6"	9'-10"	10'-3"	10'-7"	362T125-33-50
	362T125-43-50	10'-7"	11'-2"	11'-8"	12'-2"	12'-8"	13'-1"	13'-6"	362T125-43-50
	362T125-54-50	13'-0"	13'-7"	14'-3"	14'-10"	15'-5"	16'-0"	16'-6"	362T125-54-50
	362T125-68-50	15'-8"	16'-5"	17'-2"	17'-11"	18'-7"	19'-3"	19'-11"	362T125-68-50
	362T125-97-50	19'-0"	19'-11"	20'-10"	21'-9"	22'-7"	23'-4"	24'-2"	362T125-97-50
0.6	362T125-33-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-8"	11'-1"	362T125-33-50
	362T125-43-50	11'-1"	11'-8"	12'-2"	12'-9"	13'-2"	13'-8"	14'-2"	362T125-43-50
	362T125-54-50	13'-7"	14'-3"	14'-11"	15'-6"	16'-1"	16'-8"	17'-3"	362T125-54-50
	362T125-68-50	16'-4"	17'-2"	18'-0"	18'-9"	19'-5"	20'-2"	20'-10"	362T125-68-50
	362T125-97-50	19'-10"	20'-10"	21'-10"	22'-9"	23'-7"	24'-5"	25'-3"	362T125-97-50
0.5	362T125-33-50	9'-1"	9'-7"	10'-0"	10'-5"	10'-10"	11'-3"	11'-7"	362T125-33-50
	362T125-43-50	11'-8"	12'-3"	12'-10"	13'-4"	13'-10"	14'-4"	14'-10"	362T125-43-50
	362T125-54-50	14'-3"	14'-11"	15'-8"	16'-4"	16'-11"	17'-6"	18'-1"	362T125-54-50
	362T125-68-50	17'-2"	18'-0"	18'-10"	19'-8"	20'-5"	21'-2"	21'-10"	362T125-68-50
	362T125-97-50	20'-10"	21'-11"	22'-11"	23'-10"	24'-9"	25'-8"	26'-6"	362T125-97-50
0.4	362T125-33-50	9'-8"	10'-1"	10'-7"	11'-0"	11'-6"	11'-10"	12'-3"	362T125-33-50
	362T125-43-50	12'-4"	12'-11"	13'-6"	14'-1"	14'-8"	15'-2"	15'-8"	362T125-43-50
	362T125-54-50	15'-0"	15'-9"	16'-6"	17'-2"	17'-10"	18'-6"	19'-1"	362T125-54-50
	362T125-68-50	18'-2"	19'-0"	19'-11"	20'-9"	21'-7"	22'-4"	23'-1"	362T125-68-50
	362T125-97-50	22'-0"	23'-1"	24'-2"	25'-2"	26'-2"	27'-1"	28'-0"	362T125-97-50
0.3	362T125-33-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-2"	12'-7"	13'-1"	362T125-33-50
	362T125-43-50	13'-1"	13'-9"	14'-5"	15'-0"	15'-7"	16'-1"	16'-8"	362T125-43-50
	362T125-54-50	16'-0"	16'-9"	17'-6"	18'-3"	19'-0"	19'-8"	20'-4"	362T125-54-50
	362T125-68-50	19'-3"	20'-3"	21'-2"	22'-0"	22'-10"	23'-8"	24'-6"	362T125-68-50
	362T125-97-50	23'-5"	24'-7"	25'-8"	26'-9"	27'-9"	28'-9"	29'-8"	362T125-97-50
0.2	362T125-33-50	11'-0"	11'-6"	12'-1"	12'-7"	13'-1"	13'-6"	14'-0"	362T125-33-50
	362T125-43-50	14'-0"	14'-9"	15'-5"	16'-1"	16'-8"	17'-3"	17'-10"	362T125-43-50
	362T125-54-50	17'-1"	18'-0"	18'-9"	19'-7"	20'-4"	21'-0"	21'-9"	362T125-54-50
	362T125-68-50	20'-7"	21'-8"	22'-8"	23'-7"	24'-6"	25'-4"	26'-2"	362T125-68-50
	362T125-97-50	25'-0"	26'-3"	27'-6"	28'-7"	29'-8"	30'-9"	31'-9"	362T125-97-50
0.1	362T125-33-50	11'-11"	12'-6"	13'-1"	13'-7"	14'-2"	14'-8"	15'-2"	362T125-33-50
	362T125-43-50	15'-2"	15'-11"	16'-8"	17'-4"	18'-0"	18'-8"	19'-4"	362T125-43-50
	362T125-54-50	18'-6"	19'-5"	20'-4"	21'-2"	22'-0"	22'-9"	23'-6"	362T125-54-50
	362T125-68-50	22'-4"	23'-5"	24'-6"	25'-6"	26'-6"	27'-5"	28'-4"	362T125-68-50
	362T125-97-50	27'-1"	28'-5"	29'-8"	30'-11"	32'-1"	33'-3"	34'-4"	362T125-97-50
0.0	362T125-33-50	12'-9"	13'-4"	14'-0"	14'-7"	15'-2"	15'-8"	16'-2"	362T125-33-50
	362T125-43-50	16'-3"	17'-1"	17'-10"	18'-7"	19'-4"	20'-0"	20'-8"	362T125-43-50
	362T125-54-50	19'-10"	20'-10"	21'-9"	22'-8"	23'-6"	24'-4"	25'-2"	362T125-54-50
	362T125-68-50	23'-11"	25'-1"	26'-3"	27'-4"	28'-4"	29'-4"	30'-4"	362T125-68-50
	362T125-97-50	29'-0"	30'-5"	31'-10"	33'-1"	34'-5"	35'-7"	36'-9"	362T125-97-50

RECOMMENDED FOR CODE COMPLIANCE HCAI PCC-0003 By Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.171: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.40 Weight 4000 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	7'-2"	7'-6"	7'-11"	8'-3"	8'-7"	8'-10"	9'-2"	362T125-33-50
	362T125-43-50	9'-2"	9'-8"	10'-1"	10'-7"	10'-11"	11'-4"	11'-9"	362T125-43-50
	362T125-54-50	11'-3"	11'-10"	12'-4"	12'-11"	13'-5"	13'-10"	14'-4"	362T125-54-50
	362T125-68-50	13'-7"	14'-3"	14'-11"	15'-6"	16'-2"	16'-9"	17'-3"	362T125-68-50
	362T125-97-50	16'-6"	17'-4"	18'-1"	18'-11"	19'-7"	20'-4"	21'-0"	362T125-97-50
0.9	362T125-33-50	7'-5"	7'-10"	8'-2"	8'-6"	8'-10"	9'-2"	9'-6"	362T125-33-50
	362T125-43-50	9'-6"	10'-0"	10'-6"	10'-11"	11'-4"	11'-9"	12'-2"	362T125-43-50
	362T125-54-50	11'-8"	12'-3"	12'-10"	13'-4"	13'-10"	14'-4"	14'-10"	362T125-54-50
	362T125-68-50	14'-1"	14'-9"	15'-5"	16'-1"	16'-9"	17'-4"	17'-11"	362T125-68-50
	362T125-97-50	17'-1"	17'-11"	18'-9"	19'-7"	20'-4"	21'-1"	21'-9"	362T125-97-50
0.8	362T125-33-50	7'-9"	8'-1"	8'-6"	8'-10"	9'-3"	9'-7"	9'-10"	362T125-33-50
	362T125-43-50	9'-11"	10'-5"	10'-11"	11'-4"	11'-10"	12'-3"	12'-8"	362T125-43-50
	362T125-54-50	12'-1"	12'-9"	13'-4"	13'-10"	14'-5"	14'-11"	15'-5"	362T125-54-50
	362T125-68-50	14'-7"	15'-4"	16'-1"	16'-9"	17'-4"	18'-0"	18'-7"	362T125-68-50
	362T125-97-50	17'-9"	18'-8"	19'-6"	20'-4"	21'-1"	21'-10"	22'-7"	362T125-97-50
0.7	362T125-33-50	8'-1"	8'-6"	8'-10"	9'-3"	9'-7"	9'-11"	10'-4"	362T125-33-50
	362T125-43-50	10'-4"	10'-10"	11'-4"	11'-10"	12'-4"	12'-9"	13'-2"	362T125-43-50
	362T125-54-50	12'-8"	13'-3"	13'-10"	14'-5"	15'-0"	15'-6"	16'-1"	362T125-54-50
	362T125-68-50	15'-3"	16'-0"	16'-9"	17'-5"	18'-1"	18'-9"	19'-5"	362T125-68-50
	362T125-97-50	18'-6"	19'-5"	20'-4"	21'-2"	22'-0"	22'-9"	23'-6"	362T125-97-50
0.6	362T125-33-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-1"	10'-5"	10'-9"	362T125-33-50
	362T125-43-50	10'-10"	11'-4"	11'-11"	12'-5"	12'-10"	13'-4"	13'-9"	362T125-43-50
	362T125-54-50	13'-2"	13'-10"	14'-6"	15'-1"	15'-8"	16'-3"	16'-10"	362T125-54-50
	362T125-68-50	15'-11"	16'-9"	17'-6"	18'-3"	18'-11"	19'-7"	20'-3"	362T125-68-50
	362T125-97-50	19'-4"	20'-4"	21'-3"	22'-2"	23'-0"	23'-10"	24'-7"	362T125-97-50
0.5	362T125-33-50	8'-11"	9'-4"	9'-9"	10'-2"	10'-7"	10'-11"	11'-4"	362T125-33-50
	362T125-43-50	11'-4"	11'-11"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	362T125-43-50
	362T125-54-50	13'-11"	14'-7"	15'-3"	15'-10"	16'-6"	17'-1"	17'-8"	362T125-54-50
	362T125-68-50	16'-9"	17'-7"	18'-4"	19'-2"	19'-11"	20'-7"	21'-3"	362T125-68-50
	362T125-97-50	20'-4"	21'-4"	22'-4"	23'-3"	24'-2"	25'-0"	25'-10"	362T125-97-50
0.4	362T125-33-50	9'-5"	9'-10"	10'-4"	10'-9"	11'-2"	11'-7"	11'-11"	362T125-33-50
	362T125-43-50	12'-0"	12'-7"	13'-2"	13'-9"	14'-3"	14'-9"	15'-3"	362T125-43-50
	362T125-54-50	14'-8"	15'-5"	16'-1"	16'-9"	17'-5"	18'-0"	18'-7"	362T125-54-50
	362T125-68-50	17'-8"	18'-7"	19'-5"	20'-2"	21'-0"	21'-9"	22'-5"	362T125-68-50
	362T125-97-50	21'-5"	22'-6"	23'-6"	24'-6"	25'-6"	26'-4"	27'-3"	362T125-97-50
0.3	362T125-33-50	10'-0"	10'-6"	10'-11"	11'-5"	11'-10"	12'-3"	12'-8"	362T125-33-50
	362T125-43-50	12'-9"	13'-5"	14'-0"	14'-7"	15'-2"	15'-8"	16'-3"	362T125-43-50
	362T125-54-50	15'-7"	16'-4"	17'-1"	17'-10"	18'-6"	19'-2"	19'-9"	362T125-54-50
	362T125-68-50	18'-9"	19'-8"	20'-7"	21'-5"	22'-3"	23'-1"	23'-10"	362T125-68-50
	362T125-97-50	22'-9"	23'-11"	25'-0"	26'-0"	27'-0"	28'-0"	28'-11"	362T125-97-50
0.2	362T125-33-50	10'-8"	11'-3"	11'-9"	12'-3"	12'-9"	13'-2"	13'-7"	362T125-33-50
	362T125-43-50	13'-8"	14'-4"	15'-0"	15'-8"	16'-3"	16'-10"	17'-4"	362T125-43-50
	362T125-54-50	16'-8"	17'-6"	18'-3"	19'-1"	19'-9"	20'-6"	21'-2"	362T125-54-50
	362T125-68-50	20'-1"	21'-1"	22'-1"	23'-0"	23'-10"	24'-8"	25'-6"	362T125-68-50
	362T125-97-50	24'-5"	25'-7"	26'-9"	27'-11"	28'-11"	29'-11"	31'-0"	362T125-97-50
0.1	362T125-33-50	11'-7"	12'-2"	12'-9"	13'-3"	13'-9"	14'-3"	14'-9"	362T125-33-50
	362T125-43-50	14'-9"	15'-6"	16'-3"	16'-11"	17'-7"	18'-2"	18'-10"	362T125-43-50
	362T125-54-50	18'-0"	18'-11"	19'-9"	20'-7"	21'-5"	22'-2"	22'-11"	362T125-54-50
	362T125-68-50	21'-9"	22'-10"	23'-10"	24'-10"	25'-10"	26'-9"	27'-7"	362T125-68-50
	362T125-97-50	26'-5"	27'-8"	28'-11"	30'-2"	31'-4"	32'-5"	33'-6"	362T125-97-50
0.0	362T125-33-50	12'-5"	13'-0"	13'-7"	14'-2"	14'-9"	15'-3"	15'-9"	362T125-33-50
	362T125-43-50	15'-10"	16'-8"	17'-5"	18'-1"	18'-10"	19'-6"	20'-2"	362T125-43-50
	362T125-54-50	19'-4"	20'-3"	21'-2"	22'-1"	22'-11"	23'-9"	24'-6"	362T125-54-50
	362T125-68-50	23'-3"	24'-5"	25'-6"	26'-7"	27'-7"	28'-7"	29'-7"	362T125-68-50
	362T125-97-50	28'-3"	29'-7"	31'-0"	32'-3"	33'-6"	34'-8"	35'-10"	362T125-97-50

RECOMMENDED FOR CODE COMPLIANCE HCAI PCS-0003 By Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.172: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.40 Weight 4200 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	8'-11"	362T125-33-50
	362T125-43-50	9'-0"	9'-5"	9'-10"	10'-3"	10'-8"	11'-1"	11'-5"	362T125-43-50
	362T125-54-50	11'-0"	11'-6"	12'-1"	12'-7"	13'-1"	13'-6"	14'-0"	362T125-54-50
	362T125-68-50	13'-3"	13'-11"	14'-6"	15'-2"	15'-9"	16'-4"	16'-10"	362T125-68-50
	362T125-97-50	16'-1"	16'-11"	17'-8"	18'-5"	19'-1"	19'-10"	20'-6"	362T125-97-50
0.9	362T125-33-50	7'-3"	7'-7"	8'-0"	8'-4"	8'-8"	8'-11"	9'-3"	362T125-33-50
	362T125-43-50	9'-4"	9'-9"	10'-3"	10'-8"	11'-1"	11'-6"	11'-10"	362T125-43-50
	362T125-54-50	11'-4"	11'-11"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	362T125-54-50
	362T125-68-50	13'-9"	14'-5"	15'-1"	15'-8"	16'-4"	16'-11"	17'-6"	362T125-68-50
	362T125-97-50	16'-8"	17'-6"	18'-4"	19'-1"	19'-10"	20'-6"	21'-3"	362T125-97-50
0.8	362T125-33-50	7'-6"	7'-11"	8'-3"	8'-8"	9'-0"	9'-4"	9'-7"	362T125-33-50
	362T125-43-50	9'-8"	10'-2"	10'-8"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-43-50
	362T125-54-50	11'-10"	12'-5"	13'-0"	13'-6"	14'-1"	14'-7"	15'-0"	362T125-54-50
	362T125-68-50	14'-3"	15'-0"	15'-8"	16'-4"	16'-11"	17'-7"	18'-2"	362T125-68-50
	362T125-97-50	17'-4"	18'-2"	19'-0"	19'-10"	20'-7"	21'-4"	22'-0"	362T125-97-50
0.7	362T125-33-50	7'-10"	8'-3"	8'-8"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-33-50
	362T125-43-50	10'-1"	10'-7"	11'-1"	11'-6"	12'-0"	12'-5"	12'-10"	362T125-43-50
	362T125-54-50	12'-4"	12'-11"	13'-6"	14'-1"	14'-8"	15'-2"	15'-8"	362T125-54-50
	362T125-68-50	14'-10"	15'-7"	16'-4"	17'-0"	17'-8"	18'-3"	18'-11"	362T125-68-50
	362T125-97-50	18'-1"	18'-11"	19'-10"	20'-8"	21'-5"	22'-3"	22'-11"	362T125-97-50
0.6	362T125-33-50	8'-3"	8'-8"	9'-1"	9'-5"	9'-10"	10'-2"	10'-6"	362T125-33-50
	362T125-43-50	10'-7"	11'-1"	11'-7"	12'-1"	12'-7"	13'-0"	13'-5"	362T125-43-50
	362T125-54-50	12'-11"	13'-6"	14'-2"	14'-9"	15'-4"	15'-10"	16'-5"	362T125-54-50
	362T125-68-50	15'-6"	16'-4"	17'-1"	17'-9"	18'-6"	19'-1"	19'-9"	362T125-68-50
	362T125-97-50	18'-11"	19'-10"	20'-9"	21'-7"	22'-5"	23'-3"	24'-0"	362T125-97-50
0.5	362T125-33-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-8"	11'-0"	362T125-33-50
	362T125-43-50	11'-1"	11'-8"	12'-2"	12'-8"	13'-2"	13'-8"	14'-1"	362T125-43-50
	362T125-54-50	13'-6"	14'-3"	14'-10"	15'-6"	16'-1"	16'-8"	17'-3"	362T125-54-50
	362T125-68-50	16'-4"	17'-2"	17'-11"	18'-8"	19'-5"	20'-1"	20'-9"	362T125-68-50
	362T125-97-50	19'-10"	20'-10"	21'-9"	22'-8"	23'-6"	24'-5"	25'-2"	362T125-97-50
0.4	362T125-33-50	9'-2"	9'-7"	10'-1"	10'-6"	10'-11"	11'-3"	11'-8"	362T125-33-50
	362T125-43-50	11'-8"	12'-3"	12'-10"	13'-5"	13'-11"	14'-5"	14'-11"	362T125-43-50
	362T125-54-50	14'-3"	15'-0"	15'-8"	16'-4"	17'-0"	17'-7"	18'-2"	362T125-54-50
	362T125-68-50	17'-3"	18'-1"	18'-11"	19'-8"	20'-6"	21'-2"	21'-11"	362T125-68-50
	362T125-97-50	20'-11"	22'-0"	23'-0"	23'-11"	24'-10"	25'-9"	26'-7"	362T125-97-50
0.3	362T125-33-50	9'-9"	10'-3"	10'-8"	11'-2"	11'-7"	12'-0"	12'-5"	362T125-33-50
	362T125-43-50	12'-5"	13'-1"	13'-8"	14'-3"	14'-9"	15'-4"	15'-10"	362T125-43-50
	362T125-54-50	15'-2"	15'-11"	16'-8"	17'-4"	18'-0"	18'-8"	19'-4"	362T125-54-50
	362T125-68-50	18'-4"	19'-3"	20'-1"	20'-11"	21'-9"	22'-6"	23'-3"	362T125-68-50
	362T125-97-50	22'-3"	23'-4"	24'-5"	25'-5"	26'-4"	27'-4"	28'-3"	362T125-97-50
0.2	362T125-33-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-5"	12'-10"	13'-3"	362T125-33-50
	362T125-43-50	13'-4"	14'-0"	14'-8"	15'-3"	15'-10"	16'-5"	16'-11"	362T125-43-50
	362T125-54-50	16'-3"	17'-1"	17'-10"	18'-7"	19'-4"	20'-0"	20'-8"	362T125-54-50
	362T125-68-50	19'-7"	20'-7"	21'-6"	22'-5"	23'-3"	24'-1"	24'-11"	362T125-68-50
	362T125-97-50	23'-9"	25'-0"	26'-1"	27'-2"	28'-3"	29'-3"	30'-3"	362T125-97-50
0.1	362T125-33-50	11'-3"	11'-10"	12'-5"	12'-11"	13'-5"	13'-11"	14'-4"	362T125-33-50
	362T125-43-50	14'-5"	15'-2"	15'-10"	16'-6"	17'-2"	17'-9"	18'-4"	362T125-43-50
	362T125-54-50	17'-7"	18'-6"	19'-4"	20'-1"	20'-11"	21'-7"	22'-4"	362T125-54-50
	362T125-68-50	21'-2"	22'-3"	23'-3"	24'-3"	25'-2"	26'-1"	26'-11"	362T125-68-50
	362T125-97-50	25'-9"	27'-0"	28'-3"	29'-5"	30'-6"	31'-7"	32'-8"	362T125-97-50
0.0	362T125-33-50	12'-1"	12'-8"	13'-3"	13'-10"	14'-4"	14'-11"	15'-5"	362T125-33-50
	362T125-43-50	15'-5"	16'-3"	16'-11"	17'-8"	18'-4"	19'-0"	19'-8"	362T125-43-50
	362T125-54-50	18'-10"	19'-9"	20'-8"	21'-6"	22'-4"	23'-2"	23'-11"	362T125-54-50
	362T125-68-50	22'-8"	23'-10"	24'-11"	25'-11"	26'-11"	27'-11"	28'-10"	362T125-68-50
	362T125-97-50	27'-7"	28'-11"	30'-3"	31'-6"	32'-8"	33'-10"	35'-0"	362T125-97-50

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TABLE 4.7.4.173: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.40 Weight 4400 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-2"	8'-5"	8'-9"	362T125-33-50
	362T125-43-50	8'-9"	9'-2"	9'-7"	10'-0"	10'-5"	10'-10"	11'-2"	362T125-43-50
	362T125-54-50	10'-8"	11'-3"	11'-9"	12'-3"	12'-9"	13'-2"	13'-8"	362T125-54-50
	362T125-68-50	12'-11"	13'-7"	14'-2"	14'-9"	15'-4"	15'-11"	16'-5"	362T125-68-50
	362T125-97-50	15'-9"	16'-6"	17'-3"	18'-0"	18'-8"	19'-4"	20'-0"	362T125-97-50
0.9	362T125-33-50	7'-1"	7'-5"	7'-9"	8'-1"	8'-5"	8'-9"	9'-0"	362T125-33-50
	362T125-43-50	9'-1"	9'-6"	10'-0"	10'-5"	10'-10"	11'-2"	11'-7"	362T125-43-50
	362T125-54-50	11'-1"	11'-8"	12'-2"	12'-8"	13'-2"	13'-8"	14'-2"	362T125-54-50
	362T125-68-50	13'-5"	14'-1"	14'-8"	15'-4"	15'-11"	16'-6"	17'-1"	362T125-68-50
	362T125-97-50	16'-3"	17'-1"	17'-11"	18'-7"	19'-4"	20'-0"	20'-9"	362T125-97-50
0.8	362T125-33-50	7'-4"	7'-9"	8'-1"	8'-5"	8'-9"	9'-1"	9'-5"	362T125-33-50
	362T125-43-50	9'-5"	9'-11"	10'-4"	10'-10"	11'-3"	11'-8"	12'-0"	362T125-43-50
	362T125-54-50	11'-6"	12'-1"	12'-8"	13'-2"	13'-9"	14'-3"	14'-8"	362T125-54-50
	362T125-68-50	13'-11"	14'-7"	15'-3"	15'-11"	16'-6"	17'-2"	17'-9"	362T125-68-50
	362T125-97-50	16'-11"	17'-9"	18'-7"	19'-4"	20'-1"	20'-10"	21'-6"	362T125-97-50
0.7	362T125-33-50	7'-8"	8'-1"	8'-5"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-33-50
	362T125-43-50	9'-10"	10'-4"	10'-10"	11'-3"	11'-8"	12'-2"	12'-6"	362T125-43-50
	362T125-54-50	12'-0"	12'-7"	13'-2"	13'-9"	14'-4"	14'-10"	15'-4"	362T125-54-50
	362T125-68-50	14'-6"	15'-3"	15'-11"	16'-7"	17'-3"	17'-10"	18'-5"	362T125-68-50
	362T125-97-50	17'-7"	18'-6"	19'-4"	20'-2"	20'-11"	21'-8"	22'-5"	362T125-97-50
0.6	362T125-33-50	8'-0"	8'-5"	8'-10"	9'-2"	9'-7"	9'-11"	10'-3"	362T125-33-50
	362T125-43-50	10'-4"	10'-10"	11'-4"	11'-9"	12'-3"	12'-8"	13'-1"	362T125-43-50
	362T125-54-50	12'-7"	13'-2"	13'-10"	14'-5"	14'-11"	15'-6"	16'-0"	362T125-54-50
	362T125-68-50	15'-2"	15'-11"	16'-8"	17'-4"	18'-0"	18'-8"	19'-4"	362T125-68-50
	362T125-97-50	18'-5"	19'-4"	20'-3"	21'-1"	21'-11"	22'-8"	23'-5"	362T125-97-50
0.5	362T125-33-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-1"	10'-5"	10'-9"	362T125-33-50
	362T125-43-50	10'-10"	11'-4"	11'-11"	12'-5"	12'-10"	13'-4"	13'-9"	362T125-43-50
	362T125-54-50	13'-2"	13'-10"	14'-6"	15'-1"	15'-8"	16'-3"	16'-10"	362T125-54-50
	362T125-68-50	15'-11"	16'-9"	17'-6"	18'-3"	18'-11"	19'-7"	20'-3"	362T125-68-50
	362T125-97-50	19'-4"	20'-4"	21'-3"	22'-2"	23'-0"	23'-10"	24'-7"	362T125-97-50
0.4	362T125-33-50	8'-11"	9'-5"	9'-10"	10'-3"	10'-7"	11'-0"	11'-5"	362T125-33-50
	362T125-43-50	11'-5"	12'-0"	12'-7"	13'-1"	13'-7"	14'-1"	14'-7"	362T125-43-50
	362T125-54-50	13'-11"	14'-8"	15'-4"	15'-11"	16'-7"	17'-2"	17'-9"	362T125-54-50
	362T125-68-50	16'-10"	17'-8"	18'-6"	19'-3"	20'-0"	20'-8"	21'-5"	362T125-68-50
	362T125-97-50	20'-5"	21'-5"	22'-5"	23'-4"	24'-3"	25'-1"	26'-0"	362T125-97-50
0.3	362T125-33-50	9'-6"	10'-0"	10'-5"	10'-10"	11'-3"	11'-8"	12'-1"	362T125-33-50
	362T125-43-50	12'-2"	12'-9"	13'-4"	13'-11"	14'-5"	14'-11"	15'-5"	362T125-43-50
	362T125-54-50	14'-10"	15'-7"	16'-3"	16'-11"	17'-7"	18'-3"	18'-10"	362T125-54-50
	362T125-68-50	17'-10"	18'-9"	19'-7"	20'-5"	21'-3"	22'-0"	22'-8"	362T125-68-50
	362T125-97-50	21'-8"	22'-9"	23'-10"	24'-10"	25'-9"	26'-8"	27'-7"	362T125-97-50
0.2	362T125-33-50	10'-2"	10'-8"	11'-2"	11'-8"	12'-1"	12'-6"	12'-11"	362T125-33-50
	362T125-43-50	13'-0"	13'-8"	14'-3"	14'-11"	15'-5"	16'-0"	16'-7"	362T125-43-50
	362T125-54-50	15'-10"	16'-8"	17'-5"	18'-2"	18'-10"	19'-6"	20'-2"	362T125-54-50
	362T125-68-50	19'-2"	20'-1"	21'-0"	21'-10"	22'-8"	23'-6"	24'-4"	362T125-68-50
	362T125-97-50	23'-3"	24'-5"	25'-6"	26'-7"	27'-7"	28'-7"	29'-6"	362T125-97-50
0.1	362T125-33-50	11'-0"	11'-7"	12'-1"	12'-7"	13'-1"	13'-7"	14'-0"	362T125-33-50
	362T125-43-50	14'-1"	14'-9"	15'-6"	16'-1"	16'-9"	17'-4"	17'-11"	362T125-43-50
	362T125-54-50	17'-2"	18'-0"	18'-10"	19'-8"	20'-5"	21'-1"	21'-10"	362T125-54-50
	362T125-68-50	20'-8"	21'-9"	22'-9"	23'-8"	24'-7"	25'-5"	26'-4"	362T125-68-50
	362T125-97-50	25'-2"	26'-5"	27'-7"	28'-9"	29'-10"	30'-11"	31'-11"	362T125-97-50
0.0	362T125-33-50	11'-10"	12'-5"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"	362T125-33-50
	362T125-43-50	15'-1"	15'-10"	16'-7"	17'-3"	17'-11"	18'-7"	19'-2"	362T125-43-50
	362T125-54-50	18'-5"	19'-4"	20'-2"	21'-0"	21'-10"	22'-7"	23'-4"	362T125-54-50
	362T125-68-50	22'-2"	23'-3"	24'-4"	25'-4"	26'-4"	27'-3"	28'-2"	362T125-68-50
	362T125-97-50	26'-11"	28'-3"	29'-6"	30'-9"	31'-11"	33'-1"	34'-2"	362T125-97-50

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TABLE 4.7.4.174: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.40 Weight 4600 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	6'-8"	7'-0"	7'-4"	7'-8"	7'-11"	8'-3"	8'-6"	362T125-33-50
	362T125-43-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-2"	10'-7"	10'-11"	362T125-43-50
	362T125-54-50	10'-5"	11'-0"	11'-6"	12'-0"	12'-5"	12'-11"	13'-4"	362T125-54-50
	362T125-68-50	12'-7"	13'-3"	13'-10"	14'-5"	15'-0"	15'-7"	16'-1"	362T125-68-50
	362T125-97-50	15'-4"	16'-1"	16'-10"	17'-7"	18'-3"	18'-11"	19'-6"	362T125-97-50
0.9	362T125-33-50	6'-11"	7'-3"	7'-7"	7'-11"	8'-3"	8'-6"	8'-10"	362T125-33-50
	362T125-43-50	8'-10"	9'-4"	9'-9"	10'-2"	10'-7"	10'-11"	11'-4"	362T125-43-50
	362T125-54-50	10'-10"	11'-5"	11'-11"	12'-5"	12'-11"	13'-4"	13'-10"	362T125-54-50
	362T125-68-50	13'-1"	13'-9"	14'-4"	15'-0"	15'-7"	16'-1"	16'-8"	362T125-68-50
	362T125-97-50	15'-11"	16'-9"	17'-6"	18'-2"	18'-11"	19'-7"	20'-3"	362T125-97-50
0.8	362T125-33-50	7'-2"	7'-7"	7'-11"	8'-3"	8'-7"	8'-10"	9'-2"	362T125-33-50
	362T125-43-50	9'-3"	9'-8"	10'-2"	10'-7"	11'-0"	11'-4"	11'-9"	362T125-43-50
	362T125-54-50	11'-3"	11'-10"	12'-5"	12'-11"	13'-5"	13'-11"	14'-4"	362T125-54-50
	362T125-68-50	13'-7"	14'-3"	14'-11"	15'-7"	16'-2"	16'-9"	17'-4"	362T125-68-50
	362T125-97-50	16'-6"	17'-4"	18'-2"	18'-11"	19'-8"	20'-4"	21'-0"	362T125-97-50
0.7	362T125-33-50	7'-6"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	9'-7"	362T125-33-50
	362T125-43-50	9'-7"	10'-1"	10'-7"	11'-0"	11'-5"	11'-10"	12'-3"	362T125-43-50
	362T125-54-50	11'-9"	12'-4"	12'-11"	13'-5"	14'-0"	14'-6"	14'-11"	362T125-54-50
	362T125-68-50	14'-2"	14'-11"	15'-7"	16'-3"	16'-10"	17'-5"	18'-0"	362T125-68-50
	362T125-97-50	17'-3"	18'-1"	18'-11"	19'-8"	20'-6"	21'-2"	21'-11"	362T125-97-50
0.6	362T125-33-50	7'-10"	8'-3"	8'-8"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-33-50
	362T125-43-50	10'-1"	10'-7"	11'-1"	11'-6"	12'-0"	12'-5"	12'-10"	362T125-43-50
	362T125-54-50	12'-3"	12'-11"	13'-6"	14'-1"	14'-7"	15'-2"	15'-8"	362T125-54-50
	362T125-68-50	14'-10"	15'-7"	16'-3"	17'-0"	17'-7"	18'-3"	18'-10"	362T125-68-50
	362T125-97-50	18'-0"	18'-11"	19'-9"	20'-7"	21'-5"	22'-2"	22'-11"	362T125-97-50
0.5	362T125-33-50	8'-3"	8'-8"	9'-1"	9'-5"	9'-10"	10'-2"	10'-6"	362T125-33-50
	362T125-43-50	10'-7"	11'-1"	11'-7"	12'-1"	12'-7"	13'-0"	13'-6"	362T125-43-50
	362T125-54-50	12'-11"	13'-7"	14'-2"	14'-9"	15'-4"	15'-11"	16'-5"	362T125-54-50
	362T125-68-50	15'-7"	16'-4"	17'-1"	17'-10"	18'-6"	19'-2"	19'-10"	362T125-68-50
	362T125-97-50	18'-11"	19'-10"	20'-9"	21'-8"	22'-6"	23'-3"	24'-1"	362T125-97-50
0.4	362T125-33-50	8'-9"	9'-2"	9'-7"	10'-0"	10'-5"	10'-9"	11'-1"	362T125-33-50
	362T125-43-50	11'-2"	11'-9"	12'-3"	12'-9"	13'-3"	13'-9"	14'-3"	362T125-43-50
	362T125-54-50	13'-8"	14'-4"	15'-0"	15'-7"	16'-2"	16'-9"	17'-4"	362T125-54-50
	362T125-68-50	16'-5"	17'-3"	18'-1"	18'-10"	19'-6"	20'-3"	20'-11"	362T125-68-50
	362T125-97-50	20'-0"	21'-0"	21'-11"	22'-10"	23'-9"	24'-7"	25'-5"	362T125-97-50
0.3	362T125-33-50	9'-3"	9'-9"	10'-2"	10'-7"	11'-0"	11'-5"	11'-10"	362T125-33-50
	362T125-43-50	11'-10"	12'-6"	13'-0"	13'-7"	14'-1"	14'-7"	15'-1"	362T125-43-50
	362T125-54-50	14'-6"	15'-2"	15'-11"	16'-7"	17'-2"	17'-10"	18'-5"	362T125-54-50
	362T125-68-50	17'-6"	18'-4"	19'-2"	20'-0"	20'-9"	21'-6"	22'-2"	362T125-68-50
	362T125-97-50	21'-3"	22'-3"	23'-3"	24'-3"	25'-2"	26'-1"	26'-11"	362T125-97-50
0.2	362T125-33-50	9'-11"	10'-5"	10'-11"	11'-5"	11'-10"	12'-3"	12'-8"	362T125-33-50
	362T125-43-50	12'-9"	13'-4"	14'-0"	14'-7"	15'-1"	15'-8"	16'-2"	362T125-43-50
	362T125-54-50	15'-6"	16'-3"	17'-0"	17'-9"	18'-5"	19'-1"	19'-9"	362T125-54-50
	362T125-68-50	18'-8"	19'-8"	20'-6"	21'-5"	22'-2"	23'-0"	23'-9"	362T125-68-50
	362T125-97-50	22'-8"	23'-10"	24'-11"	25'-11"	26'-11"	27'-11"	28'-10"	362T125-97-50
0.1	362T125-33-50	10'-9"	11'-4"	11'-10"	12'-4"	12'-10"	13'-3"	13'-9"	362T125-33-50
	362T125-43-50	13'-9"	14'-5"	15'-1"	15'-9"	16'-4"	16'-11"	17'-6"	362T125-43-50
	362T125-54-50	16'-9"	17'-7"	18'-5"	19'-2"	19'-11"	20'-8"	21'-4"	362T125-54-50
	362T125-68-50	20'-3"	21'-3"	22'-3"	23'-2"	24'-0"	24'-11"	25'-9"	362T125-68-50
	362T125-97-50	24'-7"	25'-9"	27'-0"	28'-1"	29'-2"	30'-2"	31'-2"	362T125-97-50
0.0	362T125-33-50	11'-6"	12'-1"	12'-8"	13'-2"	13'-9"	14'-3"	14'-8"	362T125-33-50
	362T125-43-50	14'-9"	15'-6"	16'-2"	16'-10"	17'-6"	18'-2"	18'-9"	362T125-43-50
	362T125-54-50	18'-0"	18'-10"	19'-9"	20'-7"	21'-4"	22'-1"	22'-10"	362T125-54-50
	362T125-68-50	21'-8"	22'-9"	23'-9"	24'-9"	25'-9"	26'-8"	27'-6"	362T125-68-50
	362T125-97-50	26'-4"	27'-7"	28'-10"	30'-1"	31'-2"	32'-4"	33'-5"	362T125-97-50

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TABLE 4.7.4.175: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.40 Weight 4800 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-9"	8'-1"	8'-4"	362T125-33-50
	362T125-43-50	8'-4"	8'-9"	9'-2"	9'-7"	10'-0"	10'-4"	10'-8"	362T125-43-50
	362T125-54-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-2"	12'-7"	13'-0"	362T125-54-50
	362T125-68-50	12'-4"	13'-0"	13'-7"	14'-2"	14'-8"	15'-3"	15'-9"	362T125-68-50
	362T125-97-50	15'-0"	15'-9"	16'-6"	17'-2"	17'-10"	18'-6"	19'-1"	362T125-97-50
0.9	362T125-33-50	6'-9"	7'-1"	7'-5"	7'-9"	8'-1"	8'-4"	8'-8"	362T125-33-50
	362T125-43-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-8"	11'-1"	362T125-43-50
	362T125-54-50	10'-7"	11'-2"	11'-8"	12'-2"	12'-7"	13'-1"	13'-6"	362T125-54-50
	362T125-68-50	12'-10"	13'-5"	14'-1"	14'-8"	15'-3"	15'-9"	16'-4"	362T125-68-50
	362T125-97-50	15'-7"	16'-4"	17'-1"	17'-10"	18'-6"	19'-2"	19'-10"	362T125-97-50
0.8	362T125-33-50	7'-0"	7'-5"	7'-9"	8'-1"	8'-4"	8'-8"	9'-0"	362T125-33-50
	362T125-43-50	9'-0"	9'-6"	9'-11"	10'-4"	10'-9"	11'-1"	11'-6"	362T125-43-50
	362T125-54-50	11'-0"	11'-7"	12'-1"	12'-7"	13'-1"	13'-7"	14'-0"	362T125-54-50
	362T125-68-50	13'-4"	14'-0"	14'-7"	15'-3"	15'-10"	16'-5"	16'-11"	362T125-68-50
	362T125-97-50	16'-2"	17'-0"	17'-9"	18'-6"	19'-3"	19'-11"	20'-7"	362T125-97-50
0.7	362T125-33-50	7'-4"	7'-8"	8'-1"	8'-5"	8'-9"	9'-1"	9'-4"	362T125-33-50
	362T125-43-50	9'-5"	9'-11"	10'-4"	10'-9"	11'-2"	11'-7"	12'-0"	362T125-43-50
	362T125-54-50	11'-6"	12'-1"	12'-7"	13'-2"	13'-8"	14'-2"	14'-8"	362T125-54-50
	362T125-68-50	13'-10"	14'-7"	15'-3"	15'-10"	16'-6"	17'-1"	17'-8"	362T125-68-50
	362T125-97-50	16'-10"	17'-8"	18'-6"	19'-3"	20'-0"	20'-9"	21'-5"	362T125-97-50
0.6	362T125-33-50	7'-8"	8'-1"	8'-5"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-33-50
	362T125-43-50	9'-10"	10'-4"	10'-10"	11'-3"	11'-8"	12'-2"	12'-6"	362T125-43-50
	362T125-54-50	12'-0"	12'-7"	13'-2"	13'-9"	14'-4"	14'-10"	15'-4"	362T125-54-50
	362T125-68-50	14'-6"	15'-3"	15'-11"	16'-7"	17'-3"	17'-10"	18'-5"	362T125-68-50
	362T125-97-50	17'-7"	18'-6"	19'-4"	20'-2"	20'-11"	21'-8"	22'-5"	362T125-97-50
0.5	362T125-33-50	8'-1"	8'-6"	8'-10"	9'-3"	9'-7"	9'-11"	10'-4"	362T125-33-50
	362T125-43-50	10'-4"	10'-10"	11'-4"	11'-10"	12'-4"	12'-9"	13'-2"	362T125-43-50
	362T125-54-50	12'-8"	13'-3"	13'-10"	14'-5"	15'-0"	15'-6"	16'-1"	362T125-54-50
	362T125-68-50	15'-3"	16'-0"	16'-9"	17'-5"	18'-1"	18'-9"	19'-5"	362T125-68-50
	362T125-97-50	18'-6"	19'-5"	20'-4"	21'-2"	22'-0"	22'-9"	23'-6"	362T125-97-50
0.4	362T125-33-50	8'-6"	9'-0"	9'-4"	9'-9"	10'-2"	10'-6"	10'-10"	362T125-33-50
	362T125-43-50	10'-11"	11'-6"	12'-0"	12'-6"	13'-0"	13'-5"	13'-11"	362T125-43-50
	362T125-54-50	13'-4"	14'-0"	14'-8"	15'-3"	15'-10"	16'-5"	17'-0"	362T125-54-50
	362T125-68-50	16'-1"	16'-11"	17'-8"	18'-5"	19'-1"	19'-10"	20'-5"	362T125-68-50
	362T125-97-50	19'-6"	20'-6"	21'-5"	22'-4"	23'-2"	24'-0"	24'-10"	362T125-97-50
0.3	362T125-33-50	9'-1"	9'-6"	10'-0"	10'-5"	10'-9"	11'-2"	11'-7"	362T125-33-50
	362T125-43-50	11'-7"	12'-2"	12'-9"	13'-3"	13'-10"	14'-4"	14'-9"	362T125-43-50
	362T125-54-50	14'-2"	14'-10"	15'-7"	16'-2"	16'-10"	17'-5"	18'-0"	362T125-54-50
	362T125-68-50	17'-1"	17'-11"	18'-9"	19'-6"	20'-4"	21'-0"	21'-9"	362T125-68-50
	362T125-97-50	20'-9"	21'-9"	22'-9"	23'-9"	24'-8"	25'-6"	26'-4"	362T125-97-50
0.2	362T125-33-50	9'-9"	10'-3"	10'-8"	11'-2"	11'-7"	12'-0"	12'-5"	362T125-33-50
	362T125-43-50	12'-5"	13'-1"	13'-8"	14'-3"	14'-9"	15'-4"	15'-10"	362T125-43-50
	362T125-54-50	15'-2"	15'-11"	16'-8"	17'-4"	18'-0"	18'-8"	19'-4"	362T125-54-50
	362T125-68-50	18'-4"	19'-3"	20'-1"	20'-11"	21'-9"	22'-6"	23'-3"	362T125-68-50
	362T125-97-50	22'-3"	23'-4"	24'-5"	25'-5"	26'-4"	27'-4"	28'-3"	362T125-97-50
0.1	362T125-33-50	10'-6"	11'-1"	11'-7"	12'-1"	12'-6"	13'-0"	13'-5"	362T125-33-50
	362T125-43-50	13'-6"	14'-2"	14'-9"	15'-5"	16'-0"	16'-7"	17'-2"	362T125-43-50
	362T125-54-50	16'-5"	17'-3"	18'-0"	18'-9"	19'-6"	20'-2"	20'-10"	362T125-54-50
	362T125-68-50	19'-10"	20'-10"	21'-9"	22'-8"	23'-6"	24'-4"	25'-2"	362T125-68-50
	362T125-97-50	24'-0"	25'-3"	26'-5"	27'-6"	28'-6"	29'-6"	30'-6"	362T125-97-50
0.0	362T125-33-50	11'-3"	11'-10"	12'-5"	12'-11"	13'-5"	13'-11"	14'-4"	362T125-33-50
	362T125-43-50	14'-5"	15'-2"	15'-10"	16'-6"	17'-2"	17'-9"	18'-4"	362T125-43-50
	362T125-54-50	17'-7"	18'-6"	19'-4"	20'-1"	20'-11"	21'-7"	22'-4"	362T125-54-50
	362T125-68-50	21'-2"	22'-3"	23'-3"	24'-3"	25'-2"	26'-1"	26'-11"	362T125-68-50
	362T125-97-50	25'-9"	27'-0"	28'-3"	29'-5"	30'-6"	31'-7"	32'-8"	362T125-97-50

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TABLE 4.7.4.176: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.40 Weight 5000 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	6'-4"	6'-8"	7'-0"	7'-4"	7'-7"	7'-10"	8'-2"	362T125-33-50
	362T125-43-50	8'-2"	8'-7"	9'-0"	9'-5"	9'-9"	10'-1"	10'-5"	362T125-43-50
	362T125-54-50	10'-0"	10'-6"	11'-0"	11'-6"	11'-11"	12'-4"	12'-9"	362T125-54-50
	362T125-68-50	12'-1"	12'-8"	13'-3"	13'-10"	14'-5"	14'-11"	15'-5"	362T125-68-50
	362T125-97-50	14'-8"	15'-5"	16'-2"	16'-10"	17'-6"	18'-1"	18'-9"	362T125-97-50
0.9	362T125-33-50	6'-7"	6'-11"	7'-3"	7'-7"	7'-11"	8'-2"	8'-5"	362T125-33-50
	362T125-43-50	8'-6"	8'-11"	9'-4"	9'-9"	10'-1"	10'-6"	10'-10"	362T125-43-50
	362T125-54-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-4"	12'-10"	13'-3"	362T125-54-50
	362T125-68-50	12'-6"	13'-2"	13'-9"	14'-4"	14'-11"	15'-5"	16'-0"	362T125-68-50
	362T125-97-50	15'-3"	16'-0"	16'-9"	17'-5"	18'-1"	18'-9"	19'-5"	362T125-97-50
0.8	362T125-33-50	6'-10"	7'-3"	7'-7"	7'-11"	8'-2"	8'-6"	8'-9"	362T125-33-50
	362T125-43-50	8'-10"	9'-3"	9'-8"	10'-1"	10'-6"	10'-11"	11'-3"	362T125-43-50
	362T125-54-50	10'-9"	11'-4"	11'-10"	12'-4"	12'-10"	13'-4"	13'-9"	362T125-54-50
	362T125-68-50	13'-0"	13'-8"	14'-4"	14'-11"	15'-6"	16'-1"	16'-7"	362T125-68-50
	362T125-97-50	15'-10"	16'-8"	17'-5"	18'-1"	18'-10"	19'-6"	20'-2"	362T125-97-50
0.7	362T125-33-50	7'-2"	7'-6"	7'-11"	8'-3"	8'-7"	8'-10"	9'-2"	362T125-33-50
	362T125-43-50	9'-2"	9'-8"	10'-1"	10'-7"	10'-11"	11'-4"	11'-9"	362T125-43-50
	362T125-54-50	11'-3"	11'-10"	12'-4"	12'-11"	13'-5"	13'-10"	14'-4"	362T125-54-50
	362T125-68-50	13'-7"	14'-3"	14'-11"	15'-6"	16'-2"	16'-9"	17'-3"	362T125-68-50
	362T125-97-50	16'-6"	17'-4"	18'-1"	18'-11"	19'-7"	20'-4"	21'-0"	362T125-97-50
0.6	362T125-33-50	7'-6"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	9'-7"	362T125-33-50
	362T125-43-50	9'-8"	10'-1"	10'-7"	11'-0"	11'-5"	11'-10"	12'-3"	362T125-43-50
	362T125-54-50	11'-9"	12'-4"	12'-11"	13'-6"	14'-0"	14'-6"	15'-0"	362T125-54-50
	362T125-68-50	14'-2"	14'-11"	15'-7"	16'-3"	16'-11"	17'-6"	18'-1"	362T125-68-50
	362T125-97-50	17'-3"	18'-1"	18'-11"	19'-9"	20'-6"	21'-3"	21'-11"	362T125-97-50
0.5	362T125-33-50	7'-11"	8'-4"	8'-8"	9'-1"	9'-5"	9'-9"	10'-1"	362T125-33-50
	362T125-43-50	10'-1"	10'-8"	11'-1"	11'-7"	12'-0"	12'-6"	12'-11"	362T125-43-50
	362T125-54-50	12'-4"	13'-0"	13'-7"	14'-2"	14'-8"	15'-3"	15'-9"	362T125-54-50
	362T125-68-50	14'-11"	15'-8"	16'-5"	17'-1"	17'-9"	18'-4"	19'-0"	362T125-68-50
	362T125-97-50	18'-1"	19'-0"	19'-11"	20'-9"	21'-6"	22'-4"	23'-1"	362T125-97-50
0.4	362T125-33-50	8'-4"	8'-9"	9'-2"	9'-7"	9'-11"	10'-4"	10'-8"	362T125-33-50
	362T125-43-50	10'-8"	11'-3"	11'-9"	12'-3"	12'-9"	13'-2"	13'-7"	362T125-43-50
	362T125-54-50	13'-1"	13'-9"	14'-4"	14'-11"	15'-6"	16'-1"	16'-7"	362T125-54-50
	362T125-68-50	15'-9"	16'-6"	17'-3"	18'-0"	18'-9"	19'-5"	20'-0"	362T125-68-50
	362T125-97-50	19'-2"	20'-1"	21'-0"	21'-11"	22'-9"	23'-6"	24'-4"	362T125-97-50
0.3	362T125-33-50	8'-11"	9'-4"	9'-9"	10'-2"	10'-7"	10'-11"	11'-4"	362T125-33-50
	362T125-43-50	11'-4"	11'-11"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	362T125-43-50
	362T125-54-50	13'-11"	14'-7"	15'-3"	15'-10"	16'-6"	17'-1"	17'-8"	362T125-54-50
	362T125-68-50	16'-9"	17'-7"	18'-4"	19'-2"	19'-11"	20'-7"	21'-3"	362T125-68-50
	362T125-97-50	20'-4"	21'-4"	22'-4"	23'-3"	24'-2"	25'-0"	25'-10"	362T125-97-50
0.2	362T125-33-50	9'-6"	10'-0"	10'-6"	10'-11"	11'-4"	11'-9"	12'-2"	362T125-33-50
	362T125-43-50	12'-2"	12'-9"	13'-4"	13'-11"	14'-6"	15'-0"	15'-6"	362T125-43-50
	362T125-54-50	14'-10"	15'-7"	16'-4"	17'-0"	17'-8"	18'-3"	18'-11"	362T125-54-50
	362T125-68-50	17'-11"	18'-10"	19'-8"	20'-6"	21'-3"	22'-0"	22'-9"	362T125-68-50
	362T125-97-50	21'-9"	22'-10"	23'-11"	24'-10"	25'-10"	26'-9"	27'-8"	362T125-97-50
0.1	362T125-33-50	10'-4"	10'-10"	11'-4"	11'-10"	12'-3"	12'-8"	13'-2"	362T125-33-50
	362T125-43-50	13'-2"	13'-10"	14'-6"	15'-1"	15'-8"	16'-3"	16'-9"	362T125-43-50
	362T125-54-50	16'-1"	16'-11"	17'-8"	18'-5"	19'-1"	19'-9"	20'-5"	362T125-54-50
	362T125-68-50	19'-5"	20'-4"	21'-3"	22'-2"	23'-0"	23'-10"	24'-8"	362T125-68-50
	362T125-97-50	23'-7"	24'-9"	25'-10"	26'-11"	27'-11"	28'-11"	29'-11"	362T125-97-50
0.0	362T125-33-50	11'-1"	11'-7"	12'-2"	12'-8"	13'-2"	13'-7"	14'-1"	362T125-33-50
	362T125-43-50	14'-1"	14'-10"	15'-6"	16'-2"	16'-9"	17'-5"	18'-0"	362T125-43-50
	362T125-54-50	17'-3"	18'-1"	18'-11"	19'-8"	20'-5"	21'-2"	21'-11"	362T125-54-50
	362T125-68-50	20'-9"	21'-10"	22'-9"	23'-9"	24'-8"	25'-6"	26'-5"	362T125-68-50
	362T125-97-50	25'-2"	26'-5"	27'-8"	28'-10"	29'-11"	31'-0"	32'-0"	362T125-97-50

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TABLE 4.7.4.177: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.70 Weight 2000 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	7'-8"	8'-1"	8'-6"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-33-50
	362T125-43-50	9'-10"	10'-4"	10'-10"	11'-4"	11'-9"	12'-2"	12'-7"	362T125-43-50
	362T125-54-50	12'-1"	12'-8"	13'-3"	13'-10"	14'-4"	14'-10"	15'-4"	362T125-54-50
	362T125-68-50	14'-7"	15'-3"	16'-0"	16'-8"	17'-3"	17'-11"	18'-6"	362T125-68-50
	362T125-97-50	17'-8"	18'-7"	19'-5"	20'-3"	21'-0"	21'-9"	22'-6"	362T125-97-50
0.9	362T125-33-50	8'-0"	8'-5"	8'-9"	9'-2"	9'-6"	9'-10"	10'-2"	362T125-33-50
	362T125-43-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-2"	12'-7"	13'-0"	362T125-43-50
	362T125-54-50	12'-6"	13'-1"	13'-9"	14'-4"	14'-10"	15'-5"	15'-11"	362T125-54-50
	362T125-68-50	15'-1"	15'-10"	16'-7"	17'-3"	17'-11"	18'-7"	19'-2"	362T125-68-50
	362T125-97-50	18'-4"	19'-3"	20'-1"	20'-11"	21'-9"	22'-6"	23'-3"	362T125-97-50
0.8	362T125-33-50	8'-4"	8'-9"	9'-1"	9'-6"	9'-11"	10'-3"	10'-7"	362T125-33-50
	362T125-43-50	10'-8"	11'-2"	11'-8"	12'-2"	12'-8"	13'-1"	13'-6"	362T125-43-50
	362T125-54-50	13'-0"	13'-8"	14'-3"	14'-10"	15'-5"	16'-0"	16'-6"	362T125-54-50
	362T125-68-50	15'-8"	16'-5"	17'-2"	17'-11"	18'-7"	19'-3"	19'-11"	362T125-68-50
	362T125-97-50	19'-0"	20'-0"	20'-11"	21'-9"	22'-7"	23'-5"	24'-2"	362T125-97-50
0.7	362T125-33-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-8"	11'-0"	362T125-33-50
	362T125-43-50	11'-1"	11'-8"	12'-2"	12'-8"	13'-2"	13'-8"	14'-1"	362T125-43-50
	362T125-54-50	13'-6"	14'-3"	14'-10"	15'-6"	16'-1"	16'-8"	17'-3"	362T125-54-50
	362T125-68-50	16'-4"	17'-2"	17'-11"	18'-8"	19'-5"	20'-1"	20'-9"	362T125-68-50
	362T125-97-50	19'-10"	20'-10"	21'-9"	22'-8"	23'-6"	24'-5"	25'-2"	362T125-97-50
0.6	362T125-33-50	9'-1"	9'-6"	9'-11"	10'-4"	10'-9"	11'-2"	11'-7"	362T125-33-50
	362T125-43-50	11'-7"	12'-2"	12'-9"	13'-3"	13'-9"	14'-3"	14'-9"	362T125-43-50
	362T125-54-50	14'-2"	14'-10"	15'-6"	16'-2"	16'-10"	17'-5"	18'-0"	362T125-54-50
	362T125-68-50	17'-1"	17'-11"	18'-9"	19'-6"	20'-3"	21'-0"	21'-8"	362T125-68-50
	362T125-97-50	20'-9"	21'-9"	22'-9"	23'-8"	24'-7"	25'-6"	26'-4"	362T125-97-50
0.5	362T125-33-50	9'-6"	10'-0"	10'-6"	10'-11"	11'-4"	11'-9"	12'-2"	362T125-33-50
	362T125-43-50	12'-2"	12'-9"	13'-4"	13'-11"	14'-6"	15'-0"	15'-6"	362T125-43-50
	362T125-54-50	14'-10"	15'-7"	16'-4"	17'-0"	17'-8"	18'-3"	18'-11"	362T125-54-50
	362T125-68-50	17'-11"	18'-10"	19'-8"	20'-6"	21'-3"	22'-0"	22'-9"	362T125-68-50
	362T125-97-50	21'-9"	22'-10"	23'-11"	24'-10"	25'-10"	26'-9"	27'-8"	362T125-97-50
0.4	362T125-33-50	10'-1"	10'-7"	11'-1"	11'-6"	12'-0"	12'-5"	12'-10"	362T125-33-50
	362T125-43-50	12'-10"	13'-6"	14'-1"	14'-9"	15'-3"	15'-10"	16'-4"	362T125-43-50
	362T125-54-50	15'-8"	16'-6"	17'-3"	17'-11"	18'-8"	19'-4"	19'-11"	362T125-54-50
	362T125-68-50	18'-11"	19'-10"	20'-9"	21'-7"	22'-5"	23'-3"	24'-0"	362T125-68-50
	362T125-97-50	23'-0"	24'-1"	25'-2"	26'-3"	27'-3"	28'-3"	29'-2"	362T125-97-50
0.3	362T125-33-50	10'-8"	11'-3"	11'-9"	12'-3"	12'-9"	13'-2"	13'-7"	362T125-33-50
	362T125-43-50	13'-8"	14'-4"	15'-0"	15'-8"	16'-3"	16'-10"	17'-4"	362T125-43-50
	362T125-54-50	16'-8"	17'-6"	18'-3"	19'-1"	19'-9"	20'-6"	21'-2"	362T125-54-50
	362T125-68-50	20'-1"	21'-1"	22'-1"	23'-0"	23'-10"	24'-8"	25'-6"	362T125-68-50
	362T125-97-50	24'-5"	25'-7"	26'-9"	27'-10"	28'-11"	30'-0"	31'-0"	362T125-97-50
0.2	362T125-33-50	11'-5"	12'-0"	12'-7"	13'-1"	13'-7"	14'-1"	14'-7"	362T125-33-50
	362T125-43-50	14'-8"	15'-4"	16'-1"	16'-9"	17'-5"	18'-0"	18'-7"	362T125-43-50
	362T125-54-50	17'-10"	18'-9"	19'-7"	20'-5"	21'-2"	21'-11"	22'-8"	362T125-54-50
	362T125-68-50	21'-6"	22'-7"	23'-7"	24'-7"	25'-6"	26'-5"	27'-4"	362T125-68-50
	362T125-97-50	26'-1"	27'-5"	28'-8"	29'-10"	31'-0"	32'-1"	33'-2"	362T125-97-50
0.1	362T125-33-50	12'-5"	13'-0"	13'-7"	14'-2"	14'-9"	15'-3"	15'-9"	362T125-33-50
	362T125-43-50	15'-10"	16'-8"	17'-5"	18'-1"	18'-10"	19'-6"	20'-2"	362T125-43-50
	362T125-54-50	19'-4"	20'-3"	21'-2"	22'-1"	22'-11"	23'-9"	24'-6"	362T125-54-50
	362T125-68-50	23'-3"	24'-5"	25'-6"	26'-7"	27'-7"	28'-7"	29'-7"	362T125-68-50
	362T125-97-50	28'-3"	29'-7"	31'-0"	32'-3"	33'-6"	34'-8"	35'-10"	362T125-97-50
0.0	362T125-33-50	13'-3"	13'-11"	14'-7"	15'-2"	15'-9"	16'-4"	16'-11"	362T125-33-50
	362T125-43-50	17'-0"	17'-10"	18'-7"	19'-5"	20'-2"	20'-10"	21'-7"	362T125-43-50
	362T125-54-50	20'-8"	21'-8"	22'-8"	23'-7"	24'-6"	25'-5"	26'-3"	362T125-54-50
	362T125-68-50	24'-11"	26'-2"	27'-4"	28'-6"	29'-7"	30'-7"	31'-7"	362T125-68-50
	362T125-97-50	30'-2"	31'-9"	33'-2"	34'-6"	35'-10"	37'-1"	38'-4"	362T125-97-50

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TABLE 4.7.4.178: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.70 Weight 2200 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	7'-4"	7'-8"	8'-1"	8'-5"	8'-9"	9'-0"	9'-4"	362T125-33-50
	362T125-43-50	9'-5"	9'-10"	10'-4"	10'-9"	11'-2"	11'-7"	12'-0"	362T125-43-50
	362T125-54-50	11'-6"	12'-1"	12'-7"	13'-2"	13'-8"	14'-2"	14'-7"	362T125-54-50
	362T125-68-50	13'-10"	14'-6"	15'-2"	15'-10"	16'-5"	17'-1"	17'-7"	362T125-68-50
	362T125-97-50	16'-10"	17'-8"	18'-6"	19'-3"	20'-0"	20'-9"	21'-5"	362T125-97-50
0.9	362T125-33-50	7'-7"	8'-0"	8'-4"	8'-8"	9'-0"	9'-4"	9'-8"	362T125-33-50
	362T125-43-50	9'-9"	10'-3"	10'-8"	11'-2"	11'-7"	12'-0"	12'-5"	362T125-43-50
	362T125-54-50	11'-11"	12'-6"	13'-1"	13'-7"	14'-2"	14'-8"	15'-2"	362T125-54-50
	362T125-68-50	14'-4"	15'-1"	15'-9"	16'-5"	17'-1"	17'-8"	18'-3"	362T125-68-50
	362T125-97-50	17'-5"	18'-4"	19'-2"	19'-11"	20'-9"	21'-5"	22'-2"	362T125-97-50
0.8	362T125-33-50	7'-11"	8'-3"	8'-8"	9'-1"	9'-5"	9'-9"	10'-1"	362T125-33-50
	362T125-43-50	10'-1"	10'-8"	11'-1"	11'-7"	12'-0"	12'-6"	12'-11"	362T125-43-50
	362T125-54-50	12'-4"	13'-0"	13'-7"	14'-2"	14'-8"	15'-3"	15'-9"	362T125-54-50
	362T125-68-50	14'-11"	15'-8"	16'-4"	17'-1"	17'-9"	18'-4"	19'-0"	362T125-68-50
	362T125-97-50	18'-1"	19'-0"	19'-11"	20'-9"	21'-6"	22'-3"	23'-0"	362T125-97-50
0.7	362T125-33-50	8'-3"	8'-8"	9'-1"	9'-5"	9'-10"	10'-2"	10'-6"	362T125-33-50
	362T125-43-50	10'-7"	11'-1"	11'-7"	12'-1"	12'-7"	13'-0"	13'-5"	362T125-43-50
	362T125-54-50	12'-11"	13'-6"	14'-2"	14'-9"	15'-4"	15'-10"	16'-5"	362T125-54-50
	362T125-68-50	15'-6"	16'-4"	17'-1"	17'-9"	18'-6"	19'-1"	19'-9"	362T125-68-50
	362T125-97-50	18'-11"	19'-10"	20'-9"	21'-7"	22'-5"	23'-3"	24'-0"	362T125-97-50
0.6	362T125-33-50	8'-7"	9'-1"	9'-6"	9'-10"	10'-3"	10'-8"	11'-0"	362T125-33-50
	362T125-43-50	11'-0"	11'-7"	12'-1"	12'-8"	13'-1"	13'-7"	14'-1"	362T125-43-50
	362T125-54-50	13'-6"	14'-2"	14'-9"	15'-5"	16'-0"	16'-7"	17'-2"	362T125-54-50
	362T125-68-50	16'-3"	17'-1"	17'-10"	18'-7"	19'-4"	20'-0"	20'-8"	362T125-68-50
	362T125-97-50	19'-9"	20'-9"	21'-8"	22'-7"	23'-5"	24'-3"	25'-1"	362T125-97-50
0.5	362T125-33-50	9'-1"	9'-6"	9'-11"	10'-4"	10'-9"	11'-2"	11'-7"	362T125-33-50
	362T125-43-50	11'-7"	12'-2"	12'-9"	13'-3"	13'-9"	14'-3"	14'-9"	362T125-43-50
	362T125-54-50	14'-2"	14'-10"	15'-6"	16'-2"	16'-10"	17'-5"	18'-0"	362T125-54-50
	362T125-68-50	17'-1"	17'-11"	18'-9"	19'-6"	20'-3"	21'-0"	21'-8"	362T125-68-50
	362T125-97-50	20'-9"	21'-9"	22'-9"	23'-8"	24'-7"	25'-6"	26'-4"	362T125-97-50
0.4	362T125-33-50	9'-7"	10'-1"	10'-6"	10'-11"	11'-5"	11'-10"	12'-2"	362T125-33-50
	362T125-43-50	12'-3"	12'-10"	13'-5"	14'-0"	14'-7"	15'-1"	15'-7"	362T125-43-50
	362T125-54-50	14'-11"	15'-8"	16'-5"	17'-1"	17'-9"	18'-5"	19'-0"	362T125-54-50
	362T125-68-50	18'-0"	18'-11"	19'-9"	20'-7"	21'-5"	22'-2"	22'-11"	362T125-68-50
	362T125-97-50	21'-10"	23'-0"	24'-0"	25'-0"	26'-0"	26'-11"	27'-10"	362T125-97-50
0.3	362T125-33-50	10'-2"	10'-8"	11'-2"	11'-8"	12'-1"	12'-6"	12'-11"	362T125-33-50
	362T125-43-50	13'-0"	13'-8"	14'-3"	14'-11"	15'-5"	16'-0"	16'-7"	362T125-43-50
	362T125-54-50	15'-10"	16'-8"	17'-5"	18'-2"	18'-10"	19'-6"	20'-2"	362T125-54-50
	362T125-68-50	19'-2"	20'-1"	21'-0"	21'-10"	22'-8"	23'-6"	24'-4"	362T125-68-50
	362T125-97-50	23'-3"	24'-5"	25'-6"	26'-7"	27'-7"	28'-7"	29'-6"	362T125-97-50
0.2	362T125-33-50	10'-11"	11'-5"	12'-0"	12'-6"	13'-0"	13'-5"	13'-11"	362T125-33-50
	362T125-43-50	13'-11"	14'-8"	15'-4"	15'-11"	16'-7"	17'-2"	17'-9"	362T125-43-50
	362T125-54-50	17'-0"	17'-10"	18'-8"	19'-5"	20'-2"	20'-11"	21'-7"	362T125-54-50
	362T125-68-50	20'-6"	21'-6"	22'-6"	23'-5"	24'-4"	25'-2"	26'-0"	362T125-68-50
	362T125-97-50	24'-10"	26'-1"	27'-3"	28'-5"	29'-6"	30'-7"	31'-7"	362T125-97-50
0.1	362T125-33-50	11'-10"	12'-5"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"	362T125-33-50
	362T125-43-50	15'-1"	15'-10"	16'-7"	17'-3"	17'-11"	18'-7"	19'-2"	362T125-43-50
	362T125-54-50	18'-5"	19'-4"	20'-2"	21'-0"	21'-10"	22'-7"	23'-4"	362T125-54-50
	362T125-68-50	22'-2"	23'-3"	24'-4"	25'-4"	26'-4"	27'-3"	28'-2"	362T125-68-50
	362T125-97-50	26'-11"	28'-3"	29'-6"	30'-9"	31'-11"	33'-1"	34'-2"	362T125-97-50
0.0	362T125-33-50	12'-8"	13'-3"	13'-11"	14'-6"	15'-0"	15'-7"	16'-1"	362T125-33-50
	362T125-43-50	16'-2"	16'-11"	17'-9"	18'-6"	19'-2"	19'-10"	20'-6"	362T125-43-50
	362T125-54-50	19'-8"	20'-8"	21'-7"	22'-6"	23'-4"	24'-2"	25'-0"	362T125-54-50
	362T125-68-50	23'-9"	24'-11"	26'-0"	27'-1"	28'-2"	29'-2"	30'-2"	362T125-68-50
	362T125-97-50	28'-9"	30'-3"	31'-7"	32'-11"	34'-2"	35'-4"	36'-6"	362T125-97-50

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TABLE 4.7.4.179: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.70 Weight 2400 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	8'-11"	362T125-33-50
	362T125-43-50	9'-0"	9'-5"	9'-10"	10'-3"	10'-8"	11'-1"	11'-5"	362T125-43-50
	362T125-54-50	11'-0"	11'-6"	12'-1"	12'-7"	13'-1"	13'-6"	14'-0"	362T125-54-50
	362T125-68-50	13'-3"	13'-11"	14'-6"	15'-2"	15'-9"	16'-4"	16'-10"	362T125-68-50
	362T125-97-50	16'-1"	16'-11"	17'-8"	18'-5"	19'-1"	19'-10"	20'-6"	362T125-97-50
0.9	362T125-33-50	7'-3"	7'-7"	8'-0"	8'-4"	8'-8"	8'-11"	9'-3"	362T125-33-50
	362T125-43-50	9'-4"	9'-9"	10'-3"	10'-8"	11'-1"	11'-6"	11'-10"	362T125-43-50
	362T125-54-50	11'-4"	11'-11"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	362T125-54-50
	362T125-68-50	13'-9"	14'-5"	15'-1"	15'-8"	16'-4"	16'-11"	17'-6"	362T125-68-50
	362T125-97-50	16'-8"	17'-6"	18'-4"	19'-1"	19'-10"	20'-6"	21'-3"	362T125-97-50
0.8	362T125-33-50	7'-6"	7'-11"	8'-3"	8'-8"	9'-0"	9'-4"	9'-7"	362T125-33-50
	362T125-43-50	9'-8"	10'-2"	10'-8"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-43-50
	362T125-54-50	11'-10"	12'-5"	13'-0"	13'-6"	14'-1"	14'-7"	15'-0"	362T125-54-50
	362T125-68-50	14'-3"	15'-0"	15'-8"	16'-4"	16'-11"	17'-7"	18'-2"	362T125-68-50
	362T125-97-50	17'-4"	18'-2"	19'-0"	19'-10"	20'-7"	21'-4"	22'-0"	362T125-97-50
0.7	362T125-33-50	7'-10"	8'-3"	8'-8"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-33-50
	362T125-43-50	10'-1"	10'-7"	11'-1"	11'-6"	12'-0"	12'-5"	12'-10"	362T125-43-50
	362T125-54-50	12'-4"	12'-11"	13'-6"	14'-1"	14'-8"	15'-2"	15'-8"	362T125-54-50
	362T125-68-50	14'-10"	15'-7"	16'-4"	17'-0"	17'-8"	18'-3"	18'-11"	362T125-68-50
	362T125-97-50	18'-1"	18'-11"	19'-10"	20'-8"	21'-5"	22'-3"	22'-11"	362T125-97-50
0.6	362T125-33-50	8'-3"	8'-8"	9'-1"	9'-5"	9'-10"	10'-2"	10'-6"	362T125-33-50
	362T125-43-50	10'-7"	11'-1"	11'-7"	12'-1"	12'-7"	13'-0"	13'-5"	362T125-43-50
	362T125-54-50	12'-11"	13'-6"	14'-2"	14'-9"	15'-4"	15'-10"	16'-5"	362T125-54-50
	362T125-68-50	15'-6"	16'-4"	17'-1"	17'-9"	18'-6"	19'-1"	19'-9"	362T125-68-50
	362T125-97-50	18'-11"	19'-10"	20'-9"	21'-7"	22'-5"	23'-3"	24'-0"	362T125-97-50
0.5	362T125-33-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-8"	11'-0"	362T125-33-50
	362T125-43-50	11'-1"	11'-8"	12'-2"	12'-8"	13'-2"	13'-8"	14'-1"	362T125-43-50
	362T125-54-50	13'-6"	14'-3"	14'-10"	15'-6"	16'-1"	16'-8"	17'-3"	362T125-54-50
	362T125-68-50	16'-4"	17'-2"	17'-11"	18'-8"	19'-5"	20'-1"	20'-9"	362T125-68-50
	362T125-97-50	19'-10"	20'-10"	21'-9"	22'-8"	23'-6"	24'-5"	25'-2"	362T125-97-50
0.4	362T125-33-50	9'-2"	9'-7"	10'-1"	10'-6"	10'-11"	11'-3"	11'-8"	362T125-33-50
	362T125-43-50	11'-8"	12'-3"	12'-10"	13'-5"	13'-11"	14'-5"	14'-11"	362T125-43-50
	362T125-54-50	14'-3"	15'-0"	15'-8"	16'-4"	17'-0"	17'-7"	18'-2"	362T125-54-50
	362T125-68-50	17'-3"	18'-1"	18'-11"	19'-8"	20'-6"	21'-2"	21'-11"	362T125-68-50
	362T125-97-50	20'-11"	22'-0"	23'-0"	23'-11"	24'-10"	25'-9"	26'-7"	362T125-97-50
0.3	362T125-33-50	9'-9"	10'-3"	10'-8"	11'-2"	11'-7"	12'-0"	12'-5"	362T125-33-50
	362T125-43-50	12'-5"	13'-1"	13'-8"	14'-3"	14'-9"	15'-4"	15'-10"	362T125-43-50
	362T125-54-50	15'-2"	15'-11"	16'-8"	17'-4"	18'-0"	18'-8"	19'-4"	362T125-54-50
	362T125-68-50	18'-4"	19'-3"	20'-1"	20'-11"	21'-9"	22'-6"	23'-3"	362T125-68-50
	362T125-97-50	22'-3"	23'-4"	24'-5"	25'-5"	26'-4"	27'-4"	28'-3"	362T125-97-50
0.2	362T125-33-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-5"	12'-10"	13'-3"	362T125-33-50
	362T125-43-50	13'-4"	14'-0"	14'-8"	15'-3"	15'-10"	16'-5"	16'-11"	362T125-43-50
	362T125-54-50	16'-3"	17'-1"	17'-10"	18'-7"	19'-4"	20'-0"	20'-8"	362T125-54-50
	362T125-68-50	19'-7"	20'-7"	21'-6"	22'-5"	23'-3"	24'-1"	24'-11"	362T125-68-50
	362T125-97-50	23'-9"	25'-0"	26'-1"	27'-2"	28'-3"	29'-3"	30'-3"	362T125-97-50
0.1	362T125-33-50	11'-3"	11'-10"	12'-5"	12'-11"	13'-5"	13'-11"	14'-4"	362T125-33-50
	362T125-43-50	14'-5"	15'-2"	15'-10"	16'-6"	17'-2"	17'-9"	18'-4"	362T125-43-50
	362T125-54-50	17'-7"	18'-6"	19'-4"	20'-1"	20'-11"	21'-7"	22'-4"	362T125-54-50
	362T125-68-50	21'-2"	22'-3"	23'-3"	24'-3"	25'-2"	26'-1"	26'-11"	362T125-68-50
	362T125-97-50	25'-9"	27'-0"	28'-3"	29'-5"	30'-6"	31'-7"	32'-8"	362T125-97-50
0.0	362T125-33-50	12'-1"	12'-8"	13'-3"	13'-10"	14'-4"	14'-11"	15'-5"	362T125-33-50
	362T125-43-50	15'-5"	16'-3"	16'-11"	17'-8"	18'-4"	19'-0"	19'-8"	362T125-43-50
	362T125-54-50	18'-10"	19'-9"	20'-8"	21'-6"	22'-4"	23'-2"	23'-11"	362T125-54-50
	362T125-68-50	22'-8"	23'-10"	24'-11"	25'-11"	26'-11"	27'-11"	28'-10"	362T125-68-50
	362T125-97-50	27'-7"	28'-11"	30'-3"	31'-6"	32'-8"	33'-10"	35'-0"	362T125-97-50

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TABLE 4.7.4.180: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.70 Weight 2600 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	6'-8"	7'-0"	7'-4"	7'-8"	8'-0"	8'-3"	8'-7"	362T125-33-50
	362T125-43-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-3"	10'-7"	11'-0"	362T125-43-50
	362T125-54-50	10'-6"	11'-1"	11'-7"	12'-1"	12'-6"	13'-0"	13'-5"	362T125-54-50
	362T125-68-50	12'-8"	13'-4"	13'-11"	14'-6"	15'-1"	15'-8"	16'-2"	362T125-68-50
	362T125-97-50	15'-5"	16'-3"	16'-11"	17'-8"	18'-4"	19'-0"	19'-8"	362T125-97-50
0.9	362T125-33-50	6'-11"	7'-4"	7'-8"	8'-0"	8'-3"	8'-7"	8'-10"	362T125-33-50
	362T125-43-50	8'-11"	9'-4"	9'-10"	10'-3"	10'-7"	11'-0"	11'-4"	362T125-43-50
	362T125-54-50	10'-11"	11'-5"	12'-0"	12'-6"	13'-0"	13'-5"	13'-11"	362T125-54-50
	362T125-68-50	13'-2"	13'-10"	14'-5"	15'-1"	15'-8"	16'-3"	16'-9"	362T125-68-50
	362T125-97-50	16'-0"	16'-10"	17'-7"	18'-4"	19'-0"	19'-8"	20'-4"	362T125-97-50
0.8	362T125-33-50	7'-3"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	362T125-33-50
	362T125-43-50	9'-3"	9'-9"	10'-2"	10'-7"	11'-0"	11'-5"	11'-10"	362T125-43-50
	362T125-54-50	11'-4"	11'-11"	12'-5"	13'-0"	13'-6"	14'-0"	14'-5"	362T125-54-50
	362T125-68-50	13'-8"	14'-4"	15'-0"	15'-8"	16'-3"	16'-10"	17'-5"	362T125-68-50
	362T125-97-50	16'-7"	17'-5"	18'-3"	19'-0"	19'-9"	20'-6"	21'-2"	362T125-97-50
0.7	362T125-33-50	7'-6"	7'-11"	8'-3"	8'-8"	9'-0"	9'-4"	9'-7"	362T125-33-50
	362T125-43-50	9'-8"	10'-2"	10'-8"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-43-50
	362T125-54-50	11'-10"	12'-5"	13'-0"	13'-6"	14'-1"	14'-7"	15'-0"	362T125-54-50
	362T125-68-50	14'-3"	15'-0"	15'-8"	16'-4"	16'-11"	17'-7"	18'-2"	362T125-68-50
	362T125-97-50	17'-4"	18'-2"	19'-0"	19'-10"	20'-7"	21'-4"	22'-0"	362T125-97-50
0.6	362T125-33-50	7'-11"	8'-3"	8'-8"	9'-1"	9'-5"	9'-9"	10'-1"	362T125-33-50
	362T125-43-50	10'-1"	10'-8"	11'-1"	11'-7"	12'-0"	12'-6"	12'-11"	362T125-43-50
	362T125-54-50	12'-4"	13'-0"	13'-7"	14'-2"	14'-8"	15'-3"	15'-9"	362T125-54-50
	362T125-68-50	14'-11"	15'-8"	16'-4"	17'-1"	17'-9"	18'-4"	19'-0"	362T125-68-50
	362T125-97-50	18'-1"	19'-0"	19'-11"	20'-9"	21'-6"	22'-3"	23'-0"	362T125-97-50
0.5	362T125-33-50	8'-4"	8'-9"	9'-1"	9'-6"	9'-11"	10'-3"	10'-7"	362T125-33-50
	362T125-43-50	10'-8"	11'-2"	11'-8"	12'-2"	12'-8"	13'-1"	13'-6"	362T125-43-50
	362T125-54-50	13'-0"	13'-8"	14'-3"	14'-10"	15'-5"	16'-0"	16'-6"	362T125-54-50
	362T125-68-50	15'-8"	16'-5"	17'-2"	17'-11"	18'-7"	19'-3"	19'-11"	362T125-68-50
	362T125-97-50	19'-0"	20'-0"	20'-11"	21'-9"	22'-7"	23'-5"	24'-2"	362T125-97-50
0.4	362T125-33-50	8'-9"	9'-3"	9'-8"	10'-1"	10'-5"	10'-10"	11'-2"	362T125-33-50
	362T125-43-50	11'-3"	11'-10"	12'-4"	12'-10"	13'-4"	13'-10"	14'-4"	362T125-43-50
	362T125-54-50	13'-9"	14'-5"	15'-1"	15'-8"	16'-3"	16'-10"	17'-5"	362T125-54-50
	362T125-68-50	16'-6"	17'-4"	18'-2"	18'-11"	19'-8"	20'-4"	21'-0"	362T125-68-50
	362T125-97-50	20'-1"	21'-1"	22'-0"	22'-11"	23'-10"	24'-8"	25'-6"	362T125-97-50
0.3	362T125-33-50	9'-4"	9'-10"	10'-3"	10'-8"	11'-1"	11'-6"	11'-11"	362T125-33-50
	362T125-43-50	11'-11"	12'-6"	13'-1"	13'-8"	14'-2"	14'-8"	15'-2"	362T125-43-50
	362T125-54-50	14'-7"	15'-3"	16'-0"	16'-8"	17'-4"	17'-11"	18'-6"	362T125-54-50
	362T125-68-50	17'-7"	18'-5"	19'-3"	20'-1"	20'-10"	21'-7"	22'-4"	362T125-68-50
	362T125-97-50	21'-4"	22'-5"	23'-5"	24'-5"	25'-4"	26'-3"	27'-1"	362T125-97-50
0.2	362T125-33-50	10'-0"	10'-6"	11'-0"	11'-5"	11'-11"	12'-4"	12'-9"	362T125-33-50
	362T125-43-50	12'-9"	13'-5"	14'-0"	14'-8"	15'-2"	15'-9"	16'-3"	362T125-43-50
	362T125-54-50	15'-7"	16'-5"	17'-1"	17'-10"	18'-6"	19'-2"	19'-10"	362T125-54-50
	362T125-68-50	18'-10"	19'-9"	20'-8"	21'-6"	22'-4"	23'-2"	23'-11"	362T125-68-50
	362T125-97-50	22'-10"	24'-0"	25'-1"	26'-1"	27'-1"	28'-1"	29'-0"	362T125-97-50
0.1	362T125-33-50	10'-10"	11'-5"	11'-11"	12'-5"	12'-11"	13'-4"	13'-9"	362T125-33-50
	362T125-43-50	13'-10"	14'-6"	15'-2"	15'-10"	16'-5"	17'-0"	17'-7"	362T125-43-50
	362T125-54-50	16'-11"	17'-9"	18'-6"	19'-4"	20'-1"	20'-9"	21'-5"	362T125-54-50
	362T125-68-50	20'-4"	21'-4"	22'-4"	23'-3"	24'-2"	25'-0"	25'-10"	362T125-68-50
	362T125-97-50	24'-8"	25'-11"	27'-1"	28'-3"	29'-4"	30'-4"	31'-4"	362T125-97-50
0.0	362T125-33-50	11'-7"	12'-2"	12'-9"	13'-3"	13'-10"	14'-3"	14'-9"	362T125-33-50
	362T125-43-50	14'-10"	15'-7"	16'-3"	16'-11"	17'-7"	18'-3"	18'-10"	362T125-43-50
	362T125-54-50	18'-1"	19'-0"	19'-10"	20'-8"	21'-5"	22'-3"	23'-0"	362T125-54-50
	362T125-68-50	21'-9"	22'-11"	23'-11"	24'-11"	25'-10"	26'-9"	27'-8"	362T125-68-50
	362T125-97-50	26'-5"	27'-9"	29'-0"	30'-3"	31'-4"	32'-6"	33'-7"	362T125-97-50

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TABLE 4.7.4.181: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.70 Weight 2800 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	6'-5"	6'-9"	7'-1"	7'-5"	7'-8"	8'-0"	8'-3"	362T125-33-50
	362T125-43-50	8'-3"	8'-8"	9'-1"	9'-6"	9'-10"	10'-3"	10'-7"	362T125-43-50
	362T125-54-50	10'-1"	10'-8"	11'-1"	11'-7"	12'-0"	12'-6"	12'-11"	362T125-54-50
	362T125-68-50	12'-3"	12'-10"	13'-5"	14'-0"	14'-6"	15'-1"	15'-7"	362T125-68-50
	362T125-97-50	14'-10"	15'-7"	16'-4"	17'-0"	17'-8"	18'-4"	18'-11"	362T125-97-50
0.9	362T125-33-50	6'-8"	7'-0"	7'-4"	7'-8"	8'-0"	8'-3"	8'-6"	362T125-33-50
	362T125-43-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-3"	10'-7"	10'-11"	362T125-43-50
	362T125-54-50	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	12'-11"	13'-4"	362T125-54-50
	362T125-68-50	12'-8"	13'-4"	13'-11"	14'-6"	15'-1"	15'-7"	16'-2"	362T125-68-50
	362T125-97-50	15'-5"	16'-2"	16'-11"	17'-7"	18'-4"	19'-0"	19'-7"	362T125-97-50
0.8	362T125-33-50	6'-11"	7'-4"	7'-8"	8'-0"	8'-3"	8'-7"	8'-11"	362T125-33-50
	362T125-43-50	8'-11"	9'-4"	9'-10"	10'-3"	10'-7"	11'-0"	11'-4"	362T125-43-50
	362T125-54-50	10'-11"	11'-5"	12'-0"	12'-6"	13'-0"	13'-5"	13'-11"	362T125-54-50
	362T125-68-50	13'-2"	13'-10"	14'-5"	15'-1"	15'-8"	16'-3"	16'-9"	362T125-68-50
	362T125-97-50	16'-0"	16'-10"	17'-7"	18'-4"	19'-0"	19'-8"	20'-4"	362T125-97-50
0.7	362T125-33-50	7'-3"	7'-7"	8'-0"	8'-4"	8'-8"	8'-11"	9'-3"	362T125-33-50
	362T125-43-50	9'-4"	9'-9"	10'-3"	10'-8"	11'-1"	11'-6"	11'-10"	362T125-43-50
	362T125-54-50	11'-4"	11'-11"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	362T125-54-50
	362T125-68-50	13'-9"	14'-5"	15'-1"	15'-8"	16'-4"	16'-11"	17'-6"	362T125-68-50
	362T125-97-50	16'-8"	17'-6"	18'-4"	19'-1"	19'-10"	20'-6"	21'-3"	362T125-97-50
0.6	362T125-33-50	7'-7"	8'-0"	8'-4"	8'-8"	9'-0"	9'-4"	9'-8"	362T125-33-50
	362T125-43-50	9'-9"	10'-3"	10'-8"	11'-2"	11'-7"	12'-0"	12'-5"	362T125-43-50
	362T125-54-50	11'-11"	12'-6"	13'-1"	13'-7"	14'-2"	14'-8"	15'-2"	362T125-54-50
	362T125-68-50	14'-4"	15'-1"	15'-9"	16'-5"	17'-1"	17'-8"	18'-3"	362T125-68-50
	362T125-97-50	17'-5"	18'-4"	19'-2"	19'-11"	20'-9"	21'-5"	22'-2"	362T125-97-50
0.5	362T125-33-50	8'-0"	8'-5"	8'-9"	9'-2"	9'-6"	9'-10"	10'-2"	362T125-33-50
	362T125-43-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-2"	12'-7"	13'-0"	362T125-43-50
	362T125-54-50	12'-6"	13'-1"	13'-9"	14'-4"	14'-10"	15'-5"	15'-11"	362T125-54-50
	362T125-68-50	15'-1"	15'-10"	16'-7"	17'-3"	17'-11"	18'-7"	19'-2"	362T125-68-50
	362T125-97-50	18'-4"	19'-3"	20'-1"	20'-11"	21'-9"	22'-6"	23'-3"	362T125-97-50
0.4	362T125-33-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-0"	10'-5"	10'-9"	362T125-33-50
	362T125-43-50	10'-10"	11'-4"	11'-10"	12'-4"	12'-10"	13'-4"	13'-9"	362T125-43-50
	362T125-54-50	13'-2"	13'-10"	14'-6"	15'-1"	15'-8"	16'-3"	16'-9"	362T125-54-50
	362T125-68-50	15'-11"	16'-9"	17'-6"	18'-2"	18'-11"	19'-7"	20'-3"	362T125-68-50
	362T125-97-50	19'-4"	20'-4"	21'-3"	22'-1"	22'-11"	23'-9"	24'-7"	362T125-97-50
0.3	362T125-33-50	9'-0"	9'-5"	9'-10"	10'-3"	10'-8"	11'-1"	11'-5"	362T125-33-50
	362T125-43-50	11'-6"	12'-1"	12'-7"	13'-2"	13'-8"	14'-2"	14'-7"	362T125-43-50
	362T125-54-50	14'-0"	14'-9"	15'-5"	16'-0"	16'-8"	17'-3"	17'-10"	362T125-54-50
	362T125-68-50	16'-11"	17'-9"	18'-7"	19'-4"	20'-1"	20'-10"	21'-6"	362T125-68-50
	362T125-97-50	20'-6"	21'-7"	22'-6"	23'-6"	24'-5"	25'-3"	26'-1"	362T125-97-50
0.2	362T125-33-50	9'-7"	10'-1"	10'-7"	11'-0"	11'-5"	11'-10"	12'-3"	362T125-33-50
	362T125-43-50	12'-4"	12'-11"	13'-6"	14'-1"	14'-7"	15'-2"	15'-8"	362T125-43-50
	362T125-54-50	15'-0"	15'-9"	16'-6"	17'-2"	17'-10"	18'-6"	19'-1"	362T125-54-50
	362T125-68-50	18'-1"	19'-0"	19'-11"	20'-9"	21'-6"	22'-3"	23'-0"	362T125-68-50
	362T125-97-50	22'-0"	23'-1"	24'-2"	25'-2"	26'-1"	27'-0"	27'-11"	362T125-97-50
0.1	362T125-33-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-5"	12'-10"	13'-3"	362T125-33-50
	362T125-43-50	13'-4"	14'-0"	14'-8"	15'-3"	15'-10"	16'-5"	16'-11"	362T125-43-50
	362T125-54-50	16'-3"	17'-1"	17'-10"	18'-7"	19'-4"	20'-0"	20'-8"	362T125-54-50
	362T125-68-50	19'-7"	20'-7"	21'-6"	22'-5"	23'-3"	24'-1"	24'-11"	362T125-68-50
	362T125-97-50	23'-9"	25'-0"	26'-1"	27'-2"	28'-3"	29'-3"	30'-3"	362T125-97-50
0.0	362T125-33-50	11'-2"	11'-9"	12'-3"	12'-9"	13'-3"	13'-9"	14'-3"	362T125-33-50
	362T125-43-50	14'-3"	15'-0"	15'-8"	16'-4"	16'-11"	17'-7"	18'-2"	362T125-43-50
	362T125-54-50	17'-5"	18'-3"	19'-1"	19'-11"	20'-8"	21'-5"	22'-1"	362T125-54-50
	362T125-68-50	21'-0"	22'-0"	23'-0"	24'-0"	24'-11"	25'-10"	26'-8"	362T125-68-50
	362T125-97-50	25'-6"	26'-9"	27'-11"	29'-1"	30'-3"	31'-3"	32'-4"	362T125-97-50

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TABLE 4.7.4.182: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.70 Weight 3000 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	6'-2"	6'-6"	6'-10"	7'-1"	7'-5"	7'-8"	7'-11"	362T125-33-50
	362T125-43-50	8'-0"	8'-5"	8'-9"	9'-2"	9'-6"	9'-10"	10'-2"	362T125-43-50
	362T125-54-50	9'-9"	10'-3"	10'-9"	11'-2"	11'-7"	12'-0"	12'-5"	362T125-54-50
	362T125-68-50	11'-9"	12'-5"	12'-11"	13'-6"	14'-0"	14'-6"	15'-0"	362T125-68-50
	362T125-97-50	14'-4"	15'-1"	15'-9"	16'-5"	17'-1"	17'-8"	18'-3"	362T125-97-50
0.9	362T125-33-50	6'-5"	6'-9"	7'-1"	7'-5"	7'-8"	8'-0"	8'-3"	362T125-33-50
	362T125-43-50	8'-3"	8'-8"	9'-1"	9'-6"	9'-10"	10'-3"	10'-7"	362T125-43-50
	362T125-54-50	10'-1"	10'-8"	11'-1"	11'-7"	12'-0"	12'-6"	12'-11"	362T125-54-50
	362T125-68-50	12'-3"	12'-10"	13'-5"	14'-0"	14'-6"	15'-1"	15'-7"	362T125-68-50
	362T125-97-50	14'-10"	15'-7"	16'-4"	17'-0"	17'-8"	18'-4"	18'-11"	362T125-97-50
0.8	362T125-33-50	6'-8"	7'-0"	7'-4"	7'-8"	8'-0"	8'-3"	8'-7"	362T125-33-50
	362T125-43-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-3"	10'-7"	11'-0"	362T125-43-50
	362T125-54-50	10'-6"	11'-1"	11'-7"	12'-1"	12'-6"	13'-0"	13'-5"	362T125-54-50
	362T125-68-50	12'-8"	13'-4"	13'-11"	14'-6"	15'-1"	15'-8"	16'-2"	362T125-68-50
	362T125-97-50	15'-5"	16'-3"	16'-11"	17'-8"	18'-4"	19'-0"	19'-8"	362T125-97-50
0.7	362T125-33-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	8'-11"	362T125-33-50
	362T125-43-50	9'-0"	9'-5"	9'-10"	10'-3"	10'-8"	11'-1"	11'-5"	362T125-43-50
	362T125-54-50	11'-0"	11'-6"	12'-1"	12'-7"	13'-1"	13'-6"	14'-0"	362T125-54-50
	362T125-68-50	13'-3"	13'-11"	14'-6"	15'-2"	15'-9"	16'-4"	16'-10"	362T125-68-50
	362T125-97-50	16'-1"	16'-11"	17'-8"	18'-5"	19'-1"	19'-10"	20'-6"	362T125-97-50
0.6	362T125-33-50	7'-4"	7'-8"	8'-1"	8'-5"	8'-9"	9'-0"	9'-4"	362T125-33-50
	362T125-43-50	9'-5"	9'-10"	10'-4"	10'-9"	11'-2"	11'-7"	12'-0"	362T125-43-50
	362T125-54-50	11'-6"	12'-1"	12'-7"	13'-2"	13'-8"	14'-2"	14'-7"	362T125-54-50
	362T125-68-50	13'-10"	14'-6"	15'-2"	15'-10"	16'-5"	17'-1"	17'-7"	362T125-68-50
	362T125-97-50	16'-10"	17'-8"	18'-6"	19'-3"	20'-0"	20'-9"	21'-5"	362T125-97-50
0.5	362T125-33-50	7'-8"	8'-1"	8'-5"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-33-50
	362T125-43-50	9'-10"	10'-4"	10'-10"	11'-4"	11'-9"	12'-2"	12'-7"	362T125-43-50
	362T125-54-50	12'-1"	12'-8"	13'-3"	13'-10"	14'-4"	14'-10"	15'-4"	362T125-54-50
	362T125-68-50	14'-7"	15'-3"	16'-0"	16'-8"	17'-3"	17'-11"	18'-6"	362T125-68-50
	362T125-97-50	17'-8"	18'-7"	19'-5"	20'-3"	21'-0"	21'-9"	22'-6"	362T125-97-50
0.4	362T125-33-50	8'-2"	8'-7"	8'-11"	9'-4"	9'-8"	10'-0"	10'-5"	362T125-33-50
	362T125-43-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-5"	12'-10"	13'-3"	362T125-43-50
	362T125-54-50	12'-9"	13'-4"	14'-0"	14'-7"	15'-2"	15'-8"	16'-2"	362T125-54-50
	362T125-68-50	15'-4"	16'-2"	16'-10"	17'-7"	18'-3"	18'-11"	19'-6"	362T125-68-50
	362T125-97-50	18'-8"	19'-7"	20'-6"	21'-4"	22'-2"	22'-11"	23'-9"	362T125-97-50
0.3	362T125-33-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-8"	11'-0"	362T125-33-50
	362T125-43-50	11'-1"	11'-8"	12'-2"	12'-8"	13'-2"	13'-8"	14'-1"	362T125-43-50
	362T125-54-50	13'-6"	14'-3"	14'-10"	15'-6"	16'-1"	16'-8"	17'-3"	362T125-54-50
	362T125-68-50	16'-4"	17'-2"	17'-11"	18'-8"	19'-5"	20'-1"	20'-9"	362T125-68-50
	362T125-97-50	19'-10"	20'-10"	21'-9"	22'-8"	23'-6"	24'-5"	25'-2"	362T125-97-50
0.2	362T125-33-50	9'-3"	9'-9"	10'-2"	10'-8"	11'-0"	11'-5"	11'-10"	362T125-33-50
	362T125-43-50	11'-10"	12'-6"	13'-0"	13'-7"	14'-1"	14'-7"	15'-1"	362T125-43-50
	362T125-54-50	14'-6"	15'-3"	15'-11"	16'-7"	17'-3"	17'-10"	18'-5"	362T125-54-50
	362T125-68-50	17'-6"	18'-4"	19'-2"	20'-0"	20'-9"	21'-6"	22'-3"	362T125-68-50
	362T125-97-50	21'-3"	22'-3"	23'-4"	24'-3"	25'-2"	26'-1"	27'-0"	362T125-97-50
0.1	362T125-33-50	10'-1"	10'-7"	11'-1"	11'-6"	12'-0"	12'-5"	12'-10"	362T125-33-50
	362T125-43-50	12'-10"	13'-6"	14'-1"	14'-9"	15'-3"	15'-10"	16'-4"	362T125-43-50
	362T125-54-50	15'-8"	16'-6"	17'-3"	17'-11"	18'-8"	19'-4"	19'-11"	362T125-54-50
	362T125-68-50	18'-11"	19'-10"	20'-9"	21'-8"	22'-6"	23'-3"	24'-0"	362T125-68-50
	362T125-97-50	23'-0"	24'-1"	25'-2"	26'-3"	27'-3"	28'-3"	29'-2"	362T125-97-50
0.0	362T125-33-50	10'-9"	11'-4"	11'-10"	12'-4"	12'-10"	13'-3"	13'-9"	362T125-33-50
	362T125-43-50	13'-9"	14'-6"	15'-1"	15'-9"	16'-4"	16'-11"	17'-6"	362T125-43-50
	362T125-54-50	16'-10"	17'-8"	18'-5"	19'-2"	19'-11"	20'-8"	21'-4"	362T125-54-50
	362T125-68-50	20'-3"	21'-3"	22'-3"	23'-2"	24'-1"	24'-11"	25'-9"	362T125-68-50
	362T125-97-50	24'-7"	25'-10"	27'-0"	28'-1"	29'-2"	30'-2"	31'-3"	362T125-97-50

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TABLE 4.7.4.183: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.70 Weight 3200 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	6'-0"	6'-4"	6'-7"	6'-11"	7'-2"	7'-5"	7'-8"	362T125-33-50
	362T125-43-50	7'-9"	8'-1"	8'-6"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-43-50
	362T125-54-50	9'-5"	9'-11"	10'-4"	10'-10"	11'-3"	11'-8"	12'-0"	362T125-54-50
	362T125-68-50	11'-5"	12'-0"	12'-6"	13'-1"	13'-7"	14'-1"	14'-6"	362T125-68-50
	362T125-97-50	13'-10"	14'-7"	15'-3"	15'-10"	16'-6"	17'-1"	17'-8"	362T125-97-50
0.9	362T125-33-50	6'-3"	6'-6"	6'-10"	7'-2"	7'-5"	7'-8"	7'-11"	362T125-33-50
	362T125-43-50	8'-0"	8'-5"	8'-10"	9'-2"	9'-6"	9'-10"	10'-2"	362T125-43-50
	362T125-54-50	9'-9"	10'-3"	10'-9"	11'-2"	11'-8"	12'-1"	12'-6"	362T125-54-50
	362T125-68-50	11'-10"	12'-5"	13'-0"	13'-6"	14'-1"	14'-7"	15'-1"	362T125-68-50
	362T125-97-50	14'-4"	15'-1"	15'-9"	16'-5"	17'-1"	17'-8"	18'-4"	362T125-97-50
0.8	362T125-33-50	6'-6"	6'-10"	7'-1"	7'-5"	7'-9"	8'-0"	8'-3"	362T125-33-50
	362T125-43-50	8'-4"	8'-9"	9'-2"	9'-6"	9'-11"	10'-3"	10'-7"	362T125-43-50
	362T125-54-50	10'-2"	10'-8"	11'-2"	11'-8"	12'-1"	12'-6"	13'-0"	362T125-54-50
	362T125-68-50	12'-3"	12'-11"	13'-6"	14'-1"	14'-7"	15'-2"	15'-8"	362T125-68-50
	362T125-97-50	14'-11"	15'-8"	16'-5"	17'-1"	17'-9"	18'-5"	19'-0"	362T125-97-50
0.7	362T125-33-50	6'-9"	7'-1"	7'-5"	7'-9"	8'-1"	8'-4"	8'-8"	362T125-33-50
	362T125-43-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-8"	11'-1"	362T125-43-50
	362T125-54-50	10'-7"	11'-2"	11'-8"	12'-2"	12'-7"	13'-1"	13'-6"	362T125-54-50
	362T125-68-50	12'-10"	13'-5"	14'-1"	14'-8"	15'-3"	15'-9"	16'-4"	362T125-68-50
	362T125-97-50	15'-7"	16'-4"	17'-1"	17'-10"	18'-6"	19'-2"	19'-10"	362T125-97-50
0.6	362T125-33-50	7'-1"	7'-5"	7'-9"	8'-1"	8'-5"	8'-9"	9'-0"	362T125-33-50
	362T125-43-50	9'-1"	9'-6"	10'-0"	10'-5"	10'-10"	11'-2"	11'-7"	362T125-43-50
	362T125-54-50	11'-1"	11'-8"	12'-2"	12'-8"	13'-2"	13'-8"	14'-2"	362T125-54-50
	362T125-68-50	13'-5"	14'-1"	14'-8"	15'-4"	15'-11"	16'-6"	17'-1"	362T125-68-50
	362T125-97-50	16'-3"	17'-1"	17'-11"	18'-7"	19'-4"	20'-0"	20'-9"	362T125-97-50
0.5	362T125-33-50	7'-5"	7'-10"	8'-2"	8'-6"	8'-10"	9'-2"	9'-6"	362T125-33-50
	362T125-43-50	9'-6"	10'-0"	10'-6"	10'-11"	11'-4"	11'-9"	12'-2"	362T125-43-50
	362T125-54-50	11'-8"	12'-3"	12'-10"	13'-4"	13'-10"	14'-4"	14'-10"	362T125-54-50
	362T125-68-50	14'-1"	14'-9"	15'-5"	16'-1"	16'-9"	17'-4"	17'-11"	362T125-68-50
	362T125-97-50	17'-1"	17'-11"	18'-9"	19'-7"	20'-4"	21'-1"	21'-9"	362T125-97-50
0.4	362T125-33-50	7'-10"	8'-3"	8'-8"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-33-50
	362T125-43-50	10'-1"	10'-7"	11'-1"	11'-6"	12'-0"	12'-5"	12'-10"	362T125-43-50
	362T125-54-50	12'-4"	12'-11"	13'-6"	14'-1"	14'-8"	15'-2"	15'-8"	362T125-54-50
	362T125-68-50	14'-10"	15'-7"	16'-4"	17'-0"	17'-8"	18'-3"	18'-11"	362T125-68-50
	362T125-97-50	18'-1"	18'-11"	19'-10"	20'-8"	21'-5"	22'-3"	22'-11"	362T125-97-50
0.3	362T125-33-50	8'-4"	8'-9"	9'-2"	9'-7"	10'-0"	10'-4"	10'-8"	362T125-33-50
	362T125-43-50	10'-9"	11'-3"	11'-9"	12'-3"	12'-9"	13'-2"	13'-8"	362T125-43-50
	362T125-54-50	13'-1"	13'-9"	14'-4"	15'-0"	15'-7"	16'-1"	16'-8"	362T125-54-50
	362T125-68-50	15'-9"	16'-7"	17'-4"	18'-1"	18'-9"	19'-5"	20'-1"	362T125-68-50
	362T125-97-50	19'-2"	20'-2"	21'-1"	21'-11"	22'-9"	23'-7"	24'-5"	362T125-97-50
0.2	362T125-33-50	9'-0"	9'-5"	9'-10"	10'-3"	10'-8"	11'-1"	11'-5"	362T125-33-50
	362T125-43-50	11'-6"	12'-1"	12'-7"	13'-2"	13'-8"	14'-2"	14'-7"	362T125-43-50
	362T125-54-50	14'-0"	14'-9"	15'-5"	16'-0"	16'-8"	17'-3"	17'-10"	362T125-54-50
	362T125-68-50	16'-11"	17'-9"	18'-7"	19'-4"	20'-1"	20'-10"	21'-6"	362T125-68-50
	362T125-97-50	20'-6"	21'-7"	22'-6"	23'-6"	24'-5"	25'-3"	26'-1"	362T125-97-50
0.1	362T125-33-50	9'-9"	10'-3"	10'-8"	11'-2"	11'-7"	12'-0"	12'-5"	362T125-33-50
	362T125-43-50	12'-5"	13'-1"	13'-8"	14'-3"	14'-9"	15'-4"	15'-10"	362T125-43-50
	362T125-54-50	15'-2"	15'-11"	16'-8"	17'-4"	18'-0"	18'-8"	19'-4"	362T125-54-50
	362T125-68-50	18'-4"	19'-3"	20'-1"	20'-11"	21'-9"	22'-6"	23'-3"	362T125-68-50
	362T125-97-50	22'-3"	23'-4"	24'-5"	25'-5"	26'-4"	27'-4"	28'-3"	362T125-97-50
0.0	362T125-33-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-5"	12'-10"	13'-3"	362T125-33-50
	362T125-43-50	13'-4"	14'-0"	14'-8"	15'-3"	15'-10"	16'-5"	16'-11"	362T125-43-50
	362T125-54-50	16'-3"	17'-1"	17'-10"	18'-7"	19'-4"	20'-0"	20'-8"	362T125-54-50
	362T125-68-50	19'-7"	20'-7"	21'-6"	22'-5"	23'-3"	24'-1"	24'-11"	362T125-68-50
	362T125-97-50	23'-9"	25'-0"	26'-1"	27'-2"	28'-3"	29'-3"	30'-2"	362T125-97-50

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TABLE 4.7.4.184: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.70 Weight 3400 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	5'-10"	6'-1"	6'-5"	6'-8"	6'-11"	7'-2"	7'-5"	362T125-33-50
	362T125-43-50	7'-6"	7'-10"	8'-3"	8'-7"	8'-11"	9'-3"	9'-6"	362T125-43-50
	362T125-54-50	9'-2"	9'-7"	10'-1"	10'-6"	10'-11"	11'-3"	11'-8"	362T125-54-50
	362T125-68-50	11'-0"	11'-7"	12'-2"	12'-8"	13'-2"	13'-7"	14'-1"	362T125-68-50
	362T125-97-50	13'-5"	14'-1"	14'-9"	15'-5"	16'-0"	16'-7"	17'-1"	362T125-97-50
0.9	362T125-33-50	6'-0"	6'-4"	6'-8"	6'-11"	7'-2"	7'-5"	7'-8"	362T125-33-50
	362T125-43-50	7'-9"	8'-2"	8'-6"	8'-11"	9'-3"	9'-7"	9'-11"	362T125-43-50
	362T125-54-50	9'-6"	10'-0"	10'-5"	10'-10"	11'-3"	11'-8"	12'-1"	362T125-54-50
	362T125-68-50	11'-5"	12'-0"	12'-7"	13'-1"	13'-7"	14'-1"	14'-7"	362T125-68-50
	362T125-97-50	13'-11"	14'-8"	15'-4"	15'-11"	16'-7"	17'-2"	17'-9"	362T125-97-50
0.8	362T125-33-50	6'-3"	6'-7"	6'-11"	7'-2"	7'-6"	7'-9"	8'-0"	362T125-33-50
	362T125-43-50	8'-1"	8'-6"	8'-10"	9'-3"	9'-7"	9'-11"	10'-3"	362T125-43-50
	362T125-54-50	9'-10"	10'-4"	10'-10"	11'-3"	11'-9"	12'-2"	12'-7"	362T125-54-50
	362T125-68-50	11'-11"	12'-6"	13'-1"	13'-7"	14'-2"	14'-8"	15'-2"	362T125-68-50
	362T125-97-50	14'-6"	15'-2"	15'-11"	16'-7"	17'-2"	17'-10"	18'-5"	362T125-97-50
0.7	362T125-33-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-10"	8'-1"	8'-4"	362T125-33-50
	362T125-43-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-0"	10'-4"	10'-9"	362T125-43-50
	362T125-54-50	10'-3"	10'-10"	11'-3"	11'-9"	12'-3"	12'-8"	13'-1"	362T125-54-50
	362T125-68-50	12'-5"	13'-0"	13'-8"	14'-2"	14'-9"	15'-3"	15'-10"	362T125-68-50
	362T125-97-50	15'-1"	15'-10"	16'-7"	17'-3"	17'-11"	18'-7"	19'-2"	362T125-97-50
0.6	362T125-33-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-2"	8'-6"	8'-9"	362T125-33-50
	362T125-43-50	8'-10"	9'-3"	9'-8"	10'-1"	10'-6"	10'-10"	11'-3"	362T125-43-50
	362T125-54-50	10'-9"	11'-4"	11'-10"	12'-4"	12'-9"	13'-3"	13'-8"	362T125-54-50
	362T125-68-50	13'-0"	13'-8"	14'-3"	14'-10"	15'-5"	16'-0"	16'-6"	362T125-68-50
	362T125-97-50	15'-9"	16'-7"	17'-4"	18'-1"	18'-9"	19'-5"	20'-1"	362T125-97-50
0.5	362T125-33-50	7'-2"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-2"	362T125-33-50
	362T125-43-50	9'-3"	9'-9"	10'-2"	10'-7"	11'-0"	11'-5"	11'-9"	362T125-43-50
	362T125-54-50	11'-4"	11'-10"	12'-5"	12'-11"	13'-5"	13'-11"	14'-5"	362T125-54-50
	362T125-68-50	13'-8"	14'-4"	15'-0"	15'-7"	16'-2"	16'-9"	17'-4"	362T125-68-50
	362T125-97-50	16'-7"	17'-5"	18'-2"	19'-0"	19'-8"	20'-5"	21'-1"	362T125-97-50
0.4	362T125-33-50	7'-7"	8'-0"	8'-4"	8'-9"	9'-1"	9'-5"	9'-9"	362T125-33-50
	362T125-43-50	9'-9"	10'-3"	10'-9"	11'-2"	11'-7"	12'-0"	12'-5"	362T125-43-50
	362T125-54-50	11'-11"	12'-6"	13'-1"	13'-8"	14'-2"	14'-8"	15'-2"	362T125-54-50
	362T125-68-50	14'-5"	15'-1"	15'-10"	16'-6"	17'-1"	17'-9"	18'-4"	362T125-68-50
	362T125-97-50	17'-6"	18'-4"	19'-3"	20'-0"	20'-9"	21'-6"	22'-3"	362T125-97-50
0.3	362T125-33-50	8'-1"	8'-6"	8'-11"	9'-3"	9'-8"	10'-0"	10'-4"	362T125-33-50
	362T125-43-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-4"	12'-10"	13'-3"	362T125-43-50
	362T125-54-50	12'-8"	13'-4"	13'-11"	14'-6"	15'-1"	15'-7"	16'-2"	362T125-54-50
	362T125-68-50	15'-4"	16'-1"	16'-10"	17'-6"	18'-2"	18'-10"	19'-6"	362T125-68-50
	362T125-97-50	18'-7"	19'-6"	20'-5"	21'-3"	22'-1"	22'-10"	23'-8"	362T125-97-50
0.2	362T125-33-50	8'-8"	9'-2"	9'-7"	9'-11"	10'-4"	10'-9"	11'-1"	362T125-33-50
	362T125-43-50	11'-1"	11'-8"	12'-3"	12'-9"	13'-3"	13'-9"	14'-2"	362T125-43-50
	362T125-54-50	13'-7"	14'-3"	14'-11"	15'-6"	16'-2"	16'-9"	17'-3"	362T125-54-50
	362T125-68-50	16'-5"	17'-2"	18'-0"	18'-9"	19'-6"	20'-2"	20'-10"	362T125-68-50
	362T125-97-50	19'-11"	20'-11"	21'-10"	22'-9"	23'-8"	24'-6"	25'-4"	362T125-97-50
0.1	362T125-33-50	9'-5"	9'-11"	10'-4"	10'-9"	11'-2"	11'-7"	12'-0"	362T125-33-50
	362T125-43-50	12'-1"	12'-8"	13'-3"	13'-10"	14'-4"	14'-10"	15'-4"	362T125-43-50
	362T125-54-50	14'-8"	15'-5"	16'-2"	16'-10"	17'-6"	18'-1"	18'-8"	362T125-54-50
	362T125-68-50	17'-9"	18'-8"	19'-6"	20'-3"	21'-1"	21'-10"	22'-7"	362T125-68-50
	362T125-97-50	21'-6"	22'-7"	23'-8"	24'-7"	25'-7"	26'-6"	27'-5"	362T125-97-50
0.0	362T125-33-50	10'-1"	10'-7"	11'-1"	11'-7"	12'-0"	12'-5"	12'-10"	362T125-33-50
	362T125-43-50	12'-11"	13'-7"	14'-2"	14'-9"	15'-4"	15'-11"	16'-5"	362T125-43-50
	362T125-54-50	15'-9"	16'-6"	17'-4"	18'-0"	18'-8"	19'-5"	20'-0"	362T125-54-50
	362T125-68-50	19'-0"	19'-11"	20'-10"	21'-9"	22'-7"	23'-4"	24'-2"	362T125-68-50
	362T125-97-50	23'-1"	24'-3"	25'-4"	26'-4"	27'-5"	28'-4"	29'-3"	362T125-97-50

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TABLE 4.7.4.185: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.70 Weight 3600 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	5'-8"	5'-11"	6'-2"	6'-6"	6'-9"	7'-0"	7'-2"	362T125-33-50
	362T125-43-50	7'-3"	7'-7"	8'-0"	8'-4"	8'-8"	8'-11"	9'-3"	362T125-43-50
	362T125-54-50	8'-10"	9'-4"	9'-9"	10'-2"	10'-7"	10'-11"	11'-4"	362T125-54-50
	362T125-68-50	10'-9"	11'-3"	11'-9"	12'-3"	12'-9"	13'-3"	13'-8"	362T125-68-50
	362T125-97-50	13'-1"	13'-8"	14'-4"	14'-11"	15'-6"	16'-1"	16'-7"	362T125-97-50
0.9	362T125-33-50	5'-10"	6'-2"	6'-5"	6'-8"	7'-0"	7'-3"	7'-6"	362T125-33-50
	362T125-43-50	7'-6"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	9'-7"	362T125-43-50
	362T125-54-50	9'-2"	9'-8"	10'-1"	10'-6"	10'-11"	11'-4"	11'-9"	362T125-54-50
	362T125-68-50	11'-1"	11'-8"	12'-3"	12'-9"	13'-3"	13'-8"	14'-2"	362T125-68-50
	362T125-97-50	13'-6"	14'-2"	14'-10"	15'-6"	16'-1"	16'-8"	17'-3"	362T125-97-50
0.8	362T125-33-50	6'-1"	6'-5"	6'-8"	7'-0"	7'-3"	7'-6"	7'-9"	362T125-33-50
	362T125-43-50	7'-10"	8'-3"	8'-7"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-43-50
	362T125-54-50	9'-7"	10'-1"	10'-6"	10'-11"	11'-5"	11'-10"	12'-2"	362T125-54-50
	362T125-68-50	11'-7"	12'-2"	12'-8"	13'-3"	13'-9"	14'-3"	14'-9"	362T125-68-50
	362T125-97-50	14'-1"	14'-9"	15'-5"	16'-1"	16'-8"	17'-4"	17'-11"	362T125-97-50
0.7	362T125-33-50	6'-4"	6'-8"	7'-0"	7'-3"	7'-7"	7'-10"	8'-1"	362T125-33-50
	362T125-43-50	8'-2"	8'-7"	9'-0"	9'-4"	9'-9"	10'-1"	10'-5"	362T125-43-50
	362T125-54-50	10'-0"	10'-6"	11'-0"	11'-5"	11'-10"	12'-4"	12'-9"	362T125-54-50
	362T125-68-50	12'-0"	12'-8"	13'-3"	13'-9"	14'-4"	14'-10"	15'-4"	362T125-68-50
	362T125-97-50	14'-8"	15'-5"	16'-1"	16'-9"	17'-5"	18'-0"	18'-8"	362T125-97-50
0.6	362T125-33-50	6'-8"	7'-0"	7'-4"	7'-7"	7'-11"	8'-3"	8'-6"	362T125-33-50
	362T125-43-50	8'-6"	9'-0"	9'-5"	9'-9"	10'-2"	10'-6"	10'-11"	362T125-43-50
	362T125-54-50	10'-5"	11'-0"	11'-6"	11'-11"	12'-5"	12'-10"	13'-4"	362T125-54-50
	362T125-68-50	12'-7"	13'-3"	13'-10"	14'-5"	15'-0"	15'-6"	16'-1"	362T125-68-50
	362T125-97-50	15'-4"	16'-1"	16'-10"	17'-6"	18'-2"	18'-10"	19'-6"	362T125-97-50
0.5	362T125-33-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	8'-11"	362T125-33-50
	362T125-43-50	9'-0"	9'-5"	9'-10"	10'-3"	10'-8"	11'-1"	11'-5"	362T125-43-50
	362T125-54-50	11'-0"	11'-6"	12'-1"	12'-7"	13'-1"	13'-6"	14'-0"	362T125-54-50
	362T125-68-50	13'-3"	13'-11"	14'-6"	15'-2"	15'-9"	16'-4"	16'-10"	362T125-68-50
	362T125-97-50	16'-1"	16'-11"	17'-8"	18'-5"	19'-1"	19'-10"	20'-6"	362T125-97-50
0.4	362T125-33-50	7'-5"	7'-9"	8'-2"	8'-6"	8'-10"	9'-1"	9'-5"	362T125-33-50
	362T125-43-50	9'-6"	10'-0"	10'-5"	10'-10"	11'-3"	11'-8"	12'-1"	362T125-43-50
	362T125-54-50	11'-7"	12'-2"	12'-9"	13'-3"	13'-9"	14'-3"	14'-9"	362T125-54-50
	362T125-68-50	14'-0"	14'-8"	15'-4"	16'-0"	16'-7"	17'-3"	17'-9"	362T125-68-50
	362T125-97-50	17'-0"	17'-10"	18'-8"	19'-5"	20'-2"	20'-11"	21'-7"	362T125-97-50
0.3	362T125-33-50	7'-10"	8'-3"	8'-8"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-33-50
	362T125-43-50	10'-1"	10'-7"	11'-1"	11'-6"	12'-0"	12'-5"	12'-10"	362T125-43-50
	362T125-54-50	12'-4"	12'-11"	13'-6"	14'-1"	14'-8"	15'-2"	15'-8"	362T125-54-50
	362T125-68-50	14'-10"	15'-7"	16'-4"	17'-0"	17'-8"	18'-3"	18'-11"	362T125-68-50
	362T125-97-50	18'-1"	18'-11"	19'-10"	20'-8"	21'-5"	22'-3"	22'-11"	362T125-97-50
0.2	362T125-33-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-0"	10'-5"	10'-9"	362T125-33-50
	362T125-43-50	10'-10"	11'-4"	11'-10"	12'-4"	12'-10"	13'-4"	13'-9"	362T125-43-50
	362T125-54-50	13'-2"	13'-10"	14'-6"	15'-1"	15'-8"	16'-3"	16'-9"	362T125-54-50
	362T125-68-50	15'-11"	16'-9"	17'-6"	18'-2"	18'-11"	19'-7"	20'-3"	362T125-68-50
	362T125-97-50	19'-4"	20'-4"	21'-3"	22'-1"	22'-11"	23'-9"	24'-7"	362T125-97-50
0.1	362T125-33-50	9'-2"	9'-7"	10'-1"	10'-6"	10'-11"	11'-3"	11'-8"	362T125-33-50
	362T125-43-50	11'-8"	12'-3"	12'-10"	13'-5"	13'-11"	14'-5"	14'-11"	362T125-43-50
	362T125-54-50	14'-3"	15'-0"	15'-8"	16'-4"	17'-0"	17'-7"	18'-2"	362T125-54-50
	362T125-68-50	17'-3"	18'-1"	18'-11"	19'-8"	20'-6"	21'-2"	21'-11"	362T125-68-50
	362T125-97-50	20'-11"	22'-0"	23'-0"	23'-11"	24'-10"	25'-9"	26'-7"	362T125-97-50
0.0	362T125-33-50	9'-10"	10'-4"	10'-9"	11'-3"	11'-8"	12'-1"	12'-6"	362T125-33-50
	362T125-43-50	12'-6"	13'-2"	13'-9"	14'-4"	14'-11"	15'-5"	15'-11"	362T125-43-50
	362T125-54-50	15'-4"	16'-1"	16'-10"	17'-6"	18'-2"	18'-10"	19'-5"	362T125-54-50
	362T125-68-50	18'-5"	19'-4"	20'-3"	21'-1"	21'-11"	22'-8"	23'-5"	362T125-68-50
	362T125-97-50	22'-5"	23'-6"	24'-7"	25'-7"	26'-7"	27'-6"	28'-5"	362T125-97-50

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TABLE 4.7.4.186: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.70 Weight 3800 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	5'-6"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	362T125-33-50
	362T125-43-50	7'-0"	7'-5"	7'-9"	8'-1"	8'-5"	8'-8"	9'-0"	362T125-43-50
	362T125-54-50	8'-7"	9'-1"	9'-6"	9'-11"	10'-3"	10'-8"	11'-0"	362T125-54-50
	362T125-68-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-5"	12'-10"	13'-3"	362T125-68-50
	362T125-97-50	12'-8"	13'-4"	13'-11"	14'-6"	15'-1"	15'-8"	16'-2"	362T125-97-50
0.9	362T125-33-50	5'-8"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	7'-3"	362T125-33-50
	362T125-43-50	7'-4"	7'-8"	8'-0"	8'-5"	8'-8"	9'-0"	9'-4"	362T125-43-50
	362T125-54-50	8'-11"	9'-5"	9'-10"	10'-3"	10'-8"	11'-0"	11'-5"	362T125-54-50
	362T125-68-50	10'-10"	11'-4"	11'-10"	12'-4"	12'-10"	13'-4"	13'-9"	362T125-68-50
	362T125-97-50	13'-2"	13'-10"	14'-5"	15'-1"	15'-8"	16'-2"	16'-9"	362T125-97-50
0.8	362T125-33-50	5'-11"	6'-2"	6'-6"	6'-9"	7'-1"	7'-4"	7'-7"	362T125-33-50
	362T125-43-50	7'-7"	8'-0"	8'-4"	8'-9"	9'-1"	9'-5"	9'-8"	362T125-43-50
	362T125-54-50	9'-4"	9'-9"	10'-3"	10'-8"	11'-1"	11'-6"	11'-10"	362T125-54-50
	362T125-68-50	11'-3"	11'-10"	12'-4"	12'-10"	13'-4"	13'-10"	14'-4"	362T125-68-50
	362T125-97-50	13'-8"	14'-4"	15'-0"	15'-8"	16'-3"	16'-10"	17'-5"	362T125-97-50
0.7	362T125-33-50	6'-2"	6'-6"	6'-9"	7'-1"	7'-4"	7'-7"	7'-11"	362T125-33-50
	362T125-43-50	7'-11"	8'-4"	8'-9"	9'-1"	9'-5"	9'-9"	10'-1"	362T125-43-50
	362T125-54-50	9'-8"	10'-2"	10'-8"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-54-50
	362T125-68-50	11'-8"	12'-4"	12'-10"	13'-5"	13'-11"	14'-5"	14'-11"	362T125-68-50
	362T125-97-50	14'-3"	14'-11"	15'-8"	16'-4"	16'-11"	17'-7"	18'-2"	362T125-97-50
0.6	362T125-33-50	6'-5"	6'-9"	7'-1"	7'-5"	7'-8"	8'-0"	8'-3"	362T125-33-50
	362T125-43-50	8'-4"	8'-9"	9'-1"	9'-6"	9'-11"	10'-3"	10'-7"	362T125-43-50
	362T125-54-50	10'-2"	10'-8"	11'-2"	11'-7"	12'-1"	12'-6"	12'-11"	362T125-54-50
	362T125-68-50	12'-3"	12'-10"	13'-5"	14'-0"	14'-7"	15'-1"	15'-7"	362T125-68-50
	362T125-97-50	14'-11"	15'-8"	16'-4"	17'-1"	17'-8"	18'-4"	19'-0"	362T125-97-50
0.5	362T125-33-50	6'-9"	7'-2"	7'-6"	7'-9"	8'-1"	8'-5"	8'-8"	362T125-33-50
	362T125-43-50	8'-9"	9'-2"	9'-7"	10'-0"	10'-5"	10'-9"	11'-1"	362T125-43-50
	362T125-54-50	10'-8"	11'-2"	11'-9"	12'-2"	12'-8"	13'-2"	13'-7"	362T125-54-50
	362T125-68-50	12'-10"	13'-6"	14'-2"	14'-9"	15'-4"	15'-10"	16'-5"	362T125-68-50
	362T125-97-50	15'-8"	16'-5"	17'-2"	17'-11"	18'-7"	19'-3"	19'-11"	362T125-97-50
0.4	362T125-33-50	7'-2"	7'-7"	7'-11"	8'-3"	8'-7"	8'-10"	9'-2"	362T125-33-50
	362T125-43-50	9'-3"	9'-8"	10'-2"	10'-7"	11'-0"	11'-4"	11'-9"	362T125-43-50
	362T125-54-50	11'-3"	11'-10"	12'-4"	12'-11"	13'-5"	13'-11"	14'-4"	362T125-54-50
	362T125-68-50	13'-7"	14'-3"	14'-11"	15'-7"	16'-2"	16'-9"	17'-4"	362T125-68-50
	362T125-97-50	16'-6"	17'-4"	18'-2"	18'-11"	19'-8"	20'-4"	21'-0"	362T125-97-50
0.3	362T125-33-50	7'-8"	8'-0"	8'-5"	8'-9"	9'-1"	9'-5"	9'-9"	362T125-33-50
	362T125-43-50	9'-10"	10'-4"	10'-9"	11'-3"	11'-8"	12'-1"	12'-6"	362T125-43-50
	362T125-54-50	12'-0"	12'-7"	13'-2"	13'-8"	14'-3"	14'-9"	15'-3"	362T125-54-50
	362T125-68-50	14'-5"	15'-2"	15'-10"	16'-6"	17'-2"	17'-9"	18'-5"	362T125-68-50
	362T125-97-50	17'-7"	18'-5"	19'-3"	20'-1"	20'-10"	21'-7"	22'-4"	362T125-97-50
0.2	362T125-33-50	8'-2"	8'-7"	9'-0"	9'-5"	9'-9"	10'-1"	10'-6"	362T125-33-50
	362T125-43-50	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	12'-11"	13'-5"	362T125-43-50
	362T125-54-50	12'-10"	13'-6"	14'-1"	14'-8"	15'-3"	15'-9"	16'-4"	362T125-54-50
	362T125-68-50	15'-6"	16'-3"	17'-0"	17'-8"	18'-5"	19'-1"	19'-8"	362T125-68-50
	362T125-97-50	18'-10"	19'-9"	20'-8"	21'-6"	22'-4"	23'-2"	23'-11"	362T125-97-50
0.1	362T125-33-50	8'-11"	9'-4"	9'-9"	10'-2"	10'-7"	11'-0"	11'-4"	362T125-33-50
	362T125-43-50	11'-5"	11'-11"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	362T125-43-50
	362T125-54-50	13'-11"	14'-7"	15'-3"	15'-11"	16'-6"	17'-1"	17'-8"	362T125-54-50
	362T125-68-50	16'-9"	17'-7"	18'-5"	19'-2"	19'-11"	20'-7"	21'-4"	362T125-68-50
	362T125-97-50	20'-4"	21'-4"	22'-4"	23'-3"	24'-2"	25'-0"	25'-10"	362T125-97-50
0.0	362T125-33-50	9'-6"	10'-0"	10'-6"	10'-11"	11'-4"	11'-9"	12'-2"	362T125-33-50
	362T125-43-50	12'-2"	12'-10"	13'-5"	13'-11"	14'-6"	15'-0"	15'-6"	362T125-43-50
	362T125-54-50	14'-10"	15'-7"	16'-4"	17'-0"	17'-8"	18'-4"	18'-11"	362T125-54-50
	362T125-68-50	17'-11"	18'-10"	19'-8"	20'-6"	21'-4"	22'-1"	22'-10"	362T125-68-50
	362T125-97-50	21'-9"	22'-10"	23'-11"	24'-11"	25'-10"	26'-9"	27'-8"	362T125-97-50

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TABLE 4.7.4.187: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.70 Weight 4000 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	362T125-33-50
	362T125-43-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-2"	8'-6"	8'-9"	362T125-43-50
	362T125-54-50	8'-5"	8'-10"	9'-3"	9'-7"	10'-0"	10'-4"	10'-9"	362T125-54-50
	362T125-68-50	10'-2"	10'-8"	11'-2"	11'-7"	12'-1"	12'-6"	12'-11"	362T125-68-50
	362T125-97-50	12'-4"	13'-0"	13'-7"	14'-2"	14'-8"	15'-3"	15'-9"	362T125-97-50
0.9	362T125-33-50	5'-6"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	362T125-33-50
	362T125-43-50	7'-1"	7'-6"	7'-10"	8'-2"	8'-6"	8'-9"	9'-1"	362T125-43-50
	362T125-54-50	8'-8"	9'-2"	9'-7"	10'-0"	10'-4"	10'-9"	11'-1"	362T125-54-50
	362T125-68-50	10'-6"	11'-1"	11'-7"	12'-1"	12'-6"	13'-0"	13'-5"	362T125-68-50
	362T125-97-50	12'-10"	13'-5"	14'-1"	14'-8"	15'-3"	15'-9"	16'-4"	362T125-97-50
0.8	362T125-33-50	5'-9"	6'-0"	6'-4"	6'-7"	6'-10"	7'-1"	7'-4"	362T125-33-50
	362T125-43-50	7'-5"	7'-9"	8'-2"	8'-6"	8'-10"	9'-2"	9'-5"	362T125-43-50
	362T125-54-50	9'-1"	9'-6"	9'-11"	10'-4"	10'-9"	11'-2"	11'-7"	362T125-54-50
	362T125-68-50	10'-11"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	13'-11"	362T125-68-50
	362T125-97-50	13'-4"	14'-0"	14'-7"	15'-3"	15'-10"	16'-5"	16'-11"	362T125-97-50
0.7	362T125-33-50	6'-0"	6'-4"	6'-7"	6'-11"	7'-2"	7'-5"	7'-8"	362T125-33-50
	362T125-43-50	7'-9"	8'-1"	8'-6"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-43-50
	362T125-54-50	9'-5"	9'-11"	10'-4"	10'-10"	11'-3"	11'-8"	12'-0"	362T125-54-50
	362T125-68-50	11'-5"	12'-0"	12'-6"	13'-1"	13'-7"	14'-1"	14'-6"	362T125-68-50
	362T125-97-50	13'-10"	14'-7"	15'-3"	15'-10"	16'-6"	17'-1"	17'-8"	362T125-97-50
0.6	362T125-33-50	6'-3"	6'-7"	6'-11"	7'-2"	7'-6"	7'-9"	8'-0"	362T125-33-50
	362T125-43-50	8'-1"	8'-6"	8'-11"	9'-3"	9'-7"	10'-0"	10'-4"	362T125-43-50
	362T125-54-50	9'-11"	10'-5"	10'-10"	11'-4"	11'-9"	12'-2"	12'-7"	362T125-54-50
	362T125-68-50	11'-11"	12'-6"	13'-1"	13'-8"	14'-2"	14'-8"	15'-2"	362T125-68-50
	362T125-97-50	14'-6"	15'-3"	15'-11"	16'-7"	17'-3"	17'-10"	18'-6"	362T125-97-50
0.5	362T125-33-50	6'-7"	6'-11"	7'-3"	7'-7"	7'-11"	8'-2"	8'-5"	362T125-33-50
	362T125-43-50	8'-6"	8'-11"	9'-4"	9'-9"	10'-1"	10'-6"	10'-10"	362T125-43-50
	362T125-54-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-4"	12'-10"	13'-3"	362T125-54-50
	362T125-68-50	12'-6"	13'-2"	13'-9"	14'-4"	14'-11"	15'-5"	16'-0"	362T125-68-50
	362T125-97-50	15'-3"	16'-0"	16'-9"	17'-5"	18'-1"	18'-9"	19'-5"	362T125-97-50
0.4	362T125-33-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	8'-11"	362T125-33-50
	362T125-43-50	9'-0"	9'-5"	9'-10"	10'-3"	10'-8"	11'-1"	11'-5"	362T125-43-50
	362T125-54-50	11'-0"	11'-6"	12'-1"	12'-7"	13'-1"	13'-6"	14'-0"	362T125-54-50
	362T125-68-50	13'-3"	13'-11"	14'-6"	15'-2"	15'-9"	16'-4"	16'-10"	362T125-68-50
	362T125-97-50	16'-1"	16'-11"	17'-8"	18'-5"	19'-1"	19'-10"	20'-6"	362T125-97-50
0.3	362T125-33-50	7'-5"	7'-10"	8'-2"	8'-6"	8'-10"	9'-2"	9'-6"	362T125-33-50
	362T125-43-50	9'-6"	10'-0"	10'-6"	10'-11"	11'-4"	11'-9"	12'-2"	362T125-43-50
	362T125-54-50	11'-8"	12'-3"	12'-10"	13'-4"	13'-10"	14'-4"	14'-10"	362T125-54-50
	362T125-68-50	14'-1"	14'-9"	15'-5"	16'-1"	16'-9"	17'-4"	17'-11"	362T125-68-50
	362T125-97-50	17'-1"	17'-11"	18'-9"	19'-7"	20'-4"	21'-1"	21'-9"	362T125-97-50
0.2	362T125-33-50	8'-0"	8'-5"	8'-9"	9'-2"	9'-6"	9'-10"	10'-2"	362T125-33-50
	362T125-43-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-2"	12'-7"	13'-0"	362T125-43-50
	362T125-54-50	12'-6"	13'-1"	13'-9"	14'-4"	14'-10"	15'-5"	15'-11"	362T125-54-50
	362T125-68-50	15'-1"	15'-10"	16'-7"	17'-3"	17'-11"	18'-7"	19'-2"	362T125-68-50
	362T125-97-50	18'-4"	19'-3"	20'-1"	20'-11"	21'-9"	22'-6"	23'-3"	362T125-97-50
0.1	362T125-33-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-8"	11'-0"	362T125-33-50
	362T125-43-50	11'-1"	11'-8"	12'-2"	12'-8"	13'-2"	13'-8"	14'-1"	362T125-43-50
	362T125-54-50	13'-6"	14'-2"	14'-10"	15'-6"	16'-1"	16'-8"	17'-3"	362T125-54-50
	362T125-68-50	16'-4"	17'-2"	17'-11"	18'-8"	19'-5"	20'-1"	20'-9"	362T125-68-50
	362T125-97-50	19'-10"	20'-10"	21'-9"	22'-8"	23'-6"	24'-5"	25'-2"	362T125-97-50
0.0	362T125-33-50	9'-3"	9'-9"	10'-2"	10'-8"	11'-0"	11'-5"	11'-10"	362T125-33-50
	362T125-43-50	11'-10"	12'-6"	13'-0"	13'-7"	14'-1"	14'-7"	15'-1"	362T125-43-50
	362T125-54-50	14'-6"	15'-3"	15'-11"	16'-7"	17'-3"	17'-10"	18'-5"	362T125-54-50
	362T125-68-50	17'-6"	18'-4"	19'-2"	20'-0"	20'-9"	21'-6"	22'-2"	362T125-68-50
	362T125-97-50	21'-3"	22'-3"	23'-4"	24'-3"	25'-2"	26'-1"	27'-0"	362T125-97-50

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TABLE 4.7.4.188: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.70 Weight 4200 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	6'-8"	362T125-33-50
	362T125-43-50	6'-8"	7'-0"	7'-4"	7'-8"	8'-0"	8'-3"	8'-6"	362T125-43-50
	362T125-54-50	8'-2"	8'-7"	9'-0"	9'-5"	9'-9"	10'-1"	10'-5"	362T125-54-50
	362T125-68-50	9'-11"	10'-5"	10'-10"	11'-4"	11'-9"	12'-2"	12'-7"	362T125-68-50
	362T125-97-50	12'-0"	12'-8"	13'-3"	13'-9"	14'-4"	14'-10"	15'-4"	362T125-97-50
0.9	362T125-33-50	5'-4"	5'-8"	5'-11"	6'-2"	6'-5"	6'-8"	6'-11"	362T125-33-50
	362T125-43-50	6'-11"	7'-3"	7'-7"	7'-11"	8'-3"	8'-7"	8'-10"	362T125-43-50
	362T125-54-50	8'-6"	8'-11"	9'-4"	9'-9"	10'-1"	10'-6"	10'-10"	362T125-54-50
	362T125-68-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-2"	12'-8"	13'-1"	362T125-68-50
	362T125-97-50	12'-6"	13'-1"	13'-9"	14'-3"	14'-10"	15'-5"	15'-11"	362T125-97-50
0.8	362T125-33-50	5'-7"	5'-11"	6'-2"	6'-5"	6'-8"	6'-11"	7'-2"	362T125-33-50
	362T125-43-50	7'-2"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-2"	362T125-43-50
	362T125-54-50	8'-10"	9'-3"	9'-8"	10'-1"	10'-6"	10'-11"	11'-3"	362T125-54-50
	362T125-68-50	10'-8"	11'-2"	11'-9"	12'-2"	12'-8"	13'-2"	13'-7"	362T125-68-50
	362T125-97-50	13'-0"	13'-7"	14'-3"	14'-10"	15'-5"	16'-0"	16'-6"	362T125-97-50
0.7	362T125-33-50	5'-10"	6'-2"	6'-5"	6'-8"	7'-0"	7'-3"	7'-6"	362T125-33-50
	362T125-43-50	7'-6"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	9'-7"	362T125-43-50
	362T125-54-50	9'-2"	9'-8"	10'-1"	10'-6"	10'-11"	11'-4"	11'-9"	362T125-54-50
	362T125-68-50	11'-1"	11'-8"	12'-3"	12'-9"	13'-3"	13'-8"	14'-2"	362T125-68-50
	362T125-97-50	13'-6"	14'-2"	14'-10"	15'-6"	16'-1"	16'-8"	17'-3"	362T125-97-50
0.6	362T125-33-50	6'-1"	6'-5"	6'-9"	7'-0"	7'-4"	7'-7"	7'-10"	362T125-33-50
	362T125-43-50	7'-10"	8'-3"	8'-8"	9'-0"	9'-4"	9'-9"	10'-1"	362T125-43-50
	362T125-54-50	9'-8"	10'-1"	10'-7"	11'-0"	11'-6"	11'-10"	12'-3"	362T125-54-50
	362T125-68-50	11'-7"	12'-3"	12'-9"	13'-4"	13'-10"	14'-4"	14'-10"	362T125-68-50
	362T125-97-50	14'-2"	14'-10"	15'-6"	16'-2"	16'-10"	17'-5"	18'-0"	362T125-97-50
0.5	362T125-33-50	6'-5"	6'-9"	7'-1"	7'-5"	7'-8"	8'-0"	8'-3"	362T125-33-50
	362T125-43-50	8'-3"	8'-8"	9'-1"	9'-6"	9'-10"	10'-3"	10'-7"	362T125-43-50
	362T125-54-50	10'-1"	10'-8"	11'-1"	11'-7"	12'-0"	12'-6"	12'-11"	362T125-54-50
	362T125-68-50	12'-3"	12'-10"	13'-5"	14'-0"	14'-6"	15'-1"	15'-7"	362T125-68-50
	362T125-97-50	14'-10"	15'-7"	16'-4"	17'-0"	17'-8"	18'-4"	18'-11"	362T125-97-50
0.4	362T125-33-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-1"	8'-5"	8'-8"	362T125-33-50
	362T125-43-50	8'-9"	9'-2"	9'-7"	10'-0"	10'-5"	10'-9"	11'-2"	362T125-43-50
	362T125-54-50	10'-8"	11'-3"	11'-9"	12'-3"	12'-9"	13'-2"	13'-7"	362T125-54-50
	362T125-68-50	12'-11"	13'-7"	14'-2"	14'-9"	15'-4"	15'-11"	16'-5"	362T125-68-50
	362T125-97-50	15'-8"	16'-6"	17'-3"	17'-11"	18'-8"	19'-4"	20'-0"	362T125-97-50
0.3	362T125-33-50	7'-3"	7'-7"	8'-0"	8'-4"	8'-8"	8'-11"	9'-3"	362T125-33-50
	362T125-43-50	9'-4"	9'-9"	10'-3"	10'-8"	11'-1"	11'-6"	11'-10"	362T125-43-50
	362T125-54-50	11'-4"	11'-11"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	362T125-54-50
	362T125-68-50	13'-9"	14'-5"	15'-1"	15'-8"	16'-4"	16'-11"	17'-6"	362T125-68-50
	362T125-97-50	16'-8"	17'-6"	18'-4"	19'-1"	19'-10"	20'-6"	21'-3"	362T125-97-50
0.2	362T125-33-50	7'-9"	8'-2"	8'-7"	8'-11"	9'-3"	9'-7"	9'-11"	362T125-33-50
	362T125-43-50	10'-0"	10'-6"	10'-11"	11'-5"	11'-10"	12'-3"	12'-8"	362T125-43-50
	362T125-54-50	12'-2"	12'-10"	13'-5"	13'-11"	14'-6"	15'-0"	15'-6"	362T125-54-50
	362T125-68-50	14'-8"	15'-5"	16'-2"	16'-10"	17'-6"	18'-1"	18'-8"	362T125-68-50
	362T125-97-50	17'-10"	18'-9"	19'-7"	20'-5"	21'-3"	22'-0"	22'-9"	362T125-97-50
0.1	362T125-33-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-0"	10'-5"	10'-9"	362T125-33-50
	362T125-43-50	10'-10"	11'-4"	11'-10"	12'-4"	12'-10"	13'-4"	13'-9"	362T125-43-50
	362T125-54-50	13'-2"	13'-10"	14'-6"	15'-1"	15'-8"	16'-3"	16'-9"	362T125-54-50
	362T125-68-50	15'-11"	16'-9"	17'-6"	18'-2"	18'-11"	19'-7"	20'-3"	362T125-68-50
	362T125-97-50	19'-4"	20'-4"	21'-3"	22'-1"	22'-11"	23'-9"	24'-7"	362T125-97-50
0.0	362T125-33-50	9'-1"	9'-6"	9'-11"	10'-4"	10'-9"	11'-2"	11'-6"	362T125-33-50
	362T125-43-50	11'-7"	12'-2"	12'-9"	13'-3"	13'-9"	14'-3"	14'-9"	362T125-43-50
	362T125-54-50	14'-2"	14'-10"	15'-6"	16'-2"	16'-9"	17'-5"	18'-0"	362T125-54-50
	362T125-68-50	17'-1"	17'-11"	18'-9"	19'-6"	20'-3"	21'-0"	21'-8"	362T125-68-50
	362T125-97-50	20'-8"	21'-9"	22'-9"	23'-8"	24'-7"	25'-5"	26'-4"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PCS-0003 By: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.189: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.70 Weight 4400 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	5'-1"	5'-4"	5'-7"	5'-10"	6'-0"	6'-3"	6'-6"	362T125-33-50
	362T125-43-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-9"	8'-1"	8'-4"	362T125-43-50
	362T125-54-50	8'-0"	8'-5"	8'-9"	9'-2"	9'-6"	9'-10"	10'-2"	362T125-54-50
	362T125-68-50	9'-8"	10'-2"	10'-7"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-68-50
	362T125-97-50	11'-9"	12'-4"	12'-11"	13'-6"	14'-0"	14'-6"	15'-0"	362T125-97-50
0.9	362T125-33-50	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	362T125-33-50
	362T125-43-50	6'-9"	7'-1"	7'-5"	7'-9"	8'-1"	8'-4"	8'-8"	362T125-43-50
	362T125-54-50	8'-3"	8'-8"	9'-1"	9'-6"	9'-10"	10'-3"	10'-7"	362T125-54-50
	362T125-68-50	10'-0"	10'-6"	11'-0"	11'-6"	11'-11"	12'-4"	12'-9"	362T125-68-50
	362T125-97-50	12'-2"	12'-10"	13'-5"	13'-11"	14'-6"	15'-0"	15'-6"	362T125-97-50
0.8	362T125-33-50	5'-5"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	362T125-33-50
	362T125-43-50	7'-0"	7'-5"	7'-9"	8'-1"	8'-5"	8'-8"	9'-0"	362T125-43-50
	362T125-54-50	8'-7"	9'-1"	9'-6"	9'-10"	10'-3"	10'-7"	11'-0"	362T125-54-50
	362T125-68-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-5"	12'-10"	13'-3"	362T125-68-50
	362T125-97-50	12'-8"	13'-4"	13'-11"	14'-6"	15'-1"	15'-7"	16'-2"	362T125-97-50
0.7	362T125-33-50	5'-8"	6'-0"	6'-3"	6'-6"	6'-10"	7'-1"	7'-3"	362T125-33-50
	362T125-43-50	7'-4"	7'-8"	8'-1"	8'-5"	8'-9"	9'-1"	9'-4"	362T125-43-50
	362T125-54-50	9'-0"	9'-5"	9'-10"	10'-3"	10'-8"	11'-1"	11'-5"	362T125-54-50
	362T125-68-50	10'-10"	11'-5"	11'-11"	12'-5"	12'-11"	13'-4"	13'-10"	362T125-68-50
	362T125-97-50	13'-2"	13'-10"	14'-6"	15'-1"	15'-8"	16'-3"	16'-10"	362T125-97-50
0.6	362T125-33-50	6'-0"	6'-3"	6'-7"	6'-10"	7'-1"	7'-5"	7'-8"	362T125-33-50
	362T125-43-50	7'-8"	8'-1"	8'-5"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-43-50
	362T125-54-50	9'-5"	9'-10"	10'-4"	10'-9"	11'-2"	11'-7"	12'-0"	362T125-54-50
	362T125-68-50	11'-4"	11'-11"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	362T125-68-50
	362T125-97-50	13'-10"	14'-6"	15'-2"	15'-10"	16'-5"	17'-0"	17'-7"	362T125-97-50
0.5	362T125-33-50	6'-3"	6'-7"	6'-11"	7'-2"	7'-6"	7'-9"	8'-0"	362T125-33-50
	362T125-43-50	8'-1"	8'-6"	8'-11"	9'-3"	9'-7"	10'-0"	10'-4"	362T125-43-50
	362T125-54-50	9'-11"	10'-5"	10'-10"	11'-4"	11'-9"	12'-2"	12'-7"	362T125-54-50
	362T125-68-50	11'-11"	12'-6"	13'-1"	13'-8"	14'-2"	14'-8"	15'-2"	362T125-68-50
	362T125-97-50	14'-6"	15'-3"	15'-11"	16'-7"	17'-3"	17'-10"	18'-6"	362T125-97-50
0.4	362T125-33-50	6'-8"	7'-0"	7'-4"	7'-7"	7'-11"	8'-3"	8'-6"	362T125-33-50
	362T125-43-50	8'-6"	9'-0"	9'-5"	9'-9"	10'-2"	10'-6"	10'-11"	362T125-43-50
	362T125-54-50	10'-5"	11'-0"	11'-6"	11'-11"	12'-5"	12'-10"	13'-4"	362T125-54-50
	362T125-68-50	12'-7"	13'-3"	13'-10"	14'-5"	15'-0"	15'-6"	16'-1"	362T125-68-50
	362T125-97-50	15'-4"	16'-1"	16'-10"	17'-6"	18'-2"	18'-10"	19'-6"	362T125-97-50
0.3	362T125-33-50	7'-1"	7'-5"	7'-9"	8'-1"	8'-5"	8'-9"	9'-0"	362T125-33-50
	362T125-43-50	9'-1"	9'-6"	10'-0"	10'-5"	10'-10"	11'-2"	11'-7"	362T125-43-50
	362T125-54-50	11'-1"	11'-8"	12'-2"	12'-8"	13'-2"	13'-8"	14'-2"	362T125-54-50
	362T125-68-50	13'-5"	14'-1"	14'-8"	15'-4"	15'-11"	16'-6"	17'-1"	362T125-68-50
	362T125-97-50	16'-3"	17'-1"	17'-11"	18'-7"	19'-4"	20'-0"	20'-9"	362T125-97-50
0.2	362T125-33-50	7'-7"	8'-0"	8'-4"	8'-8"	9'-0"	9'-4"	9'-8"	362T125-33-50
	362T125-43-50	9'-9"	10'-3"	10'-8"	11'-2"	11'-7"	12'-0"	12'-5"	362T125-43-50
	362T125-54-50	11'-11"	12'-6"	13'-1"	13'-7"	14'-2"	14'-8"	15'-2"	362T125-54-50
	362T125-68-50	14'-4"	15'-1"	15'-9"	16'-5"	17'-1"	17'-8"	18'-3"	362T125-68-50
	362T125-97-50	17'-5"	18'-4"	19'-2"	19'-11"	20'-9"	21'-5"	22'-2"	362T125-97-50
0.1	362T125-33-50	8'-3"	8'-8"	9'-1"	9'-5"	9'-10"	10'-2"	10'-6"	362T125-33-50
	362T125-43-50	10'-7"	11'-1"	11'-7"	12'-1"	12'-7"	13'-0"	13'-5"	362T125-43-50
	362T125-54-50	12'-11"	13'-6"	14'-2"	14'-9"	15'-4"	15'-10"	16'-5"	362T125-54-50
	362T125-68-50	15'-6"	16'-4"	17'-1"	17'-9"	18'-6"	19'-1"	19'-9"	362T125-68-50
	362T125-97-50	18'-11"	19'-10"	20'-9"	21'-7"	22'-5"	23'-3"	24'-0"	362T125-97-50
0.0	362T125-33-50	8'-10"	9'-3"	9'-8"	10'-1"	10'-6"	10'-11"	11'-3"	362T125-33-50
	362T125-43-50	11'-4"	11'-10"	12'-5"	12'-11"	13'-5"	13'-11"	14'-5"	362T125-43-50
	362T125-54-50	13'-10"	14'-6"	15'-2"	15'-9"	16'-5"	17'-0"	17'-7"	362T125-54-50
	362T125-68-50	16'-8"	17'-6"	18'-3"	19'-0"	19'-9"	20'-6"	21'-2"	362T125-68-50
	362T125-97-50	20'-3"	21'-3"	22'-2"	23'-1"	24'-0"	24'-10"	25'-8"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PCS-0003 By Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.190: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.70 Weight 4600 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	4'-11"	5'-2"	5'-5"	5'-8"	5'-11"	6'-1"	6'-4"	362T125-33-50
	362T125-43-50	6'-4"	6'-8"	7'-0"	7'-4"	7'-7"	7'-10"	8'-2"	362T125-43-50
	362T125-54-50	7'-10"	8'-2"	8'-7"	8'-11"	9'-3"	9'-8"	9'-11"	362T125-54-50
	362T125-68-50	9'-5"	9'-11"	10'-4"	10'-10"	11'-3"	11'-8"	12'-0"	362T125-68-50
	362T125-97-50	11'-6"	12'-1"	12'-7"	13'-2"	13'-8"	14'-2"	14'-8"	362T125-97-50
0.9	362T125-33-50	5'-1"	5'-5"	5'-8"	5'-11"	6'-1"	6'-4"	6'-7"	362T125-33-50
	362T125-43-50	6'-7"	6'-11"	7'-3"	7'-7"	7'-10"	8'-2"	8'-5"	362T125-43-50
	362T125-54-50	8'-1"	8'-6"	8'-11"	9'-3"	9'-8"	10'-0"	10'-4"	362T125-54-50
	362T125-68-50	9'-9"	10'-3"	10'-9"	11'-2"	11'-8"	12'-1"	12'-6"	362T125-68-50
	362T125-97-50	11'-11"	12'-6"	13'-1"	13'-8"	14'-2"	14'-8"	15'-2"	362T125-97-50
0.8	362T125-33-50	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	362T125-33-50
	362T125-43-50	6'-10"	7'-3"	7'-7"	7'-10"	8'-2"	8'-6"	8'-9"	362T125-43-50
	362T125-54-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-0"	10'-5"	10'-9"	362T125-54-50
	362T125-68-50	10'-2"	10'-8"	11'-2"	11'-8"	12'-1"	12'-6"	13'-0"	362T125-68-50
	362T125-97-50	12'-4"	13'-0"	13'-7"	14'-2"	14'-9"	15'-3"	15'-9"	362T125-97-50
0.7	362T125-33-50	5'-7"	5'-10"	6'-1"	6'-5"	6'-8"	6'-11"	7'-1"	362T125-33-50
	362T125-43-50	7'-2"	7'-6"	7'-11"	8'-3"	8'-6"	8'-10"	9'-2"	362T125-43-50
	362T125-54-50	8'-9"	9'-3"	9'-8"	10'-1"	10'-5"	10'-10"	11'-2"	362T125-54-50
	362T125-68-50	10'-7"	11'-2"	11'-8"	12'-2"	12'-7"	13'-1"	13'-6"	362T125-68-50
	362T125-97-50	12'-11"	13'-7"	14'-2"	14'-9"	15'-4"	15'-11"	16'-5"	362T125-97-50
0.6	362T125-33-50	5'-10"	6'-2"	6'-5"	6'-8"	6'-11"	7'-3"	7'-5"	362T125-33-50
	362T125-43-50	7'-6"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	9'-7"	362T125-43-50
	362T125-54-50	9'-2"	9'-8"	10'-1"	10'-6"	10'-11"	11'-4"	11'-9"	362T125-54-50
	362T125-68-50	11'-1"	11'-8"	12'-2"	12'-8"	13'-2"	13'-8"	14'-2"	362T125-68-50
	362T125-97-50	13'-6"	14'-2"	14'-10"	15'-5"	16'-1"	16'-8"	17'-2"	362T125-97-50
0.5	362T125-33-50	6'-2"	6'-5"	6'-9"	7'-0"	7'-4"	7'-7"	7'-10"	362T125-33-50
	362T125-43-50	7'-11"	8'-3"	8'-8"	9'-0"	9'-5"	9'-9"	10'-1"	362T125-43-50
	362T125-54-50	9'-8"	10'-2"	10'-7"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-54-50
	362T125-68-50	11'-8"	12'-3"	12'-10"	13'-4"	13'-10"	14'-4"	14'-10"	362T125-68-50
	362T125-97-50	14'-2"	14'-11"	15'-7"	16'-3"	16'-10"	17'-6"	18'-1"	362T125-97-50
0.4	362T125-33-50	6'-6"	6'-10"	7'-2"	7'-5"	7'-9"	8'-0"	8'-4"	362T125-33-50
	362T125-43-50	8'-4"	8'-9"	9'-2"	9'-7"	9'-11"	10'-3"	10'-8"	362T125-43-50
	362T125-54-50	10'-2"	10'-9"	11'-2"	11'-8"	12'-2"	12'-7"	13'-0"	362T125-54-50
	362T125-68-50	12'-4"	12'-11"	13'-6"	14'-1"	14'-8"	15'-2"	15'-8"	362T125-68-50
	362T125-97-50	15'-0"	15'-9"	16'-5"	17'-2"	17'-10"	18'-5"	19'-1"	362T125-97-50
0.3	362T125-33-50	6'-11"	7'-3"	7'-7"	7'-11"	8'-3"	8'-6"	8'-10"	362T125-33-50
	362T125-43-50	8'-10"	9'-4"	9'-9"	10'-2"	10'-7"	10'-11"	11'-4"	362T125-43-50
	362T125-54-50	10'-10"	11'-5"	11'-11"	12'-5"	12'-11"	13'-4"	13'-10"	362T125-54-50
	362T125-68-50	13'-1"	13'-9"	14'-4"	15'-0"	15'-7"	16'-1"	16'-8"	362T125-68-50
	362T125-97-50	15'-11"	16'-9"	17'-6"	18'-2"	18'-11"	19'-7"	20'-3"	362T125-97-50
0.2	362T125-33-50	7'-5"	7'-9"	8'-2"	8'-6"	8'-10"	9'-2"	9'-6"	362T125-33-50
	362T125-43-50	9'-6"	10'-0"	10'-5"	10'-11"	11'-4"	11'-9"	12'-1"	362T125-43-50
	362T125-54-50	11'-7"	12'-2"	12'-9"	13'-4"	13'-10"	14'-4"	14'-10"	362T125-54-50
	362T125-68-50	14'-0"	14'-9"	15'-5"	16'-1"	16'-8"	17'-3"	17'-10"	362T125-68-50
	362T125-97-50	17'-1"	17'-11"	18'-9"	19'-6"	20'-3"	21'-0"	21'-8"	362T125-97-50
0.1	362T125-33-50	8'-0"	8'-5"	8'-10"	9'-3"	9'-7"	9'-11"	10'-3"	362T125-33-50
	362T125-43-50	10'-4"	10'-10"	11'-4"	11'-10"	12'-3"	12'-8"	13'-2"	362T125-43-50
	362T125-54-50	12'-7"	13'-3"	13'-10"	14'-5"	15'-0"	15'-6"	16'-0"	362T125-54-50
	362T125-68-50	15'-2"	15'-11"	16'-8"	17'-4"	18'-1"	18'-8"	19'-4"	362T125-68-50
	362T125-97-50	18'-5"	19'-4"	20'-3"	21'-1"	21'-11"	22'-8"	23'-5"	362T125-97-50
0.0	362T125-33-50	8'-7"	9'-1"	9'-6"	9'-11"	10'-3"	10'-8"	11'-0"	362T125-33-50
	362T125-43-50	11'-1"	11'-7"	12'-2"	12'-8"	13'-2"	13'-7"	14'-1"	362T125-43-50
	362T125-54-50	13'-6"	14'-2"	14'-10"	15'-5"	16'-0"	16'-7"	17'-2"	362T125-54-50
	362T125-68-50	16'-3"	17'-1"	17'-10"	18'-7"	19'-4"	20'-0"	20'-8"	362T125-68-50
	362T125-97-50	19'-9"	20'-9"	21'-8"	22'-7"	23'-6"	24'-4"	25'-1"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PCS-0003 By: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.191: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.70 Weight 4800 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	4'-10"	5'-1"	5'-4"	5'-6"	5'-9"	6'-0"	6'-2"	362T125-33-50
	362T125-43-50	6'-3"	6'-6"	6'-10"	7'-2"	7'-5"	7'-8"	7'-11"	362T125-43-50
	362T125-54-50	7'-7"	8'-0"	8'-5"	8'-9"	9'-1"	9'-5"	9'-9"	362T125-54-50
	362T125-68-50	9'-3"	9'-8"	10'-2"	10'-7"	11'-0"	11'-5"	11'-9"	362T125-68-50
	362T125-97-50	11'-3"	11'-10"	12'-4"	12'-10"	13'-4"	13'-10"	14'-4"	362T125-97-50
0.9	362T125-33-50	5'-0"	5'-3"	5'-6"	5'-9"	6'-0"	6'-2"	6'-5"	362T125-33-50
	362T125-43-50	6'-5"	6'-9"	7'-1"	7'-5"	7'-8"	8'-0"	8'-3"	362T125-43-50
	362T125-54-50	7'-11"	8'-4"	8'-8"	9'-1"	9'-5"	9'-9"	10'-1"	362T125-54-50
	362T125-68-50	9'-7"	10'-0"	10'-6"	10'-11"	11'-5"	11'-10"	12'-2"	362T125-68-50
	362T125-97-50	11'-8"	12'-3"	12'-10"	13'-4"	13'-10"	14'-4"	14'-10"	362T125-97-50
0.8	362T125-33-50	5'-2"	5'-6"	5'-9"	6'-0"	6'-3"	6'-5"	6'-8"	362T125-33-50
	362T125-43-50	6'-9"	7'-1"	7'-5"	7'-8"	8'-0"	8'-4"	8'-7"	362T125-43-50
	362T125-54-50	8'-3"	8'-8"	9'-0"	9'-5"	9'-10"	10'-2"	10'-6"	362T125-54-50
	362T125-68-50	9'-11"	10'-5"	10'-11"	11'-5"	11'-10"	12'-3"	12'-8"	362T125-68-50
	362T125-97-50	12'-1"	12'-9"	13'-4"	13'-10"	14'-5"	14'-11"	15'-5"	362T125-97-50
0.7	362T125-33-50	5'-5"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	6'-11"	362T125-33-50
	362T125-43-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	8'-11"	362T125-43-50
	362T125-54-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-3"	10'-7"	10'-11"	362T125-54-50
	362T125-68-50	10'-4"	10'-11"	11'-5"	11'-10"	12'-4"	12'-9"	13'-3"	362T125-68-50
	362T125-97-50	12'-7"	13'-3"	13'-10"	14'-5"	15'-0"	15'-7"	16'-1"	362T125-97-50
0.6	362T125-33-50	5'-8"	6'-0"	6'-3"	6'-6"	6'-10"	7'-1"	7'-3"	362T125-33-50
	362T125-43-50	7'-4"	7'-8"	8'-1"	8'-5"	8'-9"	9'-1"	9'-4"	362T125-43-50
	362T125-54-50	9'-0"	9'-5"	9'-10"	10'-3"	10'-8"	11'-1"	11'-5"	362T125-54-50
	362T125-68-50	10'-10"	11'-5"	11'-11"	12'-5"	12'-11"	13'-4"	13'-10"	362T125-68-50
	362T125-97-50	13'-2"	13'-10"	14'-6"	15'-1"	15'-8"	16'-3"	16'-10"	362T125-97-50
0.5	362T125-33-50	6'-0"	6'-4"	6'-7"	6'-11"	7'-2"	7'-5"	7'-8"	362T125-33-50
	362T125-43-50	7'-9"	8'-1"	8'-6"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-43-50
	362T125-54-50	9'-5"	9'-11"	10'-4"	10'-10"	11'-3"	11'-8"	12'-0"	362T125-54-50
	362T125-68-50	11'-5"	12'-0"	12'-6"	13'-1"	13'-7"	14'-1"	14'-6"	362T125-68-50
	362T125-97-50	13'-10"	14'-7"	15'-3"	15'-10"	16'-6"	17'-1"	17'-8"	362T125-97-50
0.4	362T125-33-50	6'-4"	6'-8"	7'-0"	7'-3"	7'-7"	7'-10"	8'-1"	362T125-33-50
	362T125-43-50	8'-2"	8'-7"	9'-0"	9'-4"	9'-9"	10'-1"	10'-5"	362T125-43-50
	362T125-54-50	10'-0"	10'-6"	10'-11"	11'-5"	11'-10"	12'-4"	12'-9"	362T125-54-50
	362T125-68-50	12'-0"	12'-8"	13'-3"	13'-9"	14'-4"	14'-10"	15'-4"	362T125-68-50
	362T125-97-50	14'-8"	15'-5"	16'-1"	16'-9"	17'-5"	18'-0"	18'-8"	362T125-97-50
0.3	362T125-33-50	6'-9"	7'-1"	7'-5"	7'-9"	8'-1"	8'-4"	8'-8"	362T125-33-50
	362T125-43-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-8"	11'-1"	362T125-43-50
	362T125-54-50	10'-7"	11'-2"	11'-8"	12'-2"	12'-7"	13'-1"	13'-6"	362T125-54-50
	362T125-68-50	12'-10"	13'-5"	14'-1"	14'-8"	15'-3"	15'-9"	16'-4"	362T125-68-50
	362T125-97-50	15'-7"	16'-4"	17'-1"	17'-10"	18'-6"	19'-2"	19'-10"	362T125-97-50
0.2	362T125-33-50	7'-3"	7'-7"	8'-0"	8'-4"	8'-8"	8'-11"	9'-3"	362T125-33-50
	362T125-43-50	9'-4"	9'-9"	10'-3"	10'-8"	11'-1"	11'-6"	11'-10"	362T125-43-50
	362T125-54-50	11'-4"	11'-11"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	362T125-54-50
	362T125-68-50	13'-9"	14'-5"	15'-1"	15'-8"	16'-4"	16'-11"	17'-6"	362T125-68-50
	362T125-97-50	16'-8"	17'-6"	18'-4"	19'-1"	19'-10"	20'-6"	21'-3"	362T125-97-50
0.1	362T125-33-50	7'-10"	8'-3"	8'-8"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-33-50
	362T125-43-50	10'-1"	10'-7"	11'-1"	11'-6"	12'-0"	12'-5"	12'-10"	362T125-43-50
	362T125-54-50	12'-4"	12'-11"	13'-6"	14'-1"	14'-8"	15'-2"	15'-8"	362T125-54-50
	362T125-68-50	14'-10"	15'-7"	16'-4"	17'-0"	17'-8"	18'-3"	18'-11"	362T125-68-50
	362T125-97-50	18'-1"	18'-11"	19'-10"	20'-8"	21'-5"	22'-3"	22'-11"	362T125-97-50
0.0	362T125-33-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-0"	10'-5"	10'-9"	362T125-33-50
	362T125-43-50	10'-10"	11'-4"	11'-10"	12'-4"	12'-10"	13'-4"	13'-9"	362T125-43-50
	362T125-54-50	13'-2"	13'-10"	14'-6"	15'-1"	15'-8"	16'-3"	16'-9"	362T125-54-50
	362T125-68-50	15'-11"	16'-9"	17'-6"	18'-2"	18'-11"	19'-7"	20'-3"	362T125-68-50
	362T125-97-50	19'-4"	20'-4"	21'-3"	22'-1"	22'-11"	23'-9"	24'-7"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PCS-0003 By Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.192: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 0.70 Weight 5000 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	4'-8"	4'-11"	5'-2"	5'-5"	5'-8"	5'-10"	6'-0"	362T125-33-50
	362T125-43-50	6'-1"	6'-5"	6'-8"	7'-0"	7'-3"	7'-6"	7'-9"	362T125-43-50
	362T125-54-50	7'-5"	7'-10"	8'-2"	8'-7"	8'-11"	9'-3"	9'-6"	362T125-54-50
	362T125-68-50	9'-0"	9'-6"	9'-11"	10'-4"	10'-9"	11'-2"	11'-6"	362T125-68-50
	362T125-97-50	11'-0"	11'-7"	12'-1"	12'-7"	13'-1"	13'-7"	14'-0"	362T125-97-50
0.9	362T125-33-50	4'-11"	5'-2"	5'-5"	5'-7"	5'-10"	6'-1"	6'-3"	362T125-33-50
	362T125-43-50	6'-4"	6'-8"	6'-11"	7'-3"	7'-6"	7'-10"	8'-1"	362T125-43-50
	362T125-54-50	7'-9"	8'-2"	8'-6"	8'-10"	9'-3"	9'-7"	9'-11"	362T125-54-50
	362T125-68-50	9'-4"	9'-10"	10'-3"	10'-9"	11'-2"	11'-7"	11'-11"	362T125-68-50
	362T125-97-50	11'-5"	12'-0"	12'-6"	13'-1"	13'-7"	14'-1"	14'-6"	362T125-97-50
0.8	362T125-33-50	5'-1"	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-6"	362T125-33-50
	362T125-43-50	6'-7"	6'-11"	7'-3"	7'-6"	7'-10"	8'-1"	8'-5"	362T125-43-50
	362T125-54-50	8'-1"	8'-5"	8'-10"	9'-3"	9'-7"	9'-11"	10'-3"	362T125-54-50
	362T125-68-50	9'-9"	10'-3"	10'-8"	11'-2"	11'-7"	12'-0"	12'-5"	362T125-68-50
	362T125-97-50	11'-10"	12'-5"	13'-0"	13'-7"	14'-1"	14'-7"	15'-1"	362T125-97-50
0.7	362T125-33-50	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	362T125-33-50
	362T125-43-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-2"	8'-6"	8'-9"	362T125-43-50
	362T125-54-50	8'-5"	8'-10"	9'-3"	9'-7"	10'-0"	10'-4"	10'-9"	362T125-54-50
	362T125-68-50	10'-2"	10'-8"	11'-2"	11'-7"	12'-1"	12'-6"	12'-11"	362T125-68-50
	362T125-97-50	12'-4"	13'-0"	13'-7"	14'-2"	14'-8"	15'-3"	15'-9"	362T125-97-50
0.6	362T125-33-50	5'-7"	5'-10"	6'-2"	6'-5"	6'-8"	6'-11"	7'-2"	362T125-33-50
	362T125-43-50	7'-2"	7'-7"	7'-11"	8'-3"	8'-7"	8'-10"	9'-2"	362T125-43-50
	362T125-54-50	8'-9"	9'-3"	9'-8"	10'-1"	10'-6"	10'-10"	11'-3"	362T125-54-50
	362T125-68-50	10'-7"	11'-2"	11'-8"	12'-2"	12'-8"	13'-1"	13'-6"	362T125-68-50
	362T125-97-50	12'-11"	13'-7"	14'-2"	14'-10"	15'-4"	15'-11"	16'-6"	362T125-97-50
0.5	362T125-33-50	5'-10"	6'-2"	6'-5"	6'-9"	7'-0"	7'-3"	7'-6"	362T125-33-50
	362T125-43-50	7'-7"	7'-11"	8'-4"	8'-8"	9'-0"	9'-4"	9'-8"	362T125-43-50
	362T125-54-50	9'-3"	9'-8"	10'-2"	10'-7"	11'-0"	11'-5"	11'-9"	362T125-54-50
	362T125-68-50	11'-2"	11'-9"	12'-3"	12'-9"	13'-3"	13'-9"	14'-3"	362T125-68-50
	362T125-97-50	13'-7"	14'-3"	14'-11"	15'-7"	16'-2"	16'-9"	17'-3"	362T125-97-50
0.4	362T125-33-50	6'-2"	6'-6"	6'-10"	7'-1"	7'-5"	7'-8"	7'-11"	362T125-33-50
	362T125-43-50	8'-0"	8'-5"	8'-9"	9'-2"	9'-6"	9'-10"	10'-2"	362T125-43-50
	362T125-54-50	9'-9"	10'-3"	10'-9"	11'-2"	11'-7"	12'-0"	12'-5"	362T125-54-50
	362T125-68-50	11'-9"	12'-5"	12'-11"	13'-6"	14'-0"	14'-6"	15'-0"	362T125-68-50
	362T125-97-50	14'-4"	15'-1"	15'-9"	16'-5"	17'-1"	17'-8"	18'-3"	362T125-97-50
0.3	362T125-33-50	6'-7"	6'-11"	7'-3"	7'-7"	7'-11"	8'-2"	8'-5"	362T125-33-50
	362T125-43-50	8'-6"	8'-11"	9'-4"	9'-9"	10'-1"	10'-6"	10'-10"	362T125-43-50
	362T125-54-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-4"	12'-10"	13'-3"	362T125-54-50
	362T125-68-50	12'-6"	13'-2"	13'-9"	14'-4"	14'-11"	15'-5"	16'-0"	362T125-68-50
	362T125-97-50	15'-3"	16'-0"	16'-9"	17'-5"	18'-1"	18'-9"	19'-5"	362T125-97-50
0.2	362T125-33-50	7'-1"	7'-5"	7'-10"	8'-2"	8'-5"	8'-9"	9'-1"	362T125-33-50
	362T125-43-50	9'-1"	9'-7"	10'-0"	10'-5"	10'-10"	11'-3"	11'-7"	362T125-43-50
	362T125-54-50	11'-2"	11'-8"	12'-3"	12'-9"	13'-3"	13'-9"	14'-2"	362T125-54-50
	362T125-68-50	13'-5"	14'-1"	14'-9"	15'-4"	16'-0"	16'-6"	17'-1"	362T125-68-50
	362T125-97-50	16'-4"	17'-2"	17'-11"	18'-8"	19'-5"	20'-1"	20'-9"	362T125-97-50
0.1	362T125-33-50	7'-8"	8'-1"	8'-6"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-33-50
	362T125-43-50	9'-10"	10'-4"	10'-10"	11'-4"	11'-9"	12'-2"	12'-7"	362T125-43-50
	362T125-54-50	12'-1"	12'-8"	13'-3"	13'-10"	14'-4"	14'-10"	15'-4"	362T125-54-50
	362T125-68-50	14'-7"	15'-3"	16'-0"	16'-8"	17'-3"	17'-11"	18'-6"	362T125-68-50
	362T125-97-50	17'-8"	18'-7"	19'-5"	20'-3"	21'-0"	21'-9"	22'-6"	362T125-97-50
0.0	362T125-33-50	8'-3"	8'-8"	9'-1"	9'-6"	9'-10"	10'-2"	10'-6"	362T125-33-50
	362T125-43-50	10'-7"	11'-1"	11'-7"	12'-1"	12'-7"	13'-0"	13'-6"	362T125-43-50
	362T125-54-50	12'-11"	13'-7"	14'-2"	14'-9"	15'-4"	15'-11"	16'-5"	362T125-54-50
	362T125-68-50	15'-7"	16'-4"	17'-1"	17'-10"	18'-6"	19'-2"	19'-10"	362T125-68-50
	362T125-97-50	18'-11"	19'-11"	20'-9"	21'-8"	22'-6"	23'-3"	24'-1"	362T125-97-50

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TABLE 4.7.4.193: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.00 Weight 2000 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	6'-4"	6'-8"	7'-0"	7'-4"	7'-7"	7'-10"	8'-2"	362T125-33-50
	362T125-43-50	8'-2"	8'-7"	9'-0"	9'-5"	9'-9"	10'-1"	10'-5"	362T125-43-50
	362T125-54-50	10'-0"	10'-6"	11'-0"	11'-6"	11'-11"	12'-4"	12'-9"	362T125-54-50
	362T125-68-50	12'-1"	12'-8"	13'-3"	13'-10"	14'-5"	14'-11"	15'-5"	362T125-68-50
	362T125-97-50	14'-8"	15'-5"	16'-2"	16'-10"	17'-6"	18'-1"	18'-9"	362T125-97-50
0.9	362T125-33-50	6'-7"	6'-11"	7'-3"	7'-7"	7'-11"	8'-2"	8'-5"	362T125-33-50
	362T125-43-50	8'-6"	8'-11"	9'-4"	9'-9"	10'-1"	10'-6"	10'-10"	362T125-43-50
	362T125-54-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-4"	12'-10"	13'-3"	362T125-54-50
	362T125-68-50	12'-6"	13'-2"	13'-9"	14'-4"	14'-11"	15'-5"	16'-0"	362T125-68-50
	362T125-97-50	15'-3"	16'-0"	16'-9"	17'-5"	18'-1"	18'-9"	19'-5"	362T125-97-50
0.8	362T125-33-50	6'-10"	7'-3"	7'-7"	7'-11"	8'-2"	8'-6"	8'-9"	362T125-33-50
	362T125-43-50	8'-10"	9'-3"	9'-8"	10'-1"	10'-6"	10'-11"	11'-3"	362T125-43-50
	362T125-54-50	10'-9"	11'-4"	11'-10"	12'-4"	12'-10"	13'-4"	13'-9"	362T125-54-50
	362T125-68-50	13'-0"	13'-8"	14'-4"	14'-11"	15'-6"	16'-1"	16'-7"	362T125-68-50
	362T125-97-50	15'-10"	16'-8"	17'-5"	18'-1"	18'-10"	19'-6"	20'-2"	362T125-97-50
0.7	362T125-33-50	7'-2"	7'-6"	7'-11"	8'-3"	8'-7"	8'-10"	9'-2"	362T125-33-50
	362T125-43-50	9'-2"	9'-8"	10'-1"	10'-7"	10'-11"	11'-4"	11'-9"	362T125-43-50
	362T125-54-50	11'-3"	11'-10"	12'-4"	12'-11"	13'-5"	13'-10"	14'-4"	362T125-54-50
	362T125-68-50	13'-7"	14'-3"	14'-11"	15'-6"	16'-2"	16'-9"	17'-3"	362T125-68-50
	362T125-97-50	16'-6"	17'-4"	18'-1"	18'-11"	19'-7"	20'-4"	21'-0"	362T125-97-50
0.6	362T125-33-50	7'-6"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	9'-7"	362T125-33-50
	362T125-43-50	9'-8"	10'-1"	10'-7"	11'-0"	11'-5"	11'-10"	12'-3"	362T125-43-50
	362T125-54-50	11'-9"	12'-4"	12'-11"	13'-6"	14'-0"	14'-6"	15'-0"	362T125-54-50
	362T125-68-50	14'-2"	14'-11"	15'-7"	16'-3"	16'-11"	17'-6"	18'-1"	362T125-68-50
	362T125-97-50	17'-3"	18'-1"	18'-11"	19'-9"	20'-6"	21'-3"	21'-11"	362T125-97-50
0.5	362T125-33-50	7'-11"	8'-4"	8'-8"	9'-1"	9'-5"	9'-9"	10'-1"	362T125-33-50
	362T125-43-50	10'-1"	10'-8"	11'-1"	11'-7"	12'-0"	12'-6"	12'-11"	362T125-43-50
	362T125-54-50	12'-4"	13'-0"	13'-7"	14'-2"	14'-8"	15'-3"	15'-9"	362T125-54-50
	362T125-68-50	14'-11"	15'-8"	16'-5"	17'-1"	17'-9"	18'-4"	19'-0"	362T125-68-50
	362T125-97-50	18'-1"	19'-0"	19'-11"	20'-9"	21'-6"	22'-4"	23'-1"	362T125-97-50
0.4	362T125-33-50	8'-4"	8'-9"	9'-2"	9'-7"	9'-11"	10'-4"	10'-8"	362T125-33-50
	362T125-43-50	10'-8"	11'-3"	11'-9"	12'-3"	12'-9"	13'-2"	13'-7"	362T125-43-50
	362T125-54-50	13'-1"	13'-9"	14'-4"	14'-11"	15'-6"	16'-1"	16'-7"	362T125-54-50
	362T125-68-50	15'-9"	16'-6"	17'-3"	18'-0"	18'-9"	19'-5"	20'-0"	362T125-68-50
	362T125-97-50	19'-2"	20'-1"	21'-0"	21'-11"	22'-9"	23'-6"	24'-4"	362T125-97-50
0.3	362T125-33-50	8'-11"	9'-4"	9'-9"	10'-2"	10'-7"	10'-11"	11'-4"	362T125-33-50
	362T125-43-50	11'-4"	11'-11"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	362T125-43-50
	362T125-54-50	13'-10"	14'-7"	15'-3"	15'-10"	16'-6"	17'-1"	17'-8"	362T125-54-50
	362T125-68-50	16'-9"	17'-7"	18'-4"	19'-2"	19'-11"	20'-7"	21'-3"	362T125-68-50
	362T125-97-50	20'-4"	21'-4"	22'-4"	23'-3"	24'-2"	25'-0"	25'-10"	362T125-97-50
0.2	362T125-33-50	9'-6"	10'-0"	10'-6"	10'-11"	11'-4"	11'-9"	12'-2"	362T125-33-50
	362T125-43-50	12'-2"	12'-9"	13'-4"	13'-11"	14'-6"	15'-0"	15'-6"	362T125-43-50
	362T125-54-50	14'-10"	15'-7"	16'-4"	17'-0"	17'-8"	18'-3"	18'-11"	362T125-54-50
	362T125-68-50	17'-11"	18'-10"	19'-8"	20'-6"	21'-3"	22'-1"	22'-9"	362T125-68-50
	362T125-97-50	21'-9"	22'-10"	23'-11"	24'-10"	25'-10"	26'-9"	27'-8"	362T125-97-50
0.1	362T125-33-50	10'-4"	10'-10"	11'-4"	11'-10"	12'-3"	12'-8"	13'-2"	362T125-33-50
	362T125-43-50	13'-2"	13'-10"	14'-6"	15'-1"	15'-8"	16'-3"	16'-9"	362T125-43-50
	362T125-54-50	16'-1"	16'-11"	17'-8"	18'-5"	19'-1"	19'-9"	20'-5"	362T125-54-50
	362T125-68-50	19'-5"	20'-4"	21'-4"	22'-2"	23'-0"	23'-10"	24'-8"	362T125-68-50
	362T125-97-50	23'-7"	24'-9"	25'-10"	26'-11"	27'-11"	28'-11"	29'-11"	362T125-97-50
0.0	362T125-33-50	11'-1"	11'-7"	12'-2"	12'-8"	13'-2"	13'-7"	14'-1"	362T125-33-50
	362T125-43-50	14'-1"	14'-10"	15'-6"	16'-2"	16'-9"	17'-5"	18'-0"	362T125-43-50
	362T125-54-50	17'-3"	18'-1"	18'-11"	19'-8"	20'-5"	21'-2"	21'-11"	362T125-54-50
	362T125-68-50	20'-9"	21'-9"	22'-9"	23'-9"	24'-8"	25'-6"	26'-5"	362T125-68-50
	362T125-97-50	25'-2"	26'-6"	27'-8"	28'-9"	29'-11"	31'-0"	32'-0"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PCS-0003 By: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.194: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.00 Weight 2200 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	6'-1"	6'-4"	6'-8"	6'-11"	7'-3"	7'-6"	7'-9"	362T125-33-50
	362T125-43-50	7'-9"	8'-2"	8'-7"	8'-11"	9'-3"	9'-7"	9'-11"	362T125-43-50
	362T125-54-50	9'-6"	10'-0"	10'-6"	10'-11"	11'-4"	11'-9"	12'-2"	362T125-54-50
	362T125-68-50	11'-6"	12'-1"	12'-8"	13'-2"	13'-8"	14'-2"	14'-8"	362T125-68-50
	362T125-97-50	14'-0"	14'-8"	15'-5"	16'-0"	16'-8"	17'-3"	17'-10"	362T125-97-50
0.9	362T125-33-50	6'-3"	6'-7"	6'-11"	7'-2"	7'-6"	7'-9"	8'-0"	362T125-33-50
	362T125-43-50	8'-1"	8'-6"	8'-11"	9'-3"	9'-7"	10'-0"	10'-4"	362T125-43-50
	362T125-54-50	9'-11"	10'-5"	10'-10"	11'-4"	11'-9"	12'-2"	12'-7"	362T125-54-50
	362T125-68-50	11'-11"	12'-6"	13'-1"	13'-8"	14'-2"	14'-8"	15'-2"	362T125-68-50
	362T125-97-50	14'-6"	15'-3"	15'-11"	16'-7"	17'-3"	17'-10"	18'-6"	362T125-97-50
0.8	362T125-33-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-9"	8'-1"	8'-4"	362T125-33-50
	362T125-43-50	8'-5"	8'-10"	9'-3"	9'-7"	10'-0"	10'-4"	10'-9"	362T125-43-50
	362T125-54-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-3"	12'-8"	13'-1"	362T125-54-50
	362T125-68-50	12'-5"	13'-0"	13'-7"	14'-2"	14'-9"	15'-3"	15'-9"	362T125-68-50
	362T125-97-50	15'-1"	15'-10"	16'-7"	17'-3"	17'-11"	18'-7"	19'-2"	362T125-97-50
0.7	362T125-33-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-2"	8'-5"	8'-8"	362T125-33-50
	362T125-43-50	8'-9"	9'-2"	9'-7"	10'-0"	10'-5"	10'-10"	11'-2"	362T125-43-50
	362T125-54-50	10'-8"	11'-3"	11'-9"	12'-3"	12'-9"	13'-2"	13'-8"	362T125-54-50
	362T125-68-50	12'-11"	13'-7"	14'-2"	14'-9"	15'-4"	15'-11"	16'-5"	362T125-68-50
	362T125-97-50	15'-9"	16'-6"	17'-3"	18'-0"	18'-8"	19'-4"	20'-0"	362T125-97-50
0.6	362T125-33-50	7'-2"	7'-6"	7'-10"	8'-2"	8'-6"	8'-10"	9'-1"	362T125-33-50
	362T125-43-50	9'-2"	9'-8"	10'-1"	10'-6"	10'-11"	11'-4"	11'-8"	362T125-43-50
	362T125-54-50	11'-2"	11'-9"	12'-4"	12'-10"	13'-4"	13'-10"	14'-3"	362T125-54-50
	362T125-68-50	13'-6"	14'-2"	14'-10"	15'-6"	16'-1"	16'-8"	17'-2"	362T125-68-50
	362T125-97-50	16'-5"	17'-3"	18'-1"	18'-10"	19'-6"	20'-3"	20'-11"	362T125-97-50
0.5	362T125-33-50	7'-6"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	9'-7"	362T125-33-50
	362T125-43-50	9'-8"	10'-1"	10'-7"	11'-0"	11'-5"	11'-10"	12'-3"	362T125-43-50
	362T125-54-50	11'-9"	12'-4"	12'-11"	13'-6"	14'-0"	14'-6"	15'-0"	362T125-54-50
	362T125-68-50	14'-2"	14'-11"	15'-7"	16'-3"	16'-11"	17'-6"	18'-1"	362T125-68-50
	362T125-97-50	17'-3"	18'-1"	18'-11"	19'-9"	20'-6"	21'-3"	21'-11"	362T125-97-50
0.4	362T125-33-50	7'-11"	8'-4"	8'-9"	9'-1"	9'-5"	9'-10"	10'-2"	362T125-33-50
	362T125-43-50	10'-2"	10'-8"	11'-2"	11'-8"	12'-1"	12'-6"	13'-0"	362T125-43-50
	362T125-54-50	12'-5"	13'-1"	13'-8"	14'-3"	14'-9"	15'-4"	15'-10"	362T125-54-50
	362T125-68-50	15'-0"	15'-9"	16'-6"	17'-2"	17'-10"	18'-5"	19'-1"	362T125-68-50
	362T125-97-50	18'-3"	19'-2"	20'-0"	20'-10"	21'-8"	22'-5"	23'-2"	362T125-97-50
0.3	362T125-33-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-1"	10'-5"	10'-9"	362T125-33-50
	362T125-43-50	10'-10"	11'-4"	11'-11"	12'-5"	12'-10"	13'-4"	13'-9"	362T125-43-50
	362T125-54-50	13'-2"	13'-11"	14'-6"	15'-1"	15'-8"	16'-3"	16'-10"	362T125-54-50
	362T125-68-50	15'-11"	16'-9"	17'-6"	18'-3"	18'-11"	19'-7"	20'-3"	362T125-68-50
	362T125-97-50	19'-4"	20'-4"	21'-3"	22'-2"	23'-0"	23'-10"	24'-7"	362T125-97-50
0.2	362T125-33-50	9'-1"	9'-6"	9'-11"	10'-4"	10'-9"	11'-2"	11'-7"	362T125-33-50
	362T125-43-50	11'-7"	12'-2"	12'-9"	13'-3"	13'-9"	14'-3"	14'-9"	362T125-43-50
	362T125-54-50	14'-2"	14'-10"	15'-6"	16'-2"	16'-10"	17'-5"	18'-0"	362T125-54-50
	362T125-68-50	17'-1"	17'-11"	18'-9"	19'-6"	20'-3"	21'-0"	21'-8"	362T125-68-50
	362T125-97-50	20'-9"	21'-9"	22'-9"	23'-8"	24'-7"	25'-6"	26'-4"	362T125-97-50
0.1	362T125-33-50	9'-10"	10'-4"	10'-9"	11'-3"	11'-8"	12'-1"	12'-6"	362T125-33-50
	362T125-43-50	12'-7"	13'-2"	13'-9"	14'-4"	14'-11"	15'-5"	16'-0"	362T125-43-50
	362T125-54-50	15'-4"	16'-1"	16'-10"	17'-6"	18'-2"	18'-10"	19'-6"	362T125-54-50
	362T125-68-50	18'-6"	19'-5"	20'-3"	21'-1"	21'-11"	22'-8"	23'-6"	362T125-68-50
	362T125-97-50	22'-5"	23'-7"	24'-7"	25'-8"	26'-7"	27'-7"	28'-6"	362T125-97-50
0.0	362T125-33-50	10'-6"	11'-1"	11'-7"	12'-0"	12'-6"	13'-0"	13'-5"	362T125-33-50
	362T125-43-50	13'-5"	14'-1"	14'-9"	15'-5"	16'-0"	16'-7"	17'-1"	362T125-43-50
	362T125-54-50	16'-5"	17'-3"	18'-0"	18'-9"	19'-6"	20'-2"	20'-10"	362T125-54-50
	362T125-68-50	19'-9"	20'-9"	21'-8"	22'-7"	23'-6"	24'-4"	25'-2"	362T125-68-50
	362T125-97-50	24'-0"	25'-2"	26'-4"	27'-5"	28'-6"	29'-6"	30'-6"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PCS-0003 By Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.195: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.00 Weight 2400 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	5'-9"	6'-1"	6'-4"	6'-8"	6'-11"	7'-2"	7'-5"	362T125-33-50
	362T125-43-50	7'-5"	7'-10"	8'-2"	8'-6"	8'-10"	9'-2"	9'-6"	362T125-43-50
	362T125-54-50	9'-1"	9'-7"	10'-0"	10'-5"	10'-10"	11'-3"	11'-7"	362T125-54-50
	362T125-68-50	11'-0"	11'-7"	12'-1"	12'-7"	13'-1"	13'-7"	14'-0"	362T125-68-50
	362T125-97-50	13'-5"	14'-1"	14'-8"	15'-4"	15'-11"	16'-6"	17'-1"	362T125-97-50
0.9	362T125-33-50	6'-0"	6'-4"	6'-7"	6'-11"	7'-2"	7'-5"	7'-8"	362T125-33-50
	362T125-43-50	7'-9"	8'-1"	8'-6"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-43-50
	362T125-54-50	9'-5"	9'-11"	10'-4"	10'-10"	11'-3"	11'-8"	12'-0"	362T125-54-50
	362T125-68-50	11'-5"	12'-0"	12'-6"	13'-1"	13'-7"	14'-1"	14'-6"	362T125-68-50
	362T125-97-50	13'-10"	14'-7"	15'-3"	15'-10"	16'-6"	17'-1"	17'-8"	362T125-97-50
0.8	362T125-33-50	6'-3"	6'-7"	6'-10"	7'-2"	7'-5"	7'-9"	8'-0"	362T125-33-50
	362T125-43-50	8'-0"	8'-5"	8'-10"	9'-2"	9'-7"	9'-11"	10'-3"	362T125-43-50
	362T125-54-50	9'-10"	10'-4"	10'-9"	11'-3"	11'-8"	12'-1"	12'-6"	362T125-54-50
	362T125-68-50	11'-10"	12'-5"	13'-0"	13'-7"	14'-1"	14'-7"	15'-1"	362T125-68-50
	362T125-97-50	14'-5"	15'-2"	15'-10"	16'-6"	17'-2"	17'-9"	18'-4"	362T125-97-50
0.7	362T125-33-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-9"	8'-1"	8'-4"	362T125-33-50
	362T125-43-50	8'-4"	8'-9"	9'-2"	9'-7"	10'-0"	10'-4"	10'-8"	362T125-43-50
	362T125-54-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-2"	12'-7"	13'-0"	362T125-54-50
	362T125-68-50	12'-4"	13'-0"	13'-7"	14'-2"	14'-8"	15'-3"	15'-9"	362T125-68-50
	362T125-97-50	15'-0"	15'-9"	16'-6"	17'-2"	17'-10"	18'-6"	19'-1"	362T125-97-50
0.6	362T125-33-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-2"	8'-5"	8'-9"	362T125-33-50
	362T125-43-50	8'-9"	9'-2"	9'-7"	10'-0"	10'-5"	10'-10"	11'-2"	362T125-43-50
	362T125-54-50	10'-8"	11'-3"	11'-9"	12'-3"	12'-9"	13'-2"	13'-8"	362T125-54-50
	362T125-68-50	12'-11"	13'-7"	14'-2"	14'-9"	15'-4"	15'-11"	16'-5"	362T125-68-50
	362T125-97-50	15'-9"	16'-6"	17'-3"	18'-0"	18'-8"	19'-4"	20'-0"	362T125-97-50
0.5	362T125-33-50	7'-2"	7'-6"	7'-11"	8'-3"	8'-7"	8'-10"	9'-2"	362T125-33-50
	362T125-43-50	9'-2"	9'-8"	10'-1"	10'-7"	10'-11"	11'-4"	11'-9"	362T125-43-50
	362T125-54-50	11'-3"	11'-10"	12'-4"	12'-11"	13'-5"	13'-10"	14'-4"	362T125-54-50
	362T125-68-50	13'-7"	14'-3"	14'-11"	15'-6"	16'-2"	16'-9"	17'-3"	362T125-68-50
	362T125-97-50	16'-6"	17'-4"	18'-1"	18'-11"	19'-7"	20'-4"	21'-0"	362T125-97-50
0.4	362T125-33-50	7'-7"	8'-0"	8'-4"	8'-8"	9'-0"	9'-4"	9'-8"	362T125-33-50
	362T125-43-50	9'-9"	10'-3"	10'-8"	11'-2"	11'-7"	12'-0"	12'-5"	362T125-43-50
	362T125-54-50	11'-11"	12'-6"	13'-1"	13'-7"	14'-1"	14'-8"	15'-2"	362T125-54-50
	362T125-68-50	14'-4"	15'-1"	15'-9"	16'-5"	17'-0"	17'-8"	18'-3"	362T125-68-50
	362T125-97-50	17'-5"	18'-4"	19'-2"	19'-11"	20'-8"	21'-5"	22'-2"	362T125-97-50
0.3	362T125-33-50	8'-1"	8'-6"	8'-10"	9'-3"	9'-7"	9'-11"	10'-4"	362T125-33-50
	362T125-43-50	10'-4"	10'-10"	11'-4"	11'-10"	12'-4"	12'-9"	13'-2"	362T125-43-50
	362T125-54-50	12'-8"	13'-3"	13'-10"	14'-5"	15'-0"	15'-6"	16'-1"	362T125-54-50
	362T125-68-50	15'-3"	16'-0"	16'-9"	17'-5"	18'-1"	18'-9"	19'-5"	362T125-68-50
	362T125-97-50	18'-6"	19'-5"	20'-4"	21'-2"	22'-0"	22'-9"	23'-6"	362T125-97-50
0.2	362T125-33-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-8"	11'-0"	362T125-33-50
	362T125-43-50	11'-1"	11'-8"	12'-2"	12'-8"	13'-2"	13'-8"	14'-1"	362T125-43-50
	362T125-54-50	13'-6"	14'-3"	14'-10"	15'-6"	16'-1"	16'-8"	17'-3"	362T125-54-50
	362T125-68-50	16'-4"	17'-2"	17'-11"	18'-8"	19'-5"	20'-1"	20'-9"	362T125-68-50
	362T125-97-50	19'-10"	20'-10"	21'-9"	22'-8"	23'-6"	24'-5"	25'-2"	362T125-97-50
0.1	362T125-33-50	9'-5"	9'-10"	10'-4"	10'-9"	11'-2"	11'-7"	11'-11"	362T125-33-50
	362T125-43-50	12'-0"	12'-7"	13'-2"	13'-9"	14'-3"	14'-9"	15'-3"	362T125-43-50
	362T125-54-50	14'-8"	15'-5"	16'-1"	16'-9"	17'-5"	18'-0"	18'-7"	362T125-54-50
	362T125-68-50	17'-8"	18'-7"	19'-5"	20'-2"	21'-0"	21'-9"	22'-5"	362T125-68-50
	362T125-97-50	21'-5"	22'-6"	23'-6"	24'-6"	25'-6"	26'-4"	27'-3"	362T125-97-50
0.0	362T125-33-50	10'-1"	10'-7"	11'-1"	11'-6"	12'-0"	12'-5"	12'-10"	362T125-33-50
	362T125-43-50	12'-10"	13'-6"	14'-1"	14'-9"	15'-3"	15'-10"	16'-4"	362T125-43-50
	362T125-54-50	15'-8"	16'-6"	17'-3"	17'-11"	18'-8"	19'-4"	19'-11"	362T125-54-50
	362T125-68-50	18'-11"	19'-10"	20'-9"	21'-8"	22'-5"	23'-3"	24'-0"	362T125-68-50
	362T125-97-50	23'-0"	24'-1"	25'-2"	26'-3"	27'-3"	28'-3"	29'-2"	362T125-97-50

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TABLE 4.7.4.196: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.00 Weight 2600 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	5'-6"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	362T125-33-50
	362T125-43-50	7'-2"	7'-6"	7'-10"	8'-2"	8'-6"	8'-10"	9'-1"	362T125-43-50
	362T125-54-50	8'-9"	9'-2"	9'-7"	10'-0"	10'-5"	10'-9"	11'-2"	362T125-54-50
	362T125-68-50	10'-6"	11'-1"	11'-7"	12'-1"	12'-7"	13'-0"	13'-5"	362T125-68-50
	362T125-97-50	12'-10"	13'-6"	14'-1"	14'-8"	15'-3"	15'-10"	16'-4"	362T125-97-50
0.9	362T125-33-50	5'-9"	6'-0"	6'-4"	6'-7"	6'-10"	7'-1"	7'-4"	362T125-33-50
	362T125-43-50	7'-5"	7'-9"	8'-2"	8'-6"	8'-10"	9'-2"	9'-5"	362T125-43-50
	362T125-54-50	9'-1"	9'-6"	9'-11"	10'-4"	10'-9"	11'-2"	11'-7"	362T125-54-50
	362T125-68-50	10'-11"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	13'-11"	362T125-68-50
	362T125-97-50	13'-4"	14'-0"	14'-7"	15'-3"	15'-10"	16'-5"	16'-11"	362T125-97-50
0.8	362T125-33-50	6'-0"	6'-3"	6'-7"	6'-10"	7'-2"	7'-5"	7'-8"	362T125-33-50
	362T125-43-50	7'-8"	8'-1"	8'-5"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-43-50
	362T125-54-50	9'-5"	9'-11"	10'-4"	10'-9"	11'-2"	11'-7"	12'-0"	362T125-54-50
	362T125-68-50	11'-4"	11'-11"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	362T125-68-50
	362T125-97-50	13'-10"	14'-6"	15'-2"	15'-10"	16'-5"	17'-0"	17'-7"	362T125-97-50
0.7	362T125-33-50	6'-3"	6'-7"	6'-10"	7'-2"	7'-5"	7'-9"	8'-0"	362T125-33-50
	362T125-43-50	8'-0"	8'-5"	8'-10"	9'-2"	9'-7"	9'-11"	10'-3"	362T125-43-50
	362T125-54-50	9'-10"	10'-4"	10'-9"	11'-3"	11'-8"	12'-1"	12'-6"	362T125-54-50
	362T125-68-50	11'-10"	12'-5"	13'-0"	13'-7"	14'-1"	14'-7"	15'-1"	362T125-68-50
	362T125-97-50	14'-5"	15'-2"	15'-10"	16'-6"	17'-2"	17'-9"	18'-4"	362T125-97-50
0.6	362T125-33-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-9"	8'-1"	8'-4"	362T125-33-50
	362T125-43-50	8'-5"	8'-10"	9'-3"	9'-7"	10'-0"	10'-4"	10'-9"	362T125-43-50
	362T125-54-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-3"	12'-8"	13'-1"	362T125-54-50
	362T125-68-50	12'-5"	13'-0"	13'-7"	14'-2"	14'-9"	15'-3"	15'-9"	362T125-68-50
	362T125-97-50	15'-1"	15'-10"	16'-7"	17'-3"	17'-11"	18'-7"	19'-2"	362T125-97-50
0.5	362T125-33-50	6'-10"	7'-3"	7'-7"	7'-11"	8'-2"	8'-6"	8'-9"	362T125-33-50
	362T125-43-50	8'-10"	9'-3"	9'-8"	10'-1"	10'-6"	10'-11"	11'-3"	362T125-43-50
	362T125-54-50	10'-9"	11'-4"	11'-10"	12'-4"	12'-10"	13'-4"	13'-9"	362T125-54-50
	362T125-68-50	13'-0"	13'-8"	14'-4"	14'-11"	15'-6"	16'-1"	16'-7"	362T125-68-50
	362T125-97-50	15'-10"	16'-8"	17'-5"	18'-1"	18'-10"	19'-6"	20'-2"	362T125-97-50
0.4	362T125-33-50	7'-3"	7'-8"	8'-0"	8'-4"	8'-8"	9'-0"	9'-3"	362T125-33-50
	362T125-43-50	9'-4"	9'-10"	10'-3"	10'-8"	11'-1"	11'-6"	11'-11"	362T125-43-50
	362T125-54-50	11'-5"	12'-0"	12'-6"	13'-1"	13'-7"	14'-0"	14'-6"	362T125-54-50
	362T125-68-50	13'-9"	14'-5"	15'-1"	15'-9"	16'-4"	16'-11"	17'-6"	362T125-68-50
	362T125-97-50	16'-9"	17'-7"	18'-4"	19'-1"	19'-10"	20'-7"	21'-3"	362T125-97-50
0.3	362T125-33-50	7'-9"	8'-2"	8'-6"	8'-10"	9'-3"	9'-7"	9'-10"	362T125-33-50
	362T125-43-50	9'-11"	10'-5"	10'-11"	11'-4"	11'-10"	12'-3"	12'-8"	362T125-43-50
	362T125-54-50	12'-1"	12'-9"	13'-4"	13'-10"	14'-5"	14'-11"	15'-5"	362T125-54-50
	362T125-68-50	14'-7"	15'-4"	16'-1"	16'-9"	17'-4"	18'-0"	18'-7"	362T125-68-50
	362T125-97-50	17'-9"	18'-8"	19'-6"	20'-4"	21'-1"	21'-10"	22'-7"	362T125-97-50
0.2	362T125-33-50	8'-4"	8'-9"	9'-1"	9'-6"	9'-11"	10'-3"	10'-7"	362T125-33-50
	362T125-43-50	10'-8"	11'-2"	11'-8"	12'-2"	12'-8"	13'-1"	13'-6"	362T125-43-50
	362T125-54-50	13'-0"	13'-8"	14'-3"	14'-10"	15'-5"	16'-0"	16'-6"	362T125-54-50
	362T125-68-50	15'-8"	16'-5"	17'-2"	17'-11"	18'-7"	19'-3"	19'-11"	362T125-68-50
	362T125-97-50	19'-0"	20'-0"	20'-11"	21'-9"	22'-7"	23'-5"	24'-2"	362T125-97-50
0.1	362T125-33-50	9'-0"	9'-5"	9'-11"	10'-4"	10'-8"	11'-1"	11'-6"	362T125-33-50
	362T125-43-50	11'-6"	12'-1"	12'-8"	13'-2"	13'-8"	14'-2"	14'-8"	362T125-43-50
	362T125-54-50	14'-1"	14'-9"	15'-5"	16'-1"	16'-8"	17'-4"	17'-11"	362T125-54-50
	362T125-68-50	16'-11"	17'-10"	18'-7"	19'-5"	20'-2"	20'-10"	21'-7"	362T125-68-50
	362T125-97-50	20'-7"	21'-7"	22'-7"	23'-6"	24'-5"	25'-4"	26'-2"	362T125-97-50
0.0	362T125-33-50	9'-8"	10'-2"	10'-7"	11'-1"	11'-6"	11'-11"	12'-3"	362T125-33-50
	362T125-43-50	12'-4"	12'-11"	13'-7"	14'-1"	14'-8"	15'-2"	15'-8"	362T125-43-50
	362T125-54-50	15'-1"	15'-10"	16'-6"	17'-3"	17'-11"	18'-6"	19'-2"	362T125-54-50
	362T125-68-50	18'-2"	19'-1"	19'-11"	20'-9"	21'-7"	22'-4"	23'-1"	362T125-68-50
	362T125-97-50	22'-1"	23'-2"	24'-2"	25'-2"	26'-2"	27'-1"	28'-0"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PCS-0003 By Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.197: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.00 Weight 2800 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	362T125-33-50
	362T125-43-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-2"	8'-6"	8'-9"	362T125-43-50
	362T125-54-50	8'-5"	8'-10"	9'-3"	9'-7"	10'-0"	10'-4"	10'-9"	362T125-54-50
	362T125-68-50	10'-2"	10'-8"	11'-2"	11'-7"	12'-1"	12'-6"	12'-11"	362T125-68-50
	362T125-97-50	12'-4"	13'-0"	13'-7"	14'-2"	14'-8"	15'-3"	15'-9"	362T125-97-50
0.9	362T125-33-50	5'-6"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	362T125-33-50
	362T125-43-50	7'-1"	7'-6"	7'-10"	8'-2"	8'-6"	8'-9"	9'-1"	362T125-43-50
	362T125-54-50	8'-8"	9'-2"	9'-7"	10'-0"	10'-4"	10'-9"	11'-1"	362T125-54-50
	362T125-68-50	10'-6"	11'-1"	11'-7"	12'-1"	12'-6"	13'-0"	13'-5"	362T125-68-50
	362T125-97-50	12'-10"	13'-5"	14'-1"	14'-8"	15'-3"	15'-9"	16'-4"	362T125-97-50
0.8	362T125-33-50	5'-9"	6'-0"	6'-4"	6'-7"	6'-10"	7'-1"	7'-4"	362T125-33-50
	362T125-43-50	7'-5"	7'-9"	8'-2"	8'-6"	8'-10"	9'-2"	9'-5"	362T125-43-50
	362T125-54-50	9'-1"	9'-6"	9'-11"	10'-4"	10'-9"	11'-2"	11'-7"	362T125-54-50
	362T125-68-50	10'-11"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	13'-11"	362T125-68-50
	362T125-97-50	13'-4"	14'-0"	14'-7"	15'-3"	15'-10"	16'-5"	16'-11"	362T125-97-50
0.7	362T125-33-50	6'-0"	6'-4"	6'-7"	6'-11"	7'-2"	7'-5"	7'-8"	362T125-33-50
	362T125-43-50	7'-9"	8'-1"	8'-6"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-43-50
	362T125-54-50	9'-5"	9'-11"	10'-4"	10'-10"	11'-3"	11'-8"	12'-0"	362T125-54-50
	362T125-68-50	11'-5"	12'-0"	12'-6"	13'-1"	13'-7"	14'-1"	14'-6"	362T125-68-50
	362T125-97-50	13'-10"	14'-7"	15'-3"	15'-10"	16'-6"	17'-1"	17'-8"	362T125-97-50
0.6	362T125-33-50	6'-3"	6'-7"	6'-11"	7'-2"	7'-6"	7'-9"	8'-0"	362T125-33-50
	362T125-43-50	8'-1"	8'-6"	8'-11"	9'-3"	9'-7"	10'-0"	10'-4"	362T125-43-50
	362T125-54-50	9'-11"	10'-5"	10'-10"	11'-4"	11'-9"	12'-2"	12'-7"	362T125-54-50
	362T125-68-50	11'-11"	12'-6"	13'-1"	13'-8"	14'-2"	14'-8"	15'-2"	362T125-68-50
	362T125-97-50	14'-6"	15'-3"	15'-11"	16'-7"	17'-3"	17'-10"	18'-6"	362T125-97-50
0.5	362T125-33-50	6'-7"	6'-11"	7'-3"	7'-7"	7'-11"	8'-2"	8'-5"	362T125-33-50
	362T125-43-50	8'-6"	8'-11"	9'-4"	9'-9"	10'-1"	10'-6"	10'-10"	362T125-43-50
	362T125-54-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-4"	12'-10"	13'-3"	362T125-54-50
	362T125-68-50	12'-6"	13'-2"	13'-9"	14'-4"	14'-11"	15'-5"	16'-0"	362T125-68-50
	362T125-97-50	15'-3"	16'-0"	16'-9"	17'-5"	18'-1"	18'-9"	19'-5"	362T125-97-50
0.4	362T125-33-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	8'-11"	362T125-33-50
	362T125-43-50	9'-0"	9'-5"	9'-10"	10'-3"	10'-8"	11'-1"	11'-5"	362T125-43-50
	362T125-54-50	11'-0"	11'-6"	12'-1"	12'-7"	13'-1"	13'-6"	14'-0"	362T125-54-50
	362T125-68-50	13'-3"	13'-11"	14'-6"	15'-2"	15'-9"	16'-4"	16'-10"	362T125-68-50
	362T125-97-50	16'-1"	16'-11"	17'-8"	18'-5"	19'-1"	19'-10"	20'-6"	362T125-97-50
0.3	362T125-33-50	7'-5"	7'-10"	8'-2"	8'-6"	8'-10"	9'-2"	9'-6"	362T125-33-50
	362T125-43-50	9'-6"	10'-0"	10'-6"	10'-11"	11'-4"	11'-9"	12'-2"	362T125-43-50
	362T125-54-50	11'-8"	12'-3"	12'-10"	13'-4"	13'-10"	14'-4"	14'-10"	362T125-54-50
	362T125-68-50	14'-1"	14'-9"	15'-5"	16'-1"	16'-9"	17'-4"	17'-11"	362T125-68-50
	362T125-97-50	17'-1"	17'-11"	18'-9"	19'-7"	20'-4"	21'-1"	21'-9"	362T125-97-50
0.2	362T125-33-50	8'-0"	8'-5"	8'-9"	9'-2"	9'-6"	9'-10"	10'-2"	362T125-33-50
	362T125-43-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-2"	12'-7"	13'-0"	362T125-43-50
	362T125-54-50	12'-6"	13'-1"	13'-9"	14'-4"	14'-10"	15'-5"	15'-11"	362T125-54-50
	362T125-68-50	15'-1"	15'-10"	16'-7"	17'-3"	17'-11"	18'-7"	19'-2"	362T125-68-50
	362T125-97-50	18'-4"	19'-3"	20'-1"	20'-11"	21'-9"	22'-6"	23'-3"	362T125-97-50
0.1	362T125-33-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-8"	11'-0"	362T125-33-50
	362T125-43-50	11'-1"	11'-8"	12'-2"	12'-8"	13'-2"	13'-8"	14'-1"	362T125-43-50
	362T125-54-50	13'-6"	14'-2"	14'-10"	15'-6"	16'-1"	16'-8"	17'-3"	362T125-54-50
	362T125-68-50	16'-4"	17'-2"	17'-11"	18'-8"	19'-5"	20'-1"	20'-9"	362T125-68-50
	362T125-97-50	19'-10"	20'-10"	21'-9"	22'-8"	23'-6"	24'-5"	25'-2"	362T125-97-50
0.0	362T125-33-50	9'-3"	9'-9"	10'-2"	10'-8"	11'-0"	11'-5"	11'-10"	362T125-33-50
	362T125-43-50	11'-10"	12'-6"	13'-0"	13'-7"	14'-1"	14'-7"	15'-1"	362T125-43-50
	362T125-54-50	14'-6"	15'-3"	15'-11"	16'-7"	17'-3"	17'-10"	18'-5"	362T125-54-50
	362T125-68-50	17'-6"	18'-4"	19'-2"	20'-0"	20'-9"	21'-6"	22'-3"	362T125-68-50
	362T125-97-50	21'-3"	22'-3"	23'-4"	24'-3"	25'-2"	26'-1"	27'-0"	362T125-97-50

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TABLE 4.7.4.198: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.00 Weight 3000 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	5'-1"	5'-5"	5'-8"	5'-11"	6'-1"	6'-4"	6'-7"	362T125-33-50
	362T125-43-50	6'-7"	6'-11"	7'-3"	7'-7"	7'-11"	8'-2"	8'-5"	362T125-43-50
	362T125-54-50	8'-1"	8'-6"	8'-11"	9'-3"	9'-8"	10'-0"	10'-4"	362T125-54-50
	362T125-68-50	9'-9"	10'-3"	10'-9"	11'-2"	11'-8"	12'-1"	12'-6"	362T125-68-50
	362T125-97-50	11'-11"	12'-6"	13'-1"	13'-8"	14'-2"	14'-8"	15'-2"	362T125-97-50
0.9	362T125-33-50	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	362T125-33-50
	362T125-43-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-2"	8'-6"	8'-9"	362T125-43-50
	362T125-54-50	8'-5"	8'-10"	9'-3"	9'-7"	10'-0"	10'-4"	10'-9"	362T125-54-50
	362T125-68-50	10'-2"	10'-8"	11'-2"	11'-7"	12'-1"	12'-6"	12'-11"	362T125-68-50
	362T125-97-50	12'-4"	13'-0"	13'-7"	14'-2"	14'-8"	15'-3"	15'-9"	362T125-97-50
0.8	362T125-33-50	5'-6"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	362T125-33-50
	362T125-43-50	7'-2"	7'-6"	7'-10"	8'-2"	8'-6"	8'-10"	9'-1"	362T125-43-50
	362T125-54-50	8'-9"	9'-2"	9'-7"	10'-0"	10'-5"	10'-9"	11'-2"	362T125-54-50
	362T125-68-50	10'-6"	11'-1"	11'-7"	12'-1"	12'-7"	13'-0"	13'-5"	362T125-68-50
	362T125-97-50	12'-10"	13'-6"	14'-1"	14'-8"	15'-3"	15'-10"	16'-4"	362T125-97-50
0.7	362T125-33-50	5'-9"	6'-1"	6'-4"	6'-8"	6'-11"	7'-2"	7'-5"	362T125-33-50
	362T125-43-50	7'-5"	7'-10"	8'-2"	8'-6"	8'-10"	9'-2"	9'-6"	362T125-43-50
	362T125-54-50	9'-1"	9'-7"	10'-0"	10'-5"	10'-10"	11'-3"	11'-7"	362T125-54-50
	362T125-68-50	11'-0"	11'-7"	12'-1"	12'-7"	13'-1"	13'-7"	14'-0"	362T125-68-50
	362T125-97-50	13'-5"	14'-1"	14'-8"	15'-4"	15'-11"	16'-6"	17'-1"	362T125-97-50
0.6	362T125-33-50	6'-1"	6'-4"	6'-8"	6'-11"	7'-3"	7'-6"	7'-9"	362T125-33-50
	362T125-43-50	7'-9"	8'-2"	8'-7"	8'-11"	9'-3"	9'-7"	9'-11"	362T125-43-50
	362T125-54-50	9'-6"	10'-0"	10'-6"	10'-11"	11'-4"	11'-9"	12'-2"	362T125-54-50
	362T125-68-50	11'-6"	12'-1"	12'-8"	13'-2"	13'-8"	14'-2"	14'-8"	362T125-68-50
	362T125-97-50	14'-0"	14'-8"	15'-5"	16'-0"	16'-8"	17'-3"	17'-10"	362T125-97-50
0.5	362T125-33-50	6'-4"	6'-8"	7'-0"	7'-4"	7'-7"	7'-10"	8'-2"	362T125-33-50
	362T125-43-50	8'-2"	8'-7"	9'-0"	9'-5"	9'-9"	10'-1"	10'-5"	362T125-43-50
	362T125-54-50	10'-0"	10'-6"	11'-0"	11'-6"	11'-11"	12'-4"	12'-9"	362T125-54-50
	362T125-68-50	12'-1"	12'-8"	13'-3"	13'-10"	14'-5"	14'-11"	15'-5"	362T125-68-50
	362T125-97-50	14'-8"	15'-5"	16'-2"	16'-10"	17'-6"	18'-1"	18'-9"	362T125-97-50
0.4	362T125-33-50	6'-9"	7'-1"	7'-5"	7'-9"	8'-0"	8'-4"	8'-7"	362T125-33-50
	362T125-43-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-8"	11'-0"	362T125-43-50
	362T125-54-50	10'-7"	11'-1"	11'-7"	12'-1"	12'-7"	13'-0"	13'-6"	362T125-54-50
	362T125-68-50	12'-9"	13'-5"	14'-0"	14'-7"	15'-2"	15'-9"	16'-3"	362T125-68-50
	362T125-97-50	15'-6"	16'-4"	17'-1"	17'-9"	18'-5"	19'-1"	19'-9"	362T125-97-50
0.3	362T125-33-50	7'-2"	7'-6"	7'-11"	8'-3"	8'-7"	8'-10"	9'-2"	362T125-33-50
	362T125-43-50	9'-2"	9'-8"	10'-1"	10'-7"	10'-11"	11'-4"	11'-9"	362T125-43-50
	362T125-54-50	11'-3"	11'-10"	12'-4"	12'-11"	13'-5"	13'-10"	14'-4"	362T125-54-50
	362T125-68-50	13'-7"	14'-3"	14'-11"	15'-6"	16'-2"	16'-9"	17'-3"	362T125-68-50
	362T125-97-50	16'-6"	17'-4"	18'-1"	18'-11"	19'-7"	20'-4"	21'-0"	362T125-97-50
0.2	362T125-33-50	7'-8"	8'-1"	8'-6"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-33-50
	362T125-43-50	9'-10"	10'-4"	10'-10"	11'-4"	11'-9"	12'-2"	12'-7"	362T125-43-50
	362T125-54-50	12'-1"	12'-8"	13'-3"	13'-10"	14'-4"	14'-10"	15'-4"	362T125-54-50
	362T125-68-50	14'-7"	15'-3"	16'-0"	16'-8"	17'-3"	17'-11"	18'-6"	362T125-68-50
	362T125-97-50	17'-8"	18'-7"	19'-5"	20'-3"	21'-0"	21'-9"	22'-6"	362T125-97-50
0.1	362T125-33-50	8'-4"	8'-9"	9'-2"	9'-7"	9'-11"	10'-4"	10'-8"	362T125-33-50
	362T125-43-50	10'-8"	11'-3"	11'-9"	12'-3"	12'-9"	13'-2"	13'-7"	362T125-43-50
	362T125-54-50	13'-1"	13'-9"	14'-4"	14'-11"	15'-6"	16'-1"	16'-7"	362T125-54-50
	362T125-68-50	15'-9"	16'-6"	17'-3"	18'-0"	18'-9"	19'-5"	20'-0"	362T125-68-50
	362T125-97-50	19'-2"	20'-1"	21'-0"	21'-11"	22'-9"	23'-6"	24'-4"	362T125-97-50
0.0	362T125-33-50	8'-11"	9'-5"	9'-10"	10'-3"	10'-8"	11'-0"	11'-5"	362T125-33-50
	362T125-43-50	11'-6"	12'-0"	12'-7"	13'-1"	13'-7"	14'-1"	14'-7"	362T125-43-50
	362T125-54-50	14'-0"	14'-8"	15'-4"	16'-0"	16'-7"	17'-3"	17'-9"	362T125-54-50
	362T125-68-50	16'-10"	17'-9"	18'-6"	19'-4"	20'-0"	20'-9"	21'-5"	362T125-68-50
	362T125-97-50	20'-6"	21'-6"	22'-6"	23'-5"	24'-4"	25'-2"	26'-0"	362T125-97-50

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TABLE 4.7.4.199: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.00 Weight 3200 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	4'-11"	5'-2"	5'-5"	5'-8"	5'-11"	6'-1"	6'-4"	362T125-33-50
	362T125-43-50	6'-5"	6'-8"	7'-0"	7'-4"	7'-7"	7'-11"	8'-2"	362T125-43-50
	362T125-54-50	7'-10"	8'-3"	8'-7"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-54-50
	362T125-68-50	9'-5"	9'-11"	10'-5"	10'-10"	11'-3"	11'-8"	12'-1"	362T125-68-50
	362T125-97-50	11'-6"	12'-1"	12'-8"	13'-2"	13'-9"	14'-2"	14'-8"	362T125-97-50
0.9	362T125-33-50	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-4"	6'-7"	362T125-33-50
	362T125-43-50	6'-7"	7'-0"	7'-3"	7'-7"	7'-11"	8'-2"	8'-6"	362T125-43-50
	362T125-54-50	8'-1"	8'-6"	8'-11"	9'-4"	9'-8"	10'-0"	10'-4"	362T125-54-50
	362T125-68-50	9'-10"	10'-4"	10'-9"	11'-3"	11'-8"	12'-1"	12'-6"	362T125-68-50
	362T125-97-50	11'-11"	12'-7"	13'-1"	13'-8"	14'-3"	14'-9"	15'-3"	362T125-97-50
0.8	362T125-33-50	5'-4"	5'-7"	5'-11"	6'-2"	6'-5"	6'-7"	6'-10"	362T125-33-50
	362T125-43-50	6'-11"	7'-3"	7'-7"	7'-11"	8'-3"	8'-6"	8'-10"	362T125-43-50
	362T125-54-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-1"	10'-5"	10'-9"	362T125-54-50
	362T125-68-50	10'-2"	10'-8"	11'-2"	11'-8"	12'-2"	12'-7"	13'-0"	362T125-68-50
	362T125-97-50	12'-5"	13'-0"	13'-8"	14'-3"	14'-9"	15'-4"	15'-10"	362T125-97-50
0.7	362T125-33-50	5'-7"	5'-10"	6'-2"	6'-5"	6'-8"	6'-11"	7'-2"	362T125-33-50
	362T125-43-50	7'-2"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-2"	362T125-43-50
	362T125-54-50	8'-10"	9'-3"	9'-8"	10'-1"	10'-6"	10'-10"	11'-3"	362T125-54-50
	362T125-68-50	10'-8"	11'-2"	11'-8"	12'-2"	12'-8"	13'-1"	13'-7"	362T125-68-50
	362T125-97-50	12'-11"	13'-7"	14'-3"	14'-10"	15'-5"	15'-11"	16'-6"	362T125-97-50
0.6	362T125-33-50	5'-10"	6'-2"	6'-5"	6'-9"	7'-0"	7'-3"	7'-6"	362T125-33-50
	362T125-43-50	7'-6"	7'-11"	8'-3"	8'-8"	9'-0"	9'-4"	9'-7"	362T125-43-50
	362T125-54-50	9'-3"	9'-8"	10'-1"	10'-7"	11'-0"	11'-4"	11'-9"	362T125-54-50
	362T125-68-50	11'-1"	11'-8"	12'-3"	12'-9"	13'-3"	13'-9"	14'-2"	362T125-68-50
	362T125-97-50	13'-6"	14'-3"	14'-10"	15'-6"	16'-1"	16'-8"	17'-3"	362T125-97-50
0.5	362T125-33-50	6'-2"	6'-6"	6'-9"	7'-1"	7'-4"	7'-7"	7'-10"	362T125-33-50
	362T125-43-50	7'-11"	8'-4"	8'-8"	9'-1"	9'-5"	9'-9"	10'-1"	362T125-43-50
	362T125-54-50	9'-8"	10'-2"	10'-8"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-54-50
	362T125-68-50	11'-8"	12'-3"	12'-10"	13'-5"	13'-11"	14'-5"	14'-11"	362T125-68-50
	362T125-97-50	14'-3"	14'-11"	15'-7"	16'-3"	16'-11"	17'-6"	18'-1"	362T125-97-50
0.4	362T125-33-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-9"	8'-1"	8'-4"	362T125-33-50
	362T125-43-50	8'-4"	8'-9"	9'-2"	9'-7"	10'-0"	10'-4"	10'-8"	362T125-43-50
	362T125-54-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-2"	12'-7"	13'-0"	362T125-54-50
	362T125-68-50	12'-4"	13'-0"	13'-7"	14'-2"	14'-8"	15'-3"	15'-9"	362T125-68-50
	362T125-97-50	15'-0"	15'-9"	16'-6"	17'-2"	17'-10"	18'-6"	19'-1"	362T125-97-50
0.3	362T125-33-50	6'-11"	7'-3"	7'-7"	7'-11"	8'-3"	8'-7"	8'-10"	362T125-33-50
	362T125-43-50	8'-11"	9'-4"	9'-9"	10'-2"	10'-7"	11'-0"	11'-4"	362T125-43-50
	362T125-54-50	10'-11"	11'-5"	11'-11"	12'-5"	12'-11"	13'-5"	13'-10"	362T125-54-50
	362T125-68-50	13'-2"	13'-9"	14'-5"	15'-0"	15'-7"	16'-2"	16'-9"	362T125-68-50
	362T125-97-50	16'-0"	16'-9"	17'-6"	18'-3"	19'-0"	19'-8"	20'-4"	362T125-97-50
0.2	362T125-33-50	7'-5"	7'-10"	8'-2"	8'-6"	8'-10"	9'-2"	9'-6"	362T125-33-50
	362T125-43-50	9'-6"	10'-0"	10'-6"	10'-11"	11'-4"	11'-9"	12'-2"	362T125-43-50
	362T125-54-50	11'-8"	12'-3"	12'-10"	13'-4"	13'-10"	14'-4"	14'-10"	362T125-54-50
	362T125-68-50	14'-1"	14'-9"	15'-5"	16'-1"	16'-9"	17'-4"	17'-11"	362T125-68-50
	362T125-97-50	17'-1"	17'-11"	18'-9"	19'-7"	20'-4"	21'-1"	21'-9"	362T125-97-50
0.1	362T125-33-50	8'-1"	8'-6"	8'-10"	9'-3"	9'-7"	9'-11"	10'-4"	362T125-33-50
	362T125-43-50	10'-4"	10'-10"	11'-4"	11'-10"	12'-4"	12'-9"	13'-2"	362T125-43-50
	362T125-54-50	12'-8"	13'-3"	13'-10"	14'-5"	15'-0"	15'-6"	16'-1"	362T125-54-50
	362T125-68-50	15'-3"	16'-0"	16'-9"	17'-5"	18'-1"	18'-9"	19'-5"	362T125-68-50
	362T125-97-50	18'-6"	19'-5"	20'-4"	21'-2"	22'-0"	22'-9"	23'-6"	362T125-97-50
0.0	362T125-33-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-8"	11'-0"	362T125-33-50
	362T125-43-50	11'-1"	11'-8"	12'-2"	12'-8"	13'-2"	13'-8"	14'-1"	362T125-43-50
	362T125-54-50	13'-6"	14'-3"	14'-10"	15'-6"	16'-1"	16'-8"	17'-3"	362T125-54-50
	362T125-68-50	16'-4"	17'-2"	17'-11"	18'-8"	19'-5"	20'-1"	20'-9"	362T125-68-50
	362T125-97-50	19'-10"	20'-10"	21'-9"	22'-8"	23'-6"	24'-5"	25'-2"	362T125-97-50

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TABLE 4.7.4.200: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.00 Weight 3400 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	4'-9"	5'-0"	5'-3"	5'-6"	5'-9"	5'-11"	6'-2"	362T125-33-50
	362T125-43-50	6'-2"	6'-6"	6'-10"	7'-1"	7'-4"	7'-8"	7'-11"	362T125-43-50
	362T125-54-50	7'-7"	8'-0"	8'-4"	8'-8"	9'-0"	9'-4"	9'-8"	362T125-54-50
	362T125-68-50	9'-2"	9'-7"	10'-1"	10'-6"	10'-11"	11'-4"	11'-8"	362T125-68-50
	362T125-97-50	11'-2"	11'-9"	12'-3"	12'-9"	13'-3"	13'-9"	14'-3"	362T125-97-50
0.9	362T125-33-50	5'-0"	5'-3"	5'-6"	5'-8"	5'-11"	6'-2"	6'-4"	362T125-33-50
	362T125-43-50	6'-5"	6'-9"	7'-1"	7'-4"	7'-8"	7'-11"	8'-2"	362T125-43-50
	362T125-54-50	7'-10"	8'-3"	8'-8"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-54-50
	362T125-68-50	9'-6"	10'-0"	10'-5"	10'-11"	11'-4"	11'-9"	12'-1"	362T125-68-50
	362T125-97-50	11'-7"	12'-2"	12'-9"	13'-3"	13'-9"	14'-3"	14'-9"	362T125-97-50
0.8	362T125-33-50	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	6'-7"	362T125-33-50
	362T125-43-50	6'-8"	7'-0"	7'-4"	7'-8"	7'-11"	8'-3"	8'-6"	362T125-43-50
	362T125-54-50	8'-2"	8'-7"	9'-0"	9'-4"	9'-9"	10'-1"	10'-5"	362T125-54-50
	362T125-68-50	9'-10"	10'-4"	10'-10"	11'-4"	11'-9"	12'-2"	12'-7"	362T125-68-50
	362T125-97-50	12'-0"	12'-8"	13'-3"	13'-9"	14'-4"	14'-10"	15'-4"	362T125-97-50
0.7	362T125-33-50	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	6'-8"	6'-11"	362T125-33-50
	362T125-43-50	6'-11"	7'-4"	7'-8"	8'-0"	8'-4"	8'-7"	8'-11"	362T125-43-50
	362T125-54-50	8'-6"	8'-11"	9'-4"	9'-9"	10'-2"	10'-6"	10'-11"	362T125-54-50
	362T125-68-50	10'-4"	10'-10"	11'-4"	11'-10"	12'-3"	12'-8"	13'-2"	362T125-68-50
	362T125-97-50	12'-6"	13'-2"	13'-9"	14'-4"	14'-11"	15'-5"	16'-0"	362T125-97-50
0.6	362T125-33-50	5'-8"	5'-11"	6'-3"	6'-6"	6'-9"	7'-0"	7'-3"	362T125-33-50
	362T125-43-50	7'-3"	7'-8"	8'-0"	8'-4"	8'-8"	9'-0"	9'-4"	362T125-43-50
	362T125-54-50	8'-11"	9'-4"	9'-10"	10'-3"	10'-7"	11'-0"	11'-5"	362T125-54-50
	362T125-68-50	10'-9"	11'-4"	11'-10"	12'-4"	12'-10"	13'-3"	13'-9"	362T125-68-50
	362T125-97-50	13'-1"	13'-9"	14'-5"	15'-0"	15'-7"	16'-2"	16'-9"	362T125-97-50
0.5	362T125-33-50	5'-11"	6'-3"	6'-7"	6'-10"	7'-1"	7'-4"	7'-7"	362T125-33-50
	362T125-43-50	7'-8"	8'-1"	8'-5"	8'-9"	9'-2"	9'-6"	9'-9"	362T125-43-50
	362T125-54-50	9'-5"	9'-10"	10'-4"	10'-9"	11'-2"	11'-7"	12'-0"	362T125-54-50
	362T125-68-50	11'-4"	11'-11"	12'-5"	13'-0"	13'-6"	14'-0"	14'-5"	362T125-68-50
	362T125-97-50	13'-9"	14'-6"	15'-2"	15'-9"	16'-5"	17'-0"	17'-7"	362T125-97-50
0.4	362T125-33-50	6'-4"	6'-7"	6'-11"	7'-3"	7'-6"	7'-10"	8'-1"	362T125-33-50
	362T125-43-50	8'-1"	8'-6"	8'-11"	9'-3"	9'-8"	10'-0"	10'-4"	362T125-43-50
	362T125-54-50	9'-11"	10'-5"	10'-11"	11'-4"	11'-10"	12'-3"	12'-8"	362T125-54-50
	362T125-68-50	12'-0"	12'-7"	13'-2"	13'-8"	14'-3"	14'-9"	15'-3"	362T125-68-50
	362T125-97-50	14'-7"	15'-3"	16'-0"	16'-8"	17'-4"	17'-11"	18'-6"	362T125-97-50
0.3	362T125-33-50	6'-9"	7'-1"	7'-5"	7'-8"	8'-0"	8'-4"	8'-7"	362T125-33-50
	362T125-43-50	8'-7"	9'-1"	9'-6"	9'-11"	10'-3"	10'-8"	11'-0"	362T125-43-50
	362T125-54-50	10'-6"	11'-1"	11'-7"	12'-1"	12'-6"	13'-0"	13'-5"	362T125-54-50
	362T125-68-50	12'-9"	13'-4"	14'-0"	14'-7"	15'-2"	15'-8"	16'-2"	362T125-68-50
	362T125-97-50	15'-6"	16'-3"	17'-0"	17'-8"	18'-5"	19'-1"	19'-8"	362T125-97-50
0.2	362T125-33-50	7'-2"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-2"	362T125-33-50
	362T125-43-50	9'-3"	9'-9"	10'-2"	10'-7"	11'-0"	11'-5"	11'-9"	362T125-43-50
	362T125-54-50	11'-4"	11'-10"	12'-5"	12'-11"	13'-5"	13'-11"	14'-5"	362T125-54-50
	362T125-68-50	13'-8"	14'-4"	15'-0"	15'-7"	16'-2"	16'-9"	17'-4"	362T125-68-50
	362T125-97-50	16'-7"	17'-5"	18'-2"	19'-0"	19'-8"	20'-5"	21'-1"	362T125-97-50
0.1	362T125-33-50	7'-10"	8'-3"	8'-7"	8'-11"	9'-4"	9'-8"	10'-0"	362T125-33-50
	362T125-43-50	10'-0"	10'-6"	11'-0"	11'-6"	11'-11"	12'-4"	12'-9"	362T125-43-50
	362T125-54-50	12'-3"	12'-10"	13'-5"	14'-0"	14'-7"	15'-1"	15'-7"	362T125-54-50
	362T125-68-50	14'-9"	15'-6"	16'-3"	16'-11"	17'-7"	18'-2"	18'-9"	362T125-68-50
	362T125-97-50	17'-11"	18'-10"	19'-8"	20'-6"	21'-4"	22'-1"	22'-10"	362T125-97-50
0.0	362T125-33-50	8'-5"	8'-10"	9'-3"	9'-7"	10'-0"	10'-4"	10'-8"	362T125-33-50
	362T125-43-50	10'-9"	11'-3"	11'-10"	12'-4"	12'-9"	13'-3"	13'-8"	362T125-43-50
	362T125-54-50	13'-1"	13'-9"	14'-5"	15'-0"	15'-7"	16'-2"	16'-8"	362T125-54-50
	362T125-68-50	15'-10"	16'-7"	17'-4"	18'-1"	18'-9"	19'-6"	20'-1"	362T125-68-50
	362T125-97-50	19'-3"	20'-2"	21'-1"	22'-0"	22'-10"	23'-8"	24'-5"	362T125-97-50

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TABLE 4.7.4.201: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.00 Weight 3600 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	4'-8"	4'-10"	5'-1"	5'-4"	5'-6"	5'-9"	5'-11"	362T125-33-50
	362T125-43-50	6'-0"	6'-4"	6'-7"	6'-11"	7'-2"	7'-5"	7'-8"	362T125-43-50
	362T125-54-50	7'-4"	7'-9"	8'-1"	8'-5"	8'-9"	9'-1"	9'-5"	362T125-54-50
	362T125-68-50	8'-11"	9'-4"	9'-9"	10'-2"	10'-7"	11'-0"	11'-4"	362T125-68-50
	362T125-97-50	10'-10"	11'-5"	11'-11"	12'-5"	12'-11"	13'-4"	13'-10"	362T125-97-50
0.9	362T125-33-50	4'-10"	5'-1"	5'-4"	5'-6"	5'-9"	6'-0"	6'-2"	362T125-33-50
	362T125-43-50	6'-3"	6'-6"	6'-10"	7'-2"	7'-5"	7'-8"	7'-11"	362T125-43-50
	362T125-54-50	7'-7"	8'-0"	8'-5"	8'-9"	9'-1"	9'-5"	9'-9"	362T125-54-50
	362T125-68-50	9'-3"	9'-8"	10'-2"	10'-7"	11'-0"	11'-5"	11'-9"	362T125-68-50
	362T125-97-50	11'-3"	11'-10"	12'-4"	12'-10"	13'-4"	13'-10"	14'-4"	362T125-97-50
0.8	362T125-33-50	5'-0"	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-5"	362T125-33-50
	362T125-43-50	6'-6"	6'-10"	7'-1"	7'-5"	7'-9"	8'-0"	8'-3"	362T125-43-50
	362T125-54-50	7'-11"	8'-4"	8'-9"	9'-1"	9'-5"	9'-9"	10'-1"	362T125-54-50
	362T125-68-50	9'-7"	10'-1"	10'-6"	11'-0"	11'-5"	11'-10"	12'-3"	362T125-68-50
	362T125-97-50	11'-8"	12'-3"	12'-10"	13'-4"	13'-11"	14'-5"	14'-11"	362T125-97-50
0.7	362T125-33-50	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-6"	6'-8"	362T125-33-50
	362T125-43-50	6'-9"	7'-1"	7'-5"	7'-9"	8'-1"	8'-4"	8'-8"	362T125-43-50
	362T125-54-50	8'-3"	8'-8"	9'-1"	9'-6"	9'-10"	10'-3"	10'-7"	362T125-54-50
	362T125-68-50	10'-0"	10'-6"	11'-0"	11'-5"	11'-11"	12'-4"	12'-9"	362T125-68-50
	362T125-97-50	12'-2"	12'-9"	13'-4"	13'-11"	14'-6"	15'-0"	15'-6"	362T125-97-50
0.6	362T125-33-50	5'-6"	5'-9"	6'-0"	6'-4"	6'-7"	6'-10"	7'-0"	362T125-33-50
	362T125-43-50	7'-1"	7'-5"	7'-9"	8'-1"	8'-5"	8'-9"	9'-0"	362T125-43-50
	362T125-54-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-8"	11'-1"	362T125-54-50
	362T125-68-50	10'-5"	11'-0"	11'-6"	12'-0"	12'-5"	12'-11"	13'-4"	362T125-68-50
	362T125-97-50	12'-9"	13'-5"	14'-0"	14'-7"	15'-2"	15'-8"	16'-3"	362T125-97-50
0.5	362T125-33-50	5'-9"	6'-1"	6'-4"	6'-8"	6'-11"	7'-2"	7'-5"	362T125-33-50
	362T125-43-50	7'-5"	7'-10"	8'-2"	8'-6"	8'-10"	9'-2"	9'-6"	362T125-43-50
	362T125-54-50	9'-1"	9'-7"	10'-0"	10'-5"	10'-10"	11'-3"	11'-7"	362T125-54-50
	362T125-68-50	11'-0"	11'-7"	12'-1"	12'-7"	13'-1"	13'-7"	14'-0"	362T125-68-50
	362T125-97-50	13'-5"	14'-1"	14'-8"	15'-4"	15'-11"	16'-6"	17'-1"	362T125-97-50
0.4	362T125-33-50	6'-1"	6'-5"	6'-9"	7'-0"	7'-3"	7'-7"	7'-10"	362T125-33-50
	362T125-43-50	7'-10"	8'-3"	8'-8"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-43-50
	362T125-54-50	9'-7"	10'-1"	10'-7"	11'-0"	11'-5"	11'-10"	12'-3"	362T125-54-50
	362T125-68-50	11'-7"	12'-2"	12'-9"	13'-4"	13'-10"	14'-4"	14'-10"	362T125-68-50
	362T125-97-50	14'-2"	14'-10"	15'-6"	16'-2"	16'-10"	17'-5"	18'-0"	362T125-97-50
0.3	362T125-33-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-9"	8'-1"	8'-4"	362T125-33-50
	362T125-43-50	8'-4"	8'-9"	9'-2"	9'-7"	10'-0"	10'-4"	10'-8"	362T125-43-50
	362T125-54-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-2"	12'-7"	13'-0"	362T125-54-50
	362T125-68-50	12'-4"	13'-0"	13'-7"	14'-2"	14'-8"	15'-3"	15'-9"	362T125-68-50
	362T125-97-50	15'-0"	15'-9"	16'-6"	17'-2"	17'-10"	18'-6"	19'-1"	362T125-97-50
0.2	362T125-33-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	8'-11"	362T125-33-50
	362T125-43-50	9'-0"	9'-5"	9'-10"	10'-3"	10'-8"	11'-1"	11'-5"	362T125-43-50
	362T125-54-50	11'-0"	11'-6"	12'-1"	12'-7"	13'-1"	13'-6"	14'-0"	362T125-54-50
	362T125-68-50	13'-3"	13'-11"	14'-6"	15'-2"	15'-9"	16'-4"	16'-10"	362T125-68-50
	362T125-97-50	16'-1"	16'-11"	17'-8"	18'-5"	19'-1"	19'-10"	20'-6"	362T125-97-50
0.1	362T125-33-50	7'-7"	8'-0"	8'-4"	8'-8"	9'-0"	9'-4"	9'-8"	362T125-33-50
	362T125-43-50	9'-9"	10'-3"	10'-8"	11'-2"	11'-7"	12'-0"	12'-5"	362T125-43-50
	362T125-54-50	11'-11"	12'-6"	13'-1"	13'-7"	14'-1"	14'-8"	15'-2"	362T125-54-50
	362T125-68-50	14'-4"	15'-1"	15'-9"	16'-5"	17'-0"	17'-8"	18'-3"	362T125-68-50
	362T125-97-50	17'-5"	18'-4"	19'-2"	19'-11"	20'-8"	21'-5"	22'-2"	362T125-97-50
0.0	362T125-33-50	8'-2"	8'-7"	8'-11"	9'-4"	9'-8"	10'-0"	10'-5"	362T125-33-50
	362T125-43-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-5"	12'-10"	13'-3"	362T125-43-50
	362T125-54-50	12'-9"	13'-4"	14'-0"	14'-7"	15'-2"	15'-8"	16'-2"	362T125-54-50
	362T125-68-50	15'-4"	16'-2"	16'-10"	17'-7"	18'-3"	18'-11"	19'-6"	362T125-68-50
	362T125-97-50	18'-8"	19'-7"	20'-6"	21'-4"	22'-2"	22'-11"	23'-9"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PCS-0003 BY Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.202: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.00 Weight 3800 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	4'-6"	4'-9"	4'-11"	5'-2"	5'-5"	5'-7"	5'-9"	362T125-33-50
	362T125-43-50	5'-10"	6'-1"	6'-5"	6'-8"	6'-11"	7'-2"	7'-5"	362T125-43-50
	362T125-54-50	7'-2"	7'-6"	7'-10"	8'-2"	8'-6"	8'-10"	9'-2"	362T125-54-50
	362T125-68-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-3"	10'-8"	11'-0"	362T125-68-50
	362T125-97-50	10'-6"	11'-1"	11'-7"	12'-1"	12'-6"	13'-0"	13'-5"	362T125-97-50
0.9	362T125-33-50	4'-8"	4'-11"	5'-2"	5'-4"	5'-7"	5'-10"	6'-0"	362T125-33-50
	362T125-43-50	6'-0"	6'-4"	6'-8"	6'-11"	7'-2"	7'-6"	7'-9"	362T125-43-50
	362T125-54-50	7'-5"	7'-9"	8'-2"	8'-6"	8'-10"	9'-2"	9'-6"	362T125-54-50
	362T125-68-50	8'-11"	9'-5"	9'-10"	10'-3"	10'-8"	11'-1"	11'-5"	362T125-68-50
	362T125-97-50	10'-11"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	13'-11"	362T125-97-50
0.8	362T125-33-50	4'-10"	5'-1"	5'-4"	5'-7"	5'-10"	6'-0"	6'-3"	362T125-33-50
	362T125-43-50	6'-3"	6'-7"	6'-11"	7'-3"	7'-6"	7'-9"	8'-0"	362T125-43-50
	362T125-54-50	7'-8"	8'-1"	8'-6"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-54-50
	362T125-68-50	9'-4"	9'-9"	10'-3"	10'-8"	11'-1"	11'-6"	11'-11"	362T125-68-50
	362T125-97-50	11'-4"	11'-11"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	362T125-97-50
0.7	362T125-33-50	5'-1"	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-6"	362T125-33-50
	362T125-43-50	6'-7"	6'-11"	7'-3"	7'-6"	7'-10"	8'-1"	8'-5"	362T125-43-50
	362T125-54-50	8'-0"	8'-5"	8'-10"	9'-3"	9'-7"	9'-11"	10'-3"	362T125-54-50
	362T125-68-50	9'-9"	10'-2"	10'-8"	11'-2"	11'-7"	12'-0"	12'-5"	362T125-68-50
	362T125-97-50	11'-10"	12'-5"	13'-0"	13'-7"	14'-1"	14'-7"	15'-1"	362T125-97-50
0.6	362T125-33-50	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	362T125-33-50
	362T125-43-50	6'-10"	7'-3"	7'-7"	7'-11"	8'-2"	8'-6"	8'-9"	362T125-43-50
	362T125-54-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-0"	10'-5"	10'-9"	362T125-54-50
	362T125-68-50	10'-2"	10'-8"	11'-2"	11'-8"	12'-1"	12'-7"	13'-0"	362T125-68-50
	362T125-97-50	12'-5"	13'-0"	13'-7"	14'-2"	14'-9"	15'-3"	15'-9"	362T125-97-50
0.5	362T125-33-50	5'-7"	5'-11"	6'-2"	6'-5"	6'-8"	6'-11"	7'-2"	362T125-33-50
	362T125-43-50	7'-3"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	362T125-43-50
	362T125-54-50	8'-10"	9'-4"	9'-9"	10'-2"	10'-6"	10'-11"	11'-3"	362T125-54-50
	362T125-68-50	10'-8"	11'-3"	11'-9"	12'-3"	12'-9"	13'-2"	13'-8"	362T125-68-50
	362T125-97-50	13'-0"	13'-8"	14'-4"	14'-11"	15'-6"	16'-0"	16'-7"	362T125-97-50
0.4	362T125-33-50	5'-11"	6'-3"	6'-6"	6'-10"	7'-1"	7'-4"	7'-7"	362T125-33-50
	362T125-43-50	7'-8"	8'-0"	8'-5"	8'-9"	9'-1"	9'-5"	9'-9"	362T125-43-50
	362T125-54-50	9'-4"	9'-10"	10'-3"	10'-9"	11'-2"	11'-6"	11'-11"	362T125-54-50
	362T125-68-50	11'-3"	11'-10"	12'-5"	12'-11"	13'-5"	13'-11"	14'-5"	362T125-68-50
	362T125-97-50	13'-9"	14'-5"	15'-1"	15'-9"	16'-4"	16'-11"	17'-6"	362T125-97-50
0.3	362T125-33-50	6'-4"	6'-8"	7'-0"	7'-3"	7'-7"	7'-10"	8'-1"	362T125-33-50
	362T125-43-50	8'-2"	8'-7"	8'-11"	9'-4"	9'-8"	10'-0"	10'-4"	362T125-43-50
	362T125-54-50	9'-11"	10'-5"	10'-11"	11'-5"	11'-10"	12'-3"	12'-8"	362T125-54-50
	362T125-68-50	12'-0"	12'-7"	13'-2"	13'-9"	14'-3"	14'-10"	15'-4"	362T125-68-50
	362T125-97-50	14'-7"	15'-4"	16'-1"	16'-9"	17'-4"	18'-0"	18'-7"	362T125-97-50
0.2	362T125-33-50	6'-9"	7'-2"	7'-6"	7'-9"	8'-1"	8'-5"	8'-8"	362T125-33-50
	362T125-43-50	8'-9"	9'-2"	9'-7"	10'-0"	10'-5"	10'-9"	11'-1"	362T125-43-50
	362T125-54-50	10'-8"	11'-2"	11'-9"	12'-2"	12'-8"	13'-2"	13'-7"	362T125-54-50
	362T125-68-50	12'-10"	13'-6"	14'-2"	14'-9"	15'-4"	15'-10"	16'-5"	362T125-68-50
	362T125-97-50	15'-8"	16'-5"	17'-2"	17'-11"	18'-7"	19'-3"	19'-11"	362T125-97-50
0.1	362T125-33-50	7'-4"	7'-9"	8'-1"	8'-5"	8'-9"	9'-1"	9'-5"	362T125-33-50
	362T125-43-50	9'-5"	9'-11"	10'-5"	10'-10"	11'-3"	11'-8"	12'-1"	362T125-43-50
	362T125-54-50	11'-7"	12'-2"	12'-8"	13'-3"	13'-9"	14'-3"	14'-9"	362T125-54-50
	362T125-68-50	13'-11"	14'-8"	15'-4"	15'-11"	16'-7"	17'-2"	17'-9"	362T125-68-50
	362T125-97-50	16'-11"	17'-10"	18'-7"	19'-5"	20'-2"	20'-10"	21'-7"	362T125-97-50
0.0	362T125-33-50	7'-11"	8'-4"	8'-8"	9'-1"	9'-5"	9'-9"	10'-1"	362T125-33-50
	362T125-43-50	10'-2"	10'-8"	11'-2"	11'-7"	12'-1"	12'-6"	12'-11"	362T125-43-50
	362T125-54-50	12'-5"	13'-0"	13'-7"	14'-2"	14'-9"	15'-3"	15'-9"	362T125-54-50
	362T125-68-50	14'-11"	15'-8"	16'-5"	17'-1"	17'-9"	18'-5"	19'-0"	362T125-68-50
	362T125-97-50	18'-2"	19'-1"	19'-11"	20'-9"	21'-7"	22'-4"	23'-1"	362T125-97-50

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TABLE 4.7.4.203: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.00 Weight 4000 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	4'-4"	4'-7"	4'-10"	5'-0"	5'-3"	5'-5"	5'-7"	362T125-33-50
	362T125-43-50	5'-8"	5'-11"	6'-3"	6'-6"	6'-9"	7'-0"	7'-3"	362T125-43-50
	362T125-54-50	6'-11"	7'-4"	7'-8"	8'-0"	8'-3"	8'-7"	8'-11"	362T125-54-50
	362T125-68-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-0"	10'-5"	10'-9"	362T125-68-50
	362T125-97-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-2"	12'-8"	13'-1"	362T125-97-50
0.9	362T125-33-50	4'-6"	4'-9"	5'-0"	5'-3"	5'-5"	5'-8"	5'-10"	362T125-33-50
	362T125-43-50	5'-10"	6'-2"	6'-6"	6'-9"	7'-0"	7'-3"	7'-6"	362T125-43-50
	362T125-54-50	7'-2"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	362T125-54-50
	362T125-68-50	8'-9"	9'-2"	9'-7"	10'-0"	10'-5"	10'-9"	11'-2"	362T125-68-50
	362T125-97-50	10'-7"	11'-2"	11'-8"	12'-2"	12'-8"	13'-1"	13'-7"	362T125-97-50
0.8	362T125-33-50	4'-9"	5'-0"	5'-3"	5'-5"	5'-8"	5'-10"	6'-1"	362T125-33-50
	362T125-43-50	6'-1"	6'-5"	6'-9"	7'-0"	7'-4"	7'-7"	7'-10"	362T125-43-50
	362T125-54-50	7'-6"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	9'-7"	362T125-54-50
	362T125-68-50	9'-1"	9'-6"	10'-0"	10'-5"	10'-10"	11'-2"	11'-7"	362T125-68-50
	362T125-97-50	11'-1"	11'-7"	12'-2"	12'-8"	13'-2"	13'-8"	14'-1"	362T125-97-50
0.7	362T125-33-50	4'-11"	5'-2"	5'-5"	5'-8"	5'-11"	6'-1"	6'-4"	362T125-33-50
	362T125-43-50	6'-5"	6'-8"	7'-0"	7'-4"	7'-7"	7'-11"	8'-2"	362T125-43-50
	362T125-54-50	7'-10"	8'-3"	8'-7"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-54-50
	362T125-68-50	9'-5"	9'-11"	10'-5"	10'-10"	11'-3"	11'-8"	12'-1"	362T125-68-50
	362T125-97-50	11'-6"	12'-1"	12'-8"	13'-2"	13'-9"	14'-2"	14'-8"	362T125-97-50
0.6	362T125-33-50	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	6'-8"	362T125-33-50
	362T125-43-50	6'-8"	7'-0"	7'-4"	7'-8"	8'-0"	8'-3"	8'-7"	362T125-43-50
	362T125-54-50	8'-2"	8'-7"	9'-0"	9'-5"	9'-9"	10'-1"	10'-5"	362T125-54-50
	362T125-68-50	9'-11"	10'-5"	10'-11"	11'-4"	11'-9"	12'-3"	12'-8"	362T125-68-50
	362T125-97-50	12'-1"	12'-8"	13'-3"	13'-10"	14'-4"	14'-10"	15'-4"	362T125-97-50
0.5	362T125-33-50	5'-5"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	362T125-33-50
	362T125-43-50	7'-0"	7'-5"	7'-9"	8'-1"	8'-5"	8'-8"	9'-0"	362T125-43-50
	362T125-54-50	8'-7"	9'-1"	9'-6"	9'-10"	10'-3"	10'-8"	11'-0"	362T125-54-50
	362T125-68-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-5"	12'-10"	13'-3"	362T125-68-50
	362T125-97-50	12'-8"	13'-4"	13'-11"	14'-6"	15'-1"	15'-7"	16'-2"	362T125-97-50
0.4	362T125-33-50	5'-9"	6'-1"	6'-4"	6'-8"	6'-11"	7'-2"	7'-5"	362T125-33-50
	362T125-43-50	7'-5"	7'-10"	8'-2"	8'-6"	8'-10"	9'-2"	9'-6"	362T125-43-50
	362T125-54-50	9'-1"	9'-7"	10'-0"	10'-5"	10'-10"	11'-3"	11'-7"	362T125-54-50
	362T125-68-50	11'-0"	11'-7"	12'-1"	12'-7"	13'-1"	13'-7"	14'-0"	362T125-68-50
	362T125-97-50	13'-5"	14'-1"	14'-8"	15'-4"	15'-11"	16'-6"	17'-1"	362T125-97-50
0.3	362T125-33-50	6'-2"	6'-6"	6'-9"	7'-1"	7'-4"	7'-7"	7'-10"	362T125-33-50
	362T125-43-50	7'-11"	8'-4"	8'-8"	9'-1"	9'-5"	9'-9"	10'-1"	362T125-43-50
	362T125-54-50	9'-8"	10'-2"	10'-8"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-54-50
	362T125-68-50	11'-8"	12'-3"	12'-10"	13'-5"	13'-11"	14'-5"	14'-11"	362T125-68-50
	362T125-97-50	14'-3"	14'-11"	15'-7"	16'-3"	16'-11"	17'-6"	18'-1"	362T125-97-50
0.2	362T125-33-50	6'-7"	6'-11"	7'-3"	7'-7"	7'-11"	8'-2"	8'-5"	362T125-33-50
	362T125-43-50	8'-6"	8'-11"	9'-4"	9'-9"	10'-1"	10'-6"	10'-10"	362T125-43-50
	362T125-54-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-4"	12'-10"	13'-3"	362T125-54-50
	362T125-68-50	12'-6"	13'-2"	13'-9"	14'-4"	14'-11"	15'-5"	16'-0"	362T125-68-50
	362T125-97-50	15'-3"	16'-0"	16'-9"	17'-5"	18'-1"	18'-9"	19'-5"	362T125-97-50
0.1	362T125-33-50	7'-2"	7'-6"	7'-11"	8'-3"	8'-7"	8'-10"	9'-2"	362T125-33-50
	362T125-43-50	9'-2"	9'-8"	10'-1"	10'-7"	10'-11"	11'-4"	11'-9"	362T125-43-50
	362T125-54-50	11'-3"	11'-10"	12'-4"	12'-11"	13'-5"	13'-10"	14'-4"	362T125-54-50
	362T125-68-50	13'-7"	14'-3"	14'-11"	15'-6"	16'-2"	16'-9"	17'-3"	362T125-68-50
	362T125-97-50	16'-6"	17'-4"	18'-1"	18'-11"	19'-7"	20'-4"	21'-0"	362T125-97-50
0.0	362T125-33-50	7'-8"	8'-1"	8'-6"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-33-50
	362T125-43-50	9'-10"	10'-4"	10'-10"	11'-4"	11'-9"	12'-2"	12'-7"	362T125-43-50
	362T125-54-50	12'-1"	12'-8"	13'-3"	13'-10"	14'-4"	14'-10"	15'-4"	362T125-54-50
	362T125-68-50	14'-7"	15'-3"	16'-0"	16'-8"	17'-3"	17'-11"	18'-6"	362T125-68-50
	362T125-97-50	17'-8"	18'-7"	19'-5"	20'-3"	21'-0"	21'-9"	22'-6"	362T125-97-50

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TABLE 4.7.4.204: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.00 Weight 4200 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	4'-3"	4'-6"	4'-8"	4'-11"	5'-1"	5'-3"	5'-6"	362T125-33-50
	362T125-43-50	5'-6"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	362T125-43-50
	362T125-54-50	6'-9"	7'-1"	7'-5"	7'-9"	8'-1"	8'-4"	8'-8"	362T125-54-50
	362T125-68-50	8'-2"	8'-7"	9'-0"	9'-5"	9'-9"	10'-1"	10'-6"	362T125-68-50
	362T125-97-50	10'-0"	10'-6"	11'-0"	11'-5"	11'-11"	12'-4"	12'-9"	362T125-97-50
0.9	362T125-33-50	4'-5"	4'-8"	4'-10"	5'-1"	5'-3"	5'-6"	5'-8"	362T125-33-50
	362T125-43-50	5'-9"	6'-0"	6'-4"	6'-7"	6'-10"	7'-1"	7'-4"	362T125-43-50
	362T125-54-50	7'-0"	7'-5"	7'-9"	8'-1"	8'-4"	8'-8"	9'-0"	362T125-54-50
	362T125-68-50	8'-6"	8'-11"	9'-4"	9'-9"	10'-1"	10'-6"	10'-10"	362T125-68-50
	362T125-97-50	10'-4"	10'-11"	11'-5"	11'-10"	12'-4"	12'-9"	13'-3"	362T125-97-50
0.8	362T125-33-50	4'-7"	4'-10"	5'-1"	5'-4"	5'-6"	5'-9"	5'-11"	362T125-33-50
	362T125-43-50	5'-11"	6'-3"	6'-7"	6'-10"	7'-1"	7'-4"	7'-7"	362T125-43-50
	362T125-54-50	7'-4"	7'-8"	8'-0"	8'-5"	8'-9"	9'-0"	9'-4"	362T125-54-50
	362T125-68-50	8'-10"	9'-3"	9'-9"	10'-2"	10'-6"	10'-11"	11'-3"	362T125-68-50
	362T125-97-50	10'-9"	11'-4"	11'-10"	12'-4"	12'-10"	13'-3"	13'-9"	362T125-97-50
0.7	362T125-33-50	4'-10"	5'-1"	5'-4"	5'-6"	5'-9"	6'-0"	6'-2"	362T125-33-50
	362T125-43-50	6'-3"	6'-6"	6'-10"	7'-2"	7'-5"	7'-8"	7'-11"	362T125-43-50
	362T125-54-50	7'-7"	8'-0"	8'-5"	8'-9"	9'-1"	9'-5"	9'-9"	362T125-54-50
	362T125-68-50	9'-3"	9'-8"	10'-2"	10'-7"	11'-0"	11'-5"	11'-9"	362T125-68-50
	362T125-97-50	11'-3"	11'-10"	12'-4"	12'-10"	13'-4"	13'-10"	14'-4"	362T125-97-50
0.6	362T125-33-50	5'-1"	5'-4"	5'-7"	5'-10"	6'-0"	6'-3"	6'-6"	362T125-33-50
	362T125-43-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-9"	8'-1"	8'-4"	362T125-43-50
	362T125-54-50	8'-0"	8'-5"	8'-9"	9'-2"	9'-6"	9'-10"	10'-2"	362T125-54-50
	362T125-68-50	9'-8"	10'-2"	10'-7"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-68-50
	362T125-97-50	11'-9"	12'-4"	12'-11"	13'-6"	14'-0"	14'-6"	15'-0"	362T125-97-50
0.5	362T125-33-50	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	362T125-33-50
	362T125-43-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-2"	8'-6"	8'-9"	362T125-43-50
	362T125-54-50	8'-5"	8'-10"	9'-3"	9'-7"	10'-0"	10'-4"	10'-9"	362T125-54-50
	362T125-68-50	10'-2"	10'-8"	11'-2"	11'-7"	12'-1"	12'-6"	12'-11"	362T125-68-50
	362T125-97-50	12'-4"	13'-0"	13'-7"	14'-2"	14'-8"	15'-3"	15'-9"	362T125-97-50
0.4	362T125-33-50	5'-8"	5'-11"	6'-2"	6'-6"	6'-9"	7'-0"	7'-2"	362T125-33-50
	362T125-43-50	7'-3"	7'-7"	8'-0"	8'-4"	8'-8"	8'-11"	9'-3"	362T125-43-50
	362T125-54-50	8'-10"	9'-4"	9'-9"	10'-2"	10'-7"	10'-11"	11'-4"	362T125-54-50
	362T125-68-50	10'-9"	11'-3"	11'-9"	12'-3"	12'-9"	13'-3"	13'-8"	362T125-68-50
	362T125-97-50	13'-1"	13'-8"	14'-4"	14'-11"	15'-6"	16'-1"	16'-7"	362T125-97-50
0.3	362T125-33-50	6'-0"	6'-4"	6'-7"	6'-11"	7'-2"	7'-5"	7'-8"	362T125-33-50
	362T125-43-50	7'-9"	8'-1"	8'-6"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-43-50
	362T125-54-50	9'-5"	9'-11"	10'-4"	10'-10"	11'-3"	11'-8"	12'-0"	362T125-54-50
	362T125-68-50	11'-5"	12'-0"	12'-6"	13'-1"	13'-7"	14'-1"	14'-6"	362T125-68-50
	362T125-97-50	13'-10"	14'-7"	15'-3"	15'-10"	16'-6"	17'-1"	17'-8"	362T125-97-50
0.2	362T125-33-50	6'-5"	6'-9"	7'-1"	7'-5"	7'-8"	8'-0"	8'-3"	362T125-33-50
	362T125-43-50	8'-3"	8'-8"	9'-1"	9'-6"	9'-10"	10'-3"	10'-7"	362T125-43-50
	362T125-54-50	10'-1"	10'-8"	11'-1"	11'-7"	12'-0"	12'-6"	12'-11"	362T125-54-50
	362T125-68-50	12'-3"	12'-10"	13'-5"	14'-0"	14'-6"	15'-1"	15'-7"	362T125-68-50
	362T125-97-50	14'-10"	15'-7"	16'-4"	17'-0"	17'-8"	18'-4"	18'-11"	362T125-97-50
0.1	362T125-33-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	8'-11"	362T125-33-50
	362T125-43-50	9'-0"	9'-5"	9'-10"	10'-3"	10'-8"	11'-1"	11'-5"	362T125-43-50
	362T125-54-50	11'-0"	11'-6"	12'-1"	12'-7"	13'-1"	13'-6"	14'-0"	362T125-54-50
	362T125-68-50	13'-3"	13'-11"	14'-6"	15'-2"	15'-9"	16'-4"	16'-10"	362T125-68-50
	362T125-97-50	16'-1"	16'-11"	17'-8"	18'-5"	19'-1"	19'-10"	20'-6"	362T125-97-50
0.0	362T125-33-50	7'-6"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	9'-7"	362T125-33-50
	362T125-43-50	9'-7"	10'-1"	10'-7"	11'-0"	11'-5"	11'-10"	12'-3"	362T125-43-50
	362T125-54-50	11'-9"	12'-4"	12'-11"	13'-5"	14'-0"	14'-6"	15'-0"	362T125-54-50
	362T125-68-50	14'-2"	14'-11"	15'-7"	16'-3"	16'-10"	17'-6"	18'-1"	362T125-68-50
	362T125-97-50	17'-3"	18'-1"	18'-11"	19'-9"	20'-6"	21'-3"	21'-11"	362T125-97-50

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TABLE 4.7.4.205: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.00 Weight 4400 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	4'-2"	4'-4"	4'-7"	4'-9"	5'-0"	5'-2"	5'-4"	362T125-33-50
	362T125-43-50	5'-4"	5'-8"	5'-11"	6'-2"	6'-5"	6'-8"	6'-11"	362T125-43-50
	362T125-54-50	6'-7"	6'-11"	7'-3"	7'-7"	7'-11"	8'-2"	8'-5"	362T125-54-50
	362T125-68-50	8'-0"	8'-5"	8'-9"	9'-2"	9'-6"	9'-10"	10'-3"	362T125-68-50
	362T125-97-50	9'-9"	10'-3"	10'-9"	11'-2"	11'-7"	12'-0"	12'-5"	362T125-97-50
0.9	362T125-33-50	4'-4"	4'-6"	4'-9"	4'-11"	5'-2"	5'-4"	5'-6"	362T125-33-50
	362T125-43-50	5'-7"	5'-10"	6'-2"	6'-5"	6'-8"	6'-11"	7'-2"	362T125-43-50
	362T125-54-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-2"	8'-6"	8'-9"	362T125-54-50
	362T125-68-50	8'-3"	8'-8"	9'-1"	9'-6"	9'-11"	10'-3"	10'-7"	362T125-68-50
	362T125-97-50	10'-1"	10'-7"	11'-1"	11'-7"	12'-0"	12'-6"	12'-11"	362T125-97-50
0.8	362T125-33-50	4'-6"	4'-9"	4'-11"	5'-2"	5'-4"	5'-7"	5'-9"	362T125-33-50
	362T125-43-50	5'-10"	6'-1"	6'-5"	6'-8"	6'-11"	7'-2"	7'-5"	362T125-43-50
	362T125-54-50	7'-2"	7'-6"	7'-10"	8'-2"	8'-6"	8'-10"	9'-1"	362T125-54-50
	362T125-68-50	8'-7"	9'-1"	9'-6"	9'-11"	10'-3"	10'-8"	11'-0"	362T125-68-50
	362T125-97-50	10'-6"	11'-0"	11'-7"	12'-0"	12'-6"	13'-0"	13'-5"	362T125-97-50
0.7	362T125-33-50	4'-8"	4'-11"	5'-2"	5'-5"	5'-7"	5'-10"	6'-0"	362T125-33-50
	362T125-43-50	6'-1"	6'-4"	6'-8"	7'-0"	7'-3"	7'-6"	7'-9"	362T125-43-50
	362T125-54-50	7'-5"	7'-10"	8'-2"	8'-6"	8'-10"	9'-2"	9'-6"	362T125-54-50
	362T125-68-50	9'-0"	9'-5"	9'-11"	10'-4"	10'-9"	11'-1"	11'-6"	362T125-68-50
	362T125-97-50	10'-11"	11'-6"	12'-1"	12'-7"	13'-1"	13'-6"	14'-0"	362T125-97-50
0.6	362T125-33-50	4'-11"	5'-2"	5'-5"	5'-8"	5'-11"	6'-1"	6'-4"	362T125-33-50
	362T125-43-50	6'-4"	6'-8"	7'-0"	7'-3"	7'-7"	7'-10"	8'-1"	362T125-43-50
	362T125-54-50	7'-9"	8'-2"	8'-7"	8'-11"	9'-3"	9'-7"	9'-11"	362T125-54-50
	362T125-68-50	9'-5"	9'-11"	10'-4"	10'-9"	11'-3"	11'-7"	12'-0"	362T125-68-50
	362T125-97-50	11'-6"	12'-1"	12'-7"	13'-2"	13'-8"	14'-2"	14'-7"	362T125-97-50
0.5	362T125-33-50	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	6'-8"	362T125-33-50
	362T125-43-50	6'-8"	7'-0"	7'-4"	7'-8"	8'-0"	8'-3"	8'-7"	362T125-43-50
	362T125-54-50	8'-2"	8'-7"	9'-0"	9'-5"	9'-9"	10'-1"	10'-5"	362T125-54-50
	362T125-68-50	9'-11"	10'-5"	10'-11"	11'-4"	11'-9"	12'-3"	12'-8"	362T125-68-50
	362T125-97-50	12'-1"	12'-8"	13'-3"	13'-10"	14'-4"	14'-10"	15'-4"	362T125-97-50
0.4	362T125-33-50	5'-6"	5'-9"	6'-0"	6'-4"	6'-7"	6'-10"	7'-0"	362T125-33-50
	362T125-43-50	7'-1"	7'-5"	7'-9"	8'-1"	8'-5"	8'-9"	9'-0"	362T125-43-50
	362T125-54-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-8"	11'-1"	362T125-54-50
	362T125-68-50	10'-5"	11'-0"	11'-6"	12'-0"	12'-5"	12'-11"	13'-4"	362T125-68-50
	362T125-97-50	12'-9"	13'-5"	14'-0"	14'-7"	15'-2"	15'-8"	16'-3"	362T125-97-50
0.3	362T125-33-50	5'-10"	6'-2"	6'-5"	6'-9"	7'-0"	7'-3"	7'-6"	362T125-33-50
	362T125-43-50	7'-6"	7'-11"	8'-3"	8'-8"	9'-0"	9'-4"	9'-7"	362T125-43-50
	362T125-54-50	9'-3"	9'-8"	10'-1"	10'-7"	11'-0"	11'-4"	11'-9"	362T125-54-50
	362T125-68-50	11'-1"	11'-8"	12'-3"	12'-9"	13'-3"	13'-9"	14'-2"	362T125-68-50
	362T125-97-50	13'-6"	14'-3"	14'-10"	15'-6"	16'-1"	16'-8"	17'-3"	362T125-97-50
0.2	362T125-33-50	6'-3"	6'-7"	6'-11"	7'-2"	7'-6"	7'-9"	8'-0"	362T125-33-50
	362T125-43-50	8'-1"	8'-6"	8'-11"	9'-3"	9'-7"	10'-0"	10'-4"	362T125-43-50
	362T125-54-50	9'-11"	10'-5"	10'-10"	11'-4"	11'-9"	12'-2"	12'-7"	362T125-54-50
	362T125-68-50	11'-11"	12'-6"	13'-1"	13'-8"	14'-2"	14'-8"	15'-2"	362T125-68-50
	362T125-97-50	14'-6"	15'-3"	15'-11"	16'-7"	17'-3"	17'-10"	18'-6"	362T125-97-50
0.1	362T125-33-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-2"	8'-5"	8'-9"	362T125-33-50
	362T125-43-50	8'-9"	9'-2"	9'-7"	10'-0"	10'-5"	10'-10"	11'-2"	362T125-43-50
	362T125-54-50	10'-8"	11'-3"	11'-9"	12'-3"	12'-9"	13'-2"	13'-8"	362T125-54-50
	362T125-68-50	12'-11"	13'-7"	14'-2"	14'-9"	15'-4"	15'-11"	16'-5"	362T125-68-50
	362T125-97-50	15'-9"	16'-6"	17'-3"	18'-0"	18'-8"	19'-4"	20'-0"	362T125-97-50
0.0	362T125-33-50	7'-4"	7'-8"	8'-1"	8'-5"	8'-9"	9'-0"	9'-4"	362T125-33-50
	362T125-43-50	9'-5"	9'-10"	10'-4"	10'-9"	11'-2"	11'-7"	12'-0"	362T125-43-50
	362T125-54-50	11'-6"	12'-1"	12'-7"	13'-2"	13'-8"	14'-2"	14'-7"	362T125-54-50
	362T125-68-50	13'-10"	14'-6"	15'-2"	15'-10"	16'-5"	17'-1"	17'-7"	362T125-68-50
	362T125-97-50	16'-10"	17'-8"	18'-6"	19'-3"	20'-0"	20'-9"	21'-5"	362T125-97-50

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TABLE 4.7.4.206: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.00 Weight 4600 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	4'-1"	4'-3"	4'-6"	4'-8"	4'-10"	5'-0"	5'-2"	362T125-33-50
	362T125-43-50	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	362T125-43-50
	362T125-54-50	6'-5"	6'-9"	7'-1"	7'-5"	7'-8"	8'-0"	8'-3"	362T125-54-50
	362T125-68-50	7'-10"	8'-2"	8'-7"	8'-11"	9'-4"	9'-8"	10'-0"	362T125-68-50
	362T125-97-50	9'-6"	10'-0"	10'-6"	10'-11"	11'-4"	11'-9"	12'-2"	362T125-97-50
0.9	362T125-33-50	4'-2"	4'-5"	4'-8"	4'-10"	5'-0"	5'-3"	5'-5"	362T125-33-50
	362T125-43-50	5'-5"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	362T125-43-50
	362T125-54-50	6'-8"	7'-0"	7'-4"	7'-8"	8'-0"	8'-3"	8'-7"	362T125-54-50
	362T125-68-50	8'-1"	8'-6"	8'-11"	9'-3"	9'-8"	10'-0"	10'-4"	362T125-68-50
	362T125-97-50	9'-10"	10'-4"	10'-10"	11'-4"	11'-9"	12'-2"	12'-7"	362T125-97-50
0.8	362T125-33-50	4'-5"	4'-7"	4'-10"	5'-0"	5'-3"	5'-5"	5'-7"	362T125-33-50
	362T125-43-50	5'-8"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	7'-3"	362T125-43-50
	362T125-54-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-7"	8'-11"	362T125-54-50
	362T125-68-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-0"	10'-5"	10'-9"	362T125-68-50
	362T125-97-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-3"	12'-8"	13'-1"	362T125-97-50
0.7	362T125-33-50	4'-7"	4'-10"	5'-1"	5'-3"	5'-6"	5'-8"	5'-10"	362T125-33-50
	362T125-43-50	5'-11"	6'-3"	6'-6"	6'-10"	7'-1"	7'-4"	7'-7"	362T125-43-50
	362T125-54-50	7'-3"	7'-8"	8'-0"	8'-4"	8'-8"	9'-0"	9'-3"	362T125-54-50
	362T125-68-50	8'-9"	9'-3"	9'-8"	10'-1"	10'-6"	10'-10"	11'-3"	362T125-68-50
	362T125-97-50	10'-8"	11'-3"	11'-9"	12'-3"	12'-9"	13'-3"	13'-8"	362T125-97-50
0.6	362T125-33-50	4'-10"	5'-1"	5'-3"	5'-6"	5'-9"	5'-11"	6'-2"	362T125-33-50
	362T125-43-50	6'-2"	6'-6"	6'-10"	7'-1"	7'-5"	7'-8"	7'-11"	362T125-43-50
	362T125-54-50	7'-7"	8'-0"	8'-4"	8'-9"	9'-1"	9'-5"	9'-9"	362T125-54-50
	362T125-68-50	9'-2"	9'-8"	10'-1"	10'-6"	10'-11"	11'-4"	11'-9"	362T125-68-50
	362T125-97-50	11'-2"	11'-9"	12'-4"	12'-10"	13'-4"	13'-10"	14'-3"	362T125-97-50
0.5	362T125-33-50	5'-1"	5'-4"	5'-7"	5'-10"	6'-1"	6'-3"	6'-6"	362T125-33-50
	362T125-43-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-9"	8'-1"	8'-4"	362T125-43-50
	362T125-54-50	8'-0"	8'-5"	8'-10"	9'-2"	9'-6"	9'-11"	10'-3"	362T125-54-50
	362T125-68-50	9'-8"	10'-2"	10'-8"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-68-50
	362T125-97-50	11'-9"	12'-4"	12'-11"	13'-6"	14'-0"	14'-6"	15'-0"	362T125-97-50
0.4	362T125-33-50	5'-4"	5'-8"	5'-11"	6'-2"	6'-5"	6'-8"	6'-10"	362T125-33-50
	362T125-43-50	6'-11"	7'-3"	7'-7"	7'-11"	8'-3"	8'-6"	8'-10"	362T125-43-50
	362T125-54-50	8'-5"	8'-11"	9'-4"	9'-8"	10'-1"	10'-5"	10'-10"	362T125-54-50
	362T125-68-50	10'-3"	10'-9"	11'-3"	11'-8"	12'-2"	12'-7"	13'-0"	362T125-68-50
	362T125-97-50	12'-5"	13'-1"	13'-8"	14'-3"	14'-10"	15'-4"	15'-10"	362T125-97-50
0.3	362T125-33-50	5'-8"	6'-0"	6'-3"	6'-7"	6'-10"	7'-1"	7'-4"	362T125-33-50
	362T125-43-50	7'-4"	7'-9"	8'-1"	8'-5"	8'-9"	9'-1"	9'-5"	362T125-43-50
	362T125-54-50	9'-0"	9'-5"	9'-11"	10'-4"	10'-9"	11'-1"	11'-6"	362T125-54-50
	362T125-68-50	10'-10"	11'-5"	11'-11"	12'-5"	12'-11"	13'-5"	13'-10"	362T125-68-50
	362T125-97-50	13'-3"	13'-11"	14'-6"	15'-2"	15'-9"	16'-4"	16'-10"	362T125-97-50
0.2	362T125-33-50	6'-2"	6'-5"	6'-9"	7'-0"	7'-4"	7'-7"	7'-10"	362T125-33-50
	362T125-43-50	7'-11"	8'-3"	8'-8"	9'-0"	9'-5"	9'-9"	10'-1"	362T125-43-50
	362T125-54-50	9'-8"	10'-2"	10'-7"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-54-50
	362T125-68-50	11'-8"	12'-3"	12'-10"	13'-4"	13'-10"	14'-4"	14'-10"	362T125-68-50
	362T125-97-50	14'-2"	14'-11"	15'-7"	16'-3"	16'-10"	17'-6"	18'-1"	362T125-97-50
0.1	362T125-33-50	6'-8"	7'-0"	7'-4"	7'-8"	7'-11"	8'-3"	8'-6"	362T125-33-50
	362T125-43-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-2"	10'-7"	10'-11"	362T125-43-50
	362T125-54-50	10'-5"	11'-0"	11'-6"	12'-0"	12'-5"	12'-11"	13'-4"	362T125-54-50
	362T125-68-50	12'-7"	13'-3"	13'-10"	14'-5"	15'-0"	15'-7"	16'-1"	362T125-68-50
	362T125-97-50	15'-4"	16'-1"	16'-10"	17'-7"	18'-3"	18'-11"	19'-6"	362T125-97-50
0.0	362T125-33-50	7'-2"	7'-6"	7'-10"	8'-2"	8'-6"	8'-10"	9'-2"	362T125-33-50
	362T125-43-50	9'-2"	9'-8"	10'-1"	10'-6"	10'-11"	11'-4"	11'-8"	362T125-43-50
	362T125-54-50	11'-3"	11'-9"	12'-4"	12'-10"	13'-4"	13'-10"	14'-3"	362T125-54-50
	362T125-68-50	13'-6"	14'-3"	14'-10"	15'-6"	16'-1"	16'-8"	17'-3"	362T125-68-50
	362T125-97-50	16'-5"	17'-3"	18'-1"	18'-10"	19'-7"	20'-3"	20'-11"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PCS-0003 By Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.207: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.00 Weight 4800 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	3'-11"	4'-2"	4'-4"	4'-7"	4'-9"	4'-11"	5'-1"	362T125-33-50
	362T125-43-50	5'-1"	5'-5"	5'-8"	5'-11"	6'-2"	6'-4"	6'-7"	362T125-43-50
	362T125-54-50	6'-4"	6'-7"	6'-11"	7'-3"	7'-6"	7'-10"	8'-1"	362T125-54-50
	362T125-68-50	7'-7"	8'-0"	8'-5"	8'-9"	9'-1"	9'-5"	9'-9"	362T125-68-50
	362T125-97-50	9'-4"	9'-9"	10'-3"	10'-8"	11'-1"	11'-6"	11'-11"	362T125-97-50
0.9	362T125-33-50	4'-1"	4'-4"	4'-6"	4'-9"	4'-11"	5'-1"	5'-3"	362T125-33-50
	362T125-43-50	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	362T125-43-50
	362T125-54-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-10"	8'-1"	8'-4"	362T125-54-50
	362T125-68-50	7'-11"	8'-4"	8'-8"	9'-1"	9'-5"	9'-9"	10'-1"	362T125-68-50
	362T125-97-50	9'-8"	10'-2"	10'-7"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-97-50
0.8	362T125-33-50	4'-3"	4'-6"	4'-9"	4'-11"	5'-1"	5'-4"	5'-6"	362T125-33-50
	362T125-43-50	5'-6"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	362T125-43-50
	362T125-54-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-1"	8'-5"	8'-8"	362T125-54-50
	362T125-68-50	8'-3"	8'-8"	9'-1"	9'-5"	9'-10"	10'-2"	10'-6"	362T125-68-50
	362T125-97-50	10'-0"	10'-7"	11'-0"	11'-6"	11'-11"	12'-5"	12'-10"	362T125-97-50
0.7	362T125-33-50	4'-6"	4'-8"	4'-11"	5'-2"	5'-4"	5'-7"	5'-9"	362T125-33-50
	362T125-43-50	5'-9"	6'-1"	6'-4"	6'-8"	6'-11"	7'-2"	7'-5"	362T125-43-50
	362T125-54-50	7'-1"	7'-6"	7'-10"	8'-2"	8'-6"	8'-9"	9'-1"	362T125-54-50
	362T125-68-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-3"	10'-7"	11'-0"	362T125-68-50
	362T125-97-50	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	12'-11"	13'-4"	362T125-97-50
0.6	362T125-33-50	4'-8"	4'-11"	5'-2"	5'-5"	5'-7"	5'-10"	6'-0"	362T125-33-50
	362T125-43-50	6'-1"	6'-4"	6'-8"	7'-0"	7'-3"	7'-6"	7'-9"	362T125-43-50
	362T125-54-50	7'-5"	7'-10"	8'-2"	8'-6"	8'-10"	9'-2"	9'-6"	362T125-54-50
	362T125-68-50	9'-0"	9'-5"	9'-11"	10'-4"	10'-9"	11'-1"	11'-6"	362T125-68-50
	362T125-97-50	10'-11"	11'-6"	12'-1"	12'-7"	13'-1"	13'-6"	14'-0"	362T125-97-50
0.5	362T125-33-50	4'-11"	5'-2"	5'-5"	5'-8"	5'-11"	6'-1"	6'-4"	362T125-33-50
	362T125-43-50	6'-5"	6'-8"	7'-0"	7'-4"	7'-7"	7'-11"	8'-2"	362T125-43-50
	362T125-54-50	7'-10"	8'-3"	8'-7"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-54-50
	362T125-68-50	9'-5"	9'-11"	10'-5"	10'-10"	11'-3"	11'-8"	12'-1"	362T125-68-50
	362T125-97-50	11'-6"	12'-1"	12'-8"	13'-2"	13'-9"	14'-2"	14'-8"	362T125-97-50
0.4	362T125-33-50	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-6"	6'-8"	362T125-33-50
	362T125-43-50	6'-9"	7'-1"	7'-5"	7'-9"	8'-1"	8'-4"	8'-8"	362T125-43-50
	362T125-54-50	8'-3"	8'-8"	9'-1"	9'-6"	9'-10"	10'-3"	10'-7"	362T125-54-50
	362T125-68-50	10'-0"	10'-6"	11'-0"	11'-5"	11'-11"	12'-4"	12'-9"	362T125-68-50
	362T125-97-50	12'-2"	12'-9"	13'-4"	13'-11"	14'-6"	15'-0"	15'-6"	362T125-97-50
0.3	362T125-33-50	5'-7"	5'-10"	6'-2"	6'-5"	6'-8"	6'-11"	7'-2"	362T125-33-50
	362T125-43-50	7'-2"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-2"	362T125-43-50
	362T125-54-50	8'-10"	9'-3"	9'-8"	10'-1"	10'-6"	10'-10"	11'-3"	362T125-54-50
	362T125-68-50	10'-8"	11'-2"	11'-8"	12'-2"	12'-8"	13'-1"	13'-7"	362T125-68-50
	362T125-97-50	12'-11"	13'-7"	14'-3"	14'-10"	15'-5"	15'-11"	16'-6"	362T125-97-50
0.2	362T125-33-50	6'-0"	6'-4"	6'-7"	6'-11"	7'-2"	7'-5"	7'-8"	362T125-33-50
	362T125-43-50	7'-9"	8'-1"	8'-6"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-43-50
	362T125-54-50	9'-5"	9'-11"	10'-4"	10'-10"	11'-3"	11'-8"	12'-0"	362T125-54-50
	362T125-68-50	11'-5"	12'-0"	12'-6"	13'-1"	13'-7"	14'-1"	14'-6"	362T125-68-50
	362T125-97-50	13'-10"	14'-7"	15'-3"	15'-10"	16'-6"	17'-1"	17'-8"	362T125-97-50
0.1	362T125-33-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-9"	8'-1"	8'-4"	362T125-33-50
	362T125-43-50	8'-4"	8'-9"	9'-2"	9'-7"	10'-0"	10'-4"	10'-8"	362T125-43-50
	362T125-54-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-2"	12'-7"	13'-0"	362T125-54-50
	362T125-68-50	12'-4"	13'-0"	13'-7"	14'-2"	14'-8"	15'-3"	15'-9"	362T125-68-50
	362T125-97-50	15'-0"	15'-9"	16'-6"	17'-2"	17'-10"	18'-6"	19'-1"	362T125-97-50
0.0	362T125-33-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	8'-11"	362T125-33-50
	362T125-43-50	9'-0"	9'-5"	9'-10"	10'-3"	10'-8"	11'-1"	11'-5"	362T125-43-50
	362T125-54-50	11'-0"	11'-6"	12'-1"	12'-7"	13'-1"	13'-6"	14'-0"	362T125-54-50
	362T125-68-50	13'-3"	13'-11"	14'-6"	15'-2"	15'-9"	16'-4"	16'-10"	362T125-68-50
	362T125-97-50	16'-1"	16'-11"	17'-8"	18'-5"	19'-1"	19'-10"	20'-6"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PCS-0003 BY Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.208: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.00 Weight 5000 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	3'-10"	4'-1"	4'-3"	4'-5"	4'-7"	4'-10"	5'-0"	362T125-33-50
	362T125-43-50	5'-0"	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-5"	362T125-43-50
	362T125-54-50	6'-2"	6'-6"	6'-9"	7'-1"	7'-4"	7'-8"	7'-11"	362T125-54-50
	362T125-68-50	7'-5"	7'-10"	8'-3"	8'-7"	8'-11"	9'-3"	9'-7"	362T125-68-50
	362T125-97-50	9'-1"	9'-7"	10'-0"	10'-5"	10'-10"	11'-3"	11'-8"	362T125-97-50
0.9	362T125-33-50	4'-0"	4'-3"	4'-5"	4'-7"	4'-10"	5'-0"	5'-2"	362T125-33-50
	362T125-43-50	5'-2"	5'-6"	5'-9"	6'-0"	6'-3"	6'-5"	6'-8"	362T125-43-50
	362T125-54-50	6'-5"	6'-9"	7'-0"	7'-4"	7'-8"	7'-11"	8'-2"	362T125-54-50
	362T125-68-50	7'-9"	8'-2"	8'-6"	8'-11"	9'-3"	9'-7"	9'-11"	362T125-68-50
	362T125-97-50	9'-5"	9'-11"	10'-5"	10'-10"	11'-3"	11'-8"	12'-1"	362T125-97-50
0.8	362T125-33-50	4'-2"	4'-5"	4'-7"	4'-10"	5'-0"	5'-2"	5'-4"	362T125-33-50
	362T125-43-50	5'-5"	5'-8"	6'-0"	6'-3"	6'-6"	6'-9"	6'-11"	362T125-43-50
	362T125-54-50	6'-8"	7'-0"	7'-4"	7'-8"	7'-11"	8'-3"	8'-6"	362T125-54-50
	362T125-68-50	8'-1"	8'-6"	8'-10"	9'-3"	9'-7"	9'-11"	10'-4"	362T125-68-50
	362T125-97-50	9'-10"	10'-4"	10'-10"	11'-3"	11'-8"	12'-2"	12'-6"	362T125-97-50
0.7	362T125-33-50	4'-4"	4'-7"	4'-10"	5'-0"	5'-3"	5'-5"	5'-7"	362T125-33-50
	362T125-43-50	5'-8"	5'-11"	6'-3"	6'-6"	6'-9"	7'-0"	7'-3"	362T125-43-50
	362T125-54-50	6'-11"	7'-4"	7'-8"	8'-0"	8'-3"	8'-7"	8'-11"	362T125-54-50
	362T125-68-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-0"	10'-5"	10'-9"	362T125-68-50
	362T125-97-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-2"	12'-8"	13'-1"	362T125-97-50
0.6	362T125-33-50	4'-7"	4'-10"	5'-1"	5'-3"	5'-6"	5'-8"	5'-11"	362T125-33-50
	362T125-43-50	5'-11"	6'-3"	6'-6"	6'-10"	7'-1"	7'-4"	7'-7"	362T125-43-50
	362T125-54-50	7'-3"	7'-8"	8'-0"	8'-4"	8'-8"	9'-0"	9'-4"	362T125-54-50
	362T125-68-50	8'-10"	9'-3"	9'-8"	10'-1"	10'-6"	10'-10"	11'-3"	362T125-68-50
	362T125-97-50	10'-9"	11'-3"	11'-9"	12'-3"	12'-9"	13'-3"	13'-8"	362T125-97-50
0.5	362T125-33-50	4'-10"	5'-1"	5'-4"	5'-7"	5'-9"	6'-0"	6'-2"	362T125-33-50
	362T125-43-50	6'-3"	6'-7"	6'-10"	7'-2"	7'-5"	7'-9"	8'-0"	362T125-43-50
	362T125-54-50	7'-8"	8'-1"	8'-5"	8'-9"	9'-1"	9'-5"	9'-9"	362T125-54-50
	362T125-68-50	9'-3"	9'-9"	10'-2"	10'-7"	11'-0"	11'-5"	11'-10"	362T125-68-50
	362T125-97-50	11'-3"	11'-10"	12'-5"	12'-11"	13'-5"	13'-11"	14'-5"	362T125-97-50
0.4	362T125-33-50	5'-1"	5'-5"	5'-8"	5'-11"	6'-1"	6'-4"	6'-7"	362T125-33-50
	362T125-43-50	6'-7"	6'-11"	7'-3"	7'-7"	7'-11"	8'-2"	8'-5"	362T125-43-50
	362T125-54-50	8'-1"	8'-6"	8'-11"	9'-3"	9'-8"	10'-0"	10'-4"	362T125-54-50
	362T125-68-50	9'-9"	10'-3"	10'-9"	11'-2"	11'-8"	12'-1"	12'-6"	362T125-68-50
	362T125-97-50	11'-11"	12'-6"	13'-1"	13'-8"	14'-2"	14'-8"	15'-2"	362T125-97-50
0.3	362T125-33-50	5'-5"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	362T125-33-50
	362T125-43-50	7'-0"	7'-5"	7'-9"	8'-1"	8'-5"	8'-8"	9'-0"	362T125-43-50
	362T125-54-50	8'-7"	9'-1"	9'-6"	9'-10"	10'-3"	10'-8"	11'-0"	362T125-54-50
	362T125-68-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-5"	12'-10"	13'-3"	362T125-68-50
	362T125-97-50	12'-8"	13'-4"	13'-11"	14'-6"	15'-1"	15'-7"	16'-2"	362T125-97-50
0.2	362T125-33-50	5'-10"	6'-2"	6'-5"	6'-9"	7'-0"	7'-3"	7'-6"	362T125-33-50
	362T125-43-50	7'-7"	7'-11"	8'-4"	8'-8"	9'-0"	9'-4"	9'-8"	362T125-43-50
	362T125-54-50	9'-3"	9'-8"	10'-2"	10'-7"	11'-0"	11'-5"	11'-9"	362T125-54-50
	362T125-68-50	11'-2"	11'-9"	12'-3"	12'-9"	13'-3"	13'-9"	14'-3"	362T125-68-50
	362T125-97-50	13'-7"	14'-3"	14'-11"	15'-7"	16'-2"	16'-9"	17'-3"	362T125-97-50
0.1	362T125-33-50	6'-4"	6'-8"	7'-0"	7'-4"	7'-7"	7'-10"	8'-2"	362T125-33-50
	362T125-43-50	8'-2"	8'-7"	9'-0"	9'-5"	9'-9"	10'-1"	10'-5"	362T125-43-50
	362T125-54-50	10'-0"	10'-6"	11'-0"	11'-6"	11'-11"	12'-4"	12'-9"	362T125-54-50
	362T125-68-50	12'-1"	12'-8"	13'-3"	13'-10"	14'-5"	14'-11"	15'-5"	362T125-68-50
	362T125-97-50	14'-8"	15'-5"	16'-2"	16'-10"	17'-6"	18'-1"	18'-9"	362T125-97-50
0.0	362T125-33-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-2"	8'-5"	8'-9"	362T125-33-50
	362T125-43-50	8'-9"	9'-3"	9'-8"	10'-1"	10'-5"	10'-10"	11'-2"	362T125-43-50
	362T125-54-50	10'-9"	11'-3"	11'-10"	12'-3"	12'-9"	13'-3"	13'-8"	362T125-54-50
	362T125-68-50	12'-11"	13'-7"	14'-3"	14'-10"	15'-5"	16'-0"	16'-6"	362T125-68-50
	362T125-97-50	15'-9"	16'-7"	17'-4"	18'-0"	18'-9"	19'-5"	20'-1"	362T125-97-50

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TABLE 4.7.4.209: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.30 Weight 2000 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	5'-6"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	362T125-33-50
	362T125-43-50	7'-2"	7'-6"	7'-10"	8'-2"	8'-6"	8'-10"	9'-1"	362T125-43-50
	362T125-54-50	8'-9"	9'-2"	9'-7"	10'-0"	10'-5"	10'-9"	11'-2"	362T125-54-50
	362T125-68-50	10'-6"	11'-1"	11'-7"	12'-1"	12'-7"	13'-0"	13'-5"	362T125-68-50
	362T125-97-50	12'-10"	13'-6"	14'-1"	14'-8"	15'-3"	15'-10"	16'-4"	362T125-97-50
0.9	362T125-33-50	5'-9"	6'-0"	6'-4"	6'-7"	6'-10"	7'-1"	7'-4"	362T125-33-50
	362T125-43-50	7'-5"	7'-9"	8'-2"	8'-6"	8'-10"	9'-2"	9'-5"	362T125-43-50
	362T125-54-50	9'-1"	9'-6"	9'-11"	10'-4"	10'-9"	11'-2"	11'-7"	362T125-54-50
	362T125-68-50	10'-11"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	13'-11"	362T125-68-50
	362T125-97-50	13'-4"	14'-0"	14'-7"	15'-3"	15'-10"	16'-5"	16'-11"	362T125-97-50
0.8	362T125-33-50	6'-0"	6'-3"	6'-7"	6'-10"	7'-2"	7'-5"	7'-8"	362T125-33-50
	362T125-43-50	7'-8"	8'-1"	8'-5"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-43-50
	362T125-54-50	9'-5"	9'-11"	10'-4"	10'-9"	11'-2"	11'-7"	12'-0"	362T125-54-50
	362T125-68-50	11'-4"	11'-11"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	362T125-68-50
	362T125-97-50	13'-10"	14'-6"	15'-2"	15'-10"	16'-5"	17'-0"	17'-7"	362T125-97-50
0.7	362T125-33-50	6'-3"	6'-7"	6'-10"	7'-2"	7'-5"	7'-9"	8'-0"	362T125-33-50
	362T125-43-50	8'-0"	8'-5"	8'-10"	9'-2"	9'-7"	9'-11"	10'-3"	362T125-43-50
	362T125-54-50	9'-10"	10'-4"	10'-9"	11'-3"	11'-8"	12'-1"	12'-6"	362T125-54-50
	362T125-68-50	11'-10"	12'-5"	13'-0"	13'-7"	14'-1"	14'-7"	15'-1"	362T125-68-50
	362T125-97-50	14'-5"	15'-2"	15'-10"	16'-6"	17'-2"	17'-9"	18'-4"	362T125-97-50
0.6	362T125-33-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-9"	8'-1"	8'-4"	362T125-33-50
	362T125-43-50	8'-5"	8'-10"	9'-3"	9'-7"	10'-0"	10'-4"	10'-9"	362T125-43-50
	362T125-54-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-3"	12'-8"	13'-1"	362T125-54-50
	362T125-68-50	12'-5"	13'-0"	13'-7"	14'-2"	14'-9"	15'-3"	15'-9"	362T125-68-50
	362T125-97-50	15'-1"	15'-10"	16'-7"	17'-3"	17'-11"	18'-7"	19'-2"	362T125-97-50
0.5	362T125-33-50	6'-10"	7'-3"	7'-7"	7'-11"	8'-2"	8'-6"	8'-9"	362T125-33-50
	362T125-43-50	8'-10"	9'-3"	9'-8"	10'-1"	10'-6"	10'-11"	11'-3"	362T125-43-50
	362T125-54-50	10'-9"	11'-4"	11'-10"	12'-4"	12'-10"	13'-4"	13'-9"	362T125-54-50
	362T125-68-50	13'-0"	13'-8"	14'-4"	14'-11"	15'-6"	16'-1"	16'-7"	362T125-68-50
	362T125-97-50	15'-10"	16'-8"	17'-5"	18'-1"	18'-10"	19'-6"	20'-2"	362T125-97-50
0.4	362T125-33-50	7'-3"	7'-8"	8'-0"	8'-4"	8'-8"	9'-0"	9'-3"	362T125-33-50
	362T125-43-50	9'-4"	9'-10"	10'-3"	10'-8"	11'-1"	11'-6"	11'-11"	362T125-43-50
	362T125-54-50	11'-5"	12'-0"	12'-6"	13'-1"	13'-7"	14'-0"	14'-6"	362T125-54-50
	362T125-68-50	13'-9"	14'-5"	15'-1"	15'-9"	16'-4"	16'-11"	17'-6"	362T125-68-50
	362T125-97-50	16'-9"	17'-7"	18'-4"	19'-1"	19'-10"	20'-7"	21'-3"	362T125-97-50
0.3	362T125-33-50	7'-9"	8'-2"	8'-6"	8'-10"	9'-3"	9'-7"	9'-10"	362T125-33-50
	362T125-43-50	9'-11"	10'-5"	10'-11"	11'-4"	11'-10"	12'-3"	12'-8"	362T125-43-50
	362T125-54-50	12'-1"	12'-9"	13'-4"	13'-10"	14'-5"	14'-11"	15'-5"	362T125-54-50
	362T125-68-50	14'-7"	15'-4"	16'-1"	16'-9"	17'-4"	18'-0"	18'-7"	362T125-68-50
	362T125-97-50	17'-9"	18'-8"	19'-6"	20'-4"	21'-1"	21'-10"	22'-7"	362T125-97-50
0.2	362T125-33-50	8'-4"	8'-9"	9'-1"	9'-6"	9'-11"	10'-3"	10'-7"	362T125-33-50
	362T125-43-50	10'-8"	11'-2"	11'-8"	12'-2"	12'-8"	13'-1"	13'-6"	362T125-43-50
	362T125-54-50	13'-0"	13'-8"	14'-3"	14'-10"	15'-5"	16'-0"	16'-6"	362T125-54-50
	362T125-68-50	15'-8"	16'-5"	17'-2"	17'-11"	18'-7"	19'-3"	19'-11"	362T125-68-50
	362T125-97-50	19'-0"	20'-0"	20'-11"	21'-9"	22'-7"	23'-5"	24'-2"	362T125-97-50
0.1	362T125-33-50	9'-0"	9'-5"	9'-11"	10'-4"	10'-8"	11'-1"	11'-6"	362T125-33-50
	362T125-43-50	11'-6"	12'-1"	12'-8"	13'-2"	13'-8"	14'-2"	14'-8"	362T125-43-50
	362T125-54-50	14'-1"	14'-9"	15'-5"	16'-1"	16'-8"	17'-4"	17'-11"	362T125-54-50
	362T125-68-50	16'-11"	17'-10"	18'-7"	19'-5"	20'-2"	20'-10"	21'-7"	362T125-68-50
	362T125-97-50	20'-7"	21'-7"	22'-7"	23'-6"	24'-5"	25'-4"	26'-2"	362T125-97-50
0.0	362T125-33-50	9'-8"	10'-2"	10'-7"	11'-1"	11'-6"	11'-11"	12'-3"	362T125-33-50
	362T125-43-50	12'-4"	12'-11"	13'-7"	14'-1"	14'-8"	15'-2"	15'-8"	362T125-43-50
	362T125-54-50	15'-1"	15'-10"	16'-6"	17'-3"	17'-11"	18'-6"	19'-2"	362T125-54-50
	362T125-68-50	18'-2"	19'-1"	19'-11"	20'-9"	21'-7"	22'-4"	23'-1"	362T125-68-50
	362T125-97-50	22'-1"	23'-2"	24'-2"	25'-2"	26'-2"	27'-1"	28'-0"	362T125-97-50

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TABLE 4.7.4.210: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.30 Weight 2200 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	362T125-33-50
	362T125-43-50	6'-9"	7'-1"	7'-5"	7'-9"	8'-1"	8'-4"	8'-8"	362T125-43-50
	362T125-54-50	8'-4"	8'-9"	9'-2"	9'-6"	9'-11"	10'-3"	10'-7"	362T125-54-50
	362T125-68-50	10'-0"	10'-6"	11'-0"	11'-6"	11'-11"	12'-4"	12'-10"	362T125-68-50
	362T125-97-50	12'-3"	12'-10"	13'-5"	14'-0"	14'-6"	15'-1"	15'-7"	362T125-97-50
0.9	362T125-33-50	5'-5"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	362T125-33-50
	362T125-43-50	7'-0"	7'-5"	7'-9"	8'-1"	8'-5"	8'-8"	9'-0"	362T125-43-50
	362T125-54-50	8'-7"	9'-1"	9'-6"	9'-10"	10'-3"	10'-7"	11'-0"	362T125-54-50
	362T125-68-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-5"	12'-10"	13'-3"	362T125-68-50
	362T125-97-50	12'-8"	13'-4"	13'-11"	14'-6"	15'-1"	15'-7"	16'-2"	362T125-97-50
0.8	362T125-33-50	5'-8"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	7'-3"	362T125-33-50
	362T125-43-50	7'-4"	7'-8"	8'-0"	8'-5"	8'-9"	9'-0"	9'-4"	362T125-43-50
	362T125-54-50	8'-11"	9'-5"	9'-10"	10'-3"	10'-8"	11'-1"	11'-5"	362T125-54-50
	362T125-68-50	10'-10"	11'-4"	11'-11"	12'-5"	12'-10"	13'-4"	13'-9"	362T125-68-50
	362T125-97-50	13'-2"	13'-10"	14'-5"	15'-1"	15'-8"	16'-3"	16'-9"	362T125-97-50
0.7	362T125-33-50	5'-11"	6'-3"	6'-6"	6'-10"	7'-1"	7'-4"	7'-7"	362T125-33-50
	362T125-43-50	7'-8"	8'-0"	8'-5"	8'-9"	9'-1"	9'-5"	9'-9"	362T125-43-50
	362T125-54-50	9'-4"	9'-10"	10'-3"	10'-8"	11'-1"	11'-6"	11'-11"	362T125-54-50
	362T125-68-50	11'-3"	11'-10"	12'-5"	12'-11"	13'-5"	13'-11"	14'-4"	362T125-68-50
	362T125-97-50	13'-9"	14'-5"	15'-1"	15'-8"	16'-4"	16'-11"	17'-6"	362T125-97-50
0.6	362T125-33-50	6'-3"	6'-6"	6'-10"	7'-2"	7'-5"	7'-8"	7'-11"	362T125-33-50
	362T125-43-50	8'-0"	8'-5"	8'-9"	9'-2"	9'-6"	9'-10"	10'-2"	362T125-43-50
	362T125-54-50	9'-9"	10'-3"	10'-9"	11'-2"	11'-7"	12'-1"	12'-5"	362T125-54-50
	362T125-68-50	11'-10"	12'-5"	13'-0"	13'-6"	14'-0"	14'-6"	15'-0"	362T125-68-50
	362T125-97-50	14'-4"	15'-1"	15'-9"	16'-5"	17'-1"	17'-8"	18'-3"	362T125-97-50
0.5	362T125-33-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-9"	8'-1"	8'-4"	362T125-33-50
	362T125-43-50	8'-5"	8'-10"	9'-3"	9'-7"	10'-0"	10'-4"	10'-9"	362T125-43-50
	362T125-54-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-3"	12'-8"	13'-1"	362T125-54-50
	362T125-68-50	12'-5"	13'-0"	13'-7"	14'-2"	14'-9"	15'-3"	15'-9"	362T125-68-50
	362T125-97-50	15'-1"	15'-10"	16'-7"	17'-3"	17'-11"	18'-7"	19'-2"	362T125-97-50
0.4	362T125-33-50	6'-11"	7'-3"	7'-7"	7'-11"	8'-3"	8'-6"	8'-10"	362T125-33-50
	362T125-43-50	8'-10"	9'-4"	9'-9"	10'-2"	10'-7"	10'-11"	11'-4"	362T125-43-50
	362T125-54-50	10'-10"	11'-5"	11'-11"	12'-5"	12'-11"	13'-4"	13'-10"	362T125-54-50
	362T125-68-50	13'-1"	13'-9"	14'-5"	15'-0"	15'-7"	16'-2"	16'-8"	362T125-68-50
	362T125-97-50	15'-11"	16'-9"	17'-6"	18'-3"	18'-11"	19'-7"	20'-3"	362T125-97-50
0.3	362T125-33-50	7'-4"	7'-9"	8'-1"	8'-5"	8'-9"	9'-1"	9'-5"	362T125-33-50
	362T125-43-50	9'-5"	9'-11"	10'-4"	10'-10"	11'-3"	11'-8"	12'-0"	362T125-43-50
	362T125-54-50	11'-6"	12'-1"	12'-8"	13'-2"	13'-9"	14'-3"	14'-8"	362T125-54-50
	362T125-68-50	13'-11"	14'-7"	15'-3"	15'-11"	16'-6"	17'-2"	17'-9"	362T125-68-50
	362T125-97-50	16'-11"	17'-9"	18'-7"	19'-4"	20'-1"	20'-10"	21'-6"	362T125-97-50
0.2	362T125-33-50	7'-11"	8'-3"	8'-8"	9'-1"	9'-5"	9'-9"	10'-1"	362T125-33-50
	362T125-43-50	10'-1"	10'-8"	11'-1"	11'-7"	12'-0"	12'-6"	12'-11"	362T125-43-50
	362T125-54-50	12'-4"	13'-0"	13'-7"	14'-2"	14'-8"	15'-3"	15'-9"	362T125-54-50
	362T125-68-50	14'-11"	15'-8"	16'-4"	17'-1"	17'-9"	18'-4"	19'-0"	362T125-68-50
	362T125-97-50	18'-1"	19'-0"	19'-11"	20'-9"	21'-6"	22'-3"	23'-0"	362T125-97-50
0.1	362T125-33-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-2"	10'-7"	10'-11"	362T125-33-50
	362T125-43-50	10'-11"	11'-6"	12'-0"	12'-7"	13'-0"	13'-6"	13'-11"	362T125-43-50
	362T125-54-50	13'-5"	14'-1"	14'-8"	15'-4"	15'-11"	16'-6"	17'-0"	362T125-54-50
	362T125-68-50	16'-2"	16'-11"	17'-9"	18'-6"	19'-2"	19'-10"	20'-6"	362T125-68-50
	362T125-97-50	19'-7"	20'-7"	21'-6"	22'-5"	23'-3"	24'-1"	24'-11"	362T125-97-50
0.0	362T125-33-50	9'-2"	9'-8"	10'-1"	10'-6"	10'-11"	11'-4"	11'-8"	362T125-33-50
	362T125-43-50	11'-9"	12'-4"	12'-11"	13'-5"	14'-0"	14'-6"	14'-11"	362T125-43-50
	362T125-54-50	14'-4"	15'-1"	15'-9"	16'-5"	17'-0"	17'-8"	18'-3"	362T125-54-50
	362T125-68-50	17'-3"	18'-2"	19'-0"	19'-9"	20'-7"	21'-3"	22'-0"	362T125-68-50
	362T125-97-50	21'-0"	22'-1"	23'-1"	24'-0"	24'-11"	25'-10"	26'-8"	362T125-97-50

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TABLE 4.7.4.211: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.30 Weight 2400 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	5'-0"	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-5"	362T125-33-50
	362T125-43-50	6'-6"	6'-10"	7'-1"	7'-5"	7'-9"	8'-0"	8'-3"	362T125-43-50
	362T125-54-50	7'-11"	8'-4"	8'-9"	9'-1"	9'-5"	9'-9"	10'-1"	362T125-54-50
	362T125-68-50	9'-7"	10'-1"	10'-6"	11'-0"	11'-5"	11'-10"	12'-3"	362T125-68-50
	362T125-97-50	11'-8"	12'-3"	12'-10"	13'-4"	13'-11"	14'-5"	14'-11"	362T125-97-50
0.9	362T125-33-50	5'-2"	5'-6"	5'-9"	6'-0"	6'-3"	6'-5"	6'-8"	362T125-33-50
	362T125-43-50	6'-9"	7'-1"	7'-5"	7'-8"	8'-0"	8'-4"	8'-7"	362T125-43-50
	362T125-54-50	8'-3"	8'-8"	9'-0"	9'-5"	9'-10"	10'-2"	10'-6"	362T125-54-50
	362T125-68-50	9'-11"	10'-5"	10'-11"	11'-5"	11'-10"	12'-3"	12'-8"	362T125-68-50
	362T125-97-50	12'-1"	12'-9"	13'-4"	13'-10"	14'-5"	14'-11"	15'-5"	362T125-97-50
0.8	362T125-33-50	5'-5"	5'-8"	6'-0"	6'-3"	6'-6"	6'-8"	6'-11"	362T125-33-50
	362T125-43-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	8'-11"	362T125-43-50
	362T125-54-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-2"	10'-7"	10'-11"	362T125-54-50
	362T125-68-50	10'-4"	10'-10"	11'-4"	11'-10"	12'-4"	12'-9"	13'-2"	362T125-68-50
	362T125-97-50	12'-7"	13'-3"	13'-10"	14'-5"	15'-0"	15'-6"	16'-0"	362T125-97-50
0.7	362T125-33-50	5'-8"	5'-11"	6'-3"	6'-6"	6'-9"	7'-0"	7'-3"	362T125-33-50
	362T125-43-50	7'-3"	7'-8"	8'-0"	8'-4"	8'-8"	9'-0"	9'-4"	362T125-43-50
	362T125-54-50	8'-11"	9'-4"	9'-10"	10'-3"	10'-7"	11'-0"	11'-5"	362T125-54-50
	362T125-68-50	10'-9"	11'-4"	11'-10"	12'-4"	12'-10"	13'-3"	13'-9"	362T125-68-50
	362T125-97-50	13'-1"	13'-9"	14'-5"	15'-0"	15'-7"	16'-2"	16'-8"	362T125-97-50
0.6	362T125-33-50	5'-11"	6'-3"	6'-6"	6'-10"	7'-1"	7'-4"	7'-7"	362T125-33-50
	362T125-43-50	7'-8"	8'-0"	8'-5"	8'-9"	9'-1"	9'-5"	9'-9"	362T125-43-50
	362T125-54-50	9'-4"	9'-10"	10'-3"	10'-8"	11'-1"	11'-6"	11'-11"	362T125-54-50
	362T125-68-50	11'-3"	11'-10"	12'-5"	12'-11"	13'-5"	13'-11"	14'-4"	362T125-68-50
	362T125-97-50	13'-9"	14'-5"	15'-1"	15'-8"	16'-4"	16'-11"	17'-6"	362T125-97-50
0.5	362T125-33-50	6'-3"	6'-7"	6'-10"	7'-2"	7'-5"	7'-9"	8'-0"	362T125-33-50
	362T125-43-50	8'-0"	8'-5"	8'-10"	9'-2"	9'-7"	9'-11"	10'-3"	362T125-43-50
	362T125-54-50	9'-10"	10'-4"	10'-9"	11'-3"	11'-8"	12'-1"	12'-6"	362T125-54-50
	362T125-68-50	11'-10"	12'-5"	13'-0"	13'-7"	14'-1"	14'-7"	15'-1"	362T125-68-50
	362T125-97-50	14'-5"	15'-2"	15'-10"	16'-6"	17'-2"	17'-9"	18'-4"	362T125-97-50
0.4	362T125-33-50	6'-7"	6'-11"	7'-3"	7'-7"	7'-10"	8'-2"	8'-5"	362T125-33-50
	362T125-43-50	8'-6"	8'-11"	9'-4"	9'-9"	10'-1"	10'-6"	10'-10"	362T125-43-50
	362T125-54-50	10'-4"	10'-11"	11'-5"	11'-10"	12'-4"	12'-9"	13'-2"	362T125-54-50
	362T125-68-50	12'-6"	13'-2"	13'-9"	14'-4"	14'-11"	15'-5"	15'-11"	362T125-68-50
	362T125-97-50	15'-3"	16'-0"	16'-9"	17'-5"	18'-1"	18'-9"	19'-4"	362T125-97-50
0.3	362T125-33-50	7'-0"	7'-5"	7'-9"	8'-1"	8'-4"	8'-8"	9'-0"	362T125-33-50
	362T125-43-50	9'-0"	9'-6"	9'-11"	10'-4"	10'-9"	11'-1"	11'-6"	362T125-43-50
	362T125-54-50	11'-0"	11'-7"	12'-1"	12'-7"	13'-1"	13'-7"	14'-0"	362T125-54-50
	362T125-68-50	13'-4"	14'-0"	14'-7"	15'-3"	15'-10"	16'-5"	16'-11"	362T125-68-50
	362T125-97-50	16'-2"	17'-0"	17'-9"	18'-6"	19'-3"	19'-11"	20'-7"	362T125-97-50
0.2	362T125-33-50	7'-6"	7'-11"	8'-4"	8'-8"	9'-0"	9'-4"	9'-7"	362T125-33-50
	362T125-43-50	9'-8"	10'-2"	10'-7"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-43-50
	362T125-54-50	11'-10"	12'-5"	13'-0"	13'-6"	14'-1"	14'-7"	15'-0"	362T125-54-50
	362T125-68-50	14'-3"	15'-0"	15'-8"	16'-4"	16'-11"	17'-7"	18'-2"	362T125-68-50
	362T125-97-50	17'-4"	18'-2"	19'-0"	19'-10"	20'-7"	21'-4"	22'-0"	362T125-97-50
0.1	362T125-33-50	8'-2"	8'-7"	9'-0"	9'-4"	9'-9"	10'-1"	10'-5"	362T125-33-50
	362T125-43-50	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	12'-11"	13'-4"	362T125-43-50
	362T125-54-50	12'-10"	13'-5"	14'-1"	14'-8"	15'-2"	15'-9"	16'-3"	362T125-54-50
	362T125-68-50	15'-5"	16'-2"	16'-11"	17'-8"	18'-4"	19'-0"	19'-8"	362T125-68-50
	362T125-97-50	18'-9"	19'-8"	20'-7"	21'-5"	22'-3"	23'-1"	23'-10"	362T125-97-50
0.0	362T125-33-50	8'-9"	9'-3"	9'-8"	10'-1"	10'-5"	10'-10"	11'-2"	362T125-33-50
	362T125-43-50	11'-3"	11'-10"	12'-4"	12'-10"	13'-4"	13'-10"	14'-4"	362T125-43-50
	362T125-54-50	13'-8"	14'-5"	15'-1"	15'-8"	16'-3"	16'-10"	17'-5"	362T125-54-50
	362T125-68-50	16'-6"	17'-4"	18'-2"	18'-11"	19'-8"	20'-4"	21'-0"	362T125-68-50
	362T125-97-50	20'-1"	21'-1"	22'-0"	22'-11"	23'-10"	24'-8"	25'-6"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PCE-0003 By: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.212: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.30 Weight 2600 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	4'-10"	5'-1"	5'-3"	5'-6"	5'-9"	5'-11"	6'-2"	362T125-33-50
	362T125-43-50	6'-2"	6'-6"	6'-10"	7'-1"	7'-5"	7'-8"	7'-11"	362T125-43-50
	362T125-54-50	7'-7"	8'-0"	8'-4"	8'-9"	9'-1"	9'-5"	9'-8"	362T125-54-50
	362T125-68-50	9'-2"	9'-8"	10'-1"	10'-6"	10'-11"	11'-4"	11'-9"	362T125-68-50
	362T125-97-50	11'-2"	11'-9"	12'-4"	12'-10"	13'-4"	13'-10"	14'-3"	362T125-97-50
0.9	362T125-33-50	5'-0"	5'-3"	5'-6"	5'-9"	5'-11"	6'-2"	6'-5"	362T125-33-50
	362T125-43-50	6'-5"	6'-9"	7'-1"	7'-5"	7'-8"	7'-11"	8'-3"	362T125-43-50
	362T125-54-50	7'-11"	8'-3"	8'-8"	9'-0"	9'-5"	9'-9"	10'-1"	362T125-54-50
	362T125-68-50	9'-6"	10'-0"	10'-6"	10'-11"	11'-4"	11'-9"	12'-2"	362T125-68-50
	362T125-97-50	11'-7"	12'-2"	12'-9"	13'-4"	13'-10"	14'-4"	14'-10"	362T125-97-50
0.8	362T125-33-50	5'-2"	5'-5"	5'-9"	5'-11"	6'-2"	6'-5"	6'-8"	362T125-33-50
	362T125-43-50	6'-8"	7'-0"	7'-4"	7'-8"	8'-0"	8'-3"	8'-7"	362T125-43-50
	362T125-54-50	8'-2"	8'-7"	9'-0"	9'-5"	9'-9"	10'-1"	10'-6"	362T125-54-50
	362T125-68-50	9'-11"	10'-5"	10'-11"	11'-4"	11'-10"	12'-3"	12'-8"	362T125-68-50
	362T125-97-50	12'-1"	12'-8"	13'-3"	13'-10"	14'-4"	14'-10"	15'-4"	362T125-97-50
0.7	362T125-33-50	5'-5"	5'-8"	6'-0"	6'-3"	6'-6"	6'-8"	6'-11"	362T125-33-50
	362T125-43-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	8'-11"	362T125-43-50
	362T125-54-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-2"	10'-7"	10'-11"	362T125-54-50
	362T125-68-50	10'-4"	10'-10"	11'-4"	11'-10"	12'-4"	12'-9"	13'-2"	362T125-68-50
	362T125-97-50	12'-7"	13'-3"	13'-10"	14'-5"	15'-0"	15'-6"	16'-0"	362T125-97-50
0.6	362T125-33-50	5'-8"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	7'-3"	362T125-33-50
	362T125-43-50	7'-4"	7'-8"	8'-0"	8'-5"	8'-9"	9'-0"	9'-4"	362T125-43-50
	362T125-54-50	8'-11"	9'-5"	9'-10"	10'-3"	10'-8"	11'-1"	11'-5"	362T125-54-50
	362T125-68-50	10'-10"	11'-4"	11'-11"	12'-5"	12'-10"	13'-4"	13'-9"	362T125-68-50
	362T125-97-50	13'-2"	13'-10"	14'-5"	15'-1"	15'-8"	16'-3"	16'-9"	362T125-97-50
0.5	362T125-33-50	6'-0"	6'-3"	6'-7"	6'-10"	7'-2"	7'-5"	7'-8"	362T125-33-50
	362T125-43-50	7'-8"	8'-1"	8'-5"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-43-50
	362T125-54-50	9'-5"	9'-11"	10'-4"	10'-9"	11'-2"	11'-7"	12'-0"	362T125-54-50
	362T125-68-50	11'-4"	11'-11"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	362T125-68-50
	362T125-97-50	13'-10"	14'-6"	15'-2"	15'-10"	16'-5"	17'-0"	17'-7"	362T125-97-50
0.4	362T125-33-50	6'-4"	6'-8"	6'-11"	7'-3"	7'-6"	7'-10"	8'-1"	362T125-33-50
	362T125-43-50	8'-2"	8'-6"	8'-11"	9'-4"	9'-8"	10'-0"	10'-4"	362T125-43-50
	362T125-54-50	9'-11"	10'-5"	10'-11"	11'-5"	11'-10"	12'-3"	12'-8"	362T125-54-50
	362T125-68-50	12'-0"	12'-7"	13'-2"	13'-9"	14'-3"	14'-10"	15'-4"	362T125-68-50
	362T125-97-50	14'-7"	15'-4"	16'-0"	16'-9"	17'-4"	18'-0"	18'-7"	362T125-97-50
0.3	362T125-33-50	6'-9"	7'-1"	7'-5"	7'-9"	8'-0"	8'-4"	8'-7"	362T125-33-50
	362T125-43-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-8"	11'-0"	362T125-43-50
	362T125-54-50	10'-7"	11'-1"	11'-7"	12'-1"	12'-7"	13'-0"	13'-6"	362T125-54-50
	362T125-68-50	12'-9"	13'-5"	14'-0"	14'-7"	15'-2"	15'-9"	16'-3"	362T125-68-50
	362T125-97-50	15'-6"	16'-4"	17'-0"	17'-9"	18'-5"	19'-1"	19'-9"	362T125-97-50
0.2	362T125-33-50	7'-3"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	362T125-33-50
	362T125-43-50	9'-3"	9'-9"	10'-2"	10'-7"	11'-0"	11'-5"	11'-10"	362T125-43-50
	362T125-54-50	11'-4"	11'-11"	12'-5"	13'-0"	13'-6"	14'-0"	14'-5"	362T125-54-50
	362T125-68-50	13'-8"	14'-4"	15'-0"	15'-8"	16'-3"	16'-10"	17'-5"	362T125-68-50
	362T125-97-50	16'-7"	17'-5"	18'-3"	19'-0"	19'-9"	20'-6"	21'-2"	362T125-97-50
0.1	362T125-33-50	7'-10"	8'-3"	8'-7"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-33-50
	362T125-43-50	10'-1"	10'-7"	11'-0"	11'-6"	11'-11"	12'-5"	12'-10"	362T125-43-50
	362T125-54-50	12'-3"	12'-11"	13'-6"	14'-1"	14'-7"	15'-1"	15'-7"	362T125-54-50
	362T125-68-50	14'-10"	15'-7"	16'-3"	16'-11"	17'-7"	18'-3"	18'-10"	362T125-68-50
	362T125-97-50	18'-0"	18'-11"	19'-9"	20'-7"	21'-5"	22'-2"	22'-11"	362T125-97-50
0.0	362T125-33-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-0"	10'-4"	10'-9"	362T125-33-50
	362T125-43-50	10'-9"	11'-4"	11'-10"	12'-4"	12'-10"	13'-3"	13'-9"	362T125-43-50
	362T125-54-50	13'-2"	13'-10"	14'-5"	15'-1"	15'-7"	16'-2"	16'-9"	362T125-54-50
	362T125-68-50	15'-10"	16'-8"	17'-5"	18'-2"	18'-10"	19'-6"	20'-2"	362T125-68-50
	362T125-97-50	19'-3"	20'-3"	21'-2"	22'-0"	22'-11"	23'-8"	24'-6"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PCS-0003 By Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.213: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.30 Weight 2800 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	4'-7"	4'-10"	5'-1"	5'-4"	5'-6"	5'-9"	5'-11"	362T125-33-50
	362T125-43-50	5'-11"	6'-3"	6'-7"	6'-10"	7'-1"	7'-4"	7'-7"	362T125-43-50
	362T125-54-50	7'-4"	7'-8"	8'-0"	8'-5"	8'-9"	9'-0"	9'-4"	362T125-54-50
	362T125-68-50	8'-10"	9'-3"	9'-9"	10'-2"	10'-6"	10'-11"	11'-3"	362T125-68-50
	362T125-97-50	10'-9"	11'-4"	11'-10"	12'-4"	12'-10"	13'-3"	13'-9"	362T125-97-50
0.9	362T125-33-50	4'-9"	5'-0"	5'-3"	5'-6"	5'-9"	5'-11"	6'-2"	362T125-33-50
	362T125-43-50	6'-2"	6'-6"	6'-10"	7'-1"	7'-4"	7'-8"	7'-11"	362T125-43-50
	362T125-54-50	7'-7"	8'-0"	8'-4"	8'-8"	9'-0"	9'-4"	9'-8"	362T125-54-50
	362T125-68-50	9'-2"	9'-8"	10'-1"	10'-6"	10'-11"	11'-4"	11'-8"	362T125-68-50
	362T125-97-50	11'-2"	11'-9"	12'-3"	12'-9"	13'-3"	13'-9"	14'-3"	362T125-97-50
0.8	362T125-33-50	5'-0"	5'-3"	5'-6"	5'-9"	5'-11"	6'-2"	6'-5"	362T125-33-50
	362T125-43-50	6'-5"	6'-9"	7'-1"	7'-5"	7'-8"	7'-11"	8'-3"	362T125-43-50
	362T125-54-50	7'-11"	8'-3"	8'-8"	9'-0"	9'-5"	9'-9"	10'-1"	362T125-54-50
	362T125-68-50	9'-6"	10'-0"	10'-6"	10'-11"	11'-4"	11'-9"	12'-2"	362T125-68-50
	362T125-97-50	11'-7"	12'-2"	12'-9"	13'-4"	13'-10"	14'-4"	14'-10"	362T125-97-50
0.7	362T125-33-50	5'-2"	5'-6"	5'-9"	6'-0"	6'-3"	6'-5"	6'-8"	362T125-33-50
	362T125-43-50	6'-9"	7'-1"	7'-5"	7'-8"	8'-0"	8'-4"	8'-7"	362T125-43-50
	362T125-54-50	8'-3"	8'-8"	9'-0"	9'-5"	9'-10"	10'-2"	10'-6"	362T125-54-50
	362T125-68-50	9'-11"	10'-5"	10'-11"	11'-5"	11'-10"	12'-3"	12'-8"	362T125-68-50
	362T125-97-50	12'-1"	12'-9"	13'-4"	13'-10"	14'-5"	14'-11"	15'-5"	362T125-97-50
0.6	362T125-33-50	5'-5"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	362T125-33-50
	362T125-43-50	7'-0"	7'-5"	7'-9"	8'-1"	8'-5"	8'-8"	9'-0"	362T125-43-50
	362T125-54-50	8'-7"	9'-1"	9'-6"	9'-10"	10'-3"	10'-7"	11'-0"	362T125-54-50
	362T125-68-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-5"	12'-10"	13'-3"	362T125-68-50
	362T125-97-50	12'-8"	13'-4"	13'-11"	14'-6"	15'-1"	15'-7"	16'-2"	362T125-97-50
0.5	362T125-33-50	5'-9"	6'-0"	6'-4"	6'-7"	6'-10"	7'-1"	7'-4"	362T125-33-50
	362T125-43-50	7'-5"	7'-9"	8'-2"	8'-6"	8'-10"	9'-2"	9'-5"	362T125-43-50
	362T125-54-50	9'-1"	9'-6"	9'-11"	10'-4"	10'-9"	11'-2"	11'-7"	362T125-54-50
	362T125-68-50	10'-11"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	13'-11"	362T125-68-50
	362T125-97-50	13'-4"	14'-0"	14'-7"	15'-3"	15'-10"	16'-5"	16'-11"	362T125-97-50
0.4	362T125-33-50	6'-1"	6'-5"	6'-8"	7'-0"	7'-3"	7'-6"	7'-9"	362T125-33-50
	362T125-43-50	7'-10"	8'-3"	8'-7"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-43-50
	362T125-54-50	9'-7"	10'-1"	10'-6"	10'-11"	11'-5"	11'-10"	12'-2"	362T125-54-50
	362T125-68-50	11'-7"	12'-2"	12'-8"	13'-3"	13'-9"	14'-3"	14'-9"	362T125-68-50
	362T125-97-50	14'-1"	14'-9"	15'-5"	16'-1"	16'-8"	17'-4"	17'-11"	362T125-97-50
0.3	362T125-33-50	6'-6"	6'-10"	7'-1"	7'-5"	7'-9"	8'-0"	8'-3"	362T125-33-50
	362T125-43-50	8'-4"	8'-9"	9'-2"	9'-6"	9'-11"	10'-3"	10'-7"	362T125-43-50
	362T125-54-50	10'-2"	10'-8"	11'-2"	11'-8"	12'-1"	12'-6"	13'-0"	362T125-54-50
	362T125-68-50	12'-3"	12'-11"	13'-6"	14'-1"	14'-7"	15'-2"	15'-8"	362T125-68-50
	362T125-97-50	14'-11"	15'-8"	16'-5"	17'-1"	17'-9"	18'-5"	19'-0"	362T125-97-50
0.2	362T125-33-50	6'-11"	7'-4"	7'-8"	8'-0"	8'-3"	8'-7"	8'-10"	362T125-33-50
	362T125-43-50	8'-11"	9'-4"	9'-10"	10'-3"	10'-7"	11'-0"	11'-4"	362T125-43-50
	362T125-54-50	10'-11"	11'-5"	12'-0"	12'-6"	13'-0"	13'-5"	13'-11"	362T125-54-50
	362T125-68-50	13'-2"	13'-10"	14'-5"	15'-1"	15'-8"	16'-3"	16'-9"	362T125-68-50
	362T125-97-50	16'-0"	16'-10"	17'-7"	18'-4"	19'-0"	19'-8"	20'-4"	362T125-97-50
0.1	362T125-33-50	7'-6"	7'-11"	8'-3"	8'-8"	9'-0"	9'-4"	9'-7"	362T125-33-50
	362T125-43-50	9'-8"	10'-2"	10'-8"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-43-50
	362T125-54-50	11'-10"	12'-5"	13'-0"	13'-6"	14'-1"	14'-7"	15'-0"	362T125-54-50
	362T125-68-50	14'-3"	15'-0"	15'-8"	16'-4"	16'-11"	17'-7"	18'-2"	362T125-68-50
	362T125-97-50	17'-4"	18'-2"	19'-0"	19'-10"	20'-7"	21'-4"	22'-0"	362T125-97-50
0.0	362T125-33-50	8'-1"	8'-6"	8'-11"	9'-3"	9'-8"	10'-0"	10'-4"	362T125-33-50
	362T125-43-50	10'-4"	10'-11"	11'-5"	11'-10"	12'-4"	12'-9"	13'-2"	362T125-43-50
	362T125-54-50	12'-8"	13'-4"	13'-11"	14'-6"	15'-0"	15'-7"	16'-1"	362T125-54-50
	362T125-68-50	15'-3"	16'-0"	16'-9"	17'-6"	18'-2"	18'-10"	19'-5"	362T125-68-50
	362T125-97-50	18'-7"	19'-6"	20'-4"	21'-3"	22'-0"	22'-10"	23'-7"	362T125-97-50

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TABLE 4.7.4.214: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.30 Weight 3000 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	4'-5"	4'-8"	4'-11"	5'-1"	5'-4"	5'-6"	5'-8"	362T125-33-50
	362T125-43-50	5'-9"	6'-0"	6'-4"	6'-7"	6'-10"	7'-1"	7'-4"	362T125-43-50
	362T125-54-50	7'-0"	7'-5"	7'-9"	8'-1"	8'-5"	8'-8"	9'-0"	362T125-54-50
	362T125-68-50	8'-6"	8'-11"	9'-4"	9'-9"	10'-2"	10'-6"	10'-11"	362T125-68-50
	362T125-97-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-4"	12'-10"	13'-3"	362T125-97-50
0.9	362T125-33-50	4'-7"	4'-10"	5'-1"	5'-4"	5'-6"	5'-9"	5'-11"	362T125-33-50
	362T125-43-50	5'-11"	6'-3"	6'-7"	6'-10"	7'-1"	7'-4"	7'-7"	362T125-43-50
	362T125-54-50	7'-4"	7'-8"	8'-0"	8'-5"	8'-9"	9'-0"	9'-4"	362T125-54-50
	362T125-68-50	8'-10"	9'-3"	9'-9"	10'-2"	10'-6"	10'-11"	11'-3"	362T125-68-50
	362T125-97-50	10'-9"	11'-4"	11'-10"	12'-4"	12'-10"	13'-3"	13'-9"	362T125-97-50
0.8	362T125-33-50	4'-10"	5'-1"	5'-3"	5'-6"	5'-9"	5'-11"	6'-2"	362T125-33-50
	362T125-43-50	6'-2"	6'-6"	6'-10"	7'-1"	7'-5"	7'-8"	7'-11"	362T125-43-50
	362T125-54-50	7'-7"	8'-0"	8'-4"	8'-9"	9'-1"	9'-5"	9'-8"	362T125-54-50
	362T125-68-50	9'-2"	9'-8"	10'-1"	10'-6"	10'-11"	11'-4"	11'-9"	362T125-68-50
	362T125-97-50	11'-2"	11'-9"	12'-4"	12'-10"	13'-4"	13'-10"	14'-3"	362T125-97-50
0.7	362T125-33-50	5'-0"	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-5"	362T125-33-50
	362T125-43-50	6'-6"	6'-10"	7'-1"	7'-5"	7'-9"	8'-0"	8'-3"	362T125-43-50
	362T125-54-50	7'-11"	8'-4"	8'-9"	9'-1"	9'-5"	9'-9"	10'-1"	362T125-54-50
	362T125-68-50	9'-7"	10'-1"	10'-6"	11'-0"	11'-5"	11'-10"	12'-3"	362T125-68-50
	362T125-97-50	11'-8"	12'-3"	12'-10"	13'-4"	13'-11"	14'-5"	14'-11"	362T125-97-50
0.6	362T125-33-50	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	362T125-33-50
	362T125-43-50	6'-9"	7'-1"	7'-5"	7'-9"	8'-1"	8'-4"	8'-8"	362T125-43-50
	362T125-54-50	8'-4"	8'-9"	9'-2"	9'-6"	9'-11"	10'-3"	10'-7"	362T125-54-50
	362T125-68-50	10'-0"	10'-6"	11'-0"	11'-6"	11'-11"	12'-4"	12'-10"	362T125-68-50
	362T125-97-50	12'-3"	12'-10"	13'-5"	14'-0"	14'-6"	15'-1"	15'-7"	362T125-97-50
0.5	362T125-33-50	5'-6"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	362T125-33-50
	362T125-43-50	7'-2"	7'-6"	7'-10"	8'-2"	8'-6"	8'-10"	9'-1"	362T125-43-50
	362T125-54-50	8'-9"	9'-2"	9'-7"	10'-0"	10'-5"	10'-9"	11'-2"	362T125-54-50
	362T125-68-50	10'-6"	11'-1"	11'-7"	12'-1"	12'-7"	13'-0"	13'-5"	362T125-68-50
	362T125-97-50	12'-10"	13'-6"	14'-1"	14'-8"	15'-3"	15'-10"	16'-4"	362T125-97-50
0.4	362T125-33-50	5'-10"	6'-2"	6'-5"	6'-9"	7'-0"	7'-3"	7'-6"	362T125-33-50
	362T125-43-50	7'-6"	7'-11"	8'-3"	8'-8"	9'-0"	9'-4"	9'-7"	362T125-43-50
	362T125-54-50	9'-3"	9'-8"	10'-2"	10'-7"	11'-0"	11'-5"	11'-9"	362T125-54-50
	362T125-68-50	11'-2"	11'-8"	12'-3"	12'-9"	13'-3"	13'-9"	14'-2"	362T125-68-50
	362T125-97-50	13'-7"	14'-3"	14'-11"	15'-6"	16'-1"	16'-8"	17'-3"	362T125-97-50
0.3	362T125-33-50	6'-3"	6'-7"	6'-10"	7'-2"	7'-5"	7'-9"	8'-0"	362T125-33-50
	362T125-43-50	8'-0"	8'-5"	8'-10"	9'-2"	9'-7"	9'-11"	10'-3"	362T125-43-50
	362T125-54-50	9'-10"	10'-4"	10'-9"	11'-3"	11'-8"	12'-1"	12'-6"	362T125-54-50
	362T125-68-50	11'-10"	12'-5"	13'-0"	13'-7"	14'-1"	14'-7"	15'-1"	362T125-68-50
	362T125-97-50	14'-5"	15'-2"	15'-10"	16'-6"	17'-2"	17'-9"	18'-4"	362T125-97-50
0.2	362T125-33-50	6'-8"	7'-0"	7'-4"	7'-8"	8'-0"	8'-3"	8'-7"	362T125-33-50
	362T125-43-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-3"	10'-7"	11'-0"	362T125-43-50
	362T125-54-50	10'-6"	11'-1"	11'-7"	12'-1"	12'-6"	13'-0"	13'-5"	362T125-54-50
	362T125-68-50	12'-8"	13'-4"	13'-11"	14'-6"	15'-1"	15'-8"	16'-2"	362T125-68-50
	362T125-97-50	15'-5"	16'-3"	16'-11"	17'-8"	18'-4"	19'-0"	19'-8"	362T125-97-50
0.1	362T125-33-50	7'-3"	7'-8"	8'-0"	8'-4"	8'-8"	9'-0"	9'-3"	362T125-33-50
	362T125-43-50	9'-4"	9'-10"	10'-3"	10'-8"	11'-1"	11'-6"	11'-11"	362T125-43-50
	362T125-54-50	11'-5"	12'-0"	12'-6"	13'-1"	13'-7"	14'-0"	14'-6"	362T125-54-50
	362T125-68-50	13'-9"	14'-5"	15'-1"	15'-9"	16'-4"	16'-11"	17'-6"	362T125-68-50
	362T125-97-50	16'-9"	17'-7"	18'-4"	19'-1"	19'-10"	20'-7"	21'-3"	362T125-97-50
0.0	362T125-33-50	7'-10"	8'-2"	8'-7"	8'-11"	9'-3"	9'-8"	9'-11"	362T125-33-50
	362T125-43-50	10'-0"	10'-6"	11'-0"	11'-5"	11'-11"	12'-4"	12'-9"	362T125-43-50
	362T125-54-50	12'-3"	12'-10"	13'-5"	14'-0"	14'-6"	15'-0"	15'-6"	362T125-54-50
	362T125-68-50	14'-9"	15'-6"	16'-2"	16'-10"	17'-6"	18'-2"	18'-9"	362T125-68-50
	362T125-97-50	17'-11"	18'-10"	19'-8"	20'-6"	21'-3"	22'-0"	22'-9"	362T125-97-50

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TABLE 4.7.4.215: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.30 Weight 3200 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	4'-3"	4'-6"	4'-9"	4'-11"	5'-1"	5'-4"	5'-6"	362T125-33-50
	362T125-43-50	5'-6"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	362T125-43-50
	362T125-54-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-1"	8'-5"	8'-8"	362T125-54-50
	362T125-68-50	8'-3"	8'-8"	9'-1"	9'-5"	9'-10"	10'-2"	10'-6"	362T125-68-50
	362T125-97-50	10'-0"	10'-7"	11'-0"	11'-6"	11'-11"	12'-5"	12'-10"	362T125-97-50
0.9	362T125-33-50	4'-5"	4'-8"	4'-11"	5'-1"	5'-4"	5'-6"	5'-8"	362T125-33-50
	362T125-43-50	5'-9"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	7'-4"	362T125-43-50
	362T125-54-50	7'-1"	7'-5"	7'-9"	8'-1"	8'-5"	8'-9"	9'-0"	362T125-54-50
	362T125-68-50	8'-6"	9'-0"	9'-5"	9'-9"	10'-2"	10'-7"	10'-11"	362T125-68-50
	362T125-97-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-5"	12'-10"	13'-3"	362T125-97-50
0.8	362T125-33-50	4'-8"	4'-10"	5'-1"	5'-4"	5'-6"	5'-9"	5'-11"	362T125-33-50
	362T125-43-50	6'-0"	6'-4"	6'-7"	6'-10"	7'-2"	7'-5"	7'-8"	362T125-43-50
	362T125-54-50	7'-4"	7'-9"	8'-1"	8'-5"	8'-9"	9'-1"	9'-5"	362T125-54-50
	362T125-68-50	8'-10"	9'-4"	9'-9"	10'-2"	10'-7"	11'-0"	11'-4"	362T125-68-50
	362T125-97-50	10'-10"	11'-4"	11'-11"	12'-5"	12'-11"	13'-4"	13'-10"	362T125-97-50
0.7	362T125-33-50	4'-10"	5'-1"	5'-4"	5'-7"	5'-9"	6'-0"	6'-2"	362T125-33-50
	362T125-43-50	6'-3"	6'-7"	6'-11"	7'-2"	7'-5"	7'-9"	8'-0"	362T125-43-50
	362T125-54-50	7'-8"	8'-1"	8'-5"	8'-9"	9'-2"	9'-6"	9'-9"	362T125-54-50
	362T125-68-50	9'-3"	9'-9"	10'-2"	10'-7"	11'-0"	11'-5"	11'-10"	362T125-68-50
	362T125-97-50	11'-3"	11'-10"	12'-5"	12'-11"	13'-5"	13'-11"	14'-5"	362T125-97-50
0.6	362T125-33-50	5'-1"	5'-4"	5'-7"	5'-10"	6'-1"	6'-3"	6'-6"	362T125-33-50
	362T125-43-50	6'-7"	6'-11"	7'-2"	7'-6"	7'-10"	8'-1"	8'-4"	362T125-43-50
	362T125-54-50	8'-0"	8'-5"	8'-10"	9'-2"	9'-7"	9'-11"	10'-3"	362T125-54-50
	362T125-68-50	9'-8"	10'-2"	10'-8"	11'-1"	11'-7"	12'-0"	12'-4"	362T125-68-50
	362T125-97-50	11'-10"	12'-5"	13'-0"	13'-6"	14'-1"	14'-7"	15'-1"	362T125-97-50
0.5	362T125-33-50	5'-4"	5'-7"	5'-11"	6'-2"	6'-5"	6'-7"	6'-10"	362T125-33-50
	362T125-43-50	6'-11"	7'-3"	7'-7"	7'-11"	8'-3"	8'-6"	8'-10"	362T125-43-50
	362T125-54-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-1"	10'-5"	10'-9"	362T125-54-50
	362T125-68-50	10'-2"	10'-8"	11'-2"	11'-8"	12'-2"	12'-7"	13'-0"	362T125-68-50
	362T125-97-50	12'-5"	13'-0"	13'-8"	14'-3"	14'-9"	15'-4"	15'-10"	362T125-97-50
0.4	362T125-33-50	5'-8"	5'-11"	6'-3"	6'-6"	6'-9"	7'-0"	7'-3"	362T125-33-50
	362T125-43-50	7'-3"	7'-8"	8'-0"	8'-4"	8'-8"	9'-0"	9'-4"	362T125-43-50
	362T125-54-50	8'-11"	9'-4"	9'-10"	10'-3"	10'-7"	11'-0"	11'-5"	362T125-54-50
	362T125-68-50	10'-9"	11'-4"	11'-10"	12'-4"	12'-10"	13'-3"	13'-9"	362T125-68-50
	362T125-97-50	13'-1"	13'-9"	14'-5"	15'-0"	15'-7"	16'-2"	16'-8"	362T125-97-50
0.3	362T125-33-50	6'-0"	6'-4"	6'-8"	6'-11"	7'-2"	7'-5"	7'-8"	362T125-33-50
	362T125-43-50	7'-9"	8'-2"	8'-6"	8'-11"	9'-3"	9'-7"	9'-11"	362T125-43-50
	362T125-54-50	9'-6"	10'-0"	10'-5"	10'-10"	11'-3"	11'-8"	12'-1"	362T125-54-50
	362T125-68-50	11'-5"	12'-0"	12'-7"	13'-1"	13'-8"	14'-1"	14'-7"	362T125-68-50
	362T125-97-50	13'-11"	14'-8"	15'-4"	15'-11"	16'-7"	17'-2"	17'-9"	362T125-97-50
0.2	362T125-33-50	6'-6"	6'-10"	7'-1"	7'-5"	7'-9"	8'-0"	8'-3"	362T125-33-50
	362T125-43-50	8'-4"	8'-9"	9'-2"	9'-6"	9'-11"	10'-3"	10'-7"	362T125-43-50
	362T125-54-50	10'-2"	10'-8"	11'-2"	11'-8"	12'-1"	12'-6"	13'-0"	362T125-54-50
	362T125-68-50	12'-3"	12'-11"	13'-6"	14'-1"	14'-7"	15'-2"	15'-8"	362T125-68-50
	362T125-97-50	14'-11"	15'-8"	16'-5"	17'-1"	17'-9"	18'-5"	19'-0"	362T125-97-50
0.1	362T125-33-50	7'-0"	7'-5"	7'-9"	8'-1"	8'-4"	8'-8"	9'-0"	362T125-33-50
	362T125-43-50	9'-0"	9'-6"	9'-11"	10'-4"	10'-9"	11'-1"	11'-6"	362T125-43-50
	362T125-54-50	11'-0"	11'-7"	12'-1"	12'-7"	13'-1"	13'-7"	14'-0"	362T125-54-50
	362T125-68-50	13'-4"	14'-0"	14'-7"	15'-3"	15'-10"	16'-5"	16'-11"	362T125-68-50
	362T125-97-50	16'-2"	17'-0"	17'-9"	18'-6"	19'-3"	19'-11"	20'-7"	362T125-97-50
0.0	362T125-33-50	7'-6"	7'-11"	8'-3"	8'-8"	9'-0"	9'-4"	9'-7"	362T125-33-50
	362T125-43-50	9'-8"	10'-2"	10'-8"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-43-50
	362T125-54-50	11'-10"	12'-5"	13'-0"	13'-6"	14'-1"	14'-7"	15'-0"	362T125-54-50
	362T125-68-50	14'-3"	15'-0"	15'-8"	16'-4"	16'-11"	17'-7"	18'-2"	362T125-68-50
	362T125-97-50	17'-4"	18'-2"	19'-0"	19'-10"	20'-7"	21'-4"	22'-0"	362T125-97-50

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TABLE 4.7.4.216: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.30 Weight 3400 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	4'-2"	4'-4"	4'-7"	4'-9"	4'-11"	5'-2"	5'-4"	362T125-33-50
	362T125-43-50	5'-4"	5'-8"	5'-11"	6'-2"	6'-5"	6'-8"	6'-10"	362T125-43-50
	362T125-54-50	6'-7"	6'-11"	7'-3"	7'-7"	7'-10"	8'-2"	8'-5"	362T125-54-50
	362T125-68-50	8'-0"	8'-4"	8'-9"	9'-2"	9'-6"	9'-10"	10'-2"	362T125-68-50
	362T125-97-50	9'-9"	10'-3"	10'-8"	11'-2"	11'-7"	12'-0"	12'-5"	362T125-97-50
0.9	362T125-33-50	4'-4"	4'-6"	4'-9"	4'-11"	5'-2"	5'-4"	5'-6"	362T125-33-50
	362T125-43-50	5'-7"	5'-10"	6'-2"	6'-5"	6'-8"	6'-11"	7'-2"	362T125-43-50
	362T125-54-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-2"	8'-5"	8'-9"	362T125-54-50
	362T125-68-50	8'-3"	8'-8"	9'-1"	9'-6"	9'-10"	10'-3"	10'-7"	362T125-68-50
	362T125-97-50	10'-1"	10'-7"	11'-1"	11'-7"	12'-0"	12'-5"	12'-10"	362T125-97-50
0.8	362T125-33-50	4'-6"	4'-9"	4'-11"	5'-2"	5'-4"	5'-7"	5'-9"	362T125-33-50
	362T125-43-50	5'-10"	6'-1"	6'-5"	6'-8"	6'-11"	7'-2"	7'-5"	362T125-43-50
	362T125-54-50	7'-1"	7'-6"	7'-10"	8'-2"	8'-6"	8'-9"	9'-1"	362T125-54-50
	362T125-68-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-3"	10'-7"	11'-0"	362T125-68-50
	362T125-97-50	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	12'-11"	13'-4"	362T125-97-50
0.7	362T125-33-50	4'-8"	4'-11"	5'-2"	5'-5"	5'-7"	5'-10"	6'-0"	362T125-33-50
	362T125-43-50	6'-1"	6'-4"	6'-8"	6'-11"	7'-3"	7'-6"	7'-9"	362T125-43-50
	362T125-54-50	7'-5"	7'-10"	8'-2"	8'-6"	8'-10"	9'-2"	9'-6"	362T125-54-50
	362T125-68-50	9'-0"	9'-5"	9'-10"	10'-3"	10'-8"	11'-1"	11'-5"	362T125-68-50
	362T125-97-50	10'-11"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	13'-11"	362T125-97-50
0.6	362T125-33-50	4'-11"	5'-2"	5'-5"	5'-8"	5'-10"	6'-1"	6'-4"	362T125-33-50
	362T125-43-50	6'-4"	6'-8"	7'-0"	7'-3"	7'-7"	7'-10"	8'-1"	362T125-43-50
	362T125-54-50	7'-9"	8'-2"	8'-7"	8'-11"	9'-3"	9'-7"	9'-11"	362T125-54-50
	362T125-68-50	9'-5"	9'-10"	10'-4"	10'-9"	11'-2"	11'-7"	12'-0"	362T125-68-50
	362T125-97-50	11'-5"	12'-0"	12'-7"	13'-1"	13'-7"	14'-1"	14'-7"	362T125-97-50
0.5	362T125-33-50	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	6'-7"	362T125-33-50
	362T125-43-50	6'-8"	7'-0"	7'-4"	7'-8"	7'-11"	8'-3"	8'-6"	362T125-43-50
	362T125-54-50	8'-2"	8'-7"	9'-0"	9'-4"	9'-9"	10'-1"	10'-5"	362T125-54-50
	362T125-68-50	9'-10"	10'-4"	10'-10"	11'-4"	11'-9"	12'-2"	12'-7"	362T125-68-50
	362T125-97-50	12'-0"	12'-8"	13'-3"	13'-9"	14'-4"	14'-10"	15'-4"	362T125-97-50
0.4	362T125-33-50	5'-6"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	362T125-33-50
	362T125-43-50	7'-1"	7'-5"	7'-9"	8'-1"	8'-5"	8'-9"	9'-0"	362T125-43-50
	362T125-54-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-3"	10'-8"	11'-0"	362T125-54-50
	362T125-68-50	10'-5"	11'-0"	11'-6"	11'-11"	12'-5"	12'-10"	13'-4"	362T125-68-50
	362T125-97-50	12'-8"	13'-4"	13'-11"	14'-7"	15'-1"	15'-8"	16'-2"	362T125-97-50
0.3	362T125-33-50	5'-10"	6'-2"	6'-5"	6'-8"	7'-0"	7'-3"	7'-6"	362T125-33-50
	362T125-43-50	7'-6"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	9'-7"	362T125-43-50
	362T125-54-50	9'-2"	9'-8"	10'-1"	10'-6"	10'-11"	11'-4"	11'-9"	362T125-54-50
	362T125-68-50	11'-1"	11'-8"	12'-2"	12'-9"	13'-2"	13'-8"	14'-2"	362T125-68-50
	362T125-97-50	13'-6"	14'-2"	14'-10"	15'-6"	16'-1"	16'-8"	17'-2"	362T125-97-50
0.2	362T125-33-50	6'-3"	6'-7"	6'-11"	7'-2"	7'-6"	7'-9"	8'-0"	362T125-33-50
	362T125-43-50	8'-1"	8'-6"	8'-10"	9'-3"	9'-7"	9'-11"	10'-3"	362T125-43-50
	362T125-54-50	9'-10"	10'-4"	10'-10"	11'-3"	11'-9"	12'-2"	12'-7"	362T125-54-50
	362T125-68-50	11'-11"	12'-6"	13'-1"	13'-7"	14'-2"	14'-8"	15'-2"	362T125-68-50
	362T125-97-50	14'-6"	15'-2"	15'-11"	16'-7"	17'-2"	17'-10"	18'-5"	362T125-97-50
0.1	362T125-33-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-1"	8'-5"	8'-8"	362T125-33-50
	362T125-43-50	8'-9"	9'-2"	9'-7"	10'-0"	10'-5"	10'-9"	11'-2"	362T125-43-50
	362T125-54-50	10'-8"	11'-3"	11'-9"	12'-3"	12'-8"	13'-2"	13'-7"	362T125-54-50
	362T125-68-50	12'-11"	13'-6"	14'-2"	14'-9"	15'-4"	15'-11"	16'-5"	362T125-68-50
	362T125-97-50	15'-8"	16'-6"	17'-3"	17'-11"	18'-8"	19'-4"	19'-11"	362T125-97-50
0.0	362T125-33-50	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	9'-0"	9'-4"	362T125-33-50
	362T125-43-50	9'-4"	9'-10"	10'-4"	10'-9"	11'-2"	11'-7"	11'-11"	362T125-43-50
	362T125-54-50	11'-5"	12'-0"	12'-7"	13'-1"	13'-7"	14'-1"	14'-7"	362T125-54-50
	362T125-68-50	13'-10"	14'-6"	15'-2"	15'-10"	16'-5"	17'-0"	17'-7"	362T125-68-50
	362T125-97-50	16'-9"	17'-8"	18'-5"	19'-2"	19'-11"	20'-8"	21'-4"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PCS-0003 BY Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.217: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.30 Weight 3600 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	4'-0"	4'-3"	4'-5"	4'-7"	4'-10"	5'-0"	5'-2"	362T125-33-50
	362T125-43-50	5'-2"	5'-6"	5'-9"	6'-0"	6'-3"	6'-5"	6'-8"	362T125-43-50
	362T125-54-50	6'-5"	6'-9"	7'-0"	7'-4"	7'-7"	7'-11"	8'-2"	362T125-54-50
	362T125-68-50	7'-9"	8'-1"	8'-6"	8'-10"	9'-3"	9'-7"	9'-11"	362T125-68-50
	362T125-97-50	9'-5"	9'-11"	10'-4"	10'-10"	11'-3"	11'-8"	12'-1"	362T125-97-50
0.9	362T125-33-50	4'-2"	4'-5"	4'-7"	4'-9"	5'-0"	5'-2"	5'-4"	362T125-33-50
	362T125-43-50	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	6'-8"	6'-11"	362T125-43-50
	362T125-54-50	6'-8"	7'-0"	7'-4"	7'-7"	7'-11"	8'-2"	8'-6"	362T125-54-50
	362T125-68-50	8'-0"	8'-5"	8'-10"	9'-2"	9'-7"	9'-11"	10'-3"	362T125-68-50
	362T125-97-50	9'-9"	10'-3"	10'-9"	11'-3"	11'-8"	12'-1"	12'-6"	362T125-97-50
0.8	362T125-33-50	4'-4"	4'-7"	4'-9"	5'-0"	5'-2"	5'-5"	5'-7"	362T125-33-50
	362T125-43-50	5'-7"	5'-11"	6'-2"	6'-5"	6'-8"	6'-11"	7'-2"	362T125-43-50
	362T125-54-50	6'-11"	7'-3"	7'-7"	7'-11"	8'-3"	8'-6"	8'-10"	362T125-54-50
	362T125-68-50	8'-4"	8'-9"	9'-2"	9'-7"	9'-11"	10'-4"	10'-8"	362T125-68-50
	362T125-97-50	10'-2"	10'-8"	11'-2"	11'-8"	12'-1"	12'-7"	13'-0"	362T125-97-50
0.7	362T125-33-50	4'-6"	4'-9"	5'-0"	5'-3"	5'-5"	5'-7"	5'-10"	362T125-33-50
	362T125-43-50	5'-10"	6'-2"	6'-5"	6'-9"	7'-0"	7'-3"	7'-6"	362T125-43-50
	362T125-54-50	7'-2"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-2"	362T125-54-50
	362T125-68-50	8'-8"	9'-2"	9'-7"	10'-0"	10'-4"	10'-9"	11'-1"	362T125-68-50
	362T125-97-50	10'-7"	11'-2"	11'-8"	12'-2"	12'-8"	13'-1"	13'-6"	362T125-97-50
0.6	362T125-33-50	4'-9"	5'-0"	5'-3"	5'-6"	5'-8"	5'-11"	6'-1"	362T125-33-50
	362T125-43-50	6'-2"	6'-6"	6'-9"	7'-1"	7'-4"	7'-7"	7'-10"	362T125-43-50
	362T125-54-50	7'-6"	7'-11"	8'-3"	8'-8"	9'-0"	9'-4"	9'-8"	362T125-54-50
	362T125-68-50	9'-1"	9'-7"	10'-0"	10'-5"	10'-10"	11'-3"	11'-8"	362T125-68-50
	362T125-97-50	11'-1"	11'-8"	12'-2"	12'-9"	13'-3"	13'-8"	14'-2"	362T125-97-50
0.5	362T125-33-50	5'-0"	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-5"	362T125-33-50
	362T125-43-50	6'-6"	6'-10"	7'-1"	7'-5"	7'-9"	8'-0"	8'-3"	362T125-43-50
	362T125-54-50	7'-11"	8'-4"	8'-9"	9'-1"	9'-5"	9'-9"	10'-1"	362T125-54-50
	362T125-68-50	9'-7"	10'-1"	10'-6"	11'-0"	11'-5"	11'-10"	12'-3"	362T125-68-50
	362T125-97-50	11'-8"	12'-3"	12'-10"	13'-4"	13'-11"	14'-5"	14'-11"	362T125-97-50
0.4	362T125-33-50	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	362T125-33-50
	362T125-43-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-2"	8'-5"	8'-9"	362T125-43-50
	362T125-54-50	8'-5"	8'-10"	9'-3"	9'-7"	10'-0"	10'-4"	10'-8"	362T125-54-50
	362T125-68-50	10'-1"	10'-8"	11'-2"	11'-7"	12'-1"	12'-6"	12'-11"	362T125-68-50
	362T125-97-50	12'-4"	12'-11"	13'-7"	14'-1"	14'-8"	15'-2"	15'-9"	362T125-97-50
0.3	362T125-33-50	5'-8"	5'-11"	6'-3"	6'-6"	6'-9"	7'-0"	7'-3"	362T125-33-50
	362T125-43-50	7'-3"	7'-8"	8'-0"	8'-4"	8'-8"	9'-0"	9'-4"	362T125-43-50
	362T125-54-50	8'-11"	9'-4"	9'-10"	10'-3"	10'-7"	11'-0"	11'-5"	362T125-54-50
	362T125-68-50	10'-9"	11'-4"	11'-10"	12'-4"	12'-10"	13'-3"	13'-9"	362T125-68-50
	362T125-97-50	13'-1"	13'-9"	14'-5"	15'-0"	15'-7"	16'-2"	16'-8"	362T125-97-50
0.2	362T125-33-50	6'-1"	6'-5"	6'-8"	7'-0"	7'-3"	7'-6"	7'-9"	362T125-33-50
	362T125-43-50	7'-10"	8'-3"	8'-7"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-43-50
	362T125-54-50	9'-7"	10'-1"	10'-6"	10'-11"	11'-5"	11'-10"	12'-2"	362T125-54-50
	362T125-68-50	11'-7"	12'-2"	12'-8"	13'-3"	13'-9"	14'-3"	14'-9"	362T125-68-50
	362T125-97-50	14'-1"	14'-9"	15'-5"	16'-1"	16'-8"	17'-4"	17'-11"	362T125-97-50
0.1	362T125-33-50	6'-7"	6'-11"	7'-3"	7'-7"	7'-10"	8'-2"	8'-5"	362T125-33-50
	362T125-43-50	8'-6"	8'-11"	9'-4"	9'-9"	10'-1"	10'-6"	10'-10"	362T125-43-50
	362T125-54-50	10'-4"	10'-11"	11'-5"	11'-10"	12'-4"	12'-9"	13'-2"	362T125-54-50
	362T125-68-50	12'-6"	13'-2"	13'-9"	14'-4"	14'-11"	15'-5"	15'-11"	362T125-68-50
	362T125-97-50	15'-3"	16'-0"	16'-9"	17'-5"	18'-1"	18'-9"	19'-4"	362T125-97-50
0.0	362T125-33-50	7'-1"	7'-5"	7'-9"	8'-1"	8'-5"	8'-9"	9'-1"	362T125-33-50
	362T125-43-50	9'-1"	9'-7"	10'-0"	10'-5"	10'-10"	11'-2"	11'-7"	362T125-43-50
	362T125-54-50	11'-1"	11'-8"	12'-2"	12'-9"	13'-3"	13'-8"	14'-2"	362T125-54-50
	362T125-68-50	13'-5"	14'-1"	14'-9"	15'-4"	15'-11"	16'-6"	17'-1"	362T125-68-50
	362T125-97-50	16'-4"	17'-1"	17'-11"	18'-8"	19'-4"	20'-1"	20'-9"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PCS-0003 By Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.218: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.30 Weight 3800 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	3'-11"	4'-1"	4'-3"	4'-6"	4'-8"	4'-10"	5'-0"	362T125-33-50
	362T125-43-50	5'-1"	5'-4"	5'-7"	5'-10"	6'-0"	6'-3"	6'-6"	362T125-43-50
	362T125-54-50	6'-2"	6'-6"	6'-10"	7'-1"	7'-5"	7'-8"	7'-11"	362T125-54-50
	362T125-68-50	7'-6"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	9'-7"	362T125-68-50
	362T125-97-50	9'-2"	9'-8"	10'-1"	10'-6"	10'-11"	11'-4"	11'-9"	362T125-97-50
0.9	362T125-33-50	4'-0"	4'-3"	4'-5"	4'-8"	4'-10"	5'-0"	5'-2"	362T125-33-50
	362T125-43-50	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	362T125-43-50
	362T125-54-50	6'-5"	6'-9"	7'-1"	7'-5"	7'-8"	8'-0"	8'-3"	362T125-54-50
	362T125-68-50	7'-9"	8'-2"	8'-7"	8'-11"	9'-3"	9'-8"	10'-0"	362T125-68-50
	362T125-97-50	9'-6"	10'-0"	10'-5"	10'-11"	11'-4"	11'-9"	12'-2"	362T125-97-50
0.8	362T125-33-50	4'-2"	4'-5"	4'-8"	4'-10"	5'-0"	5'-3"	5'-5"	362T125-33-50
	362T125-43-50	5'-5"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	362T125-43-50
	362T125-54-50	6'-8"	7'-1"	7'-4"	7'-8"	8'-0"	8'-3"	8'-7"	362T125-54-50
	362T125-68-50	8'-1"	8'-6"	8'-11"	9'-4"	9'-8"	10'-0"	10'-4"	362T125-68-50
	362T125-97-50	9'-11"	10'-5"	10'-10"	11'-4"	11'-9"	12'-2"	12'-7"	362T125-97-50
0.7	362T125-33-50	4'-5"	4'-8"	4'-10"	5'-1"	5'-3"	5'-6"	5'-8"	362T125-33-50
	362T125-43-50	5'-8"	6'-0"	6'-3"	6'-6"	6'-10"	7'-1"	7'-4"	362T125-43-50
	362T125-54-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	8'-11"	362T125-54-50
	362T125-68-50	8'-5"	8'-11"	9'-4"	9'-8"	10'-1"	10'-5"	10'-10"	362T125-68-50
	362T125-97-50	10'-4"	10'-10"	11'-4"	11'-10"	12'-3"	12'-9"	13'-2"	362T125-97-50
0.6	362T125-33-50	4'-7"	4'-10"	5'-1"	5'-4"	5'-6"	5'-9"	5'-11"	362T125-33-50
	362T125-43-50	6'-0"	6'-3"	6'-7"	6'-10"	7'-1"	7'-5"	7'-8"	362T125-43-50
	362T125-54-50	7'-4"	7'-8"	8'-1"	8'-5"	8'-9"	9'-1"	9'-4"	362T125-54-50
	362T125-68-50	8'-10"	9'-4"	9'-9"	10'-2"	10'-7"	10'-11"	11'-4"	362T125-68-50
	362T125-97-50	10'-10"	11'-4"	11'-10"	12'-4"	12'-10"	13'-4"	13'-9"	362T125-97-50
0.5	362T125-33-50	4'-10"	5'-1"	5'-4"	5'-7"	5'-10"	6'-0"	6'-3"	362T125-33-50
	362T125-43-50	6'-3"	6'-7"	6'-11"	7'-3"	7'-6"	7'-9"	8'-0"	362T125-43-50
	362T125-54-50	7'-8"	8'-1"	8'-6"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-54-50
	362T125-68-50	9'-4"	9'-9"	10'-3"	10'-8"	11'-1"	11'-6"	11'-11"	362T125-68-50
	362T125-97-50	11'-4"	11'-11"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	362T125-97-50
0.4	362T125-33-50	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	6'-7"	362T125-33-50
	362T125-43-50	6'-8"	7'-0"	7'-4"	7'-8"	7'-11"	8'-3"	8'-6"	362T125-43-50
	362T125-54-50	8'-2"	8'-7"	8'-11"	9'-4"	9'-8"	10'-1"	10'-5"	362T125-54-50
	362T125-68-50	9'-10"	10'-4"	10'-10"	11'-3"	11'-9"	12'-2"	12'-7"	362T125-68-50
	362T125-97-50	12'-0"	12'-7"	13'-2"	13'-9"	14'-3"	14'-9"	15'-3"	362T125-97-50
0.3	362T125-33-50	5'-6"	5'-9"	6'-1"	6'-4"	6'-7"	6'-10"	7'-0"	362T125-33-50
	362T125-43-50	7'-1"	7'-5"	7'-9"	8'-1"	8'-5"	8'-9"	9'-1"	362T125-43-50
	362T125-54-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-8"	11'-1"	362T125-54-50
	362T125-68-50	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	12'-11"	13'-4"	362T125-68-50
	362T125-97-50	12'-9"	13'-5"	14'-0"	14'-7"	15'-2"	15'-9"	16'-3"	362T125-97-50
0.2	362T125-33-50	5'-11"	6'-2"	6'-6"	6'-9"	7'-1"	7'-4"	7'-7"	362T125-33-50
	362T125-43-50	7'-7"	8'-0"	8'-4"	8'-9"	9'-1"	9'-5"	9'-8"	362T125-43-50
	362T125-54-50	9'-4"	9'-9"	10'-3"	10'-8"	11'-1"	11'-6"	11'-10"	362T125-54-50
	362T125-68-50	11'-3"	11'-10"	12'-4"	12'-10"	13'-4"	13'-10"	14'-4"	362T125-68-50
	362T125-97-50	13'-8"	14'-4"	15'-0"	15'-8"	16'-3"	16'-10"	17'-5"	362T125-97-50
0.1	362T125-33-50	6'-5"	6'-9"	7'-1"	7'-4"	7'-8"	7'-11"	8'-2"	362T125-33-50
	362T125-43-50	8'-3"	8'-8"	9'-1"	9'-5"	9'-10"	10'-2"	10'-6"	362T125-43-50
	362T125-54-50	10'-1"	10'-7"	11'-1"	11'-6"	12'-0"	12'-5"	12'-10"	362T125-54-50
	362T125-68-50	12'-2"	12'-9"	13'-4"	13'-11"	14'-6"	15'-0"	15'-6"	362T125-68-50
	362T125-97-50	14'-10"	15'-7"	16'-3"	16'-11"	17'-7"	18'-3"	18'-10"	362T125-97-50
0.0	362T125-33-50	6'-11"	7'-3"	7'-7"	7'-11"	8'-2"	8'-6"	8'-9"	362T125-33-50
	362T125-43-50	8'-10"	9'-3"	9'-9"	10'-1"	10'-6"	10'-11"	11'-3"	362T125-43-50
	362T125-54-50	10'-10"	11'-4"	11'-10"	12'-4"	12'-10"	13'-4"	13'-9"	362T125-54-50
	362T125-68-50	13'-0"	13'-8"	14'-4"	14'-11"	15'-6"	16'-1"	16'-7"	362T125-68-50
	362T125-97-50	15'-10"	16'-8"	17'-5"	18'-2"	18'-10"	19'-6"	20'-2"	362T125-97-50

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TABLE 4.7.4.219: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.30 Weight 4000 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	3'-9"	4'-0"	4'-2"	4'-4"	4'-6"	4'-8"	4'-10"	362T125-33-50
	362T125-43-50	4'-11"	5'-2"	5'-5"	5'-8"	5'-10"	6'-1"	6'-4"	362T125-43-50
	362T125-54-50	6'-0"	6'-4"	6'-8"	6'-11"	7'-2"	7'-6"	7'-9"	362T125-54-50
	362T125-68-50	7'-4"	7'-8"	8'-0"	8'-5"	8'-9"	9'-0"	9'-4"	362T125-68-50
	362T125-97-50	8'-11"	9'-5"	9'-10"	10'-3"	10'-8"	11'-0"	11'-5"	362T125-97-50
0.9	362T125-33-50	3'-11"	4'-2"	4'-4"	4'-6"	4'-8"	4'-11"	5'-1"	362T125-33-50
	362T125-43-50	5'-1"	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-6"	362T125-43-50
	362T125-54-50	6'-3"	6'-7"	6'-11"	7'-2"	7'-6"	7'-9"	8'-0"	362T125-54-50
	362T125-68-50	7'-7"	8'-0"	8'-4"	8'-8"	9'-0"	9'-4"	9'-8"	362T125-68-50
	362T125-97-50	9'-3"	9'-9"	10'-2"	10'-7"	11'-0"	11'-5"	11'-10"	362T125-97-50
0.8	362T125-33-50	4'-1"	4'-4"	4'-6"	4'-8"	4'-11"	5'-1"	5'-3"	362T125-33-50
	362T125-43-50	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	362T125-43-50
	362T125-54-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-9"	8'-1"	8'-4"	362T125-54-50
	362T125-68-50	7'-11"	8'-3"	8'-8"	9'-1"	9'-5"	9'-9"	10'-1"	362T125-68-50
	362T125-97-50	9'-7"	10'-1"	10'-7"	11'-0"	11'-6"	11'-11"	12'-3"	362T125-97-50
0.7	362T125-33-50	4'-3"	4'-6"	4'-9"	4'-11"	5'-1"	5'-4"	5'-6"	362T125-33-50
	362T125-43-50	5'-6"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	362T125-43-50
	362T125-54-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-1"	8'-5"	8'-8"	362T125-54-50
	362T125-68-50	8'-3"	8'-8"	9'-1"	9'-5"	9'-10"	10'-2"	10'-6"	362T125-68-50
	362T125-97-50	10'-0"	10'-7"	11'-0"	11'-6"	11'-11"	12'-5"	12'-10"	362T125-97-50
0.6	362T125-33-50	4'-6"	4'-9"	4'-11"	5'-2"	5'-4"	5'-7"	5'-9"	362T125-33-50
	362T125-43-50	5'-10"	6'-1"	6'-5"	6'-8"	6'-11"	7'-2"	7'-5"	362T125-43-50
	362T125-54-50	7'-2"	7'-6"	7'-10"	8'-2"	8'-6"	8'-10"	9'-1"	362T125-54-50
	362T125-68-50	8'-7"	9'-1"	9'-6"	9'-11"	10'-3"	10'-8"	11'-0"	362T125-68-50
	362T125-97-50	10'-6"	11'-0"	11'-7"	12'-0"	12'-6"	13'-0"	13'-5"	362T125-97-50
0.5	362T125-33-50	4'-9"	5'-0"	5'-3"	5'-5"	5'-8"	5'-10"	6'-1"	362T125-33-50
	362T125-43-50	6'-1"	6'-5"	6'-9"	7'-0"	7'-4"	7'-7"	7'-10"	362T125-43-50
	362T125-54-50	7'-6"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	9'-7"	362T125-54-50
	362T125-68-50	9'-1"	9'-6"	10'-0"	10'-5"	10'-10"	11'-2"	11'-7"	362T125-68-50
	362T125-97-50	11'-1"	11'-7"	12'-2"	12'-8"	13'-2"	13'-8"	14'-1"	362T125-97-50
0.4	362T125-33-50	5'-0"	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-5"	362T125-33-50
	362T125-43-50	6'-6"	6'-10"	7'-1"	7'-5"	7'-9"	8'-0"	8'-3"	362T125-43-50
	362T125-54-50	7'-11"	8'-4"	8'-9"	9'-1"	9'-5"	9'-9"	10'-1"	362T125-54-50
	362T125-68-50	9'-7"	10'-1"	10'-6"	11'-0"	11'-5"	11'-10"	12'-3"	362T125-68-50
	362T125-97-50	11'-8"	12'-3"	12'-10"	13'-4"	13'-11"	14'-5"	14'-11"	362T125-97-50
0.3	362T125-33-50	5'-4"	5'-7"	5'-11"	6'-2"	6'-5"	6'-7"	6'-10"	362T125-33-50
	362T125-43-50	6'-11"	7'-3"	7'-7"	7'-11"	8'-3"	8'-6"	8'-10"	362T125-43-50
	362T125-54-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-1"	10'-5"	10'-9"	362T125-54-50
	362T125-68-50	10'-2"	10'-8"	11'-2"	11'-8"	12'-2"	12'-7"	13'-0"	362T125-68-50
	362T125-97-50	12'-5"	13'-0"	13'-8"	14'-3"	14'-9"	15'-4"	15'-10"	362T125-97-50
0.2	362T125-33-50	5'-9"	6'-0"	6'-4"	6'-7"	6'-10"	7'-1"	7'-4"	362T125-33-50
	362T125-43-50	7'-5"	7'-9"	8'-2"	8'-6"	8'-10"	9'-2"	9'-5"	362T125-43-50
	362T125-54-50	9'-1"	9'-6"	9'-11"	10'-4"	10'-9"	11'-2"	11'-7"	362T125-54-50
	362T125-68-50	10'-11"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	13'-11"	362T125-68-50
	362T125-97-50	13'-4"	14'-0"	14'-7"	15'-3"	15'-10"	16'-5"	16'-11"	362T125-97-50
0.1	362T125-33-50	6'-3"	6'-7"	6'-10"	7'-2"	7'-5"	7'-9"	8'-0"	362T125-33-50
	362T125-43-50	8'-0"	8'-5"	8'-10"	9'-2"	9'-7"	9'-11"	10'-3"	362T125-43-50
	362T125-54-50	9'-10"	10'-4"	10'-9"	11'-3"	11'-8"	12'-1"	12'-6"	362T125-54-50
	362T125-68-50	11'-10"	12'-5"	13'-0"	13'-7"	14'-1"	14'-7"	15'-1"	362T125-68-50
	362T125-97-50	14'-5"	15'-2"	15'-10"	16'-6"	17'-2"	17'-9"	18'-4"	362T125-97-50
0.0	362T125-33-50	6'-8"	7'-0"	7'-4"	7'-8"	8'-0"	8'-3"	8'-7"	362T125-33-50
	362T125-43-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-3"	10'-7"	11'-0"	362T125-43-50
	362T125-54-50	10'-6"	11'-1"	11'-7"	12'-1"	12'-6"	13'-0"	13'-5"	362T125-54-50
	362T125-68-50	12'-8"	13'-4"	13'-11"	14'-6"	15'-1"	15'-8"	16'-2"	362T125-68-50
	362T125-97-50	15'-5"	16'-3"	16'-11"	17'-8"	18'-4"	19'-0"	19'-8"	362T125-97-50

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TABLE 4.7.4.220: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.30 Weight 4200 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	3'-8"	3'-10"	4'-1"	4'-3"	4'-5"	4'-7"	4'-9"	362T125-33-50
	362T125-43-50	4'-9"	5'-0"	5'-3"	5'-6"	5'-9"	5'-11"	6'-2"	362T125-43-50
	362T125-54-50	5'-11"	6'-2"	6'-6"	6'-9"	7'-0"	7'-3"	7'-6"	362T125-54-50
	362T125-68-50	7'-1"	7'-6"	7'-10"	8'-2"	8'-6"	8'-10"	9'-1"	362T125-68-50
	362T125-97-50	8'-8"	9'-2"	9'-7"	10'-0"	10'-4"	10'-9"	11'-1"	362T125-97-50
0.9	362T125-33-50	3'-10"	4'-0"	4'-3"	4'-5"	4'-7"	4'-9"	4'-11"	362T125-33-50
	362T125-43-50	5'-0"	5'-3"	5'-6"	5'-8"	5'-11"	6'-2"	6'-4"	362T125-43-50
	362T125-54-50	6'-1"	6'-5"	6'-9"	7'-0"	7'-3"	7'-7"	7'-10"	362T125-54-50
	362T125-68-50	7'-5"	7'-9"	8'-2"	8'-6"	8'-10"	9'-2"	9'-5"	362T125-68-50
	362T125-97-50	9'-0"	9'-6"	9'-11"	10'-4"	10'-9"	11'-2"	11'-6"	362T125-97-50
0.8	362T125-33-50	4'-0"	4'-2"	4'-5"	4'-7"	4'-9"	4'-11"	5'-1"	362T125-33-50
	362T125-43-50	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	6'-7"	362T125-43-50
	362T125-54-50	6'-4"	6'-8"	7'-0"	7'-3"	7'-7"	7'-10"	8'-2"	362T125-54-50
	362T125-68-50	7'-8"	8'-1"	8'-5"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-68-50
	362T125-97-50	9'-5"	9'-10"	10'-4"	10'-9"	11'-2"	11'-7"	12'-0"	362T125-97-50
0.7	362T125-33-50	4'-2"	4'-5"	4'-7"	4'-9"	5'-0"	5'-2"	5'-4"	362T125-33-50
	362T125-43-50	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	6'-8"	6'-11"	362T125-43-50
	362T125-54-50	6'-8"	7'-0"	7'-4"	7'-7"	7'-11"	8'-2"	8'-6"	362T125-54-50
	362T125-68-50	8'-0"	8'-5"	8'-10"	9'-2"	9'-7"	9'-11"	10'-3"	362T125-68-50
	362T125-97-50	9'-9"	10'-3"	10'-9"	11'-3"	11'-8"	12'-1"	12'-6"	362T125-97-50
0.6	362T125-33-50	4'-4"	4'-7"	4'-10"	5'-0"	5'-3"	5'-5"	5'-7"	362T125-33-50
	362T125-43-50	5'-8"	5'-11"	6'-3"	6'-6"	6'-9"	7'-0"	7'-3"	362T125-43-50
	362T125-54-50	6'-11"	7'-4"	7'-8"	8'-0"	8'-3"	8'-7"	8'-11"	362T125-54-50
	362T125-68-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-0"	10'-5"	10'-9"	362T125-68-50
	362T125-97-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-2"	12'-8"	13'-1"	362T125-97-50
0.5	362T125-33-50	4'-7"	4'-10"	5'-1"	5'-4"	5'-6"	5'-9"	5'-11"	362T125-33-50
	362T125-43-50	5'-11"	6'-3"	6'-7"	6'-10"	7'-1"	7'-4"	7'-7"	362T125-43-50
	362T125-54-50	7'-4"	7'-8"	8'-0"	8'-5"	8'-9"	9'-0"	9'-4"	362T125-54-50
	362T125-68-50	8'-10"	9'-3"	9'-9"	10'-2"	10'-6"	10'-11"	11'-3"	362T125-68-50
	362T125-97-50	10'-9"	11'-4"	11'-10"	12'-4"	12'-10"	13'-3"	13'-9"	362T125-97-50
0.4	362T125-33-50	4'-11"	5'-2"	5'-4"	5'-7"	5'-10"	6'-1"	6'-3"	362T125-33-50
	362T125-43-50	6'-4"	6'-7"	6'-11"	7'-3"	7'-6"	7'-10"	8'-1"	362T125-43-50
	362T125-54-50	7'-9"	8'-1"	8'-6"	8'-10"	9'-2"	9'-7"	9'-10"	362T125-54-50
	362T125-68-50	9'-4"	9'-10"	10'-3"	10'-8"	11'-1"	11'-6"	11'-11"	362T125-68-50
	362T125-97-50	11'-5"	11'-11"	12'-6"	13'-0"	13'-7"	14'-0"	14'-6"	362T125-97-50
0.3	362T125-33-50	5'-2"	5'-6"	5'-9"	6'-0"	6'-3"	6'-5"	6'-8"	362T125-33-50
	362T125-43-50	6'-9"	7'-1"	7'-5"	7'-8"	8'-0"	8'-4"	8'-7"	362T125-43-50
	362T125-54-50	8'-3"	8'-8"	9'-0"	9'-5"	9'-10"	10'-2"	10'-6"	362T125-54-50
	362T125-68-50	9'-11"	10'-5"	10'-11"	11'-5"	11'-10"	12'-3"	12'-8"	362T125-68-50
	362T125-97-50	12'-1"	12'-9"	13'-4"	13'-10"	14'-5"	14'-11"	15'-5"	362T125-97-50
0.2	362T125-33-50	5'-7"	5'-11"	6'-2"	6'-5"	6'-8"	6'-11"	7'-2"	362T125-33-50
	362T125-43-50	7'-2"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-2"	362T125-43-50
	362T125-54-50	8'-10"	9'-3"	9'-8"	10'-1"	10'-6"	10'-11"	11'-3"	362T125-54-50
	362T125-68-50	10'-8"	11'-2"	11'-9"	12'-2"	12'-8"	13'-2"	13'-7"	362T125-68-50
	362T125-97-50	13'-0"	13'-7"	14'-3"	14'-10"	15'-5"	16'-0"	16'-6"	362T125-97-50
0.1	362T125-33-50	6'-1"	6'-5"	6'-8"	7'-0"	7'-3"	7'-6"	7'-9"	362T125-33-50
	362T125-43-50	7'-10"	8'-3"	8'-7"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-43-50
	362T125-54-50	9'-7"	10'-1"	10'-6"	10'-11"	11'-5"	11'-10"	12'-2"	362T125-54-50
	362T125-68-50	11'-7"	12'-2"	12'-8"	13'-3"	13'-9"	14'-3"	14'-9"	362T125-68-50
	362T125-97-50	14'-1"	14'-9"	15'-5"	16'-1"	16'-8"	17'-4"	17'-11"	362T125-97-50
0.0	362T125-33-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-9"	8'-1"	8'-4"	362T125-33-50
	362T125-43-50	8'-5"	8'-10"	9'-3"	9'-7"	10'-0"	10'-4"	10'-8"	362T125-43-50
	362T125-54-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-2"	12'-8"	13'-1"	362T125-54-50
	362T125-68-50	12'-5"	13'-0"	13'-7"	14'-2"	14'-9"	15'-3"	15'-9"	362T125-68-50
	362T125-97-50	15'-1"	15'-10"	16'-6"	17'-3"	17'-11"	18'-6"	19'-2"	362T125-97-50

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TABLE 4.7.4.221: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.30 Weight 4400 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	3'-7"	3'-9"	3'-11"	4'-1"	4'-3"	4'-5"	4'-7"	362T125-33-50
	362T125-43-50	4'-8"	4'-11"	5'-2"	5'-4"	5'-7"	5'-9"	6'-0"	362T125-43-50
	362T125-54-50	5'-9"	6'-0"	6'-4"	6'-7"	6'-10"	7'-1"	7'-4"	362T125-54-50
	362T125-68-50	6'-11"	7'-4"	7'-8"	8'-0"	8'-3"	8'-7"	8'-11"	362T125-68-50
	362T125-97-50	8'-6"	8'-11"	9'-4"	9'-9"	10'-1"	10'-6"	10'-10"	362T125-97-50
0.9	362T125-33-50	3'-9"	3'-11"	4'-1"	4'-3"	4'-5"	4'-7"	4'-9"	362T125-33-50
	362T125-43-50	4'-10"	5'-1"	5'-4"	5'-7"	5'-9"	6'-0"	6'-2"	362T125-43-50
	362T125-54-50	5'-11"	6'-3"	6'-7"	6'-10"	7'-1"	7'-4"	7'-7"	362T125-54-50
	362T125-68-50	7'-2"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	362T125-68-50
	362T125-97-50	8'-10"	9'-3"	9'-8"	10'-1"	10'-6"	10'-10"	11'-3"	362T125-97-50
0.8	362T125-33-50	3'-11"	4'-1"	4'-3"	4'-6"	4'-8"	4'-10"	5'-0"	362T125-33-50
	362T125-43-50	5'-0"	5'-4"	5'-7"	5'-9"	6'-0"	6'-3"	6'-6"	362T125-43-50
	362T125-54-50	6'-2"	6'-6"	6'-10"	7'-1"	7'-5"	7'-8"	7'-11"	362T125-54-50
	362T125-68-50	7'-6"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	9'-7"	362T125-68-50
	362T125-97-50	9'-2"	9'-7"	10'-1"	10'-6"	10'-11"	11'-4"	11'-8"	362T125-97-50
0.7	362T125-33-50	4'-1"	4'-3"	4'-6"	4'-8"	4'-10"	5'-0"	5'-3"	362T125-33-50
	362T125-43-50	5'-3"	5'-6"	5'-10"	6'-1"	6'-3"	6'-6"	6'-9"	362T125-43-50
	362T125-54-50	6'-6"	6'-10"	7'-1"	7'-5"	7'-9"	8'-0"	8'-3"	362T125-54-50
	362T125-68-50	7'-10"	8'-3"	8'-7"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-68-50
	362T125-97-50	9'-7"	10'-0"	10'-6"	10'-11"	11'-4"	11'-9"	12'-2"	362T125-97-50
0.6	362T125-33-50	4'-3"	4'-6"	4'-8"	4'-11"	5'-1"	5'-3"	5'-6"	362T125-33-50
	362T125-43-50	5'-6"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	362T125-43-50
	362T125-54-50	6'-9"	7'-1"	7'-5"	7'-9"	8'-1"	8'-5"	8'-8"	362T125-54-50
	362T125-68-50	8'-2"	8'-7"	9'-0"	9'-5"	9'-9"	10'-1"	10'-6"	362T125-68-50
	362T125-97-50	10'-0"	10'-6"	11'-0"	11'-5"	11'-11"	12'-4"	12'-9"	362T125-97-50
0.5	362T125-33-50	4'-6"	4'-9"	4'-11"	5'-2"	5'-4"	5'-7"	5'-9"	362T125-33-50
	362T125-43-50	5'-10"	6'-1"	6'-5"	6'-8"	6'-11"	7'-2"	7'-5"	362T125-43-50
	362T125-54-50	7'-2"	7'-6"	7'-10"	8'-2"	8'-6"	8'-10"	9'-1"	362T125-54-50
	362T125-68-50	8'-7"	9'-1"	9'-6"	9'-11"	10'-3"	10'-8"	11'-0"	362T125-68-50
	362T125-97-50	10'-6"	11'-0"	11'-7"	12'-0"	12'-6"	13'-0"	13'-5"	362T125-97-50
0.4	362T125-33-50	4'-9"	5'-0"	5'-3"	5'-6"	5'-8"	5'-11"	6'-1"	362T125-33-50
	362T125-43-50	6'-2"	6'-6"	6'-9"	7'-1"	7'-4"	7'-7"	7'-10"	362T125-43-50
	362T125-54-50	7'-6"	7'-11"	8'-3"	8'-8"	9'-0"	9'-4"	9'-8"	362T125-54-50
	362T125-68-50	9'-1"	9'-7"	10'-0"	10'-5"	10'-10"	11'-3"	11'-8"	362T125-68-50
	362T125-97-50	11'-1"	11'-8"	12'-2"	12'-9"	13'-3"	13'-8"	14'-2"	362T125-97-50
0.3	362T125-33-50	5'-1"	5'-4"	5'-7"	5'-10"	6'-1"	6'-3"	6'-6"	362T125-33-50
	362T125-43-50	6'-7"	6'-11"	7'-2"	7'-6"	7'-10"	8'-1"	8'-4"	362T125-43-50
	362T125-54-50	8'-0"	8'-5"	8'-10"	9'-2"	9'-7"	9'-11"	10'-3"	362T125-54-50
	362T125-68-50	9'-8"	10'-2"	10'-8"	11'-1"	11'-7"	12'-0"	12'-4"	362T125-68-50
	362T125-97-50	11'-10"	12'-5"	13'-0"	13'-6"	14'-1"	14'-7"	15'-1"	362T125-97-50
0.2	362T125-33-50	5'-5"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	362T125-33-50
	362T125-43-50	7'-0"	7'-5"	7'-9"	8'-1"	8'-5"	8'-8"	9'-0"	362T125-43-50
	362T125-54-50	8'-7"	9'-1"	9'-6"	9'-10"	10'-3"	10'-7"	11'-0"	362T125-54-50
	362T125-68-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-5"	12'-10"	13'-3"	362T125-68-50
	362T125-97-50	12'-8"	13'-4"	13'-11"	14'-6"	15'-1"	15'-7"	16'-2"	362T125-97-50
0.1	362T125-33-50	5'-11"	6'-3"	6'-6"	6'-10"	7'-1"	7'-4"	7'-7"	362T125-33-50
	362T125-43-50	7'-8"	8'-0"	8'-5"	8'-9"	9'-1"	9'-5"	9'-9"	362T125-43-50
	362T125-54-50	9'-4"	9'-10"	10'-3"	10'-8"	11'-1"	11'-6"	11'-11"	362T125-54-50
	362T125-68-50	11'-3"	11'-10"	12'-5"	12'-11"	13'-5"	13'-11"	14'-4"	362T125-68-50
	362T125-97-50	13'-9"	14'-5"	15'-1"	15'-8"	16'-4"	16'-11"	17'-6"	362T125-97-50
0.0	362T125-33-50	6'-4"	6'-8"	7'-0"	7'-4"	7'-7"	7'-10"	8'-2"	362T125-33-50
	362T125-43-50	8'-2"	8'-7"	9'-0"	9'-5"	9'-9"	10'-1"	10'-5"	362T125-43-50
	362T125-54-50	10'-0"	10'-6"	11'-0"	11'-6"	11'-11"	12'-4"	12'-9"	362T125-54-50
	362T125-68-50	12'-1"	12'-8"	13'-3"	13'-10"	14'-4"	14'-11"	15'-5"	362T125-68-50
	362T125-97-50	14'-8"	15'-5"	16'-2"	16'-10"	17'-6"	18'-1"	18'-9"	362T125-97-50

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TABLE 4.7.4.222: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.30 Weight 4600 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	3'-6"	3'-8"	3'-10"	4'-0"	4'-2"	4'-4"	4'-6"	362T125-33-50
	362T125-43-50	4'-6"	4'-9"	5'-0"	5'-3"	5'-5"	5'-8"	5'-10"	362T125-43-50
	362T125-54-50	5'-7"	5'-11"	6'-2"	6'-5"	6'-8"	6'-11"	7'-2"	362T125-54-50
	362T125-68-50	6'-9"	7'-1"	7'-6"	7'-9"	8'-1"	8'-5"	8'-8"	362T125-68-50
	362T125-97-50	8'-3"	8'-8"	9'-1"	9'-6"	9'-11"	10'-3"	10'-7"	362T125-97-50
0.9	362T125-33-50	3'-7"	3'-10"	4'-0"	4'-2"	4'-4"	4'-6"	4'-8"	362T125-33-50
	362T125-43-50	4'-9"	5'-0"	5'-2"	5'-5"	5'-8"	5'-10"	6'-1"	362T125-43-50
	362T125-54-50	5'-10"	6'-1"	6'-5"	6'-8"	6'-11"	7'-2"	7'-5"	362T125-54-50
	362T125-68-50	7'-0"	7'-5"	7'-9"	8'-1"	8'-5"	8'-8"	9'-0"	362T125-68-50
	362T125-97-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-3"	10'-7"	11'-0"	362T125-97-50
0.8	362T125-33-50	3'-9"	4'-0"	4'-2"	4'-4"	4'-6"	4'-8"	4'-10"	362T125-33-50
	362T125-43-50	4'-11"	5'-2"	5'-5"	5'-8"	5'-11"	6'-1"	6'-4"	362T125-43-50
	362T125-54-50	6'-1"	6'-4"	6'-8"	6'-11"	7'-3"	7'-6"	7'-9"	362T125-54-50
	362T125-68-50	7'-4"	7'-8"	8'-1"	8'-5"	8'-9"	9'-1"	9'-4"	362T125-68-50
	362T125-97-50	8'-11"	9'-5"	9'-10"	10'-3"	10'-8"	11'-1"	11'-5"	362T125-97-50
0.7	362T125-33-50	3'-11"	4'-2"	4'-4"	4'-7"	4'-9"	4'-11"	5'-1"	362T125-33-50
	362T125-43-50	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-4"	6'-7"	362T125-43-50
	362T125-54-50	6'-4"	6'-8"	6'-11"	7'-3"	7'-6"	7'-10"	8'-1"	362T125-54-50
	362T125-68-50	7'-8"	8'-0"	8'-5"	8'-9"	9'-1"	9'-5"	9'-9"	362T125-68-50
	362T125-97-50	9'-4"	9'-10"	10'-3"	10'-8"	11'-1"	11'-6"	11'-11"	362T125-97-50
0.6	362T125-33-50	4'-2"	4'-4"	4'-7"	4'-9"	5'-0"	5'-2"	5'-4"	362T125-33-50
	362T125-43-50	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	6'-8"	6'-11"	362T125-43-50
	362T125-54-50	6'-7"	6'-11"	7'-3"	7'-7"	7'-11"	8'-2"	8'-6"	362T125-54-50
	362T125-68-50	8'-0"	8'-5"	8'-10"	9'-2"	9'-6"	9'-11"	10'-3"	362T125-68-50
	362T125-97-50	9'-9"	10'-3"	10'-9"	11'-2"	11'-8"	12'-1"	12'-6"	362T125-97-50
0.5	362T125-33-50	4'-5"	4'-7"	4'-10"	5'-0"	5'-3"	5'-5"	5'-7"	362T125-33-50
	362T125-43-50	5'-8"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	7'-3"	362T125-43-50
	362T125-54-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-7"	8'-11"	362T125-54-50
	362T125-68-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-0"	10'-5"	10'-9"	362T125-68-50
	362T125-97-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-3"	12'-8"	13'-1"	362T125-97-50
0.4	362T125-33-50	4'-8"	4'-11"	5'-1"	5'-4"	5'-7"	5'-9"	5'-11"	362T125-33-50
	362T125-43-50	6'-0"	6'-4"	6'-7"	6'-11"	7'-2"	7'-5"	7'-8"	362T125-43-50
	362T125-54-50	7'-4"	7'-9"	8'-1"	8'-5"	8'-9"	9'-1"	9'-5"	362T125-54-50
	362T125-68-50	8'-11"	9'-4"	9'-9"	10'-2"	10'-7"	11'-0"	11'-4"	362T125-68-50
	362T125-97-50	10'-10"	11'-5"	11'-11"	12'-5"	12'-11"	13'-5"	13'-10"	362T125-97-50
0.3	362T125-33-50	4'-11"	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-4"	362T125-33-50
	362T125-43-50	6'-5"	6'-9"	7'-0"	7'-4"	7'-7"	7'-11"	8'-2"	362T125-43-50
	362T125-54-50	7'-10"	8'-3"	8'-7"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-54-50
	362T125-68-50	9'-6"	9'-11"	10'-5"	10'-10"	11'-3"	11'-8"	12'-1"	362T125-68-50
	362T125-97-50	11'-6"	12'-1"	12'-8"	13'-3"	13'-9"	14'-3"	14'-9"	362T125-97-50
0.2	362T125-33-50	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	362T125-33-50
	362T125-43-50	6'-10"	7'-3"	7'-7"	7'-10"	8'-2"	8'-6"	8'-9"	362T125-43-50
	362T125-54-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-0"	10'-5"	10'-9"	362T125-54-50
	362T125-68-50	10'-2"	10'-8"	11'-2"	11'-8"	12'-1"	12'-6"	13'-0"	362T125-68-50
	362T125-97-50	12'-4"	13'-0"	13'-7"	14'-2"	14'-9"	15'-3"	15'-9"	362T125-97-50
0.1	362T125-33-50	5'-9"	6'-1"	6'-4"	6'-8"	6'-11"	7'-2"	7'-5"	362T125-33-50
	362T125-43-50	7'-5"	7'-10"	8'-2"	8'-6"	8'-11"	9'-2"	9'-6"	362T125-43-50
	362T125-54-50	9'-1"	9'-7"	10'-0"	10'-5"	10'-10"	11'-3"	11'-8"	362T125-54-50
	362T125-68-50	11'-0"	11'-7"	12'-1"	12'-7"	13'-1"	13'-7"	14'-0"	362T125-68-50
	362T125-97-50	13'-5"	14'-1"	14'-9"	15'-4"	15'-11"	16'-6"	17'-1"	362T125-97-50
0.0	362T125-33-50	6'-3"	6'-6"	6'-10"	7'-2"	7'-5"	7'-8"	7'-11"	362T125-33-50
	362T125-43-50	8'-0"	8'-5"	8'-9"	9'-2"	9'-6"	9'-10"	10'-2"	362T125-43-50
	362T125-54-50	9'-9"	10'-3"	10'-9"	11'-2"	11'-8"	12'-1"	12'-6"	362T125-54-50
	362T125-68-50	11'-10"	12'-5"	13'-0"	13'-6"	14'-1"	14'-7"	15'-1"	362T125-68-50
	362T125-97-50	14'-4"	15'-1"	15'-9"	16'-5"	17'-1"	17'-8"	18'-3"	362T125-97-50

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TABLE 4.7.4.223: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.30 Weight 4800 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	3'-5"	3'-7"	3'-9"	3'-11"	4'-1"	4'-3"	4'-5"	362T125-33-50
	362T125-43-50	4'-5"	4'-8"	4'-11"	5'-1"	5'-4"	5'-6"	5'-8"	362T125-43-50
	362T125-54-50	5'-6"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	362T125-54-50
	362T125-68-50	6'-7"	7'-0"	7'-3"	7'-7"	7'-11"	8'-2"	8'-6"	362T125-68-50
	362T125-97-50	8'-1"	8'-6"	8'-11"	9'-3"	9'-8"	10'-0"	10'-4"	362T125-97-50
0.9	362T125-33-50	3'-6"	3'-9"	3'-11"	4'-1"	4'-3"	4'-5"	4'-7"	362T125-33-50
	362T125-43-50	4'-7"	4'-10"	5'-1"	5'-4"	5'-6"	5'-9"	5'-11"	362T125-43-50
	362T125-54-50	5'-8"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	7'-3"	362T125-54-50
	362T125-68-50	6'-10"	7'-3"	7'-7"	7'-11"	8'-2"	8'-6"	8'-10"	362T125-68-50
	362T125-97-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-0"	10'-5"	10'-9"	362T125-97-50
0.8	362T125-33-50	3'-8"	3'-11"	4'-1"	4'-3"	4'-5"	4'-7"	4'-9"	362T125-33-50
	362T125-43-50	4'-10"	5'-1"	5'-3"	5'-6"	5'-9"	5'-11"	6'-2"	362T125-43-50
	362T125-54-50	5'-11"	6'-3"	6'-6"	6'-9"	7'-1"	7'-4"	7'-7"	362T125-54-50
	362T125-68-50	7'-2"	7'-6"	7'-10"	8'-3"	8'-6"	8'-10"	9'-2"	362T125-68-50
	362T125-97-50	8'-9"	9'-2"	9'-7"	10'-0"	10'-5"	10'-10"	11'-2"	362T125-97-50
0.7	362T125-33-50	3'-10"	4'-1"	4'-3"	4'-5"	4'-8"	4'-10"	5'-0"	362T125-33-50
	362T125-43-50	5'-0"	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-5"	362T125-43-50
	362T125-54-50	6'-2"	6'-6"	6'-9"	7'-1"	7'-4"	7'-8"	7'-11"	362T125-54-50
	362T125-68-50	7'-6"	7'-10"	8'-3"	8'-7"	8'-11"	9'-3"	9'-7"	362T125-68-50
	362T125-97-50	9'-1"	9'-7"	10'-0"	10'-5"	10'-10"	11'-3"	11'-8"	362T125-97-50
0.6	362T125-33-50	4'-1"	4'-3"	4'-6"	4'-8"	4'-10"	5'-0"	5'-3"	362T125-33-50
	362T125-43-50	5'-3"	5'-6"	5'-10"	6'-1"	6'-3"	6'-6"	6'-9"	362T125-43-50
	362T125-54-50	6'-6"	6'-10"	7'-1"	7'-5"	7'-9"	8'-0"	8'-3"	362T125-54-50
	362T125-68-50	7'-10"	8'-3"	8'-7"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-68-50
	362T125-97-50	9'-7"	10'-0"	10'-6"	10'-11"	11'-4"	11'-9"	12'-2"	362T125-97-50
0.5	362T125-33-50	4'-3"	4'-6"	4'-9"	4'-11"	5'-1"	5'-4"	5'-6"	362T125-33-50
	362T125-43-50	5'-6"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	362T125-43-50
	362T125-54-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-1"	8'-5"	8'-8"	362T125-54-50
	362T125-68-50	8'-3"	8'-8"	9'-1"	9'-5"	9'-10"	10'-2"	10'-6"	362T125-68-50
	362T125-97-50	10'-0"	10'-7"	11'-0"	11'-6"	11'-11"	12'-5"	12'-10"	362T125-97-50
0.4	362T125-33-50	4'-6"	4'-9"	5'-0"	5'-3"	5'-5"	5'-7"	5'-10"	362T125-33-50
	362T125-43-50	5'-10"	6'-2"	6'-5"	6'-9"	7'-0"	7'-3"	7'-6"	362T125-43-50
	362T125-54-50	7'-2"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-2"	362T125-54-50
	362T125-68-50	8'-8"	9'-2"	9'-7"	10'-0"	10'-4"	10'-9"	11'-1"	362T125-68-50
	362T125-97-50	10'-7"	11'-2"	11'-8"	12'-2"	12'-8"	13'-1"	13'-6"	362T125-97-50
0.3	362T125-33-50	4'-10"	5'-1"	5'-4"	5'-7"	5'-9"	6'-0"	6'-2"	362T125-33-50
	362T125-43-50	6'-3"	6'-7"	6'-11"	7'-2"	7'-5"	7'-9"	8'-0"	362T125-43-50
	362T125-54-50	7'-8"	8'-1"	8'-5"	8'-9"	9'-2"	9'-6"	9'-9"	362T125-54-50
	362T125-68-50	9'-3"	9'-9"	10'-2"	10'-7"	11'-0"	11'-5"	11'-10"	362T125-68-50
	362T125-97-50	11'-3"	11'-10"	12'-5"	12'-11"	13'-5"	13'-11"	14'-5"	362T125-97-50
0.2	362T125-33-50	5'-2"	5'-6"	5'-9"	6'-0"	6'-3"	6'-5"	6'-8"	362T125-33-50
	362T125-43-50	6'-9"	7'-1"	7'-5"	7'-8"	8'-0"	8'-4"	8'-7"	362T125-43-50
	362T125-54-50	8'-3"	8'-8"	9'-0"	9'-5"	9'-10"	10'-2"	10'-6"	362T125-54-50
	362T125-68-50	9'-11"	10'-5"	10'-11"	11'-5"	11'-10"	12'-3"	12'-8"	362T125-68-50
	362T125-97-50	12'-1"	12'-9"	13'-4"	13'-10"	14'-5"	14'-11"	15'-5"	362T125-97-50
0.1	362T125-33-50	5'-8"	5'-11"	6'-3"	6'-6"	6'-9"	7'-0"	7'-3"	362T125-33-50
	362T125-43-50	7'-3"	7'-8"	8'-0"	8'-4"	8'-8"	9'-0"	9'-4"	362T125-43-50
	362T125-54-50	8'-11"	9'-4"	9'-10"	10'-3"	10'-7"	11'-0"	11'-5"	362T125-54-50
	362T125-68-50	10'-9"	11'-4"	11'-10"	12'-4"	12'-10"	13'-3"	13'-9"	362T125-68-50
	362T125-97-50	13'-1"	13'-9"	14'-5"	15'-0"	15'-7"	16'-2"	16'-8"	362T125-97-50
0.0	362T125-33-50	6'-1"	6'-5"	6'-8"	7'-0"	7'-3"	7'-6"	7'-9"	362T125-33-50
	362T125-43-50	7'-10"	8'-3"	8'-7"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-43-50
	362T125-54-50	9'-7"	10'-1"	10'-6"	10'-11"	11'-5"	11'-10"	12'-2"	362T125-54-50
	362T125-68-50	11'-7"	12'-2"	12'-8"	13'-3"	13'-9"	14'-3"	14'-9"	362T125-68-50
	362T125-97-50	14'-1"	14'-9"	15'-5"	16'-1"	16'-8"	17'-4"	17'-11"	362T125-97-50

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TABLE 4.7.4.224: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.30 Weight 5000 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-2"	4'-3"	362T125-33-50
	362T125-43-50	4'-4"	4'-7"	4'-9"	5'-0"	5'-2"	5'-5"	5'-7"	362T125-43-50
	362T125-54-50	5'-4"	5'-7"	5'-11"	6'-2"	6'-5"	6'-8"	6'-10"	362T125-54-50
	362T125-68-50	6'-6"	6'-10"	7'-2"	7'-5"	7'-9"	8'-0"	8'-4"	362T125-68-50
	362T125-97-50	7'-11"	8'-4"	8'-9"	9'-1"	9'-5"	9'-10"	10'-2"	362T125-97-50
0.9	362T125-33-50	3'-5"	3'-8"	3'-10"	4'-0"	4'-2"	4'-4"	4'-5"	362T125-33-50
	362T125-43-50	4'-6"	4'-9"	5'-0"	5'-2"	5'-5"	5'-7"	5'-9"	362T125-43-50
	362T125-54-50	5'-7"	5'-10"	6'-1"	6'-5"	6'-8"	6'-11"	7'-1"	362T125-54-50
	362T125-68-50	6'-9"	7'-1"	7'-5"	7'-9"	8'-0"	8'-4"	8'-7"	362T125-68-50
	362T125-97-50	8'-3"	8'-8"	9'-1"	9'-5"	9'-10"	10'-2"	10'-6"	362T125-97-50
0.8	362T125-33-50	3'-7"	3'-10"	4'-0"	4'-2"	4'-4"	4'-6"	4'-8"	362T125-33-50
	362T125-43-50	4'-8"	4'-11"	5'-2"	5'-5"	5'-7"	5'-10"	6'-0"	362T125-43-50
	362T125-54-50	5'-9"	6'-1"	6'-4"	6'-8"	6'-11"	7'-2"	7'-5"	362T125-54-50
	362T125-68-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	8'-11"	362T125-68-50
	362T125-97-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-2"	10'-7"	10'-11"	362T125-97-50
0.7	362T125-33-50	3'-9"	4'-0"	4'-2"	4'-4"	4'-6"	4'-8"	4'-10"	362T125-33-50
	362T125-43-50	4'-11"	5'-2"	5'-5"	5'-8"	5'-10"	6'-1"	6'-4"	362T125-43-50
	362T125-54-50	6'-0"	6'-4"	6'-8"	6'-11"	7'-2"	7'-6"	7'-9"	362T125-54-50
	362T125-68-50	7'-4"	7'-8"	8'-0"	8'-5"	8'-9"	9'-0"	9'-4"	362T125-68-50
	362T125-97-50	8'-11"	9'-5"	9'-10"	10'-3"	10'-8"	11'-0"	11'-5"	362T125-97-50
0.6	362T125-33-50	4'-0"	4'-2"	4'-4"	4'-7"	4'-9"	4'-11"	5'-1"	362T125-33-50
	362T125-43-50	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	6'-7"	362T125-43-50
	362T125-54-50	6'-4"	6'-8"	7'-0"	7'-3"	7'-7"	7'-10"	8'-1"	362T125-54-50
	362T125-68-50	7'-8"	8'-1"	8'-5"	8'-9"	9'-2"	9'-6"	9'-9"	362T125-68-50
	362T125-97-50	9'-4"	9'-10"	10'-3"	10'-9"	11'-2"	11'-6"	11'-11"	362T125-97-50
0.5	362T125-33-50	4'-2"	4'-5"	4'-7"	4'-10"	5'-0"	5'-2"	5'-4"	362T125-33-50
	362T125-43-50	5'-5"	5'-8"	6'-0"	6'-3"	6'-6"	6'-9"	6'-11"	362T125-43-50
	362T125-54-50	6'-8"	7'-0"	7'-4"	7'-8"	7'-11"	8'-3"	8'-6"	362T125-54-50
	362T125-68-50	8'-1"	8'-6"	8'-10"	9'-3"	9'-7"	9'-11"	10'-4"	362T125-68-50
	362T125-97-50	9'-10"	10'-4"	10'-10"	11'-3"	11'-8"	12'-2"	12'-6"	362T125-97-50
0.4	362T125-33-50	4'-5"	4'-8"	4'-11"	5'-1"	5'-4"	5'-6"	5'-8"	362T125-33-50
	362T125-43-50	5'-9"	6'-0"	6'-4"	6'-7"	6'-10"	7'-1"	7'-4"	362T125-43-50
	362T125-54-50	7'-0"	7'-5"	7'-9"	8'-1"	8'-5"	8'-8"	9'-0"	362T125-54-50
	362T125-68-50	8'-6"	8'-11"	9'-4"	9'-9"	10'-2"	10'-6"	10'-11"	362T125-68-50
	362T125-97-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-4"	12'-10"	13'-3"	362T125-97-50
0.3	362T125-33-50	4'-9"	5'-0"	5'-3"	5'-5"	5'-8"	5'-10"	6'-1"	362T125-33-50
	362T125-43-50	6'-1"	6'-5"	6'-9"	7'-0"	7'-4"	7'-7"	7'-10"	362T125-43-50
	362T125-54-50	7'-6"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	9'-7"	362T125-54-50
	362T125-68-50	9'-1"	9'-6"	10'-0"	10'-5"	10'-10"	11'-2"	11'-7"	362T125-68-50
	362T125-97-50	11'-1"	11'-7"	12'-2"	12'-8"	13'-2"	13'-8"	14'-1"	362T125-97-50
0.2	362T125-33-50	5'-1"	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-6"	362T125-33-50
	362T125-43-50	6'-7"	6'-11"	7'-3"	7'-6"	7'-10"	8'-1"	8'-5"	362T125-43-50
	362T125-54-50	8'-1"	8'-5"	8'-10"	9'-3"	9'-7"	9'-11"	10'-3"	362T125-54-50
	362T125-68-50	9'-9"	10'-3"	10'-8"	11'-2"	11'-7"	12'-0"	12'-5"	362T125-68-50
	362T125-97-50	11'-10"	12'-5"	13'-0"	13'-7"	14'-1"	14'-7"	15'-1"	362T125-97-50
0.1	362T125-33-50	5'-6"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	362T125-33-50
	362T125-43-50	7'-2"	7'-6"	7'-10"	8'-2"	8'-6"	8'-10"	9'-1"	362T125-43-50
	362T125-54-50	8'-9"	9'-2"	9'-7"	10'-0"	10'-5"	10'-9"	11'-2"	362T125-54-50
	362T125-68-50	10'-6"	11'-1"	11'-7"	12'-1"	12'-7"	13'-0"	13'-5"	362T125-68-50
	362T125-97-50	12'-10"	13'-6"	14'-1"	14'-8"	15'-3"	15'-10"	16'-4"	362T125-97-50
0.0	362T125-33-50	5'-11"	6'-3"	6'-7"	6'-10"	7'-1"	7'-4"	7'-7"	362T125-33-50
	362T125-43-50	7'-8"	8'-0"	8'-5"	8'-9"	9'-1"	9'-5"	9'-9"	362T125-43-50
	362T125-54-50	9'-4"	9'-10"	10'-3"	10'-9"	11'-2"	11'-7"	11'-11"	362T125-54-50
	362T125-68-50	11'-4"	11'-11"	12'-5"	12'-11"	13'-5"	13'-11"	14'-5"	362T125-68-50
	362T125-97-50	13'-9"	14'-5"	15'-1"	15'-9"	16'-4"	16'-11"	17'-6"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PCS-0003 BY Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.225: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.60 Weight 2000 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	4'-11"	5'-2"	5'-5"	5'-8"	5'-11"	6'-1"	6'-4"	362T125-33-50
	362T125-43-50	6'-5"	6'-8"	7'-0"	7'-4"	7'-7"	7'-11"	8'-2"	362T125-43-50
	362T125-54-50	7'-10"	8'-3"	8'-7"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-54-50
	362T125-68-50	9'-5"	9'-11"	10'-5"	10'-10"	11'-3"	11'-8"	12'-1"	362T125-68-50
	362T125-97-50	11'-6"	12'-1"	12'-8"	13'-2"	13'-9"	14'-2"	14'-8"	362T125-97-50
0.9	362T125-33-50	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-4"	6'-7"	362T125-33-50
	362T125-43-50	6'-7"	7'-0"	7'-3"	7'-7"	7'-11"	8'-2"	8'-6"	362T125-43-50
	362T125-54-50	8'-1"	8'-6"	8'-11"	9'-4"	9'-8"	10'-0"	10'-4"	362T125-54-50
	362T125-68-50	9'-10"	10'-4"	10'-9"	11'-3"	11'-8"	12'-1"	12'-6"	362T125-68-50
	362T125-97-50	11'-11"	12'-7"	13'-1"	13'-8"	14'-3"	14'-9"	15'-3"	362T125-97-50
0.8	362T125-33-50	5'-4"	5'-7"	5'-11"	6'-2"	6'-5"	6'-7"	6'-10"	362T125-33-50
	362T125-43-50	6'-11"	7'-3"	7'-7"	7'-11"	8'-3"	8'-6"	8'-10"	362T125-43-50
	362T125-54-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-1"	10'-5"	10'-9"	362T125-54-50
	362T125-68-50	10'-2"	10'-8"	11'-2"	11'-8"	12'-2"	12'-7"	13'-0"	362T125-68-50
	362T125-97-50	12'-5"	13'-0"	13'-8"	14'-3"	14'-9"	15'-4"	15'-10"	362T125-97-50
0.7	362T125-33-50	5'-7"	5'-10"	6'-2"	6'-5"	6'-8"	6'-11"	7'-2"	362T125-33-50
	362T125-43-50	7'-2"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-2"	362T125-43-50
	362T125-54-50	8'-10"	9'-3"	9'-8"	10'-1"	10'-6"	10'-10"	11'-3"	362T125-54-50
	362T125-68-50	10'-8"	11'-2"	11'-8"	12'-2"	12'-8"	13'-1"	13'-7"	362T125-68-50
	362T125-97-50	12'-11"	13'-7"	14'-3"	14'-10"	15'-5"	15'-11"	16'-6"	362T125-97-50
0.6	362T125-33-50	5'-10"	6'-2"	6'-5"	6'-9"	7'-0"	7'-3"	7'-6"	362T125-33-50
	362T125-43-50	7'-6"	7'-11"	8'-3"	8'-8"	9'-0"	9'-4"	9'-7"	362T125-43-50
	362T125-54-50	9'-3"	9'-8"	10'-1"	10'-7"	11'-0"	11'-4"	11'-9"	362T125-54-50
	362T125-68-50	11'-1"	11'-8"	12'-3"	12'-9"	13'-3"	13'-9"	14'-2"	362T125-68-50
	362T125-97-50	13'-6"	14'-3"	14'-10"	15'-6"	16'-1"	16'-8"	17'-3"	362T125-97-50
0.5	362T125-33-50	6'-2"	6'-6"	6'-9"	7'-1"	7'-4"	7'-7"	7'-10"	362T125-33-50
	362T125-43-50	7'-11"	8'-4"	8'-8"	9'-1"	9'-5"	9'-9"	10'-1"	362T125-43-50
	362T125-54-50	9'-8"	10'-2"	10'-8"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-54-50
	362T125-68-50	11'-8"	12'-3"	12'-10"	13'-5"	13'-11"	14'-5"	14'-11"	362T125-68-50
	362T125-97-50	14'-3"	14'-11"	15'-7"	16'-3"	16'-11"	17'-6"	18'-1"	362T125-97-50
0.4	362T125-33-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-9"	8'-1"	8'-4"	362T125-33-50
	362T125-43-50	8'-4"	8'-9"	9'-2"	9'-7"	10'-0"	10'-4"	10'-8"	362T125-43-50
	362T125-54-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-2"	12'-7"	13'-0"	362T125-54-50
	362T125-68-50	12'-4"	13'-0"	13'-7"	14'-2"	14'-8"	15'-3"	15'-9"	362T125-68-50
	362T125-97-50	15'-0"	15'-9"	16'-6"	17'-2"	17'-10"	18'-6"	19'-1"	362T125-97-50
0.3	362T125-33-50	6'-11"	7'-3"	7'-7"	7'-11"	8'-3"	8'-7"	8'-10"	362T125-33-50
	362T125-43-50	8'-11"	9'-4"	9'-9"	10'-2"	10'-7"	11'-0"	11'-4"	362T125-43-50
	362T125-54-50	10'-11"	11'-5"	11'-11"	12'-5"	12'-11"	13'-5"	13'-10"	362T125-54-50
	362T125-68-50	13'-2"	13'-9"	14'-5"	15'-0"	15'-7"	16'-2"	16'-9"	362T125-68-50
	362T125-97-50	16'-0"	16'-9"	17'-6"	18'-3"	19'-0"	19'-8"	20'-4"	362T125-97-50
0.2	362T125-33-50	7'-5"	7'-10"	8'-2"	8'-6"	8'-10"	9'-2"	9'-6"	362T125-33-50
	362T125-43-50	9'-6"	10'-0"	10'-6"	10'-11"	11'-4"	11'-9"	12'-2"	362T125-43-50
	362T125-54-50	11'-8"	12'-3"	12'-10"	13'-4"	13'-10"	14'-4"	14'-10"	362T125-54-50
	362T125-68-50	14'-1"	14'-9"	15'-5"	16'-1"	16'-9"	17'-4"	17'-11"	362T125-68-50
	362T125-97-50	17'-1"	17'-11"	18'-9"	19'-7"	20'-4"	21'-1"	21'-9"	362T125-97-50
0.1	362T125-33-50	8'-1"	8'-6"	8'-10"	9'-3"	9'-7"	9'-11"	10'-4"	362T125-33-50
	362T125-43-50	10'-4"	10'-10"	11'-4"	11'-10"	12'-4"	12'-9"	13'-2"	362T125-43-50
	362T125-54-50	12'-8"	13'-3"	13'-10"	14'-5"	15'-0"	15'-7"	16'-1"	362T125-54-50
	362T125-68-50	15'-3"	16'-0"	16'-9"	17'-5"	18'-1"	18'-9"	19'-5"	362T125-68-50
	362T125-97-50	18'-6"	19'-5"	20'-4"	21'-2"	22'-0"	22'-9"	23'-6"	362T125-97-50
0.0	362T125-33-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-8"	11'-0"	362T125-33-50
	362T125-43-50	11'-1"	11'-8"	12'-2"	12'-8"	13'-2"	13'-8"	14'-1"	362T125-43-50
	362T125-54-50	13'-6"	14'-3"	14'-10"	15'-6"	16'-1"	16'-8"	17'-3"	362T125-54-50
	362T125-68-50	16'-4"	17'-2"	17'-11"	18'-8"	19'-5"	20'-1"	20'-9"	362T125-68-50
	362T125-97-50	19'-10"	20'-10"	21'-9"	22'-8"	23'-6"	24'-5"	25'-2"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PCS-0003 By: Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.226: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.60 Weight 2200 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	4'-8"	4'-11"	5'-2"	5'-5"	5'-7"	5'-10"	6'-0"	362T125-33-50
	362T125-43-50	6'-1"	6'-4"	6'-8"	7'-0"	7'-3"	7'-6"	7'-9"	362T125-43-50
	362T125-54-50	7'-5"	7'-10"	8'-2"	8'-6"	8'-10"	9'-2"	9'-6"	362T125-54-50
	362T125-68-50	9'-0"	9'-5"	9'-11"	10'-4"	10'-9"	11'-1"	11'-6"	362T125-68-50
	362T125-97-50	10'-11"	11'-6"	12'-1"	12'-7"	13'-1"	13'-6"	14'-0"	362T125-97-50
0.9	362T125-33-50	4'-10"	5'-1"	5'-4"	5'-7"	5'-10"	6'-0"	6'-3"	362T125-33-50
	362T125-43-50	6'-3"	6'-7"	6'-11"	7'-3"	7'-6"	7'-9"	8'-1"	362T125-43-50
	362T125-54-50	7'-9"	8'-1"	8'-6"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-54-50
	362T125-68-50	9'-4"	9'-10"	10'-3"	10'-8"	11'-1"	11'-6"	11'-11"	362T125-68-50
	362T125-97-50	11'-4"	11'-11"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	362T125-97-50
0.8	362T125-33-50	5'-1"	5'-4"	5'-7"	5'-10"	6'-1"	6'-3"	6'-6"	362T125-33-50
	362T125-43-50	6'-7"	6'-11"	7'-2"	7'-6"	7'-10"	8'-1"	8'-4"	362T125-43-50
	362T125-54-50	8'-0"	8'-5"	8'-10"	9'-2"	9'-7"	9'-11"	10'-3"	362T125-54-50
	362T125-68-50	9'-8"	10'-2"	10'-8"	11'-1"	11'-7"	12'-0"	12'-4"	362T125-68-50
	362T125-97-50	11'-10"	12'-5"	13'-0"	13'-6"	14'-1"	14'-7"	15'-1"	362T125-97-50
0.7	362T125-33-50	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-7"	6'-9"	362T125-33-50
	362T125-43-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-2"	8'-5"	8'-9"	362T125-43-50
	362T125-54-50	8'-4"	8'-10"	9'-2"	9'-7"	10'-0"	10'-4"	10'-8"	362T125-54-50
	362T125-68-50	10'-1"	10'-7"	11'-1"	11'-7"	12'-0"	12'-6"	12'-11"	362T125-68-50
	362T125-97-50	12'-4"	12'-11"	13'-6"	14'-1"	14'-8"	15'-2"	15'-8"	362T125-97-50
0.6	362T125-33-50	5'-7"	5'-10"	6'-1"	6'-5"	6'-8"	6'-10"	7'-1"	362T125-33-50
	362T125-43-50	7'-2"	7'-6"	7'-10"	8'-2"	8'-6"	8'-10"	9'-2"	362T125-43-50
	362T125-54-50	8'-9"	9'-2"	9'-8"	10'-0"	10'-5"	10'-10"	11'-2"	362T125-54-50
	362T125-68-50	10'-7"	11'-1"	11'-8"	12'-1"	12'-7"	13'-1"	13'-6"	362T125-68-50
	362T125-97-50	12'-11"	13'-6"	14'-2"	14'-9"	15'-4"	15'-11"	16'-5"	362T125-97-50
0.5	362T125-33-50	5'-10"	6'-2"	6'-5"	6'-9"	7'-0"	7'-3"	7'-6"	362T125-33-50
	362T125-43-50	7'-6"	7'-11"	8'-3"	8'-8"	9'-0"	9'-4"	9'-7"	362T125-43-50
	362T125-54-50	9'-3"	9'-8"	10'-1"	10'-7"	11'-0"	11'-4"	11'-9"	362T125-54-50
	362T125-68-50	11'-1"	11'-8"	12'-3"	12'-9"	13'-3"	13'-9"	14'-2"	362T125-68-50
	362T125-97-50	13'-6"	14'-3"	14'-10"	15'-6"	16'-1"	16'-8"	17'-3"	362T125-97-50
0.4	362T125-33-50	6'-2"	6'-6"	6'-10"	7'-1"	7'-5"	7'-8"	7'-11"	362T125-33-50
	362T125-43-50	7'-11"	8'-4"	8'-9"	9'-1"	9'-6"	9'-10"	10'-2"	362T125-43-50
	362T125-54-50	9'-9"	10'-3"	10'-8"	11'-2"	11'-7"	12'-0"	12'-5"	362T125-54-50
	362T125-68-50	11'-9"	12'-4"	12'-11"	13'-5"	14'-0"	14'-6"	15'-0"	362T125-68-50
	362T125-97-50	14'-4"	15'-0"	15'-8"	16'-4"	17'-0"	17'-7"	18'-2"	362T125-97-50
0.3	362T125-33-50	6'-7"	6'-11"	7'-3"	7'-7"	7'-10"	8'-2"	8'-5"	362T125-33-50
	362T125-43-50	8'-6"	8'-11"	9'-4"	9'-8"	10'-1"	10'-5"	10'-10"	362T125-43-50
	362T125-54-50	10'-4"	10'-10"	11'-4"	11'-10"	12'-4"	12'-9"	13'-2"	362T125-54-50
	362T125-68-50	12'-6"	13'-1"	13'-9"	14'-4"	14'-10"	15'-5"	15'-11"	362T125-68-50
	362T125-97-50	15'-2"	15'-11"	16'-8"	17'-5"	18'-1"	18'-9"	19'-4"	362T125-97-50
0.2	362T125-33-50	7'-1"	7'-5"	7'-9"	8'-1"	8'-5"	8'-9"	9'-0"	362T125-33-50
	362T125-43-50	9'-1"	9'-6"	10'-0"	10'-5"	10'-10"	11'-2"	11'-7"	362T125-43-50
	362T125-54-50	11'-1"	11'-8"	12'-2"	12'-8"	13'-2"	13'-8"	14'-2"	362T125-54-50
	362T125-68-50	13'-5"	14'-1"	14'-8"	15'-4"	15'-11"	16'-6"	17'-1"	362T125-68-50
	362T125-97-50	16'-3"	17'-1"	17'-11"	18'-7"	19'-4"	20'-0"	20'-9"	362T125-97-50
0.1	362T125-33-50	7'-8"	8'-1"	8'-5"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-33-50
	362T125-43-50	9'-10"	10'-4"	10'-10"	11'-3"	11'-8"	12'-2"	12'-6"	362T125-43-50
	362T125-54-50	12'-0"	12'-7"	13'-2"	13'-9"	14'-4"	14'-10"	15'-4"	362T125-54-50
	362T125-68-50	14'-6"	15'-3"	15'-11"	16'-7"	17'-3"	17'-10"	18'-5"	362T125-68-50
	362T125-97-50	17'-7"	18'-6"	19'-4"	20'-2"	20'-11"	21'-8"	22'-5"	362T125-97-50
0.0	362T125-33-50	8'-3"	8'-8"	9'-1"	9'-5"	9'-10"	10'-2"	10'-6"	362T125-33-50
	362T125-43-50	10'-7"	11'-1"	11'-7"	12'-1"	12'-7"	13'-0"	13'-5"	362T125-43-50
	362T125-54-50	12'-11"	13'-6"	14'-2"	14'-9"	15'-4"	15'-10"	16'-5"	362T125-54-50
	362T125-68-50	15'-6"	16'-4"	17'-1"	17'-9"	18'-6"	19'-1"	19'-9"	362T125-68-50
	362T125-97-50	18'-11"	19'-10"	20'-9"	21'-7"	22'-5"	23'-3"	24'-0"	362T125-97-50

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TABLE 4.7.4.227: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.60 Weight 2400 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	4'-6"	4'-8"	4'-11"	5'-2"	5'-4"	5'-7"	5'-9"	362T125-33-50
	362T125-43-50	5'-9"	6'-1"	6'-4"	6'-8"	6'-11"	7'-2"	7'-5"	362T125-43-50
	362T125-54-50	7'-1"	7'-6"	7'-10"	8'-2"	8'-6"	8'-9"	9'-1"	362T125-54-50
	362T125-68-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-3"	10'-7"	11'-0"	362T125-68-50
	362T125-97-50	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	12'-11"	13'-4"	362T125-97-50
0.9	362T125-33-50	4'-8"	4'-11"	5'-1"	5'-4"	5'-7"	5'-9"	6'-0"	362T125-33-50
	362T125-43-50	6'-0"	6'-4"	6'-7"	6'-11"	7'-2"	7'-5"	7'-8"	362T125-43-50
	362T125-54-50	7'-4"	7'-9"	8'-1"	8'-5"	8'-9"	9'-1"	9'-5"	362T125-54-50
	362T125-68-50	8'-11"	9'-4"	9'-10"	10'-3"	10'-7"	11'-0"	11'-4"	362T125-68-50
	362T125-97-50	10'-10"	11'-5"	11'-11"	12'-5"	12'-11"	13'-5"	13'-10"	362T125-97-50
0.8	362T125-33-50	4'-10"	5'-1"	5'-4"	5'-7"	5'-9"	6'-0"	6'-2"	362T125-33-50
	362T125-43-50	6'-3"	6'-7"	6'-11"	7'-2"	7'-5"	7'-9"	8'-0"	362T125-43-50
	362T125-54-50	7'-8"	8'-1"	8'-5"	8'-9"	9'-2"	9'-6"	9'-9"	362T125-54-50
	362T125-68-50	9'-3"	9'-9"	10'-2"	10'-7"	11'-0"	11'-5"	11'-10"	362T125-68-50
	362T125-97-50	11'-3"	11'-10"	12'-5"	12'-11"	13'-5"	13'-11"	14'-5"	362T125-97-50
0.7	362T125-33-50	5'-1"	5'-4"	5'-7"	5'-10"	6'-0"	6'-3"	6'-6"	362T125-33-50
	362T125-43-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-9"	8'-1"	8'-4"	362T125-43-50
	362T125-54-50	8'-0"	8'-5"	8'-9"	9'-2"	9'-6"	9'-10"	10'-2"	362T125-54-50
	362T125-68-50	9'-8"	10'-2"	10'-7"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-68-50
	362T125-97-50	11'-9"	12'-4"	12'-11"	13'-6"	14'-0"	14'-6"	15'-0"	362T125-97-50
0.6	362T125-33-50	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-7"	6'-9"	362T125-33-50
	362T125-43-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-2"	8'-5"	8'-9"	362T125-43-50
	362T125-54-50	8'-4"	8'-10"	9'-2"	9'-7"	10'-0"	10'-4"	10'-8"	362T125-54-50
	362T125-68-50	10'-1"	10'-7"	11'-1"	11'-7"	12'-0"	12'-6"	12'-11"	362T125-68-50
	362T125-97-50	12'-4"	12'-11"	13'-6"	14'-1"	14'-8"	15'-2"	15'-8"	362T125-97-50
0.5	362T125-33-50	5'-7"	5'-10"	6'-2"	6'-5"	6'-8"	6'-11"	7'-2"	362T125-33-50
	362T125-43-50	7'-2"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-2"	362T125-43-50
	362T125-54-50	8'-10"	9'-3"	9'-8"	10'-1"	10'-6"	10'-10"	11'-3"	362T125-54-50
	362T125-68-50	10'-8"	11'-2"	11'-8"	12'-2"	12'-8"	13'-1"	13'-7"	362T125-68-50
	362T125-97-50	12'-11"	13'-7"	14'-3"	14'-10"	15'-5"	15'-11"	16'-6"	362T125-97-50
0.4	362T125-33-50	5'-11"	6'-2"	6'-6"	6'-9"	7'-1"	7'-4"	7'-7"	362T125-33-50
	362T125-43-50	7'-7"	8'-0"	8'-4"	8'-9"	9'-1"	9'-5"	9'-8"	362T125-43-50
	362T125-54-50	9'-4"	9'-9"	10'-3"	10'-8"	11'-1"	11'-6"	11'-10"	362T125-54-50
	362T125-68-50	11'-3"	11'-10"	12'-4"	12'-10"	13'-4"	13'-10"	14'-4"	362T125-68-50
	362T125-97-50	13'-8"	14'-4"	15'-0"	15'-8"	16'-3"	16'-10"	17'-5"	362T125-97-50
0.3	362T125-33-50	6'-3"	6'-7"	6'-11"	7'-3"	7'-6"	7'-9"	8'-0"	362T125-33-50
	362T125-43-50	8'-1"	8'-6"	8'-11"	9'-3"	9'-8"	10'-0"	10'-4"	362T125-43-50
	362T125-54-50	9'-11"	10'-5"	10'-10"	11'-4"	11'-9"	12'-2"	12'-7"	362T125-54-50
	362T125-68-50	11'-11"	12'-7"	13'-1"	13'-8"	14'-2"	14'-9"	15'-3"	362T125-68-50
	362T125-97-50	14'-6"	15'-3"	15'-11"	16'-8"	17'-3"	17'-11"	18'-6"	362T125-97-50
0.2	362T125-33-50	6'-9"	7'-1"	7'-5"	7'-9"	8'-1"	8'-4"	8'-8"	362T125-33-50
	362T125-43-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-8"	11'-1"	362T125-43-50
	362T125-54-50	10'-7"	11'-2"	11'-8"	12'-2"	12'-7"	13'-1"	13'-6"	362T125-54-50
	362T125-68-50	12'-10"	13'-5"	14'-1"	14'-8"	15'-3"	15'-9"	16'-4"	362T125-68-50
	362T125-97-50	15'-7"	16'-4"	17'-1"	17'-10"	18'-6"	19'-2"	19'-10"	362T125-97-50
0.1	362T125-33-50	7'-4"	7'-8"	8'-1"	8'-5"	8'-9"	9'-1"	9'-4"	362T125-33-50
	362T125-43-50	9'-5"	9'-11"	10'-4"	10'-9"	11'-2"	11'-7"	12'-0"	362T125-43-50
	362T125-54-50	11'-6"	12'-1"	12'-7"	13'-2"	13'-8"	14'-2"	14'-8"	362T125-54-50
	362T125-68-50	13'-10"	14'-7"	15'-3"	15'-10"	16'-6"	17'-1"	17'-8"	362T125-68-50
	362T125-97-50	16'-10"	17'-8"	18'-6"	19'-3"	20'-0"	20'-9"	21'-5"	362T125-97-50
0.0	362T125-33-50	7'-10"	8'-3"	8'-8"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-33-50
	362T125-43-50	10'-1"	10'-7"	11'-1"	11'-6"	12'-0"	12'-5"	12'-10"	362T125-43-50
	362T125-54-50	12'-4"	12'-11"	13'-6"	14'-1"	14'-8"	15'-2"	15'-8"	362T125-54-50
	362T125-68-50	14'-10"	15'-7"	16'-4"	17'-0"	17'-8"	18'-3"	18'-11"	362T125-68-50
	362T125-97-50	18'-1"	18'-11"	19'-10"	20'-8"	21'-5"	22'-3"	22'-11"	362T125-97-50

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TABLE 4.7.4.228: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.60 Weight 2600 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	4'-3"	4'-6"	4'-9"	4'-11"	5'-1"	5'-4"	5'-6"	362T125-33-50
	362T125-43-50	5'-6"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	362T125-43-50
	362T125-54-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-1"	8'-5"	8'-8"	362T125-54-50
	362T125-68-50	8'-3"	8'-8"	9'-1"	9'-5"	9'-10"	10'-2"	10'-6"	362T125-68-50
	362T125-97-50	10'-0"	10'-7"	11'-0"	11'-6"	11'-11"	12'-5"	12'-10"	362T125-97-50
0.9	362T125-33-50	4'-5"	4'-8"	4'-11"	5'-1"	5'-4"	5'-6"	5'-8"	362T125-33-50
	362T125-43-50	5'-9"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	7'-4"	362T125-43-50
	362T125-54-50	7'-1"	7'-5"	7'-9"	8'-1"	8'-5"	8'-9"	9'-0"	362T125-54-50
	362T125-68-50	8'-6"	9'-0"	9'-5"	9'-9"	10'-2"	10'-7"	10'-11"	362T125-68-50
	362T125-97-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-5"	12'-10"	13'-3"	362T125-97-50
0.8	362T125-33-50	4'-8"	4'-10"	5'-1"	5'-4"	5'-6"	5'-9"	5'-11"	362T125-33-50
	362T125-43-50	6'-0"	6'-4"	6'-7"	6'-10"	7'-2"	7'-5"	7'-8"	362T125-43-50
	362T125-54-50	7'-4"	7'-9"	8'-1"	8'-5"	8'-9"	9'-1"	9'-5"	362T125-54-50
	362T125-68-50	8'-10"	9'-4"	9'-9"	10'-2"	10'-7"	11'-0"	11'-4"	362T125-68-50
	362T125-97-50	10'-10"	11'-4"	11'-11"	12'-5"	12'-11"	13'-4"	13'-10"	362T125-97-50
0.7	362T125-33-50	4'-10"	5'-1"	5'-4"	5'-7"	5'-9"	6'-0"	6'-2"	362T125-33-50
	362T125-43-50	6'-3"	6'-7"	6'-11"	7'-2"	7'-5"	7'-9"	8'-0"	362T125-43-50
	362T125-54-50	7'-8"	8'-1"	8'-5"	8'-9"	9'-2"	9'-6"	9'-9"	362T125-54-50
	362T125-68-50	9'-3"	9'-9"	10'-2"	10'-7"	11'-0"	11'-5"	11'-10"	362T125-68-50
	362T125-97-50	11'-3"	11'-10"	12'-5"	12'-11"	13'-5"	13'-11"	14'-5"	362T125-97-50
0.6	362T125-33-50	5'-1"	5'-4"	5'-7"	5'-10"	6'-1"	6'-3"	6'-6"	362T125-33-50
	362T125-43-50	6'-7"	6'-11"	7'-2"	7'-6"	7'-10"	8'-1"	8'-4"	362T125-43-50
	362T125-54-50	8'-0"	8'-5"	8'-10"	9'-2"	9'-7"	9'-11"	10'-3"	362T125-54-50
	362T125-68-50	9'-8"	10'-2"	10'-8"	11'-1"	11'-7"	12'-0"	12'-4"	362T125-68-50
	362T125-97-50	11'-10"	12'-5"	13'-0"	13'-6"	14'-1"	14'-7"	15'-1"	362T125-97-50
0.5	362T125-33-50	5'-4"	5'-7"	5'-11"	6'-2"	6'-5"	6'-7"	6'-10"	362T125-33-50
	362T125-43-50	6'-11"	7'-3"	7'-7"	7'-11"	8'-3"	8'-6"	8'-10"	362T125-43-50
	362T125-54-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-1"	10'-5"	10'-9"	362T125-54-50
	362T125-68-50	10'-2"	10'-8"	11'-2"	11'-8"	12'-2"	12'-7"	13'-0"	362T125-68-50
	362T125-97-50	12'-5"	13'-0"	13'-8"	14'-3"	14'-9"	15'-4"	15'-10"	362T125-97-50
0.4	362T125-33-50	5'-8"	5'-11"	6'-3"	6'-6"	6'-9"	7'-0"	7'-3"	362T125-33-50
	362T125-43-50	7'-3"	7'-8"	8'-0"	8'-4"	8'-8"	9'-0"	9'-4"	362T125-43-50
	362T125-54-50	8'-11"	9'-4"	9'-10"	10'-3"	10'-7"	11'-0"	11'-5"	362T125-54-50
	362T125-68-50	10'-9"	11'-4"	11'-10"	12'-4"	12'-10"	13'-3"	13'-9"	362T125-68-50
	362T125-97-50	13'-1"	13'-9"	14'-5"	15'-0"	15'-7"	16'-2"	16'-8"	362T125-97-50
0.3	362T125-33-50	6'-0"	6'-4"	6'-8"	6'-11"	7'-2"	7'-5"	7'-8"	362T125-33-50
	362T125-43-50	7'-9"	8'-2"	8'-6"	8'-11"	9'-3"	9'-7"	9'-11"	362T125-43-50
	362T125-54-50	9'-6"	10'-0"	10'-5"	10'-10"	11'-3"	11'-8"	12'-1"	362T125-54-50
	362T125-68-50	11'-5"	12'-0"	12'-7"	13'-1"	13'-8"	14'-1"	14'-7"	362T125-68-50
	362T125-97-50	13'-11"	14'-8"	15'-4"	15'-11"	16'-7"	17'-2"	17'-9"	362T125-97-50
0.2	362T125-33-50	6'-6"	6'-10"	7'-1"	7'-5"	7'-9"	8'-0"	8'-3"	362T125-33-50
	362T125-43-50	8'-4"	8'-9"	9'-2"	9'-6"	9'-11"	10'-3"	10'-7"	362T125-43-50
	362T125-54-50	10'-2"	10'-8"	11'-2"	11'-8"	12'-1"	12'-6"	13'-0"	362T125-54-50
	362T125-68-50	12'-3"	12'-11"	13'-6"	14'-1"	14'-7"	15'-2"	15'-8"	362T125-68-50
	362T125-97-50	14'-11"	15'-8"	16'-5"	17'-1"	17'-9"	18'-5"	19'-0"	362T125-97-50
0.1	362T125-33-50	7'-0"	7'-5"	7'-9"	8'-1"	8'-4"	8'-8"	9'-0"	362T125-33-50
	362T125-43-50	9'-0"	9'-6"	9'-11"	10'-4"	10'-9"	11'-1"	11'-6"	362T125-43-50
	362T125-54-50	11'-0"	11'-7"	12'-1"	12'-7"	13'-1"	13'-7"	14'-0"	362T125-54-50
	362T125-68-50	13'-4"	14'-0"	14'-7"	15'-3"	15'-10"	16'-5"	16'-11"	362T125-68-50
	362T125-97-50	16'-2"	17'-0"	17'-9"	18'-6"	19'-3"	19'-11"	20'-7"	362T125-97-50
0.0	362T125-33-50	7'-6"	7'-11"	8'-3"	8'-8"	9'-0"	9'-4"	9'-7"	362T125-33-50
	362T125-43-50	9'-8"	10'-2"	10'-7"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-43-50
	362T125-54-50	11'-10"	12'-5"	13'-0"	13'-6"	14'-1"	14'-7"	15'-0"	362T125-54-50
	362T125-68-50	14'-3"	15'-0"	15'-8"	16'-4"	16'-11"	17'-7"	18'-2"	362T125-68-50
	362T125-97-50	17'-4"	18'-2"	19'-0"	19'-10"	20'-7"	21'-4"	22'-0"	362T125-97-50

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TABLE 4.7.4.229: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.60 Weight 2800 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	4'-1"	4'-4"	4'-6"	4'-9"	4'-11"	5'-1"	5'-3"	362T125-33-50
	362T125-43-50	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	362T125-43-50
	362T125-54-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-10"	8'-1"	8'-4"	362T125-54-50
	362T125-68-50	7'-11"	8'-4"	8'-8"	9'-1"	9'-5"	9'-9"	10'-1"	362T125-68-50
	362T125-97-50	9'-8"	10'-2"	10'-7"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-97-50
0.9	362T125-33-50	4'-3"	4'-6"	4'-8"	4'-11"	5'-1"	5'-4"	5'-6"	362T125-33-50
	362T125-43-50	5'-6"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	362T125-43-50
	362T125-54-50	6'-9"	7'-2"	7'-6"	7'-9"	8'-1"	8'-5"	8'-8"	362T125-54-50
	362T125-68-50	8'-2"	8'-7"	9'-0"	9'-5"	9'-9"	10'-2"	10'-6"	362T125-68-50
	362T125-97-50	10'-0"	10'-6"	11'-0"	11'-6"	11'-11"	12'-4"	12'-9"	362T125-97-50
0.8	362T125-33-50	4'-5"	4'-8"	4'-11"	5'-1"	5'-4"	5'-6"	5'-8"	362T125-33-50
	362T125-43-50	5'-9"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	7'-4"	362T125-43-50
	362T125-54-50	7'-1"	7'-5"	7'-9"	8'-1"	8'-5"	8'-9"	9'-0"	362T125-54-50
	362T125-68-50	8'-6"	9'-0"	9'-5"	9'-9"	10'-2"	10'-7"	10'-11"	362T125-68-50
	362T125-97-50	10'-5"	10'-11"	11'-5"	11'-11"	12'-5"	12'-10"	13'-3"	362T125-97-50
0.7	362T125-33-50	4'-8"	4'-11"	5'-1"	5'-4"	5'-7"	5'-9"	6'-0"	362T125-33-50
	362T125-43-50	6'-0"	6'-4"	6'-7"	6'-11"	7'-2"	7'-5"	7'-8"	362T125-43-50
	362T125-54-50	7'-4"	7'-9"	8'-1"	8'-5"	8'-9"	9'-1"	9'-5"	362T125-54-50
	362T125-68-50	8'-11"	9'-4"	9'-10"	10'-3"	10'-7"	11'-0"	11'-4"	362T125-68-50
	362T125-97-50	10'-10"	11'-5"	11'-11"	12'-5"	12'-11"	13'-5"	13'-10"	362T125-97-50
0.6	362T125-33-50	4'-10"	5'-1"	5'-4"	5'-7"	5'-10"	6'-0"	6'-3"	362T125-33-50
	362T125-43-50	6'-3"	6'-7"	6'-11"	7'-3"	7'-6"	7'-9"	8'-1"	362T125-43-50
	362T125-54-50	7'-9"	8'-1"	8'-6"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-54-50
	362T125-68-50	9'-4"	9'-10"	10'-3"	10'-8"	11'-1"	11'-6"	11'-11"	362T125-68-50
	362T125-97-50	11'-4"	11'-11"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	362T125-97-50
0.5	362T125-33-50	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-4"	6'-7"	362T125-33-50
	362T125-43-50	6'-7"	7'-0"	7'-3"	7'-7"	7'-11"	8'-2"	8'-6"	362T125-43-50
	362T125-54-50	8'-1"	8'-6"	8'-11"	9'-4"	9'-8"	10'-0"	10'-4"	362T125-54-50
	362T125-68-50	9'-10"	10'-4"	10'-9"	11'-3"	11'-8"	12'-1"	12'-6"	362T125-68-50
	362T125-97-50	11'-11"	12'-7"	13'-1"	13'-8"	14'-3"	14'-9"	15'-3"	362T125-97-50
0.4	362T125-33-50	5'-5"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	6'-11"	362T125-33-50
	362T125-43-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	8'-11"	362T125-43-50
	362T125-54-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-3"	10'-7"	10'-11"	362T125-54-50
	362T125-68-50	10'-4"	10'-11"	11'-5"	11'-10"	12'-4"	12'-9"	13'-3"	362T125-68-50
	362T125-97-50	12'-7"	13'-3"	13'-10"	14'-5"	15'-0"	15'-7"	16'-1"	362T125-97-50
0.3	362T125-33-50	5'-9"	6'-1"	6'-4"	6'-8"	6'-11"	7'-2"	7'-5"	362T125-33-50
	362T125-43-50	7'-5"	7'-10"	8'-2"	8'-7"	8'-11"	9'-2"	9'-6"	362T125-43-50
	362T125-54-50	9'-1"	9'-7"	10'-0"	10'-5"	10'-10"	11'-3"	11'-8"	362T125-54-50
	362T125-68-50	11'-0"	11'-7"	12'-1"	12'-7"	13'-1"	13'-7"	14'-1"	362T125-68-50
	362T125-97-50	13'-5"	14'-1"	14'-9"	15'-4"	15'-11"	16'-6"	17'-1"	362T125-97-50
0.2	362T125-33-50	6'-3"	6'-6"	6'-10"	7'-2"	7'-5"	7'-8"	7'-11"	362T125-33-50
	362T125-43-50	8'-0"	8'-5"	8'-10"	9'-2"	9'-6"	9'-10"	10'-2"	362T125-43-50
	362T125-54-50	9'-9"	10'-3"	10'-9"	11'-2"	11'-8"	12'-1"	12'-6"	362T125-54-50
	362T125-68-50	11'-10"	12'-5"	13'-0"	13'-6"	14'-1"	14'-7"	15'-1"	362T125-68-50
	362T125-97-50	14'-4"	15'-1"	15'-9"	16'-5"	17'-1"	17'-8"	18'-4"	362T125-97-50
0.1	362T125-33-50	6'-9"	7'-1"	7'-5"	7'-9"	8'-1"	8'-4"	8'-8"	362T125-33-50
	362T125-43-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-8"	11'-1"	362T125-43-50
	362T125-54-50	10'-7"	11'-2"	11'-8"	12'-2"	12'-7"	13'-1"	13'-6"	362T125-54-50
	362T125-68-50	12'-10"	13'-5"	14'-1"	14'-8"	15'-3"	15'-9"	16'-4"	362T125-68-50
	362T125-97-50	15'-7"	16'-4"	17'-1"	17'-10"	18'-6"	19'-2"	19'-10"	362T125-97-50
0.0	362T125-33-50	7'-3"	7'-7"	8'-0"	8'-4"	8'-8"	8'-11"	9'-3"	362T125-33-50
	362T125-43-50	9'-4"	9'-9"	10'-3"	10'-8"	11'-1"	11'-6"	11'-10"	362T125-43-50
	362T125-54-50	11'-4"	11'-11"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	362T125-54-50
	362T125-68-50	13'-9"	14'-5"	15'-1"	15'-8"	16'-4"	16'-11"	17'-6"	362T125-68-50
	362T125-97-50	16'-8"	17'-6"	18'-4"	19'-1"	19'-10"	20'-6"	21'-3"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PCS-0003 BY: Alireza Asgari DATE: 3/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.230: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.60 Weight 3000 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	3'-11"	4'-2"	4'-4"	4'-7"	4'-9"	4'-11"	5'-1"	362T125-33-50
	362T125-43-50	5'-1"	5'-5"	5'-8"	5'-11"	6'-2"	6'-4"	6'-7"	362T125-43-50
	362T125-54-50	6'-4"	6'-7"	6'-11"	7'-3"	7'-6"	7'-10"	8'-1"	362T125-54-50
	362T125-68-50	7'-7"	8'-0"	8'-5"	8'-9"	9'-1"	9'-5"	9'-9"	362T125-68-50
	362T125-97-50	9'-4"	9'-9"	10'-3"	10'-8"	11'-1"	11'-6"	11'-11"	362T125-97-50
0.9	362T125-33-50	4'-1"	4'-4"	4'-6"	4'-9"	4'-11"	5'-1"	5'-3"	362T125-33-50
	362T125-43-50	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	362T125-43-50
	362T125-54-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-10"	8'-1"	8'-4"	362T125-54-50
	362T125-68-50	7'-11"	8'-4"	8'-8"	9'-1"	9'-5"	9'-9"	10'-1"	362T125-68-50
	362T125-97-50	9'-8"	10'-2"	10'-7"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-97-50
0.8	362T125-33-50	4'-3"	4'-6"	4'-9"	4'-11"	5'-1"	5'-4"	5'-6"	362T125-33-50
	362T125-43-50	5'-6"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	362T125-43-50
	362T125-54-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-1"	8'-5"	8'-8"	362T125-54-50
	362T125-68-50	8'-3"	8'-8"	9'-1"	9'-5"	9'-10"	10'-2"	10'-6"	362T125-68-50
	362T125-97-50	10'-0"	10'-7"	11'-0"	11'-6"	11'-11"	12'-5"	12'-10"	362T125-97-50
0.7	362T125-33-50	4'-6"	4'-8"	4'-11"	5'-2"	5'-4"	5'-7"	5'-9"	362T125-33-50
	362T125-43-50	5'-9"	6'-1"	6'-4"	6'-8"	6'-11"	7'-2"	7'-5"	362T125-43-50
	362T125-54-50	7'-1"	7'-6"	7'-10"	8'-2"	8'-6"	8'-9"	9'-1"	362T125-54-50
	362T125-68-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-3"	10'-7"	11'-0"	362T125-68-50
	362T125-97-50	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	12'-11"	13'-4"	362T125-97-50
0.6	362T125-33-50	4'-8"	4'-11"	5'-2"	5'-5"	5'-7"	5'-10"	6'-0"	362T125-33-50
	362T125-43-50	6'-1"	6'-4"	6'-8"	7'-0"	7'-3"	7'-6"	7'-9"	362T125-43-50
	362T125-54-50	7'-5"	7'-10"	8'-2"	8'-6"	8'-10"	9'-2"	9'-6"	362T125-54-50
	362T125-68-50	9'-0"	9'-5"	9'-11"	10'-4"	10'-9"	11'-1"	11'-6"	362T125-68-50
	362T125-97-50	10'-11"	11'-6"	12'-1"	12'-7"	13'-1"	13'-6"	14'-0"	362T125-97-50
0.5	362T125-33-50	4'-11"	5'-2"	5'-5"	5'-8"	5'-11"	6'-1"	6'-4"	362T125-33-50
	362T125-43-50	6'-5"	6'-8"	7'-0"	7'-4"	7'-7"	7'-11"	8'-2"	362T125-43-50
	362T125-54-50	7'-10"	8'-3"	8'-7"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-54-50
	362T125-68-50	9'-5"	9'-11"	10'-5"	10'-10"	11'-3"	11'-8"	12'-1"	362T125-68-50
	362T125-97-50	11'-6"	12'-1"	12'-8"	13'-2"	13'-9"	14'-2"	14'-8"	362T125-97-50
0.4	362T125-33-50	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-6"	6'-8"	362T125-33-50
	362T125-43-50	6'-9"	7'-1"	7'-5"	7'-9"	8'-1"	8'-4"	8'-8"	362T125-43-50
	362T125-54-50	8'-3"	8'-8"	9'-1"	9'-6"	9'-10"	10'-3"	10'-7"	362T125-54-50
	362T125-68-50	10'-0"	10'-6"	11'-0"	11'-5"	11'-11"	12'-4"	12'-9"	362T125-68-50
	362T125-97-50	12'-2"	12'-9"	13'-4"	13'-11"	14'-6"	15'-0"	15'-6"	362T125-97-50
0.3	362T125-33-50	5'-7"	5'-10"	6'-2"	6'-5"	6'-8"	6'-11"	7'-2"	362T125-33-50
	362T125-43-50	7'-2"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-2"	362T125-43-50
	362T125-54-50	8'-10"	9'-3"	9'-8"	10'-1"	10'-6"	10'-10"	11'-3"	362T125-54-50
	362T125-68-50	10'-8"	11'-2"	11'-8"	12'-2"	12'-8"	13'-1"	13'-7"	362T125-68-50
	362T125-97-50	12'-11"	13'-7"	14'-3"	14'-10"	15'-5"	15'-11"	16'-6"	362T125-97-50
0.2	362T125-33-50	6'-0"	6'-4"	6'-7"	6'-11"	7'-2"	7'-5"	7'-8"	362T125-33-50
	362T125-43-50	7'-9"	8'-1"	8'-6"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-43-50
	362T125-54-50	9'-5"	9'-11"	10'-4"	10'-10"	11'-3"	11'-8"	12'-0"	362T125-54-50
	362T125-68-50	11'-5"	12'-0"	12'-6"	13'-1"	13'-7"	14'-1"	14'-6"	362T125-68-50
	362T125-97-50	13'-10"	14'-7"	15'-3"	15'-10"	16'-6"	17'-1"	17'-8"	362T125-97-50
0.1	362T125-33-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-9"	8'-1"	8'-4"	362T125-33-50
	362T125-43-50	8'-4"	8'-9"	9'-2"	9'-7"	10'-0"	10'-4"	10'-8"	362T125-43-50
	362T125-54-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-2"	12'-7"	13'-0"	362T125-54-50
	362T125-68-50	12'-4"	13'-0"	13'-7"	14'-2"	14'-8"	15'-3"	15'-9"	362T125-68-50
	362T125-97-50	15'-0"	15'-9"	16'-6"	17'-2"	17'-10"	18'-6"	19'-1"	362T125-97-50
0.0	362T125-33-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	8'-11"	362T125-33-50
	362T125-43-50	9'-0"	9'-5"	9'-10"	10'-3"	10'-8"	11'-1"	11'-5"	362T125-43-50
	362T125-54-50	11'-0"	11'-6"	12'-1"	12'-7"	13'-1"	13'-6"	14'-0"	362T125-54-50
	362T125-68-50	13'-3"	13'-11"	14'-6"	15'-2"	15'-9"	16'-4"	16'-10"	362T125-68-50
	362T125-97-50	16'-1"	16'-11"	17'-8"	18'-5"	19'-1"	19'-10"	20'-6"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PCS-0003 BY Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.231: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.60 Weight 3200 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	3'-10"	4'-0"	4'-2"	4'-5"	4'-7"	4'-9"	4'-11"	362T125-33-50
	362T125-43-50	4'-11"	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-4"	362T125-43-50
	362T125-54-50	6'-1"	6'-5"	6'-8"	7'-0"	7'-3"	7'-6"	7'-9"	362T125-54-50
	362T125-68-50	7'-4"	7'-9"	8'-1"	8'-5"	8'-9"	9'-1"	9'-5"	362T125-68-50
	362T125-97-50	9'-0"	9'-5"	9'-11"	10'-4"	10'-9"	11'-1"	11'-6"	362T125-97-50
0.9	362T125-33-50	3'-11"	4'-2"	4'-4"	4'-7"	4'-9"	4'-11"	5'-1"	362T125-33-50
	362T125-43-50	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-4"	6'-7"	362T125-43-50
	362T125-54-50	6'-4"	6'-8"	6'-11"	7'-3"	7'-6"	7'-10"	8'-1"	362T125-54-50
	362T125-68-50	7'-8"	8'-0"	8'-5"	8'-9"	9'-1"	9'-5"	9'-9"	362T125-68-50
	362T125-97-50	9'-4"	9'-10"	10'-3"	10'-8"	11'-1"	11'-6"	11'-11"	362T125-97-50
0.8	362T125-33-50	4'-1"	4'-4"	4'-7"	4'-9"	4'-11"	5'-1"	5'-4"	362T125-33-50
	362T125-43-50	5'-4"	5'-8"	5'-11"	6'-2"	6'-5"	6'-8"	6'-10"	362T125-43-50
	362T125-54-50	6'-7"	6'-11"	7'-3"	7'-7"	7'-10"	8'-2"	8'-5"	362T125-54-50
	362T125-68-50	7'-11"	8'-4"	8'-9"	9'-1"	9'-6"	9'-10"	10'-2"	362T125-68-50
	362T125-97-50	9'-8"	10'-2"	10'-8"	11'-1"	11'-7"	12'-0"	12'-5"	362T125-97-50
0.7	362T125-33-50	4'-4"	4'-6"	4'-9"	5'-0"	5'-2"	5'-4"	5'-6"	362T125-33-50
	362T125-43-50	5'-7"	5'-11"	6'-2"	6'-5"	6'-8"	6'-11"	7'-2"	362T125-43-50
	362T125-54-50	6'-10"	7'-3"	7'-7"	7'-10"	8'-2"	8'-6"	8'-9"	362T125-54-50
	362T125-68-50	8'-4"	8'-9"	9'-2"	9'-6"	9'-11"	10'-3"	10'-7"	362T125-68-50
	362T125-97-50	10'-1"	10'-8"	11'-2"	11'-7"	12'-1"	12'-6"	12'-11"	362T125-97-50
0.6	362T125-33-50	4'-6"	4'-9"	5'-0"	5'-2"	5'-5"	5'-7"	5'-10"	362T125-33-50
	362T125-43-50	5'-10"	6'-2"	6'-5"	6'-9"	7'-0"	7'-3"	7'-6"	362T125-43-50
	362T125-54-50	7'-2"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-2"	362T125-54-50
	362T125-68-50	8'-8"	9'-2"	9'-7"	10'-0"	10'-4"	10'-9"	11'-1"	362T125-68-50
	362T125-97-50	10'-7"	11'-2"	11'-8"	12'-2"	12'-7"	13'-1"	13'-6"	362T125-97-50
0.5	362T125-33-50	4'-9"	5'-0"	5'-3"	5'-6"	5'-8"	5'-11"	6'-1"	362T125-33-50
	362T125-43-50	6'-2"	6'-6"	6'-9"	7'-1"	7'-4"	7'-7"	7'-11"	362T125-43-50
	362T125-54-50	7'-7"	7'-11"	8'-4"	8'-8"	9'-0"	9'-4"	9'-8"	362T125-54-50
	362T125-68-50	9'-2"	9'-7"	10'-1"	10'-6"	10'-11"	11'-3"	11'-8"	362T125-68-50
	362T125-97-50	11'-2"	11'-8"	12'-3"	12'-9"	13'-3"	13'-9"	14'-2"	362T125-97-50
0.4	362T125-33-50	5'-1"	5'-4"	5'-7"	5'-10"	6'-0"	6'-3"	6'-6"	362T125-33-50
	362T125-43-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-9"	8'-1"	8'-4"	362T125-43-50
	362T125-54-50	8'-0"	8'-5"	8'-9"	9'-2"	9'-6"	9'-10"	10'-2"	362T125-54-50
	362T125-68-50	9'-8"	10'-2"	10'-7"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-68-50
	362T125-97-50	11'-9"	12'-4"	12'-11"	13'-6"	14'-0"	14'-6"	15'-0"	362T125-97-50
0.3	362T125-33-50	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	6'-8"	6'-11"	362T125-33-50
	362T125-43-50	6'-11"	7'-4"	7'-8"	8'-0"	8'-3"	8'-7"	8'-10"	362T125-43-50
	362T125-54-50	8'-6"	8'-11"	9'-4"	9'-9"	10'-2"	10'-6"	10'-10"	362T125-54-50
	362T125-68-50	10'-3"	10'-10"	11'-4"	11'-9"	12'-3"	12'-8"	13'-1"	362T125-68-50
	362T125-97-50	12'-6"	13'-2"	13'-9"	14'-4"	14'-11"	15'-5"	15'-11"	362T125-97-50
0.2	362T125-33-50	5'-9"	6'-1"	6'-4"	6'-8"	6'-11"	7'-2"	7'-5"	362T125-33-50
	362T125-43-50	7'-5"	7'-10"	8'-2"	8'-7"	8'-11"	9'-2"	9'-6"	362T125-43-50
	362T125-54-50	9'-1"	9'-7"	10'-0"	10'-5"	10'-10"	11'-3"	11'-8"	362T125-54-50
	362T125-68-50	11'-0"	11'-7"	12'-1"	12'-7"	13'-1"	13'-7"	14'-1"	362T125-68-50
	362T125-97-50	13'-5"	14'-1"	14'-9"	15'-4"	15'-11"	16'-6"	17'-1"	362T125-97-50
0.1	362T125-33-50	6'-3"	6'-7"	6'-11"	7'-3"	7'-6"	7'-9"	8'-0"	362T125-33-50
	362T125-43-50	8'-1"	8'-6"	8'-11"	9'-3"	9'-8"	10'-0"	10'-4"	362T125-43-50
	362T125-54-50	9'-11"	10'-5"	10'-10"	11'-4"	11'-9"	12'-2"	12'-7"	362T125-54-50
	362T125-68-50	11'-11"	12'-7"	13'-1"	13'-8"	14'-2"	14'-9"	15'-3"	362T125-68-50
	362T125-97-50	14'-6"	15'-3"	15'-11"	16'-7"	17'-3"	17'-11"	18'-6"	362T125-97-50
0.0	362T125-33-50	6'-9"	7'-1"	7'-5"	7'-9"	8'-1"	8'-4"	8'-8"	362T125-33-50
	362T125-43-50	8'-8"	9'-1"	9'-6"	9'-11"	10'-4"	10'-8"	11'-1"	362T125-43-50
	362T125-54-50	10'-7"	11'-2"	11'-8"	12'-2"	12'-7"	13'-1"	13'-6"	362T125-54-50
	362T125-68-50	12'-10"	13'-5"	14'-1"	14'-8"	15'-3"	15'-9"	16'-4"	362T125-68-50
	362T125-97-50	15'-7"	16'-4"	17'-1"	17'-10"	18'-6"	19'-2"	19'-10"	362T125-97-50

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TABLE 4.7.4.232: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.60 Weight 3400 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	3'-8"	3'-10"	4'-1"	4'-3"	4'-5"	4'-7"	4'-9"	362T125-33-50
	362T125-43-50	4'-9"	5'-0"	5'-3"	5'-6"	5'-9"	5'-11"	6'-2"	362T125-43-50
	362T125-54-50	5'-11"	6'-2"	6'-6"	6'-9"	7'-0"	7'-4"	7'-7"	362T125-54-50
	362T125-68-50	7'-2"	7'-6"	7'-10"	8'-2"	8'-6"	8'-10"	9'-2"	362T125-68-50
	362T125-97-50	8'-9"	9'-2"	9'-7"	10'-0"	10'-5"	10'-9"	11'-2"	362T125-97-50
0.9	362T125-33-50	3'-10"	4'-0"	4'-3"	4'-5"	4'-7"	4'-9"	4'-11"	362T125-33-50
	362T125-43-50	5'-0"	5'-3"	5'-6"	5'-9"	5'-11"	6'-2"	6'-5"	362T125-43-50
	362T125-54-50	6'-1"	6'-5"	6'-9"	7'-0"	7'-4"	7'-7"	7'-10"	362T125-54-50
	362T125-68-50	7'-5"	7'-9"	8'-2"	8'-6"	8'-10"	9'-2"	9'-6"	362T125-68-50
	362T125-97-50	9'-0"	9'-6"	9'-11"	10'-4"	10'-9"	11'-2"	11'-7"	362T125-97-50
0.8	362T125-33-50	4'-0"	4'-2"	4'-5"	4'-7"	4'-9"	4'-11"	5'-2"	362T125-33-50
	362T125-43-50	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	6'-8"	362T125-43-50
	362T125-54-50	6'-4"	6'-8"	7'-0"	7'-4"	7'-7"	7'-10"	8'-2"	362T125-54-50
	362T125-68-50	7'-8"	8'-1"	8'-6"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-68-50
	362T125-97-50	9'-5"	9'-10"	10'-4"	10'-9"	11'-2"	11'-7"	12'-0"	362T125-97-50
0.7	362T125-33-50	4'-2"	4'-5"	4'-7"	4'-10"	5'-0"	5'-2"	5'-4"	362T125-33-50
	362T125-43-50	5'-5"	5'-8"	5'-11"	6'-3"	6'-5"	6'-8"	6'-11"	362T125-43-50
	362T125-54-50	6'-8"	7'-0"	7'-4"	7'-7"	7'-11"	8'-3"	8'-6"	362T125-54-50
	362T125-68-50	8'-0"	8'-5"	8'-10"	9'-3"	9'-7"	9'-11"	10'-3"	362T125-68-50
	362T125-97-50	9'-10"	10'-4"	10'-9"	11'-3"	11'-8"	12'-1"	12'-6"	362T125-97-50
0.6	362T125-33-50	4'-5"	4'-7"	4'-10"	5'-0"	5'-3"	5'-5"	5'-7"	362T125-33-50
	362T125-43-50	5'-8"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	7'-3"	362T125-43-50
	362T125-54-50	6'-11"	7'-4"	7'-8"	8'-0"	8'-4"	8'-7"	8'-11"	362T125-54-50
	362T125-68-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-0"	10'-5"	10'-9"	362T125-68-50
	362T125-97-50	10'-3"	10'-9"	11'-3"	11'-9"	12'-3"	12'-8"	13'-1"	362T125-97-50
0.5	362T125-33-50	4'-7"	4'-10"	5'-1"	5'-4"	5'-6"	5'-9"	5'-11"	362T125-33-50
	362T125-43-50	6'-0"	6'-3"	6'-7"	6'-10"	7'-1"	7'-5"	7'-8"	362T125-43-50
	362T125-54-50	7'-4"	7'-8"	8'-1"	8'-5"	8'-9"	9'-1"	9'-4"	362T125-54-50
	362T125-68-50	8'-10"	9'-4"	9'-9"	10'-2"	10'-7"	10'-11"	11'-4"	362T125-68-50
	362T125-97-50	10'-9"	11'-4"	11'-10"	12'-4"	12'-10"	13'-4"	13'-9"	362T125-97-50
0.4	362T125-33-50	4'-11"	5'-2"	5'-5"	5'-7"	5'-10"	6'-1"	6'-3"	362T125-33-50
	362T125-43-50	6'-4"	6'-8"	6'-11"	7'-3"	7'-6"	7'-10"	8'-1"	362T125-43-50
	362T125-54-50	7'-9"	8'-2"	8'-6"	8'-11"	9'-3"	9'-7"	9'-11"	362T125-54-50
	362T125-68-50	9'-4"	9'-10"	10'-3"	10'-9"	11'-2"	11'-7"	11'-11"	362T125-68-50
	362T125-97-50	11'-5"	12'-0"	12'-6"	13'-1"	13'-7"	14'-1"	14'-6"	362T125-97-50
0.3	362T125-33-50	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-5"	6'-8"	362T125-33-50
	362T125-43-50	6'-9"	7'-1"	7'-5"	7'-9"	8'-0"	8'-4"	8'-7"	362T125-43-50
	362T125-54-50	8'-3"	8'-8"	9'-1"	9'-5"	9'-10"	10'-2"	10'-6"	362T125-54-50
	362T125-68-50	9'-11"	10'-5"	10'-11"	11'-5"	11'-10"	12'-3"	12'-8"	362T125-68-50
	362T125-97-50	12'-1"	12'-9"	13'-4"	13'-11"	14'-5"	14'-11"	15'-5"	362T125-97-50
0.2	362T125-33-50	5'-7"	5'-11"	6'-2"	6'-5"	6'-8"	6'-11"	7'-2"	362T125-33-50
	362T125-43-50	7'-3"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	362T125-43-50
	362T125-54-50	8'-10"	9'-3"	9'-9"	10'-2"	10'-6"	10'-11"	11'-3"	362T125-54-50
	362T125-68-50	10'-8"	11'-3"	11'-9"	12'-3"	12'-8"	13'-2"	13'-7"	362T125-68-50
	362T125-97-50	13'-0"	13'-8"	14'-3"	14'-11"	15'-5"	16'-0"	16'-7"	362T125-97-50
0.1	362T125-33-50	6'-1"	6'-5"	6'-8"	7'-0"	7'-3"	7'-6"	7'-9"	362T125-33-50
	362T125-43-50	7'-10"	8'-3"	8'-7"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-43-50
	362T125-54-50	9'-7"	10'-1"	10'-6"	11'-0"	11'-5"	11'-10"	12'-3"	362T125-54-50
	362T125-68-50	11'-7"	12'-2"	12'-9"	13'-3"	13'-9"	14'-3"	14'-9"	362T125-68-50
	362T125-97-50	14'-1"	14'-9"	15'-6"	16'-1"	16'-9"	17'-4"	17'-11"	362T125-97-50
0.0	362T125-33-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-10"	8'-1"	8'-4"	362T125-33-50
	362T125-43-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-0"	10'-4"	10'-9"	362T125-43-50
	362T125-54-50	10'-3"	10'-10"	11'-3"	11'-9"	12'-3"	12'-8"	13'-1"	362T125-54-50
	362T125-68-50	12'-5"	13'-0"	13'-8"	14'-2"	14'-9"	15'-3"	15'-10"	362T125-68-50
	362T125-97-50	15'-1"	15'-10"	16'-7"	17'-3"	17'-11"	18'-7"	19'-2"	362T125-97-50

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TABLE 4.7.4.233: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.60 Weight 3600 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	3'-7"	3'-9"	3'-11"	4'-1"	4'-3"	4'-5"	4'-7"	362T125-33-50
	362T125-43-50	4'-8"	4'-11"	5'-1"	5'-4"	5'-7"	5'-9"	5'-11"	362T125-43-50
	362T125-54-50	5'-8"	6'-0"	6'-3"	6'-7"	6'-10"	7'-1"	7'-4"	362T125-54-50
	362T125-68-50	6'-11"	7'-3"	7'-7"	7'-11"	8'-3"	8'-7"	8'-10"	362T125-68-50
	362T125-97-50	8'-5"	8'-11"	9'-4"	9'-8"	10'-1"	10'-5"	10'-10"	362T125-97-50
0.9	362T125-33-50	3'-8"	3'-11"	4'-1"	4'-3"	4'-5"	4'-7"	4'-9"	362T125-33-50
	362T125-43-50	4'-10"	5'-1"	5'-4"	5'-6"	5'-9"	6'-0"	6'-2"	362T125-43-50
	362T125-54-50	5'-11"	6'-3"	6'-6"	6'-10"	7'-1"	7'-4"	7'-7"	362T125-54-50
	362T125-68-50	7'-2"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-2"	362T125-68-50
	362T125-97-50	8'-9"	9'-3"	9'-8"	10'-1"	10'-5"	10'-10"	11'-2"	362T125-97-50
0.8	362T125-33-50	3'-10"	4'-1"	4'-3"	4'-5"	4'-8"	4'-10"	5'-0"	362T125-33-50
	362T125-43-50	5'-0"	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-5"	362T125-43-50
	362T125-54-50	6'-2"	6'-6"	6'-9"	7'-1"	7'-4"	7'-8"	7'-11"	362T125-54-50
	362T125-68-50	7'-6"	7'-10"	8'-3"	8'-7"	8'-11"	9'-3"	9'-7"	362T125-68-50
	362T125-97-50	9'-1"	9'-7"	10'-0"	10'-5"	10'-10"	11'-3"	11'-8"	362T125-97-50
0.7	362T125-33-50	4'-0"	4'-3"	4'-5"	4'-8"	4'-10"	5'-0"	5'-2"	362T125-33-50
	362T125-43-50	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	362T125-43-50
	362T125-54-50	6'-5"	6'-9"	7'-1"	7'-5"	7'-8"	8'-0"	8'-3"	362T125-54-50
	362T125-68-50	7'-9"	8'-2"	8'-7"	8'-11"	9'-4"	9'-8"	10'-0"	362T125-68-50
	362T125-97-50	9'-6"	10'-0"	10'-6"	10'-11"	11'-4"	11'-9"	12'-2"	362T125-97-50
0.6	362T125-33-50	4'-3"	4'-6"	4'-8"	4'-11"	5'-1"	5'-3"	5'-5"	362T125-33-50
	362T125-43-50	5'-6"	5'-9"	6'-1"	6'-4"	6'-7"	6'-10"	7'-0"	362T125-43-50
	362T125-54-50	6'-9"	7'-1"	7'-5"	7'-9"	8'-1"	8'-4"	8'-8"	362T125-54-50
	362T125-68-50	8'-2"	8'-7"	9'-0"	9'-4"	9'-9"	10'-1"	10'-5"	362T125-68-50
	362T125-97-50	9'-11"	10'-6"	10'-11"	11'-5"	11'-10"	12'-4"	12'-9"	362T125-97-50
0.5	362T125-33-50	4'-6"	4'-8"	4'-11"	5'-2"	5'-4"	5'-7"	5'-9"	362T125-33-50
	362T125-43-50	5'-9"	6'-1"	6'-4"	6'-8"	6'-11"	7'-2"	7'-5"	362T125-43-50
	362T125-54-50	7'-1"	7'-6"	7'-10"	8'-2"	8'-6"	8'-9"	9'-1"	362T125-54-50
	362T125-68-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-3"	10'-7"	11'-0"	362T125-68-50
	362T125-97-50	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	12'-11"	13'-4"	362T125-97-50
0.4	362T125-33-50	4'-9"	5'-0"	5'-3"	5'-5"	5'-8"	5'-10"	6'-1"	362T125-33-50
	362T125-43-50	6'-1"	6'-5"	6'-9"	7'-0"	7'-4"	7'-7"	7'-10"	362T125-43-50
	362T125-54-50	7'-6"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	9'-7"	362T125-54-50
	362T125-68-50	9'-1"	9'-6"	10'-0"	10'-5"	10'-10"	11'-3"	11'-7"	362T125-68-50
	362T125-97-50	11'-1"	11'-7"	12'-2"	12'-8"	13'-2"	13'-8"	14'-1"	362T125-97-50
0.3	362T125-33-50	5'-1"	5'-4"	5'-7"	5'-10"	6'-0"	6'-3"	6'-6"	362T125-33-50
	362T125-43-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-9"	8'-1"	8'-4"	362T125-43-50
	362T125-54-50	8'-0"	8'-5"	8'-9"	9'-2"	9'-6"	9'-10"	10'-2"	362T125-54-50
	362T125-68-50	9'-8"	10'-2"	10'-7"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-68-50
	362T125-97-50	11'-9"	12'-4"	12'-11"	13'-6"	14'-0"	14'-6"	15'-0"	362T125-97-50
0.2	362T125-33-50	5'-5"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	6'-11"	362T125-33-50
	362T125-43-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	8'-11"	362T125-43-50
	362T125-54-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-3"	10'-7"	10'-11"	362T125-54-50
	362T125-68-50	10'-4"	10'-11"	11'-5"	11'-10"	12'-4"	12'-9"	13'-3"	362T125-68-50
	362T125-97-50	12'-7"	13'-3"	13'-10"	14'-5"	15'-0"	15'-7"	16'-1"	362T125-97-50
0.1	362T125-33-50	5'-11"	6'-2"	6'-6"	6'-9"	7'-1"	7'-4"	7'-7"	362T125-33-50
	362T125-43-50	7'-7"	8'-0"	8'-4"	8'-9"	9'-1"	9'-5"	9'-8"	362T125-43-50
	362T125-54-50	9'-4"	9'-9"	10'-3"	10'-8"	11'-1"	11'-6"	11'-10"	362T125-54-50
	362T125-68-50	11'-3"	11'-10"	12'-4"	12'-10"	13'-4"	13'-10"	14'-4"	362T125-68-50
	362T125-97-50	13'-8"	14'-4"	15'-0"	15'-8"	16'-3"	16'-10"	17'-5"	362T125-97-50
0.0	362T125-33-50	6'-4"	6'-8"	7'-0"	7'-3"	7'-7"	7'-10"	8'-1"	362T125-33-50
	362T125-43-50	8'-2"	8'-7"	9'-0"	9'-4"	9'-9"	10'-1"	10'-5"	362T125-43-50
	362T125-54-50	10'-0"	10'-6"	10'-11"	11'-5"	11'-10"	12'-4"	12'-9"	362T125-54-50
	362T125-68-50	12'-0"	12'-8"	13'-3"	13'-9"	14'-4"	14'-10"	15'-4"	362T125-68-50
	362T125-97-50	14'-8"	15'-5"	16'-1"	16'-9"	17'-5"	18'-0"	18'-8"	362T125-97-50

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TABLE 4.7.4.234: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.60 Weight 3800 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	3'-5"	3'-8"	3'-10"	4'-0"	4'-2"	4'-4"	4'-5"	362T125-33-50
	362T125-43-50	4'-6"	4'-9"	5'-0"	5'-2"	5'-5"	5'-7"	5'-9"	362T125-43-50
	362T125-54-50	5'-7"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	362T125-54-50
	362T125-68-50	6'-9"	7'-1"	7'-5"	7'-9"	8'-0"	8'-4"	8'-7"	362T125-68-50
	362T125-97-50	8'-2"	8'-8"	9'-0"	9'-5"	9'-10"	10'-2"	10'-6"	362T125-97-50
0.9	362T125-33-50	3'-7"	3'-9"	4'-0"	4'-2"	4'-4"	4'-6"	4'-8"	362T125-33-50
	362T125-43-50	4'-8"	4'-11"	5'-2"	5'-5"	5'-7"	5'-10"	6'-0"	362T125-43-50
	362T125-54-50	5'-9"	6'-1"	6'-4"	6'-7"	6'-10"	7'-2"	7'-4"	362T125-54-50
	362T125-68-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	8'-11"	362T125-68-50
	362T125-97-50	8'-6"	8'-11"	9'-4"	9'-9"	10'-2"	10'-6"	10'-11"	362T125-97-50
0.8	362T125-33-50	3'-9"	3'-11"	4'-2"	4'-4"	4'-6"	4'-8"	4'-10"	362T125-33-50
	362T125-43-50	4'-10"	5'-1"	5'-4"	5'-7"	5'-10"	6'-0"	6'-3"	362T125-43-50
	362T125-54-50	6'-0"	6'-4"	6'-7"	6'-11"	7'-2"	7'-5"	7'-8"	362T125-54-50
	362T125-68-50	7'-3"	7'-7"	8'-0"	8'-4"	8'-8"	9'-0"	9'-3"	362T125-68-50
	362T125-97-50	8'-10"	9'-4"	9'-9"	10'-2"	10'-7"	10'-11"	11'-4"	362T125-97-50
0.7	362T125-33-50	3'-11"	4'-1"	4'-4"	4'-6"	4'-8"	4'-10"	5'-0"	362T125-33-50
	362T125-43-50	5'-1"	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-6"	362T125-43-50
	362T125-54-50	6'-3"	6'-7"	6'-11"	7'-2"	7'-6"	7'-9"	8'-0"	362T125-54-50
	362T125-68-50	7'-7"	7'-11"	8'-4"	8'-8"	9'-0"	9'-4"	9'-8"	362T125-68-50
	362T125-97-50	9'-3"	9'-9"	10'-2"	10'-7"	11'-0"	11'-5"	11'-10"	362T125-97-50
0.6	362T125-33-50	4'-1"	4'-4"	4'-6"	4'-9"	4'-11"	5'-1"	5'-3"	362T125-33-50
	362T125-43-50	5'-4"	5'-7"	5'-11"	6'-2"	6'-4"	6'-7"	6'-10"	362T125-43-50
	362T125-54-50	6'-7"	6'-11"	7'-3"	7'-6"	7'-10"	8'-1"	8'-5"	362T125-54-50
	362T125-68-50	7'-11"	8'-4"	8'-9"	9'-1"	9'-5"	9'-10"	10'-2"	362T125-68-50
	362T125-97-50	9'-8"	10'-2"	10'-8"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-97-50
0.5	362T125-33-50	4'-4"	4'-7"	4'-9"	5'-0"	5'-2"	5'-5"	5'-7"	362T125-33-50
	362T125-43-50	5'-7"	5'-11"	6'-2"	6'-5"	6'-9"	6'-11"	7'-2"	362T125-43-50
	362T125-54-50	6'-11"	7'-3"	7'-7"	7'-11"	8'-3"	8'-6"	8'-10"	362T125-54-50
	362T125-68-50	8'-4"	8'-9"	9'-2"	9'-7"	9'-11"	10'-4"	10'-8"	362T125-68-50
	362T125-97-50	10'-2"	10'-8"	11'-2"	11'-8"	12'-1"	12'-7"	13'-0"	362T125-97-50
0.4	362T125-33-50	4'-7"	4'-10"	5'-1"	5'-3"	5'-6"	5'-8"	5'-11"	362T125-33-50
	362T125-43-50	5'-11"	6'-3"	6'-7"	6'-10"	7'-1"	7'-4"	7'-7"	362T125-43-50
	362T125-54-50	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	9'-0"	9'-4"	362T125-54-50
	362T125-68-50	8'-10"	9'-3"	9'-8"	10'-1"	10'-6"	10'-11"	11'-3"	362T125-68-50
	362T125-97-50	10'-9"	11'-4"	11'-10"	12'-4"	12'-10"	13'-3"	13'-9"	362T125-97-50
0.3	362T125-33-50	4'-11"	5'-2"	5'-5"	5'-8"	5'-10"	6'-1"	6'-3"	362T125-33-50
	362T125-43-50	6'-4"	6'-8"	7'-0"	7'-3"	7'-7"	7'-10"	8'-1"	362T125-43-50
	362T125-54-50	7'-9"	8'-2"	8'-7"	8'-11"	9'-3"	9'-7"	9'-11"	362T125-54-50
	362T125-68-50	9'-5"	9'-10"	10'-4"	10'-9"	11'-2"	11'-7"	12'-0"	362T125-68-50
	362T125-97-50	11'-5"	12'-0"	12'-7"	13'-1"	13'-7"	14'-1"	14'-7"	362T125-97-50
0.2	362T125-33-50	5'-3"	5'-7"	5'-10"	6'-1"	6'-4"	6'-6"	6'-9"	362T125-33-50
	362T125-43-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-1"	8'-5"	8'-8"	362T125-43-50
	362T125-54-50	8'-4"	8'-9"	9'-2"	9'-7"	9'-11"	10'-3"	10'-8"	362T125-54-50
	362T125-68-50	10'-1"	10'-7"	11'-1"	11'-6"	12'-0"	12'-5"	12'-10"	362T125-68-50
	362T125-97-50	12'-3"	12'-11"	13'-6"	14'-1"	14'-7"	15'-1"	15'-8"	362T125-97-50
0.1	362T125-33-50	5'-9"	6'-0"	6'-4"	6'-7"	6'-10"	7'-1"	7'-4"	362T125-33-50
	362T125-43-50	7'-5"	7'-9"	8'-1"	8'-6"	8'-10"	9'-1"	9'-5"	362T125-43-50
	362T125-54-50	9'-0"	9'-6"	9'-11"	10'-4"	10'-9"	11'-2"	11'-6"	362T125-54-50
	362T125-68-50	10'-11"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	13'-11"	362T125-68-50
	362T125-97-50	13'-3"	13'-11"	14'-7"	15'-3"	15'-10"	16'-4"	16'-11"	362T125-97-50
0.0	362T125-33-50	6'-2"	6'-6"	6'-9"	7'-1"	7'-4"	7'-7"	7'-11"	362T125-33-50
	362T125-43-50	7'-11"	8'-4"	8'-9"	9'-1"	9'-5"	9'-9"	10'-1"	362T125-43-50
	362T125-54-50	9'-8"	10'-2"	10'-8"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-54-50
	362T125-68-50	11'-8"	12'-4"	12'-10"	13'-5"	13'-11"	14'-5"	14'-11"	362T125-68-50
	362T125-97-50	14'-3"	14'-11"	15'-8"	16'-4"	16'-11"	17'-7"	18'-2"	362T125-97-50

REVIEWED FOR CODE COMPLIANCE HCAI PCS-0003 BY Alireza Asgari DATE: 03/21/2022 CALIFORNIA BUILDING CODE, 2019

TABLE 4.7.4.235: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.60 Weight 4000 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-2"	4'-4"	362T125-33-50
	362T125-43-50	4'-4"	4'-7"	4'-10"	5'-0"	5'-3"	5'-5"	5'-7"	362T125-43-50
	362T125-54-50	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	6'-8"	6'-11"	362T125-54-50
	362T125-68-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-10"	8'-1"	8'-4"	362T125-68-50
	362T125-97-50	8'-0"	8'-5"	8'-9"	9'-2"	9'-6"	9'-11"	10'-3"	362T125-97-50
0.9	362T125-33-50	3'-6"	3'-8"	3'-10"	4'-0"	4'-2"	4'-4"	4'-6"	362T125-33-50
	362T125-43-50	4'-7"	4'-9"	5'-0"	5'-3"	5'-5"	5'-8"	5'-10"	362T125-43-50
	362T125-54-50	5'-7"	5'-11"	6'-2"	6'-5"	6'-8"	6'-11"	7'-2"	362T125-54-50
	362T125-68-50	6'-9"	7'-2"	7'-6"	7'-9"	8'-1"	8'-5"	8'-8"	362T125-68-50
	362T125-97-50	8'-3"	8'-9"	9'-1"	9'-6"	9'-11"	10'-3"	10'-7"	362T125-97-50
0.8	362T125-33-50	3'-8"	3'-10"	4'-0"	4'-2"	4'-4"	4'-6"	4'-8"	362T125-33-50
	362T125-43-50	4'-9"	5'-0"	5'-3"	5'-5"	5'-8"	5'-10"	6'-1"	362T125-43-50
	362T125-54-50	5'-10"	6'-2"	6'-5"	6'-8"	7'-0"	7'-3"	7'-6"	362T125-54-50
	362T125-68-50	7'-1"	7'-5"	7'-9"	8'-1"	8'-5"	8'-9"	9'-0"	362T125-68-50
	362T125-97-50	8'-7"	9'-1"	9'-6"	9'-11"	10'-3"	10'-8"	11'-0"	362T125-97-50
0.7	362T125-33-50	3'-10"	4'-0"	4'-2"	4'-5"	4'-7"	4'-9"	4'-11"	362T125-33-50
	362T125-43-50	4'-11"	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-4"	362T125-43-50
	362T125-54-50	6'-1"	6'-5"	6'-8"	7'-0"	7'-3"	7'-6"	7'-9"	362T125-54-50
	362T125-68-50	7'-4"	7'-9"	8'-1"	8'-5"	8'-9"	9'-1"	9'-5"	362T125-68-50
	362T125-97-50	9'-0"	9'-5"	9'-11"	10'-4"	10'-9"	11'-1"	11'-6"	362T125-97-50
0.6	362T125-33-50	4'-0"	4'-2"	4'-5"	4'-7"	4'-9"	5'-0"	5'-2"	362T125-33-50
	362T125-43-50	5'-2"	5'-5"	5'-9"	6'-0"	6'-2"	6'-5"	6'-8"	362T125-43-50
	362T125-54-50	6'-5"	6'-8"	7'-0"	7'-4"	7'-7"	7'-11"	8'-2"	362T125-54-50
	362T125-68-50	7'-9"	8'-1"	8'-6"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-68-50
	362T125-97-50	9'-5"	9'-11"	10'-4"	10'-10"	11'-3"	11'-8"	12'-0"	362T125-97-50
0.5	362T125-33-50	4'-3"	4'-5"	4'-8"	4'-10"	5'-1"	5'-3"	5'-5"	362T125-33-50
	362T125-43-50	5'-6"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	362T125-43-50
	362T125-54-50	6'-9"	7'-1"	7'-5"	7'-8"	8'-0"	8'-4"	8'-7"	362T125-54-50
	362T125-68-50	8'-1"	8'-6"	8'-11"	9'-4"	9'-8"	10'-0"	10'-5"	362T125-68-50
	362T125-97-50	9'-11"	10'-5"	10'-11"	11'-4"	11'-10"	12'-3"	12'-8"	362T125-97-50
0.4	362T125-33-50	4'-6"	4'-8"	4'-11"	5'-2"	5'-4"	5'-7"	5'-9"	362T125-33-50
	362T125-43-50	5'-9"	6'-1"	6'-4"	6'-8"	6'-11"	7'-2"	7'-5"	362T125-43-50
	362T125-54-50	7'-1"	7'-6"	7'-10"	8'-2"	8'-6"	8'-9"	9'-1"	362T125-54-50
	362T125-68-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-3"	10'-7"	11'-0"	362T125-68-50
	362T125-97-50	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	12'-11"	13'-4"	362T125-97-50
0.3	362T125-33-50	4'-9"	5'-0"	5'-3"	5'-6"	5'-8"	5'-11"	6'-1"	362T125-33-50
	362T125-43-50	6'-2"	6'-6"	6'-9"	7'-1"	7'-4"	7'-7"	7'-11"	362T125-43-50
	362T125-54-50	7'-7"	7'-11"	8'-4"	8'-8"	9'-0"	9'-4"	9'-8"	362T125-54-50
	362T125-68-50	9'-2"	9'-7"	10'-1"	10'-6"	10'-11"	11'-3"	11'-8"	362T125-68-50
	362T125-97-50	11'-2"	11'-8"	12'-3"	12'-9"	13'-3"	13'-9"	14'-2"	362T125-97-50
0.2	362T125-33-50	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-4"	6'-7"	362T125-33-50
	362T125-43-50	6'-7"	7'-0"	7'-3"	7'-7"	7'-11"	8'-2"	8'-6"	362T125-43-50
	362T125-54-50	8'-1"	8'-6"	8'-11"	9'-4"	9'-8"	10'-0"	10'-4"	362T125-54-50
	362T125-68-50	9'-10"	10'-4"	10'-9"	11'-3"	11'-8"	12'-1"	12'-6"	362T125-68-50
	362T125-97-50	11'-11"	12'-7"	13'-1"	13'-8"	14'-3"	14'-9"	15'-3"	362T125-97-50
0.1	362T125-33-50	5'-7"	5'-10"	6'-2"	6'-5"	6'-8"	6'-11"	7'-2"	362T125-33-50
	362T125-43-50	7'-2"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-2"	362T125-43-50
	362T125-54-50	8'-10"	9'-3"	9'-8"	10'-1"	10'-6"	10'-10"	11'-3"	362T125-54-50
	362T125-68-50	10'-8"	11'-2"	11'-8"	12'-2"	12'-8"	13'-1"	13'-7"	362T125-68-50
	362T125-97-50	12'-11"	13'-7"	14'-3"	14'-10"	15'-5"	15'-11"	16'-6"	362T125-97-50
0.0	362T125-33-50	6'-0"	6'-4"	6'-7"	6'-11"	7'-2"	7'-5"	7'-8"	362T125-33-50
	362T125-43-50	7'-9"	8'-1"	8'-6"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-43-50
	362T125-54-50	9'-5"	9'-11"	10'-4"	10'-10"	11'-3"	11'-8"	12'-0"	362T125-54-50
	362T125-68-50	11'-5"	12'-0"	12'-6"	13'-1"	13'-7"	14'-1"	14'-6"	362T125-68-50
	362T125-97-50	13'-10"	14'-7"	15'-3"	15'-10"	16'-6"	17'-1"	17'-8"	362T125-97-50

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TABLE 4.7.4.236: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.60 Weight 4200 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	3'-3"	3'-5"	3'-7"	3'-9"	3'-11"	4'-1"	4'-2"	362T125-33-50
	362T125-43-50	4'-3"	4'-6"	4'-8"	4'-11"	5'-1"	5'-3"	5'-6"	362T125-43-50
	362T125-54-50	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	362T125-54-50
	362T125-68-50	6'-4"	6'-8"	7'-0"	7'-4"	7'-7"	7'-11"	8'-2"	362T125-68-50
	362T125-97-50	7'-9"	8'-2"	8'-7"	8'-11"	9'-3"	9'-8"	9'-11"	362T125-97-50
0.9	362T125-33-50	3'-5"	3'-7"	3'-9"	3'-11"	4'-1"	4'-3"	4'-4"	362T125-33-50
	362T125-43-50	4'-5"	4'-8"	4'-11"	5'-1"	5'-4"	5'-6"	5'-8"	362T125-43-50
	362T125-54-50	5'-5"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	362T125-54-50
	362T125-68-50	6'-7"	6'-11"	7'-3"	7'-7"	7'-11"	8'-2"	8'-6"	362T125-68-50
	362T125-97-50	8'-1"	8'-6"	8'-11"	9'-3"	9'-8"	10'-0"	10'-4"	362T125-97-50
0.8	362T125-33-50	3'-6"	3'-9"	3'-11"	4'-1"	4'-3"	4'-5"	4'-7"	362T125-33-50
	362T125-43-50	4'-7"	4'-10"	5'-1"	5'-4"	5'-6"	5'-9"	5'-11"	362T125-43-50
	362T125-54-50	5'-8"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	7'-3"	362T125-54-50
	362T125-68-50	6'-10"	7'-3"	7'-7"	7'-11"	8'-2"	8'-6"	8'-10"	362T125-68-50
	362T125-97-50	8'-5"	8'-10"	9'-3"	9'-8"	10'-0"	10'-5"	10'-9"	362T125-97-50
0.7	362T125-33-50	3'-8"	3'-11"	4'-1"	4'-3"	4'-5"	4'-7"	4'-9"	362T125-33-50
	362T125-43-50	4'-10"	5'-1"	5'-4"	5'-6"	5'-9"	6'-0"	6'-2"	362T125-43-50
	362T125-54-50	5'-11"	6'-3"	6'-6"	6'-10"	7'-1"	7'-4"	7'-7"	362T125-54-50
	362T125-68-50	7'-2"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-2"	362T125-68-50
	362T125-97-50	8'-9"	9'-3"	9'-8"	10'-1"	10'-5"	10'-10"	11'-2"	362T125-97-50
0.6	362T125-33-50	3'-11"	4'-1"	4'-3"	4'-6"	4'-8"	4'-10"	5'-0"	362T125-33-50
	362T125-43-50	5'-1"	5'-4"	5'-7"	5'-10"	6'-0"	6'-3"	6'-6"	362T125-43-50
	362T125-54-50	6'-3"	6'-6"	6'-10"	7'-2"	7'-5"	7'-8"	7'-11"	362T125-54-50
	362T125-68-50	7'-6"	7'-11"	8'-3"	8'-8"	9'-0"	9'-4"	9'-7"	362T125-68-50
	362T125-97-50	9'-2"	9'-8"	10'-1"	10'-6"	10'-11"	11'-4"	11'-9"	362T125-97-50
0.5	362T125-33-50	4'-1"	4'-4"	4'-6"	4'-9"	4'-11"	5'-1"	5'-3"	362T125-33-50
	362T125-43-50	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	362T125-43-50
	362T125-54-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-10"	8'-1"	8'-4"	362T125-54-50
	362T125-68-50	7'-11"	8'-4"	8'-8"	9'-1"	9'-5"	9'-9"	10'-1"	362T125-68-50
	362T125-97-50	9'-8"	10'-2"	10'-7"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-97-50
0.4	362T125-33-50	4'-4"	4'-7"	4'-10"	5'-0"	5'-2"	5'-5"	5'-7"	362T125-33-50
	362T125-43-50	5'-8"	5'-11"	6'-2"	6'-6"	6'-9"	7'-0"	7'-3"	362T125-43-50
	362T125-54-50	6'-11"	7'-3"	7'-7"	7'-11"	8'-3"	8'-7"	8'-10"	362T125-54-50
	362T125-68-50	8'-4"	8'-10"	9'-2"	9'-7"	10'-0"	10'-4"	10'-8"	362T125-68-50
	362T125-97-50	10'-2"	10'-9"	11'-3"	11'-8"	12'-2"	12'-7"	13'-0"	362T125-97-50
0.3	362T125-33-50	4'-8"	4'-11"	5'-1"	5'-4"	5'-7"	5'-9"	6'-0"	362T125-33-50
	362T125-43-50	6'-0"	6'-4"	6'-7"	6'-11"	7'-2"	7'-5"	7'-8"	362T125-43-50
	362T125-54-50	7'-4"	7'-9"	8'-1"	8'-5"	8'-9"	9'-1"	9'-5"	362T125-54-50
	362T125-68-50	8'-11"	9'-4"	9'-10"	10'-3"	10'-7"	11'-0"	11'-4"	362T125-68-50
	362T125-97-50	10'-10"	11'-5"	11'-11"	12'-5"	12'-11"	13'-5"	13'-10"	362T125-97-50
0.2	362T125-33-50	5'-0"	5'-3"	5'-6"	5'-9"	6'-0"	6'-2"	6'-5"	362T125-33-50
	362T125-43-50	6'-5"	6'-9"	7'-1"	7'-5"	7'-8"	8'-0"	8'-3"	362T125-43-50
	362T125-54-50	7'-11"	8'-4"	8'-8"	9'-1"	9'-5"	9'-9"	10'-1"	362T125-54-50
	362T125-68-50	9'-7"	10'-0"	10'-6"	10'-11"	11'-5"	11'-10"	12'-2"	362T125-68-50
	362T125-97-50	11'-8"	12'-3"	12'-10"	13'-4"	13'-10"	14'-4"	14'-10"	362T125-97-50
0.1	362T125-33-50	5'-5"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	6'-11"	362T125-33-50
	362T125-43-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	8'-11"	362T125-43-50
	362T125-54-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-3"	10'-7"	10'-11"	362T125-54-50
	362T125-68-50	10'-4"	10'-11"	11'-5"	11'-10"	12'-4"	12'-9"	13'-3"	362T125-68-50
	362T125-97-50	12'-7"	13'-3"	13'-10"	14'-5"	15'-0"	15'-7"	16'-1"	362T125-97-50
0.0	362T125-33-50	5'-10"	6'-2"	6'-5"	6'-8"	7'-0"	7'-3"	7'-6"	362T125-33-50
	362T125-43-50	7'-6"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	9'-7"	362T125-43-50
	362T125-54-50	9'-2"	9'-8"	10'-1"	10'-6"	10'-11"	11'-4"	11'-9"	362T125-54-50
	362T125-68-50	11'-1"	11'-8"	12'-3"	12'-9"	13'-3"	13'-8"	14'-2"	362T125-68-50
	362T125-97-50	13'-6"	14'-2"	14'-10"	15'-6"	16'-1"	16'-8"	17'-3"	362T125-97-50

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TABLE 4.7.4.237: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.60 Weight 4400 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	3'-11"	4'-1"	362T125-33-50
	362T125-43-50	4'-2"	4'-4"	4'-7"	4'-9"	5'-0"	5'-2"	5'-4"	362T125-43-50
	362T125-54-50	5'-1"	5'-5"	5'-8"	5'-11"	6'-1"	6'-4"	6'-7"	362T125-54-50
	362T125-68-50	6'-2"	6'-6"	6'-10"	7'-2"	7'-5"	7'-8"	7'-11"	362T125-68-50
	362T125-97-50	7'-7"	8'-0"	8'-4"	8'-9"	9'-1"	9'-5"	9'-9"	362T125-97-50
0.9	362T125-33-50	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-1"	4'-3"	362T125-33-50
	362T125-43-50	4'-4"	4'-6"	4'-9"	5'-0"	5'-2"	5'-4"	5'-6"	362T125-43-50
	362T125-54-50	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	362T125-54-50
	362T125-68-50	6'-5"	6'-9"	7'-1"	7'-5"	7'-8"	8'-0"	8'-3"	362T125-68-50
	362T125-97-50	7'-10"	8'-3"	8'-8"	9'-0"	9'-5"	9'-9"	10'-1"	362T125-97-50
0.8	362T125-33-50	3'-5"	3'-8"	3'-10"	4'-0"	4'-2"	4'-3"	4'-5"	362T125-33-50
	362T125-43-50	4'-6"	4'-9"	4'-11"	5'-2"	5'-5"	5'-7"	5'-9"	362T125-43-50
	362T125-54-50	5'-6"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	362T125-54-50
	362T125-68-50	6'-8"	7'-1"	7'-5"	7'-8"	8'-0"	8'-4"	8'-7"	362T125-68-50
	362T125-97-50	8'-2"	8'-7"	9'-0"	9'-5"	9'-9"	10'-2"	10'-6"	362T125-97-50
0.7	362T125-33-50	3'-7"	3'-10"	4'-0"	4'-2"	4'-4"	4'-6"	4'-8"	362T125-33-50
	362T125-43-50	4'-8"	4'-11"	5'-2"	5'-5"	5'-7"	5'-10"	6'-0"	362T125-43-50
	362T125-54-50	5'-9"	6'-1"	6'-4"	6'-8"	6'-11"	7'-2"	7'-5"	362T125-54-50
	362T125-68-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	9'-0"	362T125-68-50
	362T125-97-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-2"	10'-7"	10'-11"	362T125-97-50
0.6	362T125-33-50	3'-9"	4'-0"	4'-2"	4'-4"	4'-6"	4'-9"	4'-11"	362T125-33-50
	362T125-43-50	4'-11"	5'-2"	5'-5"	5'-8"	5'-11"	6'-1"	6'-4"	362T125-43-50
	362T125-54-50	6'-1"	6'-4"	6'-8"	6'-11"	7'-3"	7'-6"	7'-9"	362T125-54-50
	362T125-68-50	7'-4"	7'-9"	8'-1"	8'-5"	8'-9"	9'-1"	9'-5"	362T125-68-50
	362T125-97-50	8'-11"	9'-5"	9'-10"	10'-3"	10'-8"	11'-1"	11'-5"	362T125-97-50
0.5	362T125-33-50	4'-0"	4'-2"	4'-5"	4'-7"	4'-9"	5'-0"	5'-2"	362T125-33-50
	362T125-43-50	5'-2"	5'-5"	5'-9"	6'-0"	6'-2"	6'-5"	6'-8"	362T125-43-50
	362T125-54-50	6'-5"	6'-8"	7'-0"	7'-4"	7'-7"	7'-11"	8'-2"	362T125-54-50
	362T125-68-50	7'-9"	8'-1"	8'-6"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-68-50
	362T125-97-50	9'-5"	9'-11"	10'-4"	10'-10"	11'-3"	11'-8"	12'-0"	362T125-97-50
0.4	362T125-33-50	4'-3"	4'-6"	4'-8"	4'-11"	5'-1"	5'-3"	5'-5"	362T125-33-50
	362T125-43-50	5'-6"	5'-9"	6'-1"	6'-4"	6'-7"	6'-10"	7'-0"	362T125-43-50
	362T125-54-50	6'-9"	7'-1"	7'-5"	7'-9"	8'-1"	8'-4"	8'-8"	362T125-54-50
	362T125-68-50	8'-2"	8'-7"	9'-0"	9'-4"	9'-9"	10'-1"	10'-5"	362T125-68-50
	362T125-97-50	9'-11"	10'-6"	10'-11"	11'-5"	11'-10"	12'-4"	12'-9"	362T125-97-50
0.3	362T125-33-50	4'-6"	4'-9"	5'-0"	5'-2"	5'-5"	5'-7"	5'-10"	362T125-33-50
	362T125-43-50	5'-10"	6'-2"	6'-5"	6'-9"	7'-0"	7'-3"	7'-6"	362T125-43-50
	362T125-54-50	7'-2"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-2"	362T125-54-50
	362T125-68-50	8'-8"	9'-2"	9'-7"	10'-0"	10'-4"	10'-9"	11'-1"	362T125-68-50
	362T125-97-50	10'-7"	11'-2"	11'-8"	12'-2"	12'-7"	13'-1"	13'-6"	362T125-97-50
0.2	362T125-33-50	4'-10"	5'-1"	5'-4"	5'-7"	5'-10"	6'-0"	6'-3"	362T125-33-50
	362T125-43-50	6'-3"	6'-7"	6'-11"	7'-3"	7'-6"	7'-9"	8'-1"	362T125-43-50
	362T125-54-50	7'-9"	8'-1"	8'-6"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-54-50
	362T125-68-50	9'-4"	9'-10"	10'-3"	10'-8"	11'-1"	11'-6"	11'-11"	362T125-68-50
	362T125-97-50	11'-4"	11'-11"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"	362T125-97-50
0.1	362T125-33-50	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-7"	6'-9"	362T125-33-50
	362T125-43-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-2"	8'-5"	8'-9"	362T125-43-50
	362T125-54-50	8'-4"	8'-10"	9'-2"	9'-7"	10'-0"	10'-4"	10'-8"	362T125-54-50
	362T125-68-50	10'-1"	10'-7"	11'-1"	11'-7"	12'-0"	12'-6"	12'-11"	362T125-68-50
	362T125-97-50	12'-4"	12'-11"	13'-6"	14'-1"	14'-8"	15'-2"	15'-8"	362T125-97-50
0.0	362T125-33-50	5'-8"	6'-0"	6'-3"	6'-6"	6'-10"	7'-1"	7'-3"	362T125-33-50
	362T125-43-50	7'-4"	7'-8"	8'-1"	8'-5"	8'-9"	9'-1"	9'-4"	362T125-43-50
	362T125-54-50	9'-0"	9'-5"	9'-10"	10'-3"	10'-8"	11'-1"	11'-5"	362T125-54-50
	362T125-68-50	10'-10"	11'-5"	11'-11"	12'-5"	12'-11"	13'-4"	13'-10"	362T125-68-50
	362T125-97-50	13'-2"	13'-10"	14'-6"	15'-1"	15'-8"	16'-3"	16'-10"	362T125-97-50

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TABLE 4.7.4.238: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.60 Weight 4600 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	3'-1"	3'-3"	3'-5"	3'-7"	3'-9"	3'-10"	4'-0"	362T125-33-50
	362T125-43-50	4'-1"	4'-3"	4'-6"	4'-8"	4'-10"	5'-0"	5'-2"	362T125-43-50
	362T125-54-50	5'-0"	5'-3"	5'-6"	5'-9"	6'-0"	6'-2"	6'-5"	362T125-54-50
	362T125-68-50	6'-1"	6'-4"	6'-8"	6'-11"	7'-3"	7'-6"	7'-9"	362T125-68-50
	362T125-97-50	7'-5"	7'-9"	8'-2"	8'-6"	8'-10"	9'-2"	9'-6"	362T125-97-50
0.9	362T125-33-50	3'-3"	3'-5"	3'-7"	3'-9"	3'-10"	4'-0"	4'-2"	362T125-33-50
	362T125-43-50	4'-2"	4'-5"	4'-8"	4'-10"	5'-0"	5'-3"	5'-5"	362T125-43-50
	362T125-54-50	5'-2"	5'-5"	5'-9"	6'-0"	6'-2"	6'-5"	6'-8"	362T125-54-50
	362T125-68-50	6'-3"	6'-7"	6'-11"	7'-3"	7'-6"	7'-9"	8'-1"	362T125-68-50
	362T125-97-50	7'-8"	8'-1"	8'-6"	8'-10"	9'-2"	9'-6"	9'-10"	362T125-97-50
0.8	362T125-33-50	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-2"	4'-4"	362T125-33-50
	362T125-43-50	4'-5"	4'-7"	4'-10"	5'-1"	5'-3"	5'-5"	5'-8"	362T125-43-50
	362T125-54-50	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	6'-8"	6'-11"	362T125-54-50
	362T125-68-50	6'-6"	6'-11"	7'-2"	7'-6"	7'-10"	8'-1"	8'-5"	362T125-68-50
	362T125-97-50	8'-0"	8'-5"	8'-10"	9'-2"	9'-7"	9'-11"	10'-3"	362T125-97-50
0.7	362T125-33-50	3'-6"	3'-8"	3'-11"	4'-1"	4'-3"	4'-5"	4'-6"	362T125-33-50
	362T125-43-50	4'-7"	4'-10"	5'-1"	5'-3"	5'-6"	5'-8"	5'-11"	362T125-43-50
	362T125-54-50	5'-8"	5'-11"	6'-3"	6'-6"	6'-9"	7'-0"	7'-3"	362T125-54-50
	362T125-68-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-2"	8'-5"	8'-9"	362T125-68-50
	362T125-97-50	8'-4"	8'-9"	9'-2"	9'-7"	10'-0"	10'-4"	10'-8"	362T125-97-50
0.6	362T125-33-50	3'-8"	3'-11"	4'-1"	4'-3"	4'-5"	4'-7"	4'-9"	362T125-33-50
	362T125-43-50	4'-10"	5'-1"	5'-4"	5'-6"	5'-9"	6'-0"	6'-2"	362T125-43-50
	362T125-54-50	5'-11"	6'-3"	6'-6"	6'-10"	7'-1"	7'-4"	7'-7"	362T125-54-50
	362T125-68-50	7'-2"	7'-6"	7'-11"	8'-3"	8'-7"	8'-10"	9'-2"	362T125-68-50
	362T125-97-50	8'-9"	9'-2"	9'-7"	10'-0"	10'-5"	10'-10"	11'-2"	362T125-97-50
0.5	362T125-33-50	3'-11"	4'-1"	4'-4"	4'-6"	4'-8"	4'-10"	5'-0"	362T125-33-50
	362T125-43-50	5'-1"	5'-4"	5'-7"	5'-10"	6'-1"	6'-3"	6'-6"	362T125-43-50
	362T125-54-50	6'-3"	6'-7"	6'-10"	7'-2"	7'-5"	7'-8"	8'-0"	362T125-54-50
	362T125-68-50	7'-6"	7'-11"	8'-3"	8'-8"	9'-0"	9'-4"	9'-8"	362T125-68-50
	362T125-97-50	9'-2"	9'-8"	10'-1"	10'-7"	11'-0"	11'-4"	11'-9"	362T125-97-50
0.4	362T125-33-50	4'-2"	4'-4"	4'-7"	4'-9"	4'-11"	5'-2"	5'-4"	362T125-33-50
	362T125-43-50	5'-4"	5'-8"	5'-11"	6'-2"	6'-5"	6'-8"	6'-10"	362T125-43-50
	362T125-54-50	6'-7"	6'-11"	7'-3"	7'-7"	7'-10"	8'-2"	8'-5"	362T125-54-50
	362T125-68-50	8'-0"	8'-5"	8'-9"	9'-2"	9'-6"	9'-10"	10'-2"	362T125-68-50
	362T125-97-50	9'-9"	10'-3"	10'-8"	11'-2"	11'-7"	12'-0"	12'-5"	362T125-97-50
0.3	362T125-33-50	4'-5"	4'-8"	4'-10"	5'-1"	5'-3"	5'-6"	5'-8"	362T125-33-50
	362T125-43-50	5'-9"	6'-0"	6'-4"	6'-7"	6'-10"	7'-1"	7'-4"	362T125-43-50
	362T125-54-50	7'-0"	7'-5"	7'-9"	8'-1"	8'-4"	8'-8"	9'-0"	362T125-54-50
	362T125-68-50	8'-6"	8'-11"	9'-4"	9'-9"	10'-1"	10'-6"	10'-10"	362T125-68-50
	362T125-97-50	10'-4"	10'-10"	11'-5"	11'-10"	12'-4"	12'-9"	13'-2"	362T125-97-50
0.2	362T125-33-50	4'-9"	5'-0"	5'-3"	5'-6"	5'-8"	5'-11"	6'-1"	362T125-33-50
	362T125-43-50	6'-2"	6'-6"	6'-9"	7'-1"	7'-4"	7'-7"	7'-10"	362T125-43-50
	362T125-54-50	7'-6"	7'-11"	8'-3"	8'-8"	9'-0"	9'-4"	9'-8"	362T125-54-50
	362T125-68-50	9'-1"	9'-7"	10'-0"	10'-5"	10'-10"	11'-3"	11'-8"	362T125-68-50
	362T125-97-50	11'-1"	11'-8"	12'-2"	12'-9"	13'-3"	13'-8"	14'-2"	362T125-97-50
0.1	362T125-33-50	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	6'-8"	362T125-33-50
	362T125-43-50	6'-8"	7'-0"	7'-4"	7'-8"	7'-11"	8'-3"	8'-6"	362T125-43-50
	362T125-54-50	8'-2"	8'-7"	9'-0"	9'-4"	9'-9"	10'-1"	10'-5"	362T125-54-50
	362T125-68-50	9'-11"	10'-5"	10'-10"	11'-4"	11'-9"	12'-2"	12'-7"	362T125-68-50
	362T125-97-50	12'-0"	12'-8"	13'-3"	13'-9"	14'-4"	14'-10"	15'-4"	362T125-97-50
0.0	362T125-33-50	5'-7"	5'-10"	6'-1"	6'-5"	6'-8"	6'-11"	7'-1"	362T125-33-50
	362T125-43-50	7'-2"	7'-6"	7'-11"	8'-3"	8'-6"	8'-10"	9'-2"	362T125-43-50
	362T125-54-50	8'-9"	9'-3"	9'-8"	10'-1"	10'-5"	10'-10"	11'-2"	362T125-54-50
	362T125-68-50	10'-7"	11'-2"	11'-8"	12'-2"	12'-7"	13'-1"	13'-6"	362T125-68-50
	362T125-97-50	12'-11"	13'-7"	14'-2"	14'-9"	15'-4"	15'-11"	16'-5"	362T125-97-50

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TABLE 4.7.4.239: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.60 Weight 4800 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	3'-0"	3'-2"	3'-4"	3'-6"	3'-7"	3'-9"	3'-11"	362T125-33-50
	362T125-43-50	3'-11"	4'-2"	4'-4"	4'-7"	4'-9"	4'-11"	5'-1"	362T125-43-50
	362T125-54-50	4'-11"	5'-2"	5'-5"	5'-7"	5'-10"	6'-1"	6'-3"	362T125-54-50
	362T125-68-50	5'-11"	6'-3"	6'-6"	6'-10"	7'-1"	7'-4"	7'-7"	362T125-68-50
	362T125-97-50	7'-3"	7'-7"	8'-0"	8'-4"	8'-8"	9'-0"	9'-3"	362T125-97-50
0.9	362T125-33-50	3'-2"	3'-4"	3'-6"	3'-7"	3'-9"	3'-11"	4'-1"	362T125-33-50
	362T125-43-50	4'-1"	4'-4"	4'-6"	4'-9"	4'-11"	5'-1"	5'-3"	362T125-43-50
	362T125-54-50	5'-1"	5'-4"	5'-7"	5'-10"	6'-1"	6'-3"	6'-6"	362T125-54-50
	362T125-68-50	6'-2"	6'-6"	6'-9"	7'-1"	7'-4"	7'-7"	7'-10"	362T125-68-50
	362T125-97-50	7'-6"	7'-11"	8'-3"	8'-8"	9'-0"	9'-4"	9'-7"	362T125-97-50
0.8	362T125-33-50	3'-3"	3'-5"	3'-7"	3'-9"	3'-11"	4'-1"	4'-3"	362T125-33-50
	362T125-43-50	4'-3"	4'-6"	4'-9"	4'-11"	5'-1"	5'-4"	5'-6"	362T125-43-50
	362T125-54-50	5'-3"	5'-7"	5'-10"	6'-1"	6'-4"	6'-7"	6'-9"	362T125-54-50
	362T125-68-50	6'-5"	6'-9"	7'-0"	7'-4"	7'-8"	7'-11"	8'-2"	362T125-68-50
	362T125-97-50	7'-10"	8'-3"	8'-7"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-97-50
0.7	362T125-33-50	3'-5"	3'-7"	3'-9"	3'-11"	4'-1"	4'-3"	4'-5"	362T125-33-50
	362T125-43-50	4'-6"	4'-9"	4'-11"	5'-2"	5'-4"	5'-7"	5'-9"	362T125-43-50
	362T125-54-50	5'-6"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	7'-1"	362T125-54-50
	362T125-68-50	6'-8"	7'-0"	7'-4"	7'-8"	8'-0"	8'-3"	8'-7"	362T125-68-50
	362T125-97-50	8'-2"	8'-7"	9'-0"	9'-4"	9'-9"	10'-1"	10'-5"	362T125-97-50
0.6	362T125-33-50	3'-7"	3'-10"	4'-0"	4'-2"	4'-4"	4'-6"	4'-8"	362T125-33-50
	362T125-43-50	4'-8"	4'-11"	5'-2"	5'-5"	5'-7"	5'-10"	6'-0"	362T125-43-50
	362T125-54-50	5'-9"	6'-1"	6'-4"	6'-8"	6'-11"	7'-2"	7'-5"	362T125-54-50
	362T125-68-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	9'-0"	362T125-68-50
	362T125-97-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-2"	10'-7"	10'-11"	362T125-97-50
0.5	362T125-33-50	3'-10"	4'-0"	4'-2"	4'-5"	4'-7"	4'-9"	4'-11"	362T125-33-50
	362T125-43-50	4'-11"	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-4"	362T125-43-50
	362T125-54-50	6'-1"	6'-5"	6'-8"	7'-0"	7'-3"	7'-6"	7'-9"	362T125-54-50
	362T125-68-50	7'-4"	7'-9"	8'-1"	8'-5"	8'-9"	9'-1"	9'-5"	362T125-68-50
	362T125-97-50	9'-0"	9'-5"	9'-11"	10'-4"	10'-9"	11'-1"	11'-6"	362T125-97-50
0.4	362T125-33-50	4'-0"	4'-3"	4'-5"	4'-8"	4'-10"	5'-0"	5'-2"	362T125-33-50
	362T125-43-50	5'-3"	5'-6"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	362T125-43-50
	362T125-54-50	6'-5"	6'-9"	7'-1"	7'-5"	7'-8"	8'-0"	8'-3"	362T125-54-50
	362T125-68-50	7'-9"	8'-2"	8'-7"	8'-11"	9'-4"	9'-8"	10'-0"	362T125-68-50
	362T125-97-50	9'-6"	10'-0"	10'-6"	10'-11"	11'-4"	11'-9"	12'-2"	362T125-97-50
0.3	362T125-33-50	4'-4"	4'-6"	4'-9"	5'-0"	5'-2"	5'-4"	5'-6"	362T125-33-50
	362T125-43-50	5'-7"	5'-11"	6'-2"	6'-5"	6'-8"	6'-11"	7'-2"	362T125-43-50
	362T125-54-50	6'-10"	7'-3"	7'-7"	7'-10"	8'-2"	8'-6"	8'-9"	362T125-54-50
	362T125-68-50	8'-4"	8'-9"	9'-2"	9'-6"	9'-11"	10'-3"	10'-7"	362T125-68-50
	362T125-97-50	10'-1"	10'-8"	11'-2"	11'-7"	12'-1"	12'-6"	12'-11"	362T125-97-50
0.2	362T125-33-50	4'-8"	4'-11"	5'-1"	5'-4"	5'-7"	5'-9"	6'-0"	362T125-33-50
	362T125-43-50	6'-0"	6'-4"	6'-7"	6'-11"	7'-2"	7'-5"	7'-8"	362T125-43-50
	362T125-54-50	7'-4"	7'-9"	8'-1"	8'-5"	8'-9"	9'-1"	9'-5"	362T125-54-50
	362T125-68-50	8'-11"	9'-4"	9'-10"	10'-3"	10'-7"	11'-0"	11'-4"	362T125-68-50
	362T125-97-50	10'-10"	11'-5"	11'-11"	12'-5"	12'-11"	13'-5"	13'-10"	362T125-97-50
0.1	362T125-33-50	5'-1"	5'-4"	5'-7"	5'-10"	6'-0"	6'-3"	6'-6"	362T125-33-50
	362T125-43-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-9"	8'-1"	8'-4"	362T125-43-50
	362T125-54-50	8'-0"	8'-5"	8'-9"	9'-2"	9'-6"	9'-10"	10'-2"	362T125-54-50
	362T125-68-50	9'-8"	10'-2"	10'-7"	11'-1"	11'-6"	11'-11"	12'-4"	362T125-68-50
	362T125-97-50	11'-9"	12'-4"	12'-11"	13'-6"	14'-0"	14'-6"	15'-0"	362T125-97-50
0.0	362T125-33-50	5'-5"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	6'-11"	362T125-33-50
	362T125-43-50	7'-0"	7'-4"	7'-8"	8'-0"	8'-4"	8'-8"	8'-11"	362T125-43-50
	362T125-54-50	8'-7"	9'-0"	9'-5"	9'-10"	10'-3"	10'-7"	10'-11"	362T125-54-50
	362T125-68-50	10'-4"	10'-11"	11'-5"	11'-10"	12'-4"	12'-9"	13'-3"	362T125-68-50
	362T125-97-50	12'-7"	13'-3"	13'-10"	14'-5"	15'-0"	15'-7"	16'-1"	362T125-97-50

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TABLE 4.7.4.240: MAXIMUM UNBRACED TOP TRACK LENGTH

PARAMETERS: Type S3 (Ip = 1.5) S_{DS} 1.60 Weight 5000 lbs

** Value indicates the maximum unbraced top track length (ft) for the provided parameters and track section.*

Note: *If the unbraced track length in the table is less than the pod width, additional brace points will need to be added along the pod width track.*

Height in Bldg (z/h)	Track Section	Pod Width 5.00 ft	5.50 ft	6.00 ft	6.50 ft	7.00 ft	7.50 ft	8.00 ft	Track Section
1.0	362T125-33-50	2'-11"	3'-1"	3'-3"	3'-5"	3'-6"	3'-8"	3'-10"	362T125-33-50
	362T125-43-50	3'-10"	4'-1"	4'-3"	4'-5"	4'-8"	4'-10"	5'-0"	362T125-43-50
	362T125-54-50	4'-9"	5'-0"	5'-3"	5'-6"	5'-8"	5'-11"	6'-2"	362T125-54-50
	362T125-68-50	5'-9"	6'-1"	6'-4"	6'-8"	6'-11"	7'-2"	7'-5"	362T125-68-50
	362T125-97-50	7'-1"	7'-5"	7'-10"	8'-2"	8'-6"	8'-9"	9'-1"	362T125-97-50
0.9	362T125-33-50	3'-1"	3'-3"	3'-5"	3'-6"	3'-8"	3'-10"	4'-0"	362T125-33-50
	362T125-43-50	4'-0"	4'-3"	4'-5"	4'-7"	4'-10"	5'-0"	5'-2"	362T125-43-50
	362T125-54-50	4'-11"	5'-3"	5'-6"	5'-8"	5'-11"	6'-2"	6'-4"	362T125-54-50
	362T125-68-50	6'-0"	6'-4"	6'-7"	6'-11"	7'-2"	7'-5"	7'-8"	362T125-68-50
	362T125-97-50	7'-4"	7'-9"	8'-1"	8'-5"	8'-9"	9'-1"	9'-5"	362T125-97-50
0.8	362T125-33-50	3'-2"	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-2"	362T125-33-50
	362T125-43-50	4'-2"	4'-5"	4'-7"	4'-10"	5'-0"	5'-2"	5'-5"	362T125-43-50
	362T125-54-50	5'-2"	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	6'-7"	362T125-54-50
	362T125-68-50	6'-3"	6'-7"	6'-11"	7'-2"	7'-6"	7'-9"	8'-0"	362T125-68-50
	362T125-97-50	7'-8"	8'-1"	8'-5"	8'-9"	9'-2"	9'-6"	9'-10"	362T125-97-50
0.7	362T125-33-50	3'-4"	3'-6"	3'-8"	3'-10"	4'-0"	4'-2"	4'-4"	362T125-33-50
	362T125-43-50	4'-4"	4'-7"	4'-10"	5'-0"	5'-3"	5'-5"	5'-7"	362T125-43-50
	362T125-54-50	5'-5"	5'-8"	5'-11"	6'-2"	6'-5"	6'-8"	6'-11"	362T125-54-50
	362T125-68-50	6'-6"	6'-10"	7'-2"	7'-6"	7'-10"	8'-1"	8'-4"	362T125-68-50
	362T125-97-50	8'-0"	8'-5"	8'-9"	9'-2"	9'-6"	9'-11"	10'-3"	362T125-97-50
0.6	362T125-33-50	3'-6"	3'-9"	3'-11"	4'-1"	4'-3"	4'-5"	4'-6"	362T125-33-50
	362T125-43-50	4'-7"	4'-10"	5'-1"	5'-3"	5'-6"	5'-8"	5'-11"	362T125-43-50
	362T125-54-50	5'-8"	5'-11"	6'-3"	6'-6"	6'-9"	7'-0"	7'-3"	362T125-54-50
	362T125-68-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-2"	8'-6"	8'-9"	362T125-68-50
	362T125-97-50	8'-4"	8'-10"	9'-2"	9'-7"	10'-0"	10'-4"	10'-8"	362T125-97-50
0.5	362T125-33-50	3'-9"	3'-11"	4'-1"	4'-3"	4'-6"	4'-8"	4'-9"	362T125-33-50
	362T125-43-50	4'-10"	5'-1"	5'-4"	5'-7"	5'-9"	6'-0"	6'-2"	362T125-43-50
	362T125-54-50	5'-11"	6'-3"	6'-7"	6'-10"	7'-1"	7'-4"	7'-7"	362T125-54-50
	362T125-68-50	7'-2"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	362T125-68-50
	362T125-97-50	8'-10"	9'-3"	9'-8"	10'-1"	10'-6"	10'-11"	11'-3"	362T125-97-50
0.4	362T125-33-50	3'-11"	4'-2"	4'-4"	4'-7"	4'-9"	4'-11"	5'-1"	362T125-33-50
	362T125-43-50	5'-1"	5'-5"	5'-8"	5'-11"	6'-2"	6'-4"	6'-7"	362T125-43-50
	362T125-54-50	6'-4"	6'-7"	6'-11"	7'-3"	7'-6"	7'-10"	8'-1"	362T125-54-50
	362T125-68-50	7'-7"	8'-0"	8'-5"	8'-9"	9'-1"	9'-5"	9'-9"	362T125-68-50
	362T125-97-50	9'-4"	9'-9"	10'-3"	10'-8"	11'-1"	11'-6"	11'-11"	362T125-97-50
0.3	362T125-33-50	4'-3"	4'-5"	4'-8"	4'-10"	5'-1"	5'-3"	5'-5"	362T125-33-50
	362T125-43-50	5'-6"	5'-9"	6'-0"	6'-3"	6'-6"	6'-9"	7'-0"	362T125-43-50
	362T125-54-50	6'-9"	7'-1"	7'-5"	7'-8"	8'-0"	8'-4"	8'-7"	362T125-54-50
	362T125-68-50	8'-1"	8'-6"	8'-11"	9'-4"	9'-8"	10'-0"	10'-5"	362T125-68-50
	362T125-97-50	9'-11"	10'-5"	10'-11"	11'-4"	11'-10"	12'-3"	12'-8"	362T125-97-50
0.2	362T125-33-50	4'-6"	4'-9"	5'-0"	5'-3"	5'-5"	5'-8"	5'-10"	362T125-33-50
	362T125-43-50	5'-10"	6'-2"	6'-6"	6'-9"	7'-0"	7'-3"	7'-6"	362T125-43-50
	362T125-54-50	7'-2"	7'-7"	7'-11"	8'-3"	8'-7"	8'-11"	9'-3"	362T125-54-50
	362T125-68-50	8'-9"	9'-2"	9'-7"	10'-0"	10'-5"	10'-9"	11'-2"	362T125-68-50
	362T125-97-50	10'-7"	11'-2"	11'-8"	12'-2"	12'-8"	13'-1"	13'-7"	362T125-97-50
0.1	362T125-33-50	4'-11"	5'-2"	5'-5"	5'-8"	5'-11"	6'-1"	6'-4"	362T125-33-50
	362T125-43-50	6'-5"	6'-8"	7'-0"	7'-4"	7'-7"	7'-11"	8'-2"	362T125-43-50
	362T125-54-50	7'-10"	8'-3"	8'-7"	9'-0"	9'-4"	9'-8"	10'-0"	362T125-54-50
	362T125-68-50	9'-5"	9'-11"	10'-5"	10'-10"	11'-3"	11'-8"	12'-1"	362T125-68-50
	362T125-97-50	11'-6"	12'-1"	12'-8"	13'-2"	13'-9"	14'-2"	14'-8"	362T125-97-50
0.0	362T125-33-50	5'-4"	5'-7"	5'-10"	6'-1"	6'-4"	6'-7"	6'-10"	362T125-33-50
	362T125-43-50	6'-10"	7'-2"	7'-6"	7'-10"	8'-2"	8'-6"	8'-9"	362T125-43-50
	362T125-54-50	8'-5"	8'-10"	9'-3"	9'-7"	10'-0"	10'-4"	10'-9"	362T125-54-50
	362T125-68-50	10'-2"	10'-8"	11'-2"	11'-7"	12'-1"	12'-6"	12'-11"	362T125-68-50
	362T125-97-50	12'-4"	13'-0"	13'-7"	14'-2"	14'-8"	15'-3"	15'-9"	362T125-97-50

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Section 5

STRUCTURAL DETAILS

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BY Alireza Asgari
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CALIFORNIA BUILDING CODE, 2019

5.1 INTRODUCTION

Purpose: Pods shall be fabricated and installed in accordance with the General Notes and Typical Details referenced in this section of the manual. Please note the following:

- Each section below shall be construed as “requirements for design” and all elements noted shall be incorporated into the design of the Pod.
- The organization of this section mirrors Section 4 of this manual, to facilitate movement back and forth between Section 4 and this section. For example, if you are working in Section 4.3 and want to see Shear Wall details, locate the figures in Section 5.3.
- The details in this section apply to the fabrication of SurePods in a SurePods manufacturing facility. These details are intended to provide for a code-compliant design once installed. Additional measures such as framing, bracing and lifting provisions may be needed to ship and/or install the Pod may be needed but are not included in this manual.

5.2 GENERAL POD FABRICATION

General Notes:	Pods shall be fabricated and installed in accordance with the General Notes; See Figures 5.2.0.1, 5.2.0.2, 5.2.0.3 and 5.2.0.4.
Floor Details:	Pods shall be built on a steel floor plate, See Figure 5.2.1.
Design:	Vertical wall framing shall comply to the requirements of Section 4.2.2.
Framing Elevation:	Wall framing shall comply with “Typical Wall Framing Elevation”, see Figure 5.2.2.1.
Stud-to-Track:	Connect each stud to the top and bottom track using Figure 5.2.2.2.
Stud Intersections:	Studs and Chords shall be interconnected at all intersections, see Figure 5.2.2.3.
Openings in Walls:	Framing around doorway openings shall comply with Figure 5.2.2.4.
Bridging:	Where Bridging is required (see Section 4.2.2 & Table 4.2.2), comply with Figure 5.2.2.5.

5.3 GROSS SHEAR WALL REQUIREMENTS

Design:	Designated shear walls shall comply with the Structural Design Requirements of Section 4.3.
Framing Elevation:	Shear wall framing shall comply with Figure 5.3.1.

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5.4 DETAILED SHEAR WALL REQUIREMENTS

Design: Designated shear walls shall comply with the Structural Design Requirements of Section 4.4.

Chord Details: Chord members shall comply with Figure 5.4.1a and 5.4.1b.

Bracing Details: The connection of Flat-Strap braces to Gussets, and the connection of Gussets-to-Chord and Gussets-to-Track shall comply with Figures 5.4.2a, 5.4.2b and 5.4.2c.

Pre-Tension: Shear wall braces shall be pre-tensioned to remove all slack. This can be accomplished in a number of ways, one of which is suggested in Figure 5.4.3.

Strap-to-Stud: Shear wall braces shall be attached to wall studs in accordance with Figure 5.4.4. Note: It is imperative that only one screw per stud be used to connect straps to wall studs. Any additional screws will weaken the strap and result in a premature rupture of the strap.

5.5 POD SHEAR ANCHORAGE REQUIREMENTS

Design: All walls shall be fastened to the steel plate per Section 4.5.1 and Table 4.5.1 and said fastening shall comply with Figure 5.5.1.

Shear Walls: All shear walls shall be fastened to the steel floor plate per Section 4.5.2 and Table 4.5.2. Figure 5.5.1 also applies to shear walls.

Shear Anchorage: When installed in a building, all pods shall be anchored to the floor structure per Section 4.5.3 and Table 4.5.3. Resinous and non-resinous setting mortars shall comply with the requirements listed in the general notes. See Figures 5.2.0.1, 5.2.0.2, 5.2.0.3 and 5.2.0.4.

Type S3 Pods: Type S3 pods shall be anchored to the building floor deck using mechanical anchors, in accordance with Section 4.5.4, which specifies the size and spacing of required shear anchors. Shear anchors shall be installed in accordance with Figure 5.5.2.

5.6 POD OVERTURNING ANCHORAGE REQUIREMENTS

Design: Pods shall be anchored to the floor structure to prevent uplift in accordance with the requirements of Section 4.6. If, in the process of working through Section 4.6 it is determined that uplift anchorage is not required, the remainder of this section may be skipped.

Hold-Down Devices: Attach “Required Hold Down Devices” to shear wall “chords” per Figures 5.6.1 or 5.6.2, using the screw size and quantity recommended by the manufacturer as posted in the ICC-ESR product approval.

Snubber Devices: Where over-head snubber devices are to be used, comply with Figures 5.6.4.1, 5.6.4.2 and 5.6.4.3.

Through Bolts: Where through-bolts are to be used, comply with Figure 5.6.5.1.

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5.7 CEILING & DIAPHRAGM FRAMING

Rafter Design: Rafters for ceiling framing shall comply with the requirements of Section 4.7.1, Table 4.7.1 and Figure 5.7.1.

Diaphragm Design: Ceiling diaphragms shall comply with the requirements of Section 4.7.2, 4.7.3, 4.7.4 and 4.7.5.

Framing Layout: Ceiling rafter and diaphragm framing shall comply with Figure 5.7.2.1.

Track Intersections: Where top tracks meet at corners and T-intersections, they shall be interconnected in accordance with detail 5.7.2.2. This requirement does not apply to bottom tracks.

Track Splicing: There should never be a reason to splice top track elements between changes of direction, therefore splices between top track members are not permitted.

Diaphragm Bracing: The sizing and connection requirements for ceiling diaphragm braces shall be in accordance with the requirements of Section 4.7.3, and shall comply with Figure 5.7.3.1, Figure 5.7.3.2, and Figure 5.7.3.3.

5.8 NEXT STEPS

Turn to Section 6 for instructions on how to prepare a submittal for permit approval when using this manual.

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HCAi
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE, 2019

GENERAL NOTES – COLD FORMED METAL FRAMING:

1. COLD-FORMED METAL FRAMING: THE DESIGN, INSTALLATION AND CONSTRUCTION OF COLD-FORMED FRAMING SHALL BE IN ACCORDANCE WITH AISI S100-16 “NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS”; AISI S202-15 “CODE OF STANDARD PRACTICE FOR COLD FORMED STEEL STRUCTURAL FRAMING”; AISI S220-15 “NORTH AMERICAN STANDARD FOR COLD FORMED STEEL FRAMING” AND AISI S400-15/S1-16 “NORTH AMERICAN STANDARD FOR SEISMIC DESIGN OF COLD FORMED STEEL STRUCTURAL SYSTEMS”. ALL PRODUCTS SHALL BE MANUFACTURED BY CURRENT MEMBERS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) PER ICC ES REPORT ESR-03064P. PROVIDE ALL ACCESSORIES INCLUDING BUT NOT LIMITED TO TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION AND AS RECOMMENDED BY THE MANUFACTURER FOR THE MEMBERS AND DEVICES USED.

2. WEB PUNCHOUTS: TRACK SECTION SHALL NOT HAVE ANY WEB PUNCHOUTS. WALL STUDS AND CHORDS MAY HAVE WEB PUNCHOUTS ONLY AS FOLLOWS: FOR 1-5/8” STUDS, WEB PUNCHOUTS ARE PERMITTED FOR ANY 33-MIL STUD, AND FOR 43-MIL STUDS FOR CEILING HEIGHTS 8’-0” OR LESS. FOR 3-5/8” STUDS, WEB PUNCHOUTS ARE PERMITTED FOR ALL GAGES AND CEILING HEIGHTS. WEB PUNCHOUTS, WHEN USED, SHALL COMPLY WITH SSMA STANDARDS, USING ¾”X4” AT 24”O.C. MINIMUM SPACING FOR 1-5/8” STUDS AND 1-1/2”X4” AT 24” O.C. MINIMUM SPACING FOR 3-5/8” STUDS.

3. CORROSION PROTECTION: ALL STEEL MEMBERS AND COMPONENTS SHALL BE PROTECTED FROM CORROSION. COLD-FORMED AND SHEET METALS SHALL COMPLY WITH ASTM C955 PARAGRAPH 4.4: “MEMBERS SHALL HAVE A PROTECTIVE COATING IN ACCORDANCE WITH TABLE 1, CP 60 MINIMUM.”

4. COLD-FORMED TRACK AND STUD: SHEET STEEL SHALL CONFORM TO ASTM C955 AND ASTM A653 SS, WITH MEMBERS 18GA & LIGHTER CONFORMING TO GRADE 33 AND WITH MEMBERS 16GA AND HEAVIER CONFIRMING TO GRADE 50, CLASS I UNLESS NOTED OTHERWISE. DIMENSIONS OF TRACK AND STUD MEMBERS SHALL BE AS DEFINED USING SSMA STANDARD NOMENCLATURE AND AS DEFINED ON THESE DRAWINGS.

5. FLAT-STRAP BRACING & GUSSETS: **DO NOT USE GRADE 33 SHEET METAL FOR THESE ELEMENTS.** SHEET STEEL SHALL CONFORM TO ASTM A653 GRADE 50 CLASS I. FLAT STRAP SHALL BE PROVIDED IN FACTORY-CUT WIDTHS WITH NO NOTCHES ALONG THE EDGES AND NO HOLES WHAT-SO-EVER EXCEPT AT SCREWED CONNECTION LOCATIONS. DO NOT USE MATERIAL WITH BENDS OR CREASES DUE TO ACCIDENTAL BENDING

ICC-ES Report ESR-3099 Issued: 03/21/2022 Dr. Alireza Asgari

GENERAL NOTES – COLD FORMED METAL FRAMING:

1. SHEET METAL SCREWS: ALL SCREWS SHALL CONFORM TO ASTM C1513 AND SHALL HAVE A CORROSION RESISTANT COATING. SIZES AND TYPES OF SCREWS SHALL CONFORM TO THE SCHEDULES AND DETAILS HEREIN, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS AND THE FOLLOWING: SCREW LENGTH AND DRILL POINTS SHALL BE SELECTED SO THAT SCREW THREADS SHALL TAP INTO AND SHALL ENGAGE THE ENTIRE THICKNESS OF ALL PIECES TO BE JOINED AND NOT LESS THAN THREE COMPLETE THREADS SHALL PENETRATE BEYOND THE METAL JOINED. SELF DRILLING SCREWS SHALL BE SELECTED SO THAT THE DRILL POINT COMPLETES DRILLING THRU ALL PLIES BEFORE THE LEAD THREADS BEGIN ENGAGING METAL. WHERE THESE DRAWINGS CALL FOR A SCREW SIZE THAT DOES NOT HAVE A DRILL POINT OF SUFFICIENT LENGTH, INCREASE THE SCREW SIZE TO COMPLY WITH THESE REQUIREMENTS. PRE-DRILLED HOLE DIAMETERS SHALL NOT EXCEED THE DIAMETER OF THE DRILL POINT FOR SPECIFIED SCREW. SCREW SPACING AND EDGE DISTANCE SHALL NOT BE LESS THAN 3 TIMES THE NOMINAL SCREW DIAMETER.

2. SHEET METAL SCREW SPECIFICATIONS: SHEET METAL SCREWS CALLED FOR ON THESE DRAWINGS SHALL CONFORM TO THE FOLLOWING:
   a. SCREWS DENOTED AS "#8 SMS" SHALL BE #8-15 (WITH DRILL POINT #2) WITH MODIFIED TRUSS HEAD (PMTH) , SENCO PART NUMBER 08M050CT RFSP, PER ICC ESR-3558.
   b. SCREWS DENOTED AS "#10 SMS" SHALL BE #10-16 (WITH DRILL POINT #2) WITH PAN HEAD (SPFH), SENCO PART NUMBER 10M075CTMFDS, PER ICC ESR-3558
   c. SCREWS DENTOED AS "#12 SMS" SHALL BE #12-18 (WITH DRILL POINT #4), SENCO PART NUMBER 12M087YKFF4X PER ICC ESR-3558.

3. WELDING OF COLD-FORMED STEEL: WELDING OF STRUCTURAL ELEMENTS IS NOT PERMITTED.

4. HOLD-DOWN DEVICES: WITH THE EXCEPTION TO THE DTT-1Z (SEE BELOW) HOLD-DOWN DEVICES CALLED FOR ARE TO BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY PER IAMPO EVALUATION REPORT ES-124. FASTENERS TO METAL FRAMING SHALL BE IN ACCORDANCE WITH THE PRODUCT APPROVAL EVALUATION REPORT. DTT-1Z DEVICES SHALL BE AS MANUFACTURED BY SIMPSON STONG-TIE COMPANY PER ICC-2330 AND SHALL BE ATTACHED TO METAL FRAMING USING 6-#10 SMS.

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NOT TO BE USED FOR CONSTRUCTION

GENERAL NOTES – MISCELLANEOUS:

1. SILL FASTENERS: ASTM A307A, ASTM A307B OR ASME GRADE 2 BOLTS. LOW PROFILE HEADS MAY BE USED.

2. SCREW ANCHORS: HILTI KH-EZ CARBON STEEL SCREW ANCHORS. ANCHORS SHALL THE REQUIREMENTS OF AND SHALL BE INSTALLED IN ACCORDANCE WITH ICC ESR-3027.

3. EXPANSION ANCHORS: HILTI KB-TZ2 EXPANSION ANCHORS. ANCHORS SHALL THE REQUIREMENTS OF AND SHALL BE INSTALLED IN ACCORDANCE WITH ICC ESR-4266.

4. RESIN ANCHORS: ASTM F1554 GRADE 36 ALL-THREAD ONLY, TO BE SET IN HILTI HIT RE 500 V3 RESIN. ANCHORS SHALL THE REQUIREMENTS OF AND SHALL BE INSTALLED IN ACCORDANCE WITH ICC ESR-3814.

5. RESINOUS SETTING MORTAR: NOT APPLICABLE FOR S3 PODS.

6. NONRESINOUS SETTING MORTAR: LATICRETE 254. SURFACES SHALL BE PREPARED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

7. STANDARD ABBREVIATIONS: THESE DRAWINGS USE THE FOLLOWING ABBREVIATIONS:
   "EA" DENOTES "EACH"
   "HSS" DENOTES HOLLOW STRUCTURAL SHAPE
   "MAX" DENOTES "MAXIMUM"
   "MIN" DENOTES "MINIMUM"
   "O.C." DENOTES "ON CENTER"
   "SMS" DENOTES "SHEET METAL SCREW"
   "TYP" DENOTES "TYPICAL

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STRUCTURAL BASIS OF DESIGN:

1. GOVERNING BUILDING CODE: THE POD STRUCTURAL DESIGN SHALL MEET THE REQUIRMENTS OF THE 2019 CALIFORNIA BUILDING CODE (CBC) AND THE REQUIREMENTS OF ASCE 7-16.

2. LIVE LOADS: THESE PODS ARE NOT DESIGNED TO SUPPORT THE WEIGHT OF ANY PERSONS ON THE LID OF THE POD; NO LIVE LOADS ARE USED. WALL AND CEILING FRAMING COMPLIES WITH 2019 CBC SECTION 1607.15 MINIMUM DESIGN PRESSURE OF 5 PSF.

3. WIND LOADS: THESE PODS ARE PERMITTED FOR INTERNAL INSTALLATIONS ONLY, NO WIND LOADS.

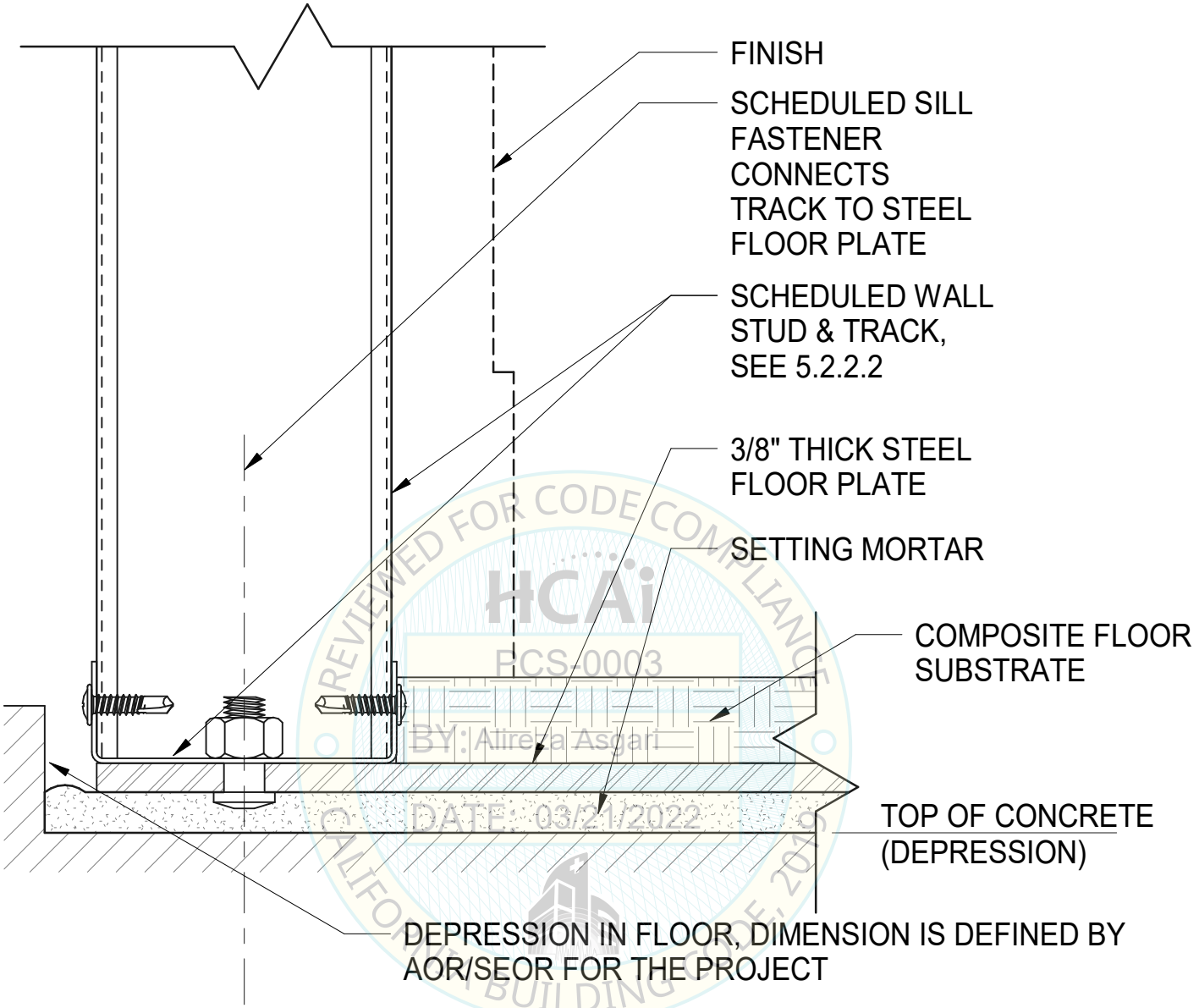
4. SEISMIC LOADS: PODS ARE DESIGNED TO COMPLY WITH THE "SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS OF ASCE 7-16 CHAPTER 13, USING THE FOLLOWING PARAMETERS:

    - SHORT-PERIOD SPECTRAL ACCELERATION, Sds = fill in for this project
    - COMPONENT IMPORTANCE FACTOR, Ip = fill in for this project
    - COMPONENT ACCELERATION FACTOR, ap = 2.5
    - COMPONENT RESPONSE MODIFICATION FACTOR, Rp = 3.5
    - OPERATING WEIGHT OF THIS POD, W = fill in for this project

STRUCTURAL ENGINEER OF RECORD (SEOR):

THESE PODS WILL IMPOSE VERTICAL DEAD LOAD REACTIONS AND SEISMIC OVER-TURNING FORCES ON THE SUPPORTING FLOOR STRUCTURE, AND IT IS THE STRUCTURAL ENGINEER OF RECORD'S (SEOR'S) RESPONSIBILITY TO CONFIRM THAT THE SUPPORTING FLOOR STRUCTURE AND ALL ASSOCIATED MEMBERS AND CONNECTIONS IN THE LOAD PATH CAN SUPPORT THESE LOADS IN ADDITION TO ALL OTHER LOADS IMPOSED ON THE FLOOR STRUCTURE. THE TOTAL OPERATING WEIGHT OF THE POD IS LISTED IN THE "STRUCTURAL BASIS OF DESIGN" PRESENTED ABOVE. THE LOCATION OF DEVICES ANCHORING THE POD TO THE FLOOR STUCTURE ARE SHOWN ON THE "SHEAR WALL KEY PLAN" INCLUDED WITH THIS SUBMITTAL. THE "ANCHORAGE FORCE", DEFINED AS 2.5 TIMES THE LRFD NET UPLIFT PER ASCE7-16 SECTION 12.4.2.3 EQUATION 6 IS fill in for this project

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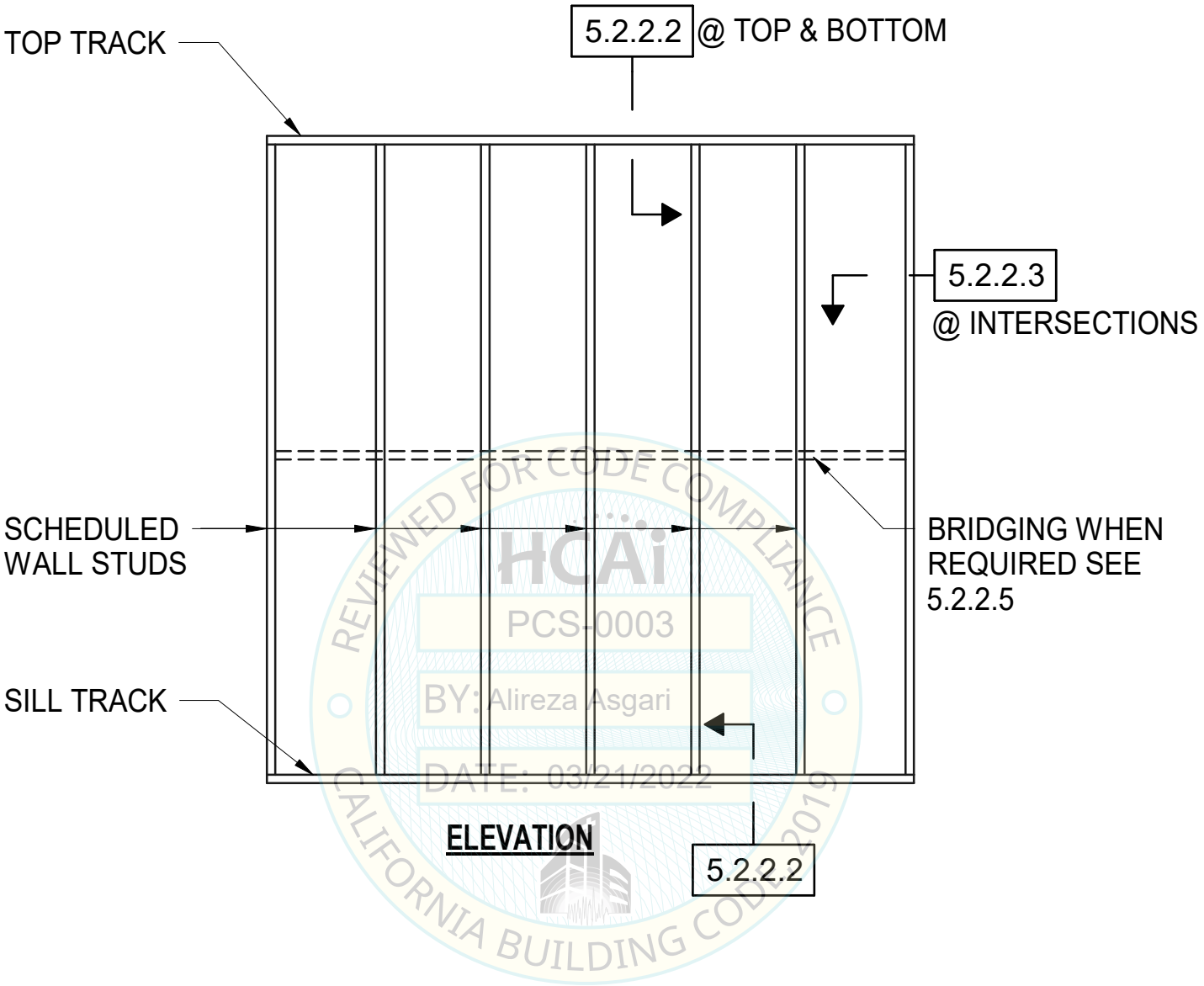
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SCALE 6" = 1'-0"

POD DETAIL SECTION AT FLOOR

FIGURE 5.2.1



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FOR WALLS WITH OPENINGS, SEE 5.2.2.4
FOR SHEAR WALLS, SEE 5.3.1

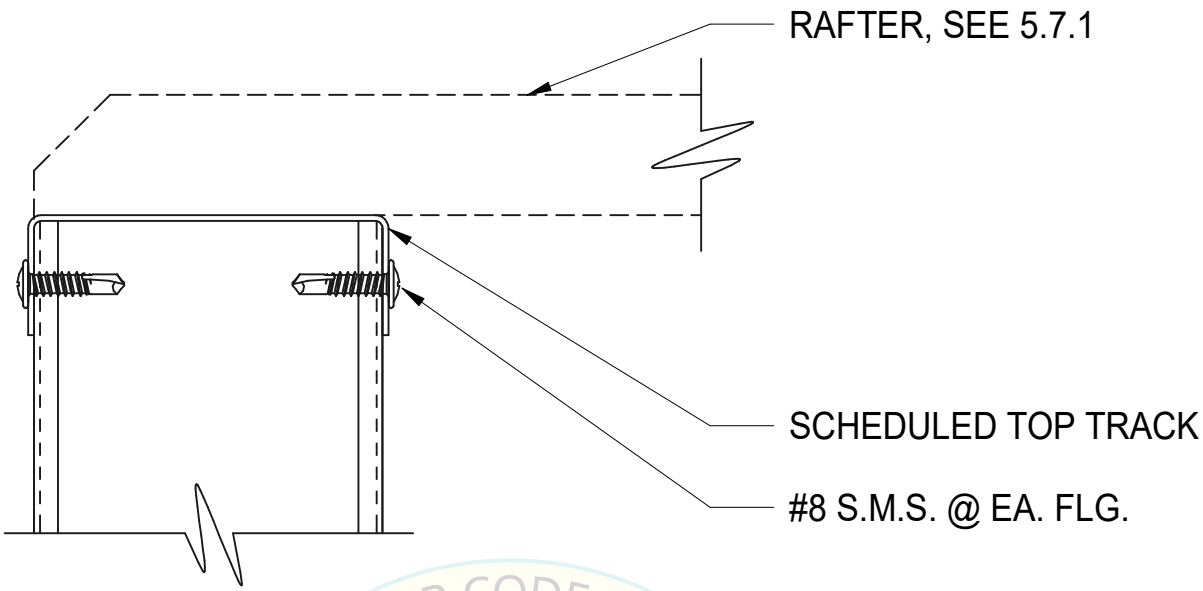
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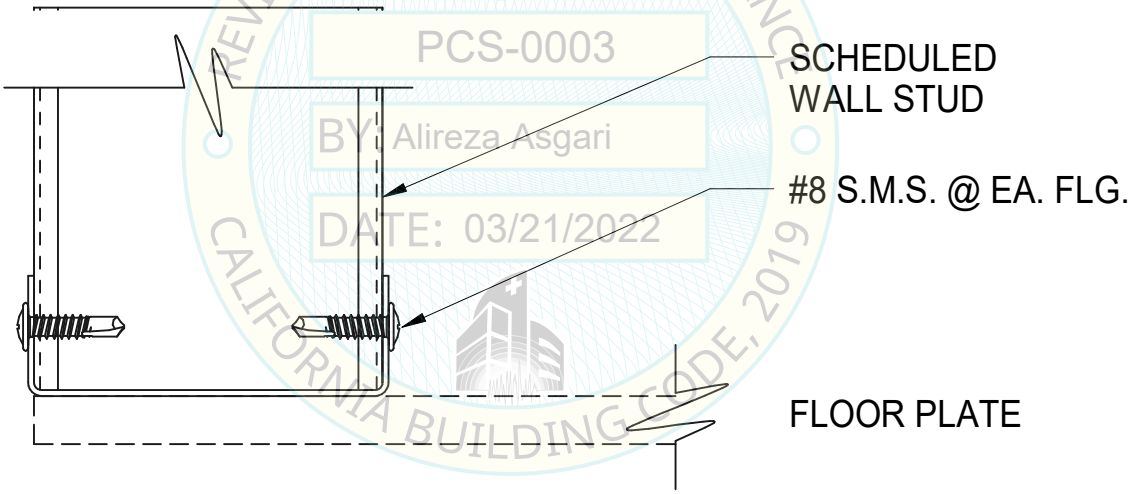
SCALE 1/2" = 1'-0"

TYPICAL WALL FRAMING ELEVATION

FIGURE 5.2.2.1



STUD-TO-TOP TRACK



STUD-TO-SILL TRACK

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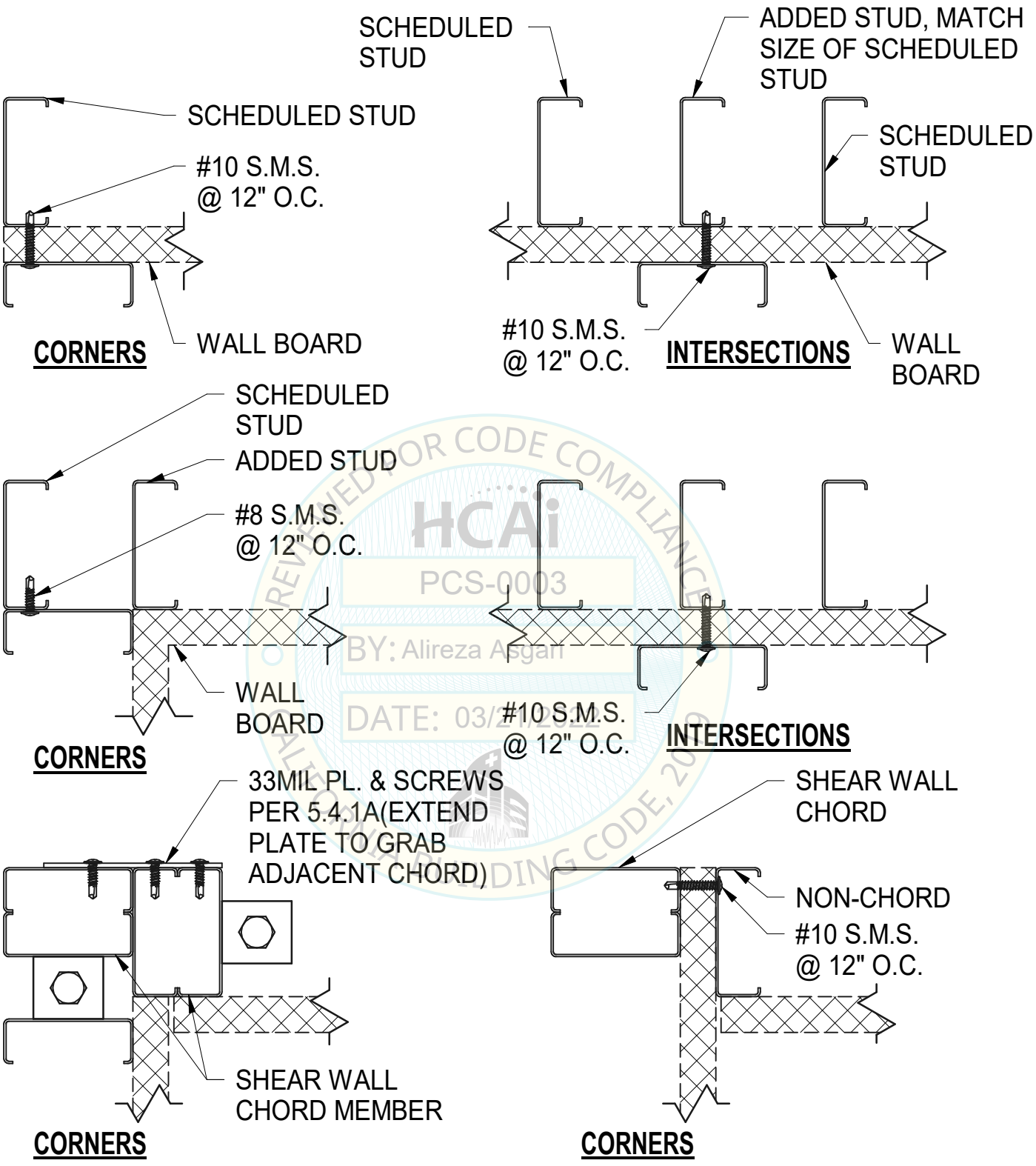
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SCALE 6” = 1’-0”

TYPICAL STUD TO TRACK CONNECTION

FIGURE 5.2.2.2



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ALL WORK SHALL COMPLY WITH 2019 BUILDING CODE

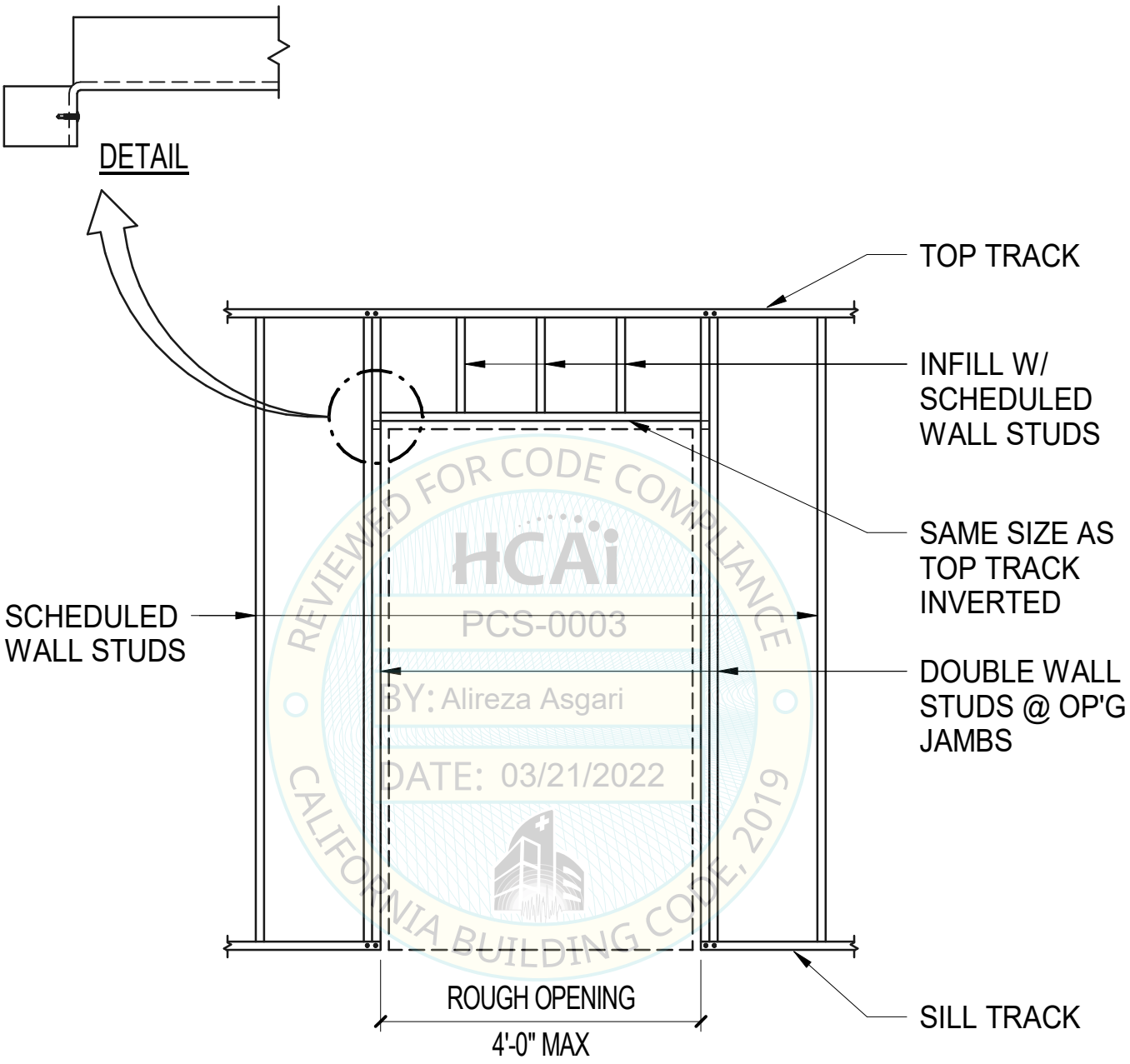
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SCALE 3" = 1'-0"

TYPICAL STUD FRAMING AT INTERSECTIONS

FIGURE 5.2.2.3



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WALL ELEVATION

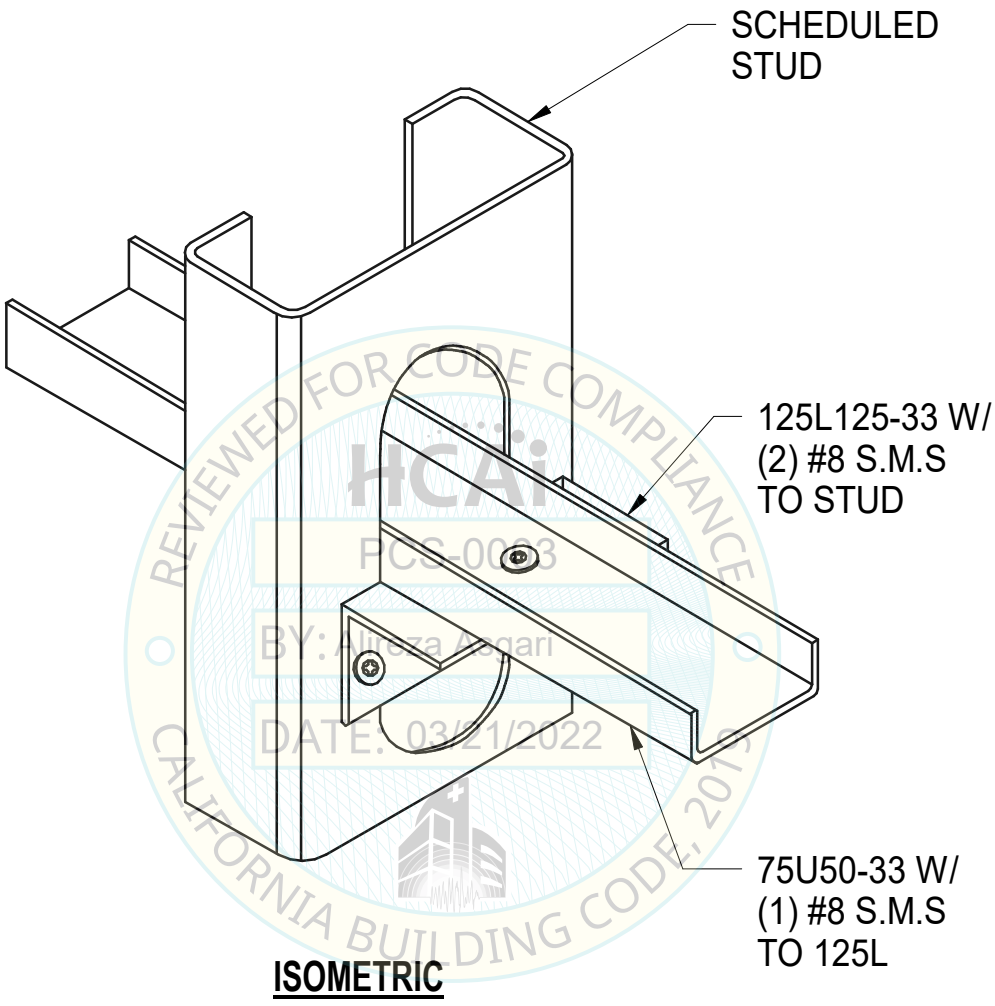
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SCALE 1/2" = 1'-0"

TYPICAL WALL FRAMING AT OPENING

FIGURE 5.2.2.4



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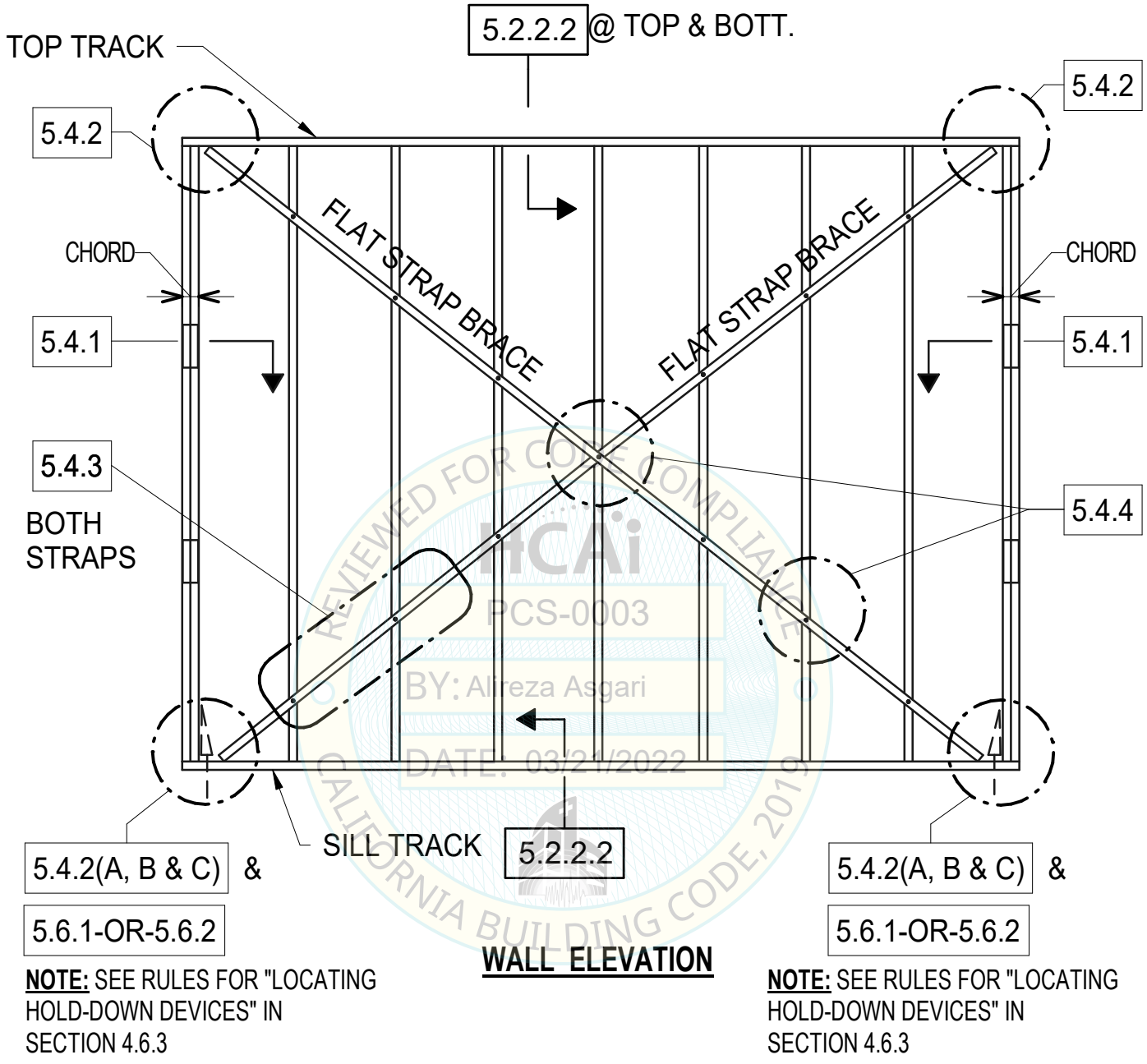
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SCALE 6” = 1’-0”

BRIDGING DETAILS

FIGURE 5.2.2.5



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WALL ELEVATION

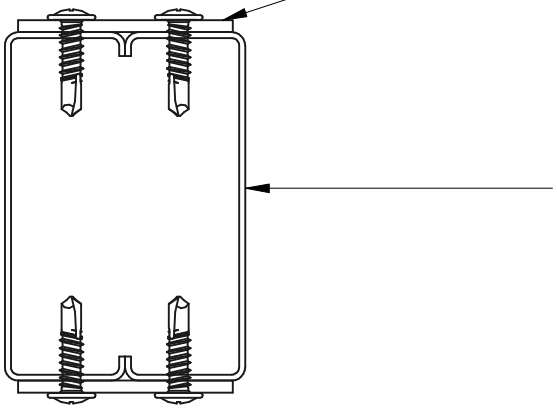
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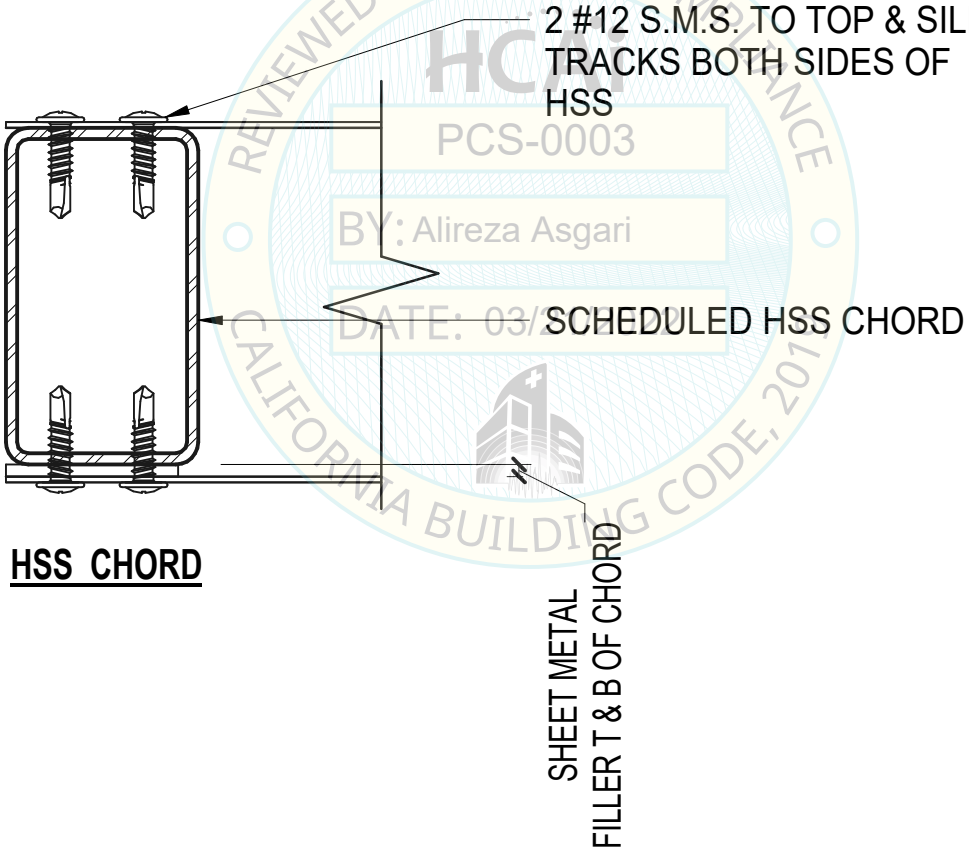
SCALE 1/2" = 1'-0"

SHEAR WALL FRAMING ELEVATION

FIGURE 5.3.1



BOXED CHORD



HSS CHORD

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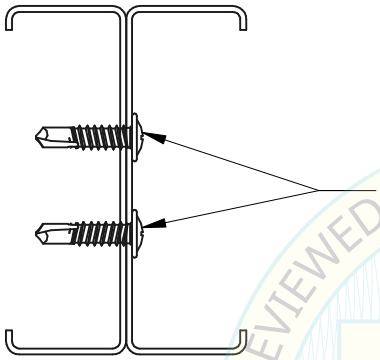
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SCALE 6" = 1'-0"

CHORD DETAILS

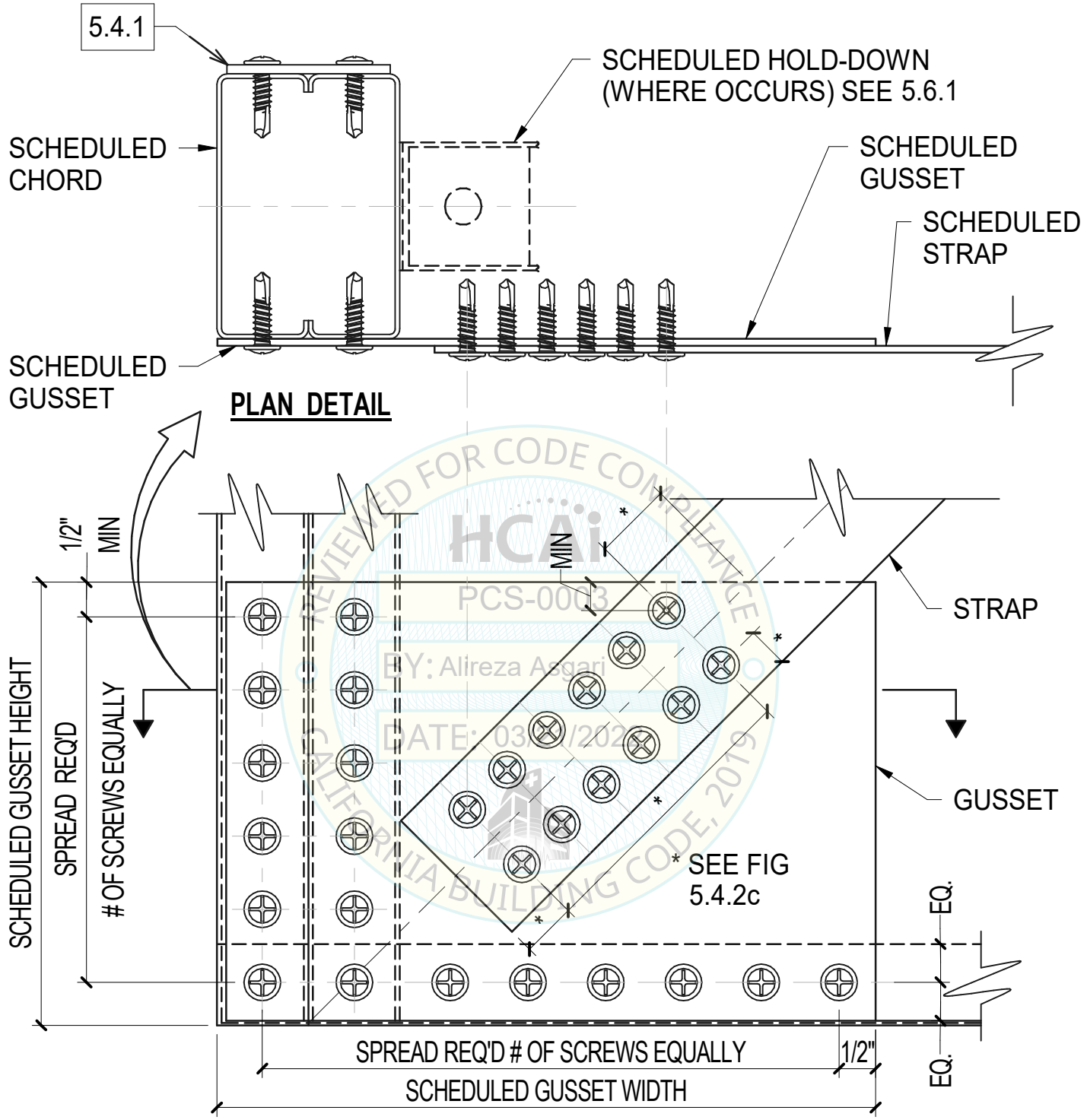
FIGURE 5.4.1A



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BACK-TO-BACK CHORD

NOTE: THIS CONFIGURATION CAN ONLY BE USED - IN LIEU OF BOXED CHORDS - IF ALLOWED BY TABLES 4.4.X.



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SCALE 6" = 1'-0"

FLAT STRAP BRACE CONNECTION

FIGURE 5.4.2A

RULES FOR FLAT STRAP BRACE CONNECTION

1. THE STRAP CENTERLINE SHALL RUN FROM WORK POINTS AT EACH END OF THE BRACE.

2. LOCATE BRACE WORK POINTS AT THE CENTERLINE OF THE CHORD STUD, AT TOP OF TOP TRACK AND AT BOTTOM OF SILL TRACK.

3. CUT THE STRAP SUCH THAT IT DOES NOT OVERLAP EITHER THE CHORD STUD NOR THE TOP OR SILL TRACK.

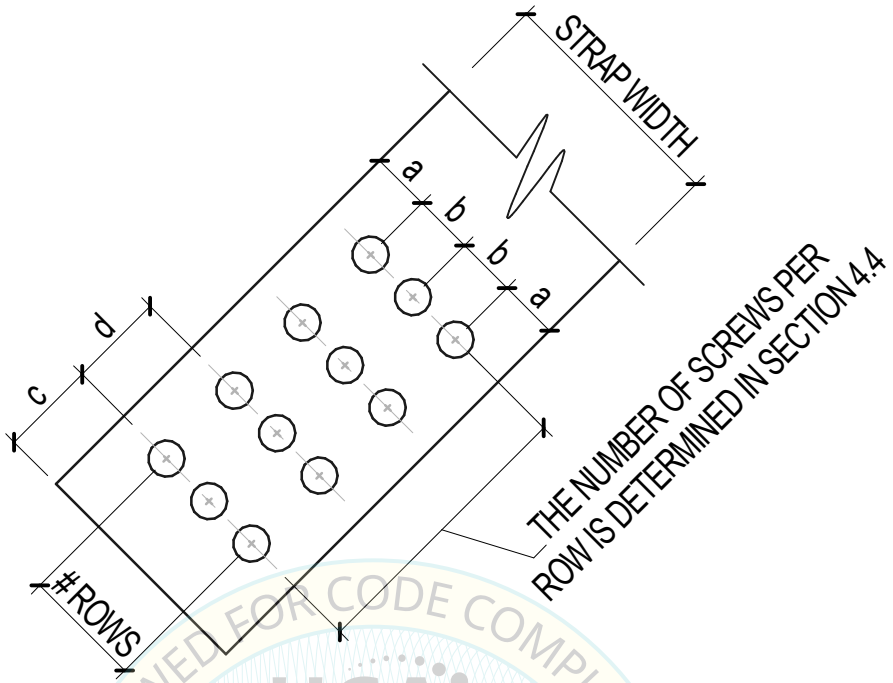
4. LAYOUT SCREWS 1) MINDING THE MINIMUM EDGE DISTANCES SHOWN ON THE DETAIL, 2) WITH UNIFORM SPACING BETWEEN ROWS, 3) ALWAYS PARALLEL TO THE MEMBER (EXCEPT GUSSET) & 4) WITH A MINIMUM SPACING AS SHOWN ON THE DETAIL.

5. INSTALL GUSSETS FIRST, COMPLETING ALL SCREW CONNECTIONS TO THE CHORDS & TRACKS. THEN CONNECT ONE END OF THE FLAT STRAP BRACE TO A GUSSET. THEN TENSION THE STRAP (SEE 5.4.3) BEFORE FASTENING THE OTHER END OF THE STRAP.

6. A SCHEMATIC CARTOON OF THE CONNECTION GEOMETRY & CREW LAYOUT IS PROVIDED IN SECTION 4.4 OF THE MANUAL. USE THIS CARTOON AS A LAYOUT GUIDE.

7. MINIMUM SCREW EDGE DISTANCES & SPACING VARY. FOR STRAP-TO-GUSSET SCREW LAYOUT, COMPLY WITH FIGURE 5.4.2c. FOR GUSSET-TO-CHORD AND FOR GUSSET-TO-TRACK SCREW LAYOUT, COMPLY WITH FIGURE 5.4.2a.

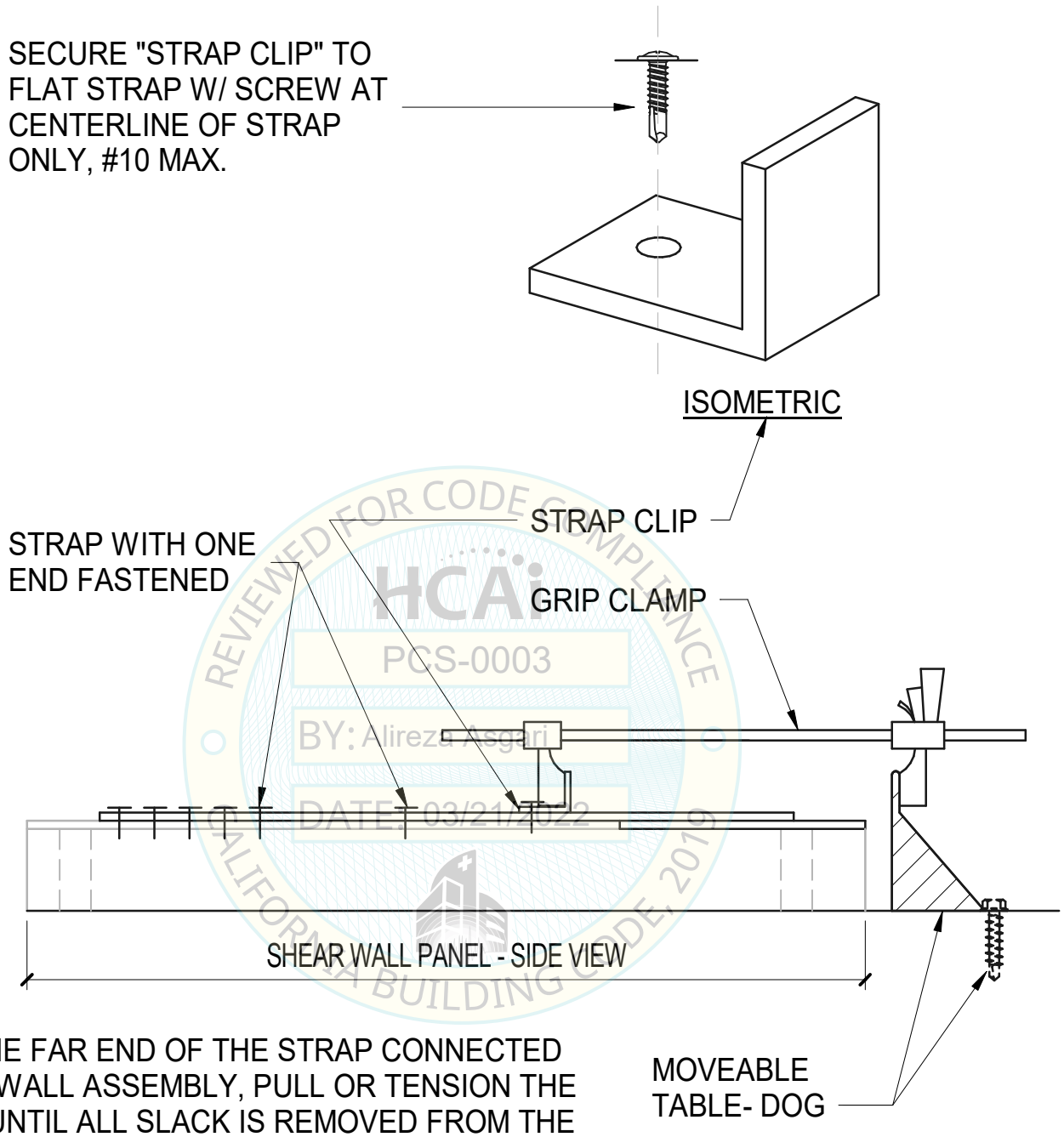
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MINIMUM EDGE DISTANCE & SPACING REQUIREMENTS

STRAP WIDTH	# ROWS	a	b	c	d
1.00"	1	0.5"	n/a	0.75"	0.60"
1.50"	2	0.5"	0.5"	0.75"	0.60"
2.00"	2	0.625"	0.75"	1.00"	0.60"
2.50"	3	0.625"	0.625"	1.00"	1.00"
3.00"	4	0.60"	0.60"	1.00"	1.125"
4.00"	5	0.60"	0.70"	1.00"	1.375"
5.00"	6	0.625"	0.75"	1.125"	1.50"
6.00"	7	0.75"	0.75"	1.00"	1.75"

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WITH THE FAR END OF THE STRAP CONNECTED TO THE WALL ASSEMBLY, PULL OR TENSION THE STRAP UNTIL ALL SLACK IS REMOVED FROM THE FLAT STRAP BRACE BEFORE ATTACHING THE OPPOSITE END TO THE WALL ASSEMBLY.

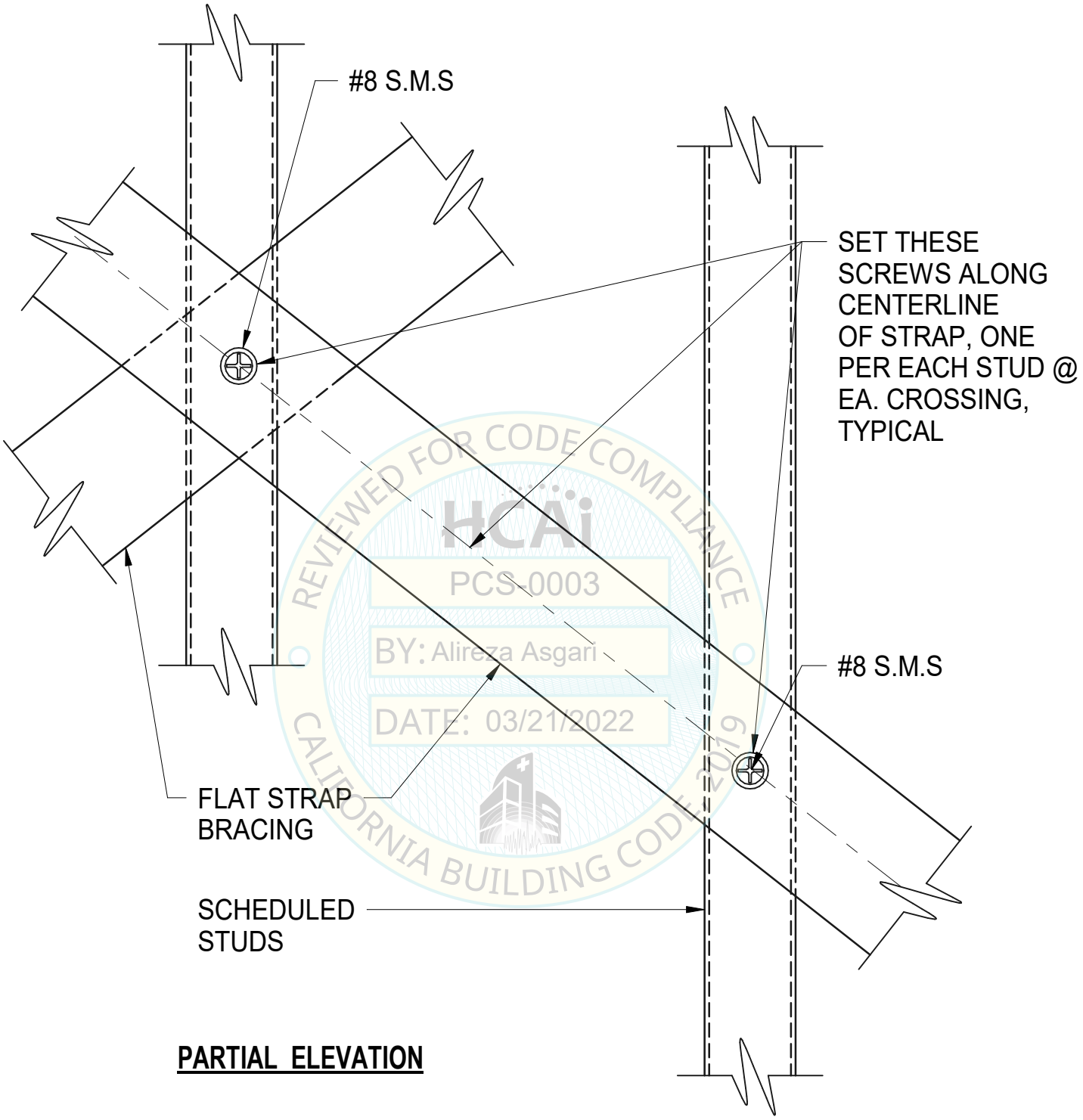
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FLAT STRAP BRACE TENSIONING

FIGURE 5.4.3



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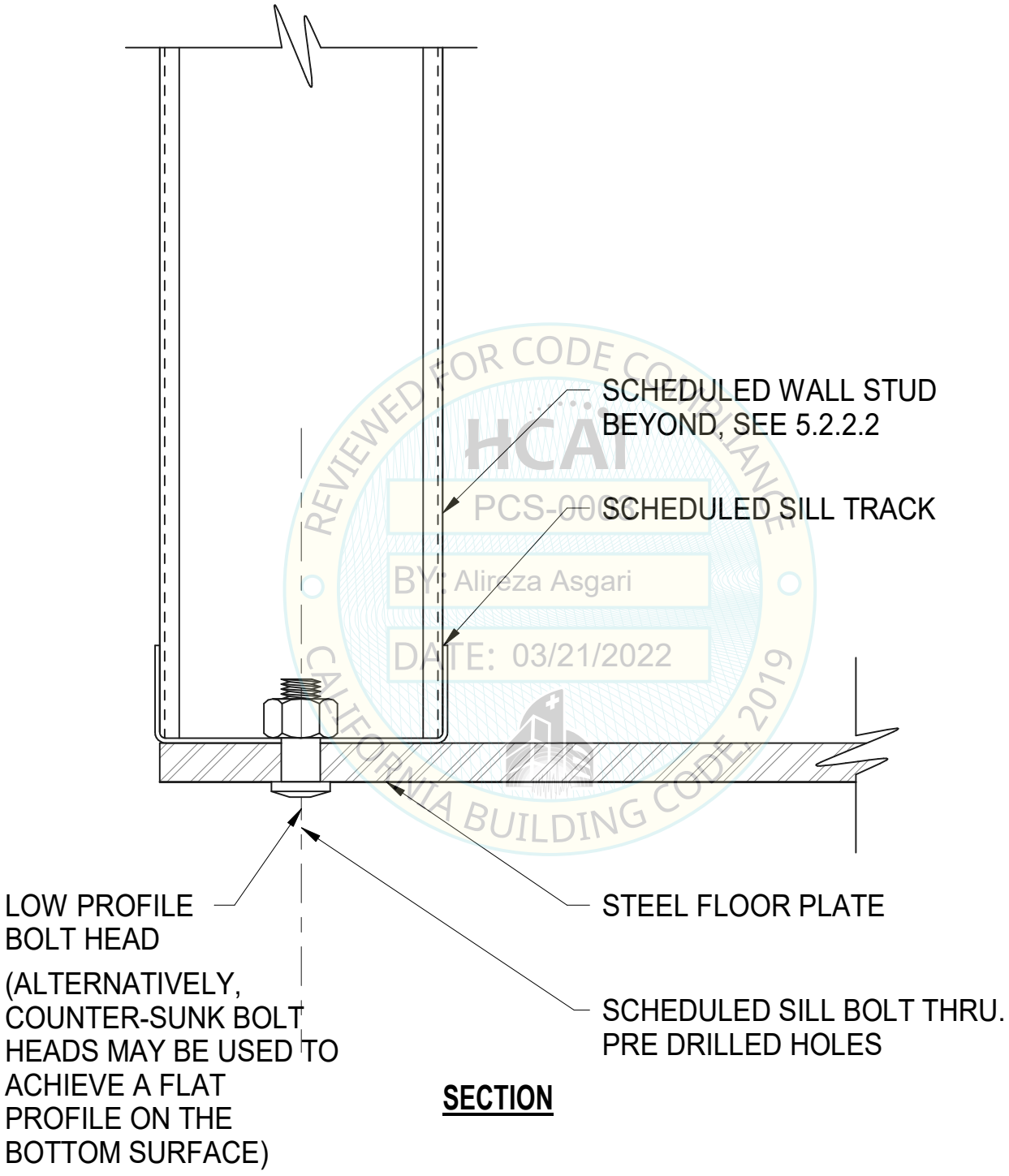
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STRAP CONNECTION AT WALL STUD

FIGURE 5.4.4



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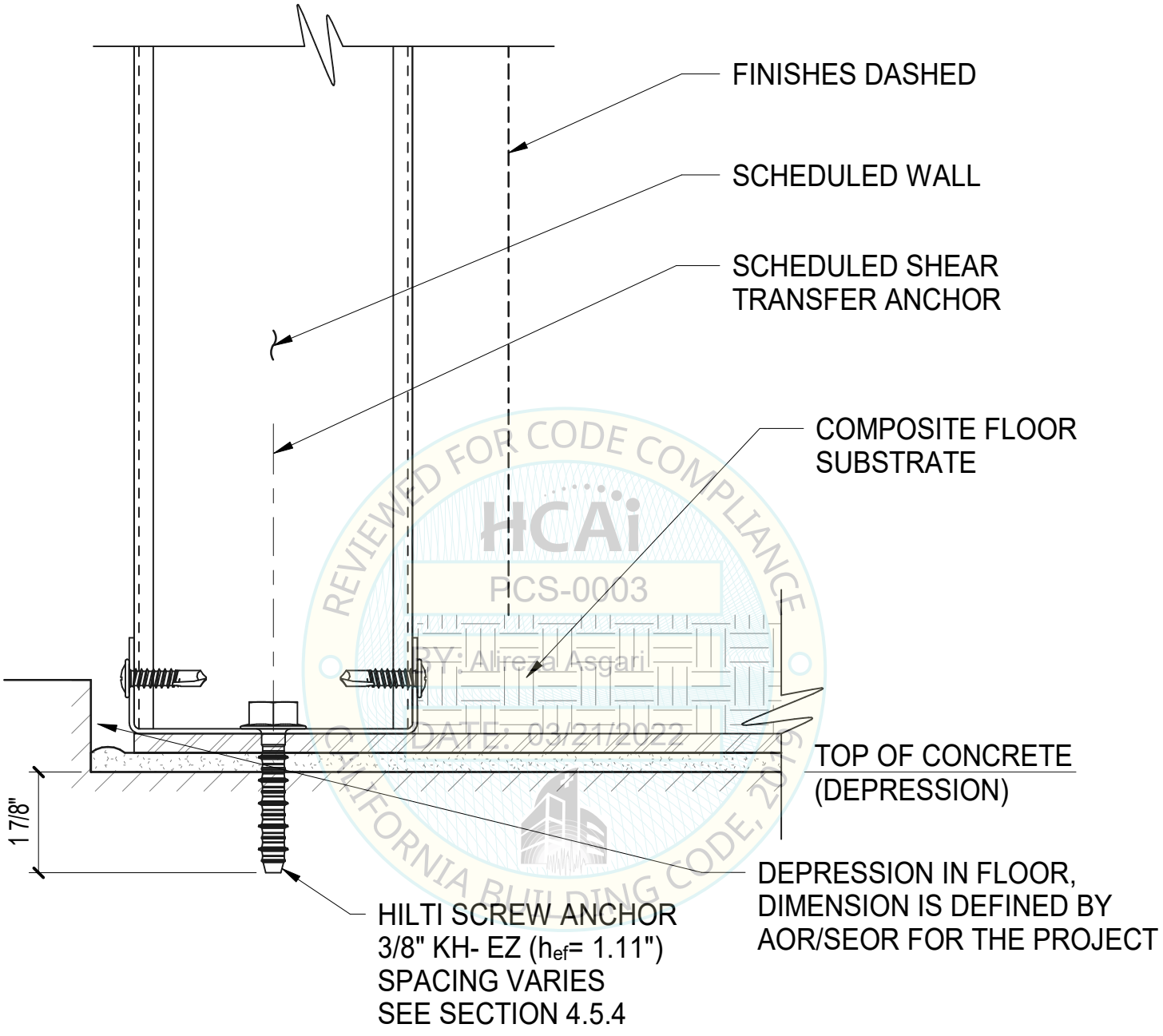
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SCALE 6" = 1'-0"

SILL FASTENING TO FLOOR PLATE

FIGURE 5.5.1



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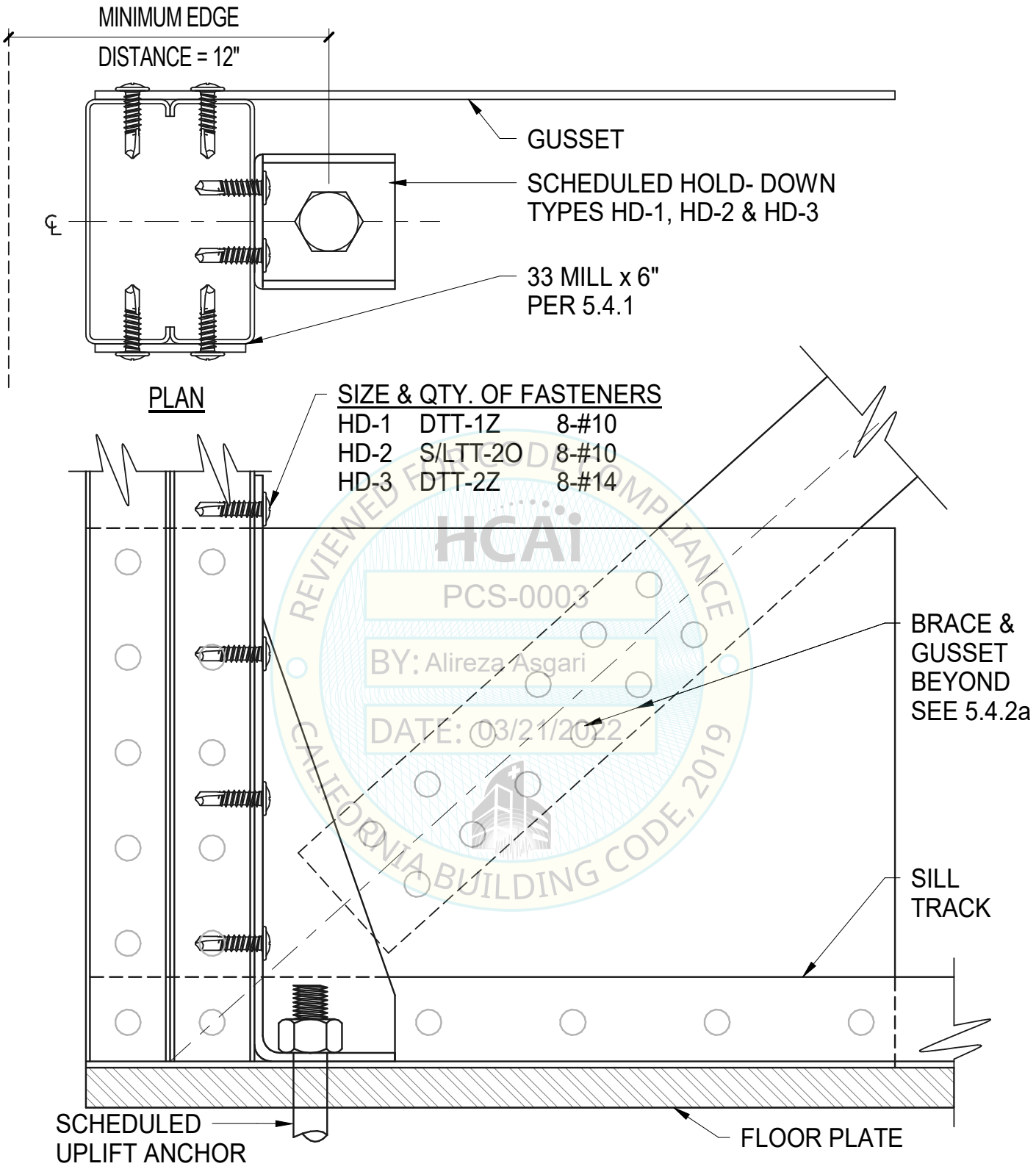
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SCALE 6" = 1'-0"

ANCHOR FOR SHEAR TRANSFER

FIGURE 5.5.2



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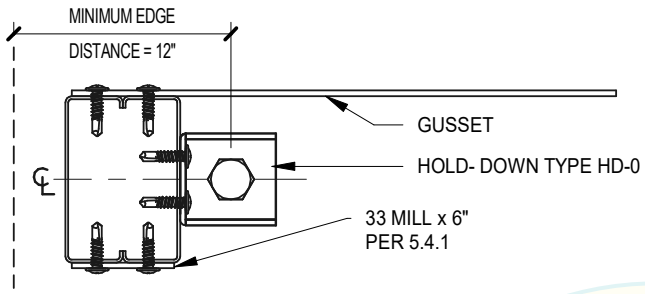
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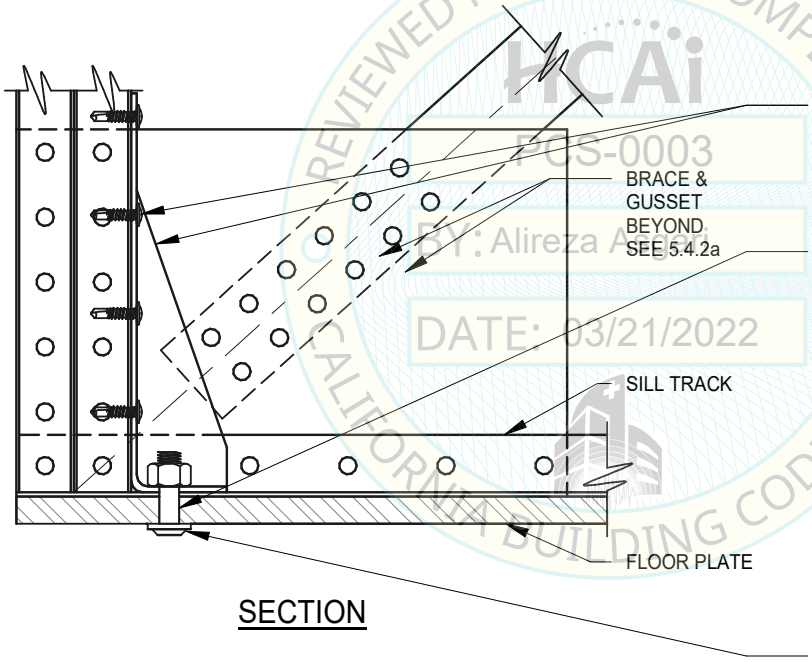
SCALE 6" = 1'-0"

HOLD-DOWN DEVICE TO CHORD (HD-1, HD-2, HD-3)

FIGURE 5.6.1



PLAN



SECTION

HOLD-DOWN DEVICE PER TABLE 4.6.2.1, w/ MANUFACTURER RECOMMENDED FASTENERS TO CHORD MEMBER (USE 8-#10 FOR DTT-1Z ONLY).

ANCHOR HOLD-DOWN TO STEEL FLOOR PLATE DIAMETERS SHALL BE AS FOLLOWS:

DTT-1Z: 3/8" DIAM.
S/LTT-2: 1/2" DIAM.
DTT-2Z: 1/2" DIAM.

HOLE IN STEEL FLOOR PLATE = 1/16" MAX OVER-SIZE

ANCHOR BOLT TYPE AT UNDERSIDE OF FLOOR PLATE
GRADE & HEAD OF ANCHOR BOLT MAY BE ONE OF THESE THREE OPTIONS:

- GRADE 8.8 CAP SCREWS WITH LOW PROFILE HEAD (MINIMUM HEAD THICKNESS = 1/2 BOLT DIAMETER), OR

- ASTM A325 OR A490 WITH COUNTERSUNK HEAD MILLED INTO BOTTOM OF PLATE, OR

- WELDED THREADED STUD WITH A 60,000 MINIMUM TENSILE STRENGTH

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SCALE 3" = 1'-0"

HOLD-DOWN DEVICE TO CHORD (HD-0)

FIGURE 5.6.2

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DETAIL NOT USED

SCALE 2” = 1’-0”

SNUBBER DETAIL ELEVATION

FIGURE 5.6.4.1



DETAIL NOT USED

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SCALE 3” = 1’-0”

SNUBBER DETAIL SECTION

FIGURE 5.6.4.2

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DETAIL NOT USED

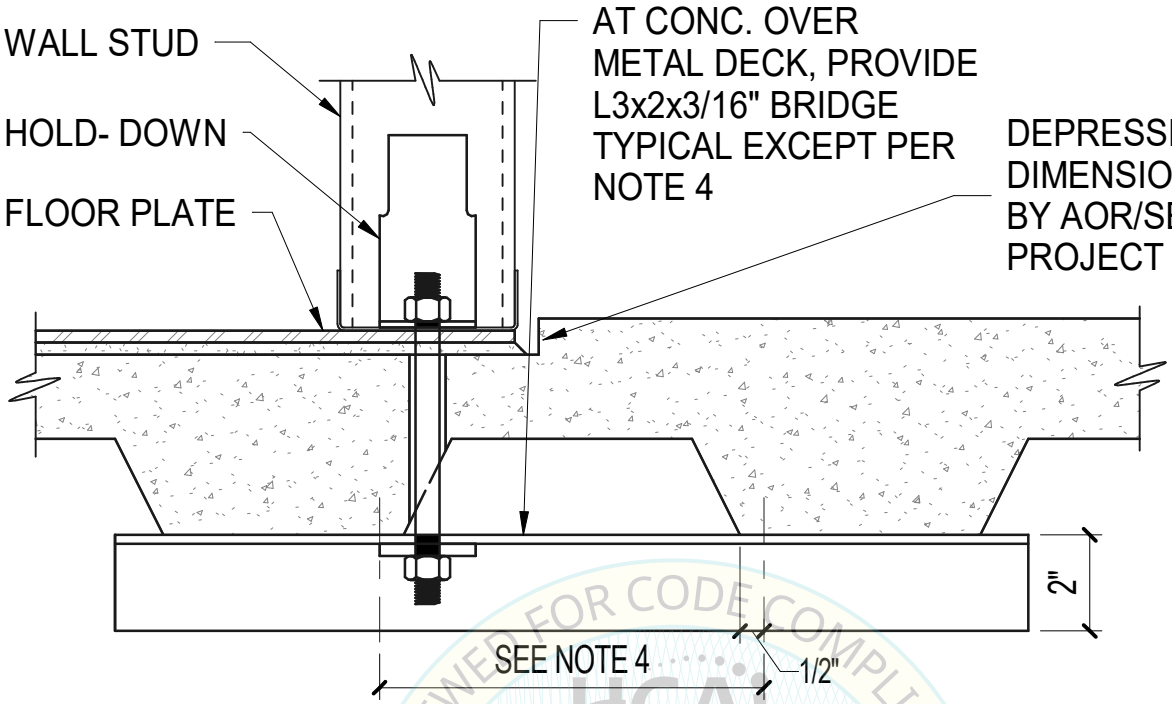
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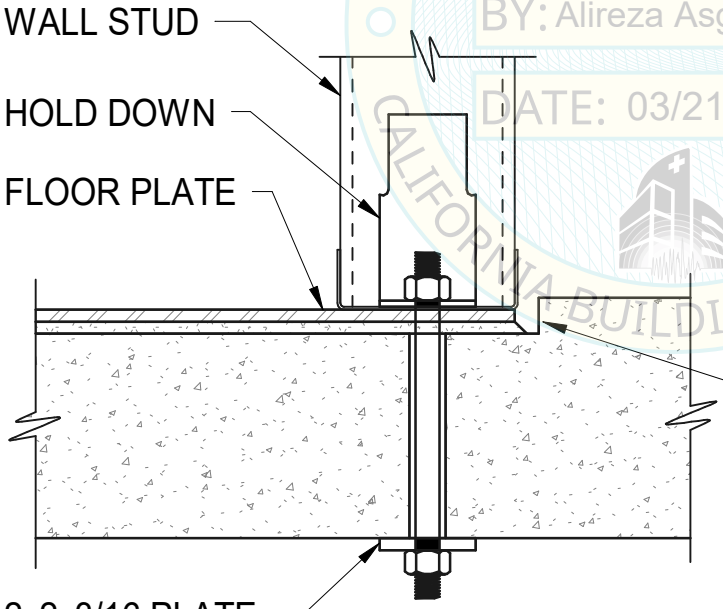
SCALE 4" = 1'-0"

SNUBBER PLAN DETAIL

FIGURE 5.6.4.3



THROUGH- BOLT @ CONC. FILL OVER METAL DECK



NOTES:

1. THROUGH BOLTS SHALL BE ASTM A193- B7 ALL THREAD ROD(ATR).
2. FOR HD- 1, USE 3/8"Ø ATR, FOR HD-2 & 3, USE 1/2"Ø ATR.
3. SET BOLT LOOSE IN 1/8" OVERSIZE DRILLED HOLE.
4. IF ANCHOR LOCATION IS WITHIN THIS ZONE, PROVIDE L3x2 BRIDGE, OTHERWISE USE DETAIL @ FORMED SLAB.

DEPRESSION IN FLOOR, DIMENSION IS DEFINED BY AOR/SEOR FOR THE PROJECT

THROUGH- BOLT @ FORMED SLAB

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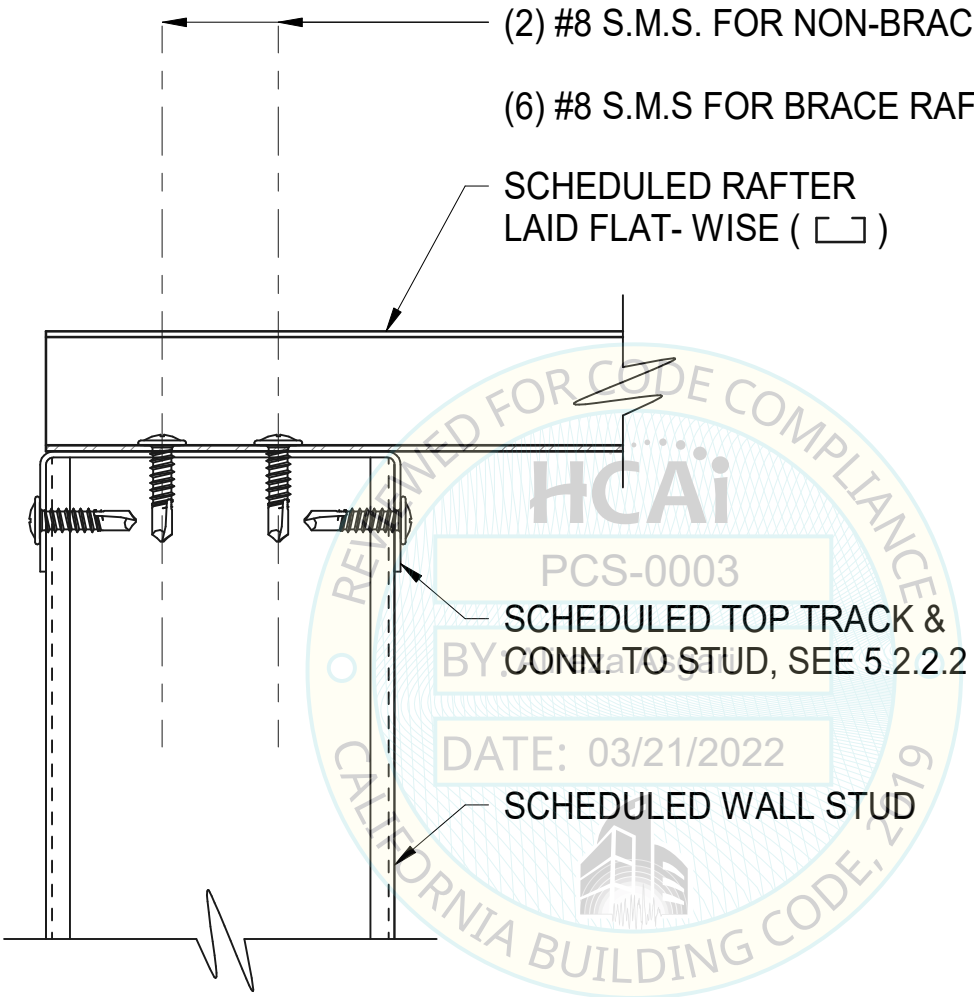
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SCALE 3" = 1'-0"

THROUGH BOLT DETAILS

FIGURE 5.6.5.1



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WALL SECTION

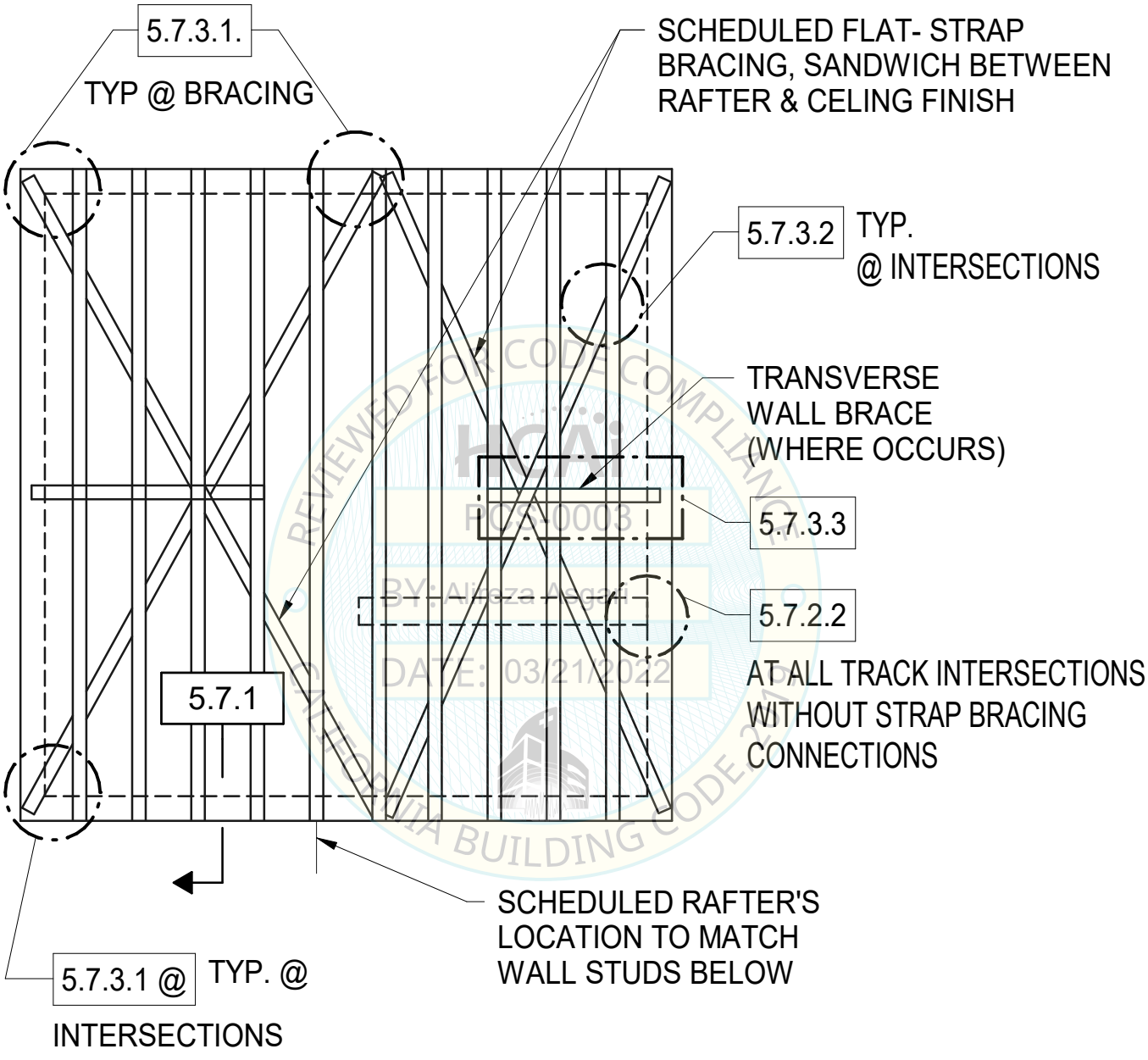
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SCALE 6" = 1'-0"

RAFTER TO WALL TRACK CONNECTION

FIGURE 5.7.1



LAYOUT OF FLAT- STRAP BRACING SHALL COMPLY WITH MANUAL SECTION 3.6

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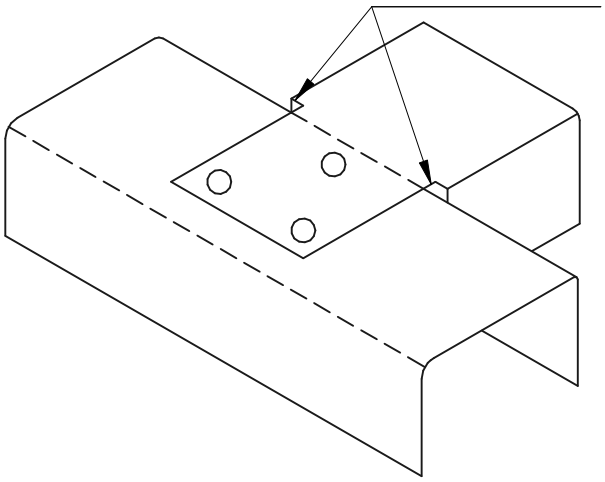
SCALE 1/2" = 1'-0"

CEILING FRAMING PLAN

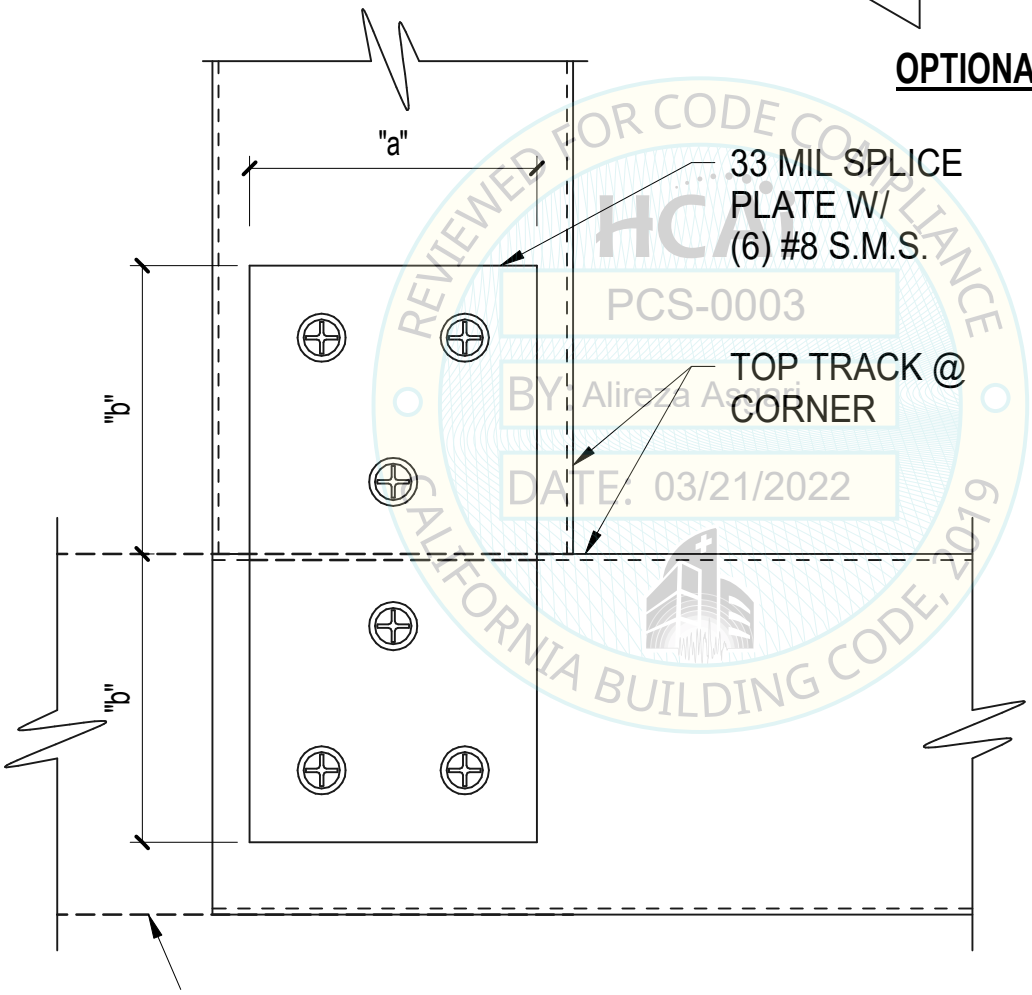
FIGURE 5.7.2.1

STUD SIZE	"a"	"b"
1 5/8"	1 5/8"	1 5/8"
3 5/8"	3 5/8"	3 5/8"

NOTE: THIS DETAIL MUST BE MODIFIED TO ACCEPT DIAPHRAGM STRAP BRACING; SEE FIGURE 5.7.3.1 FOR STRAP BRACING CONDITIONS.



OPTIONAL INTERSECTION DETAIL
(ISOMETRIC)



PLAN DETAIL @ TOP TRACK

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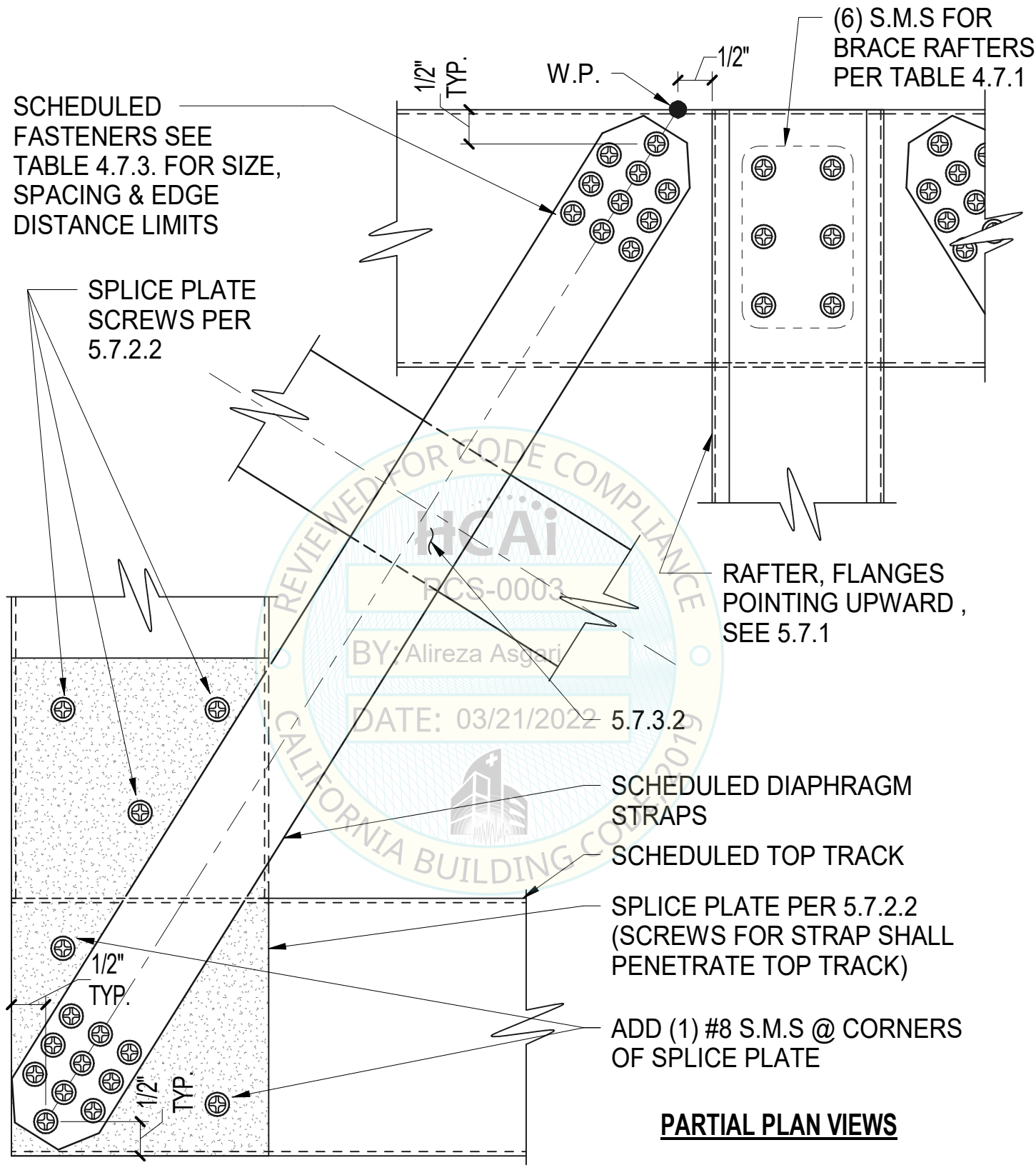
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SCALE 6" = 1'-0"

WALL TOP TRACK INTERSECTIONS

FIGURE 5.7.2.2



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PARTIAL PLAN VIEWS

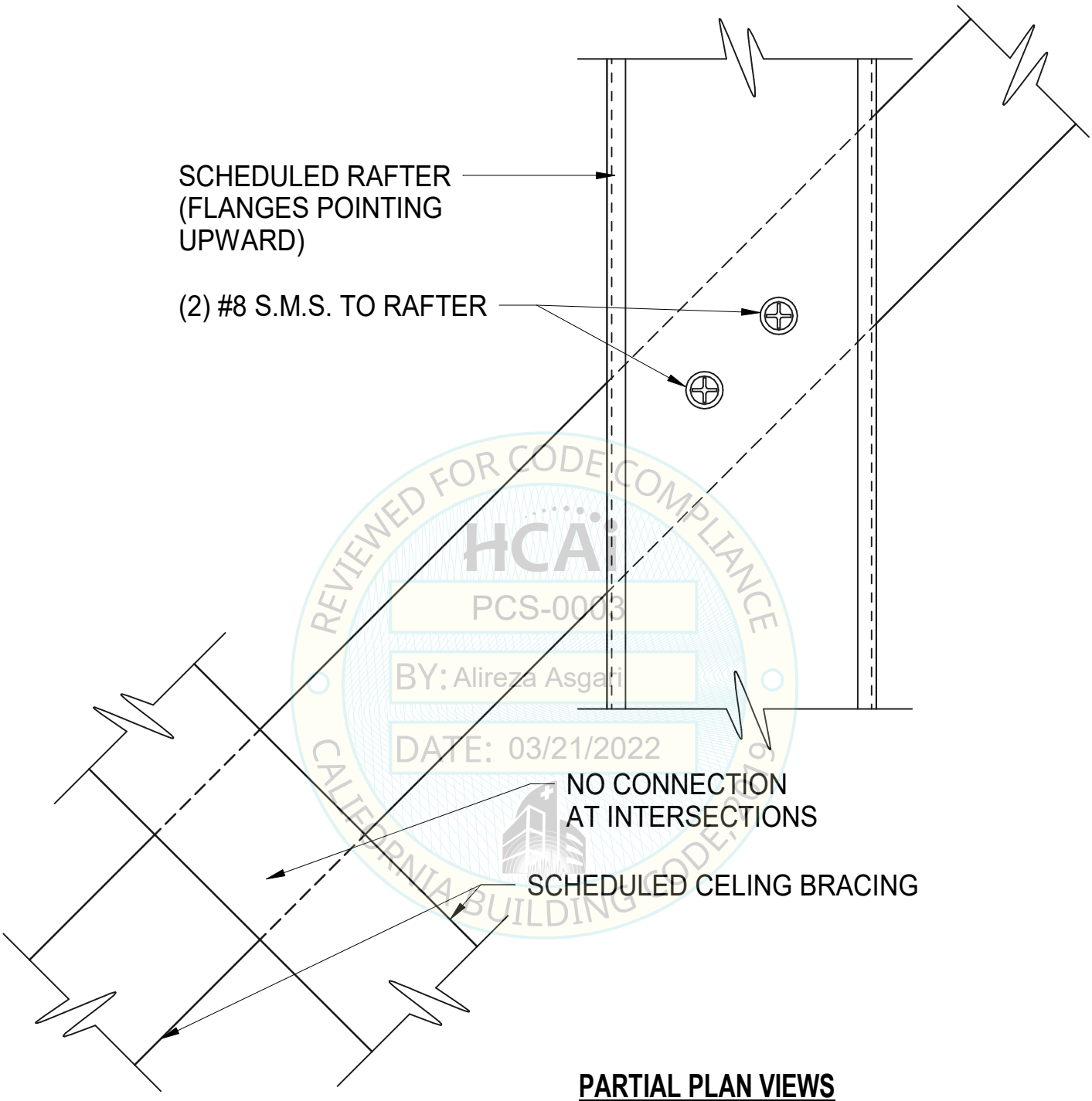
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SCALE 6" = 1'-0"

FLAT STRAP BRACING CONNECTIONS

FIGURE 5.7.3.1



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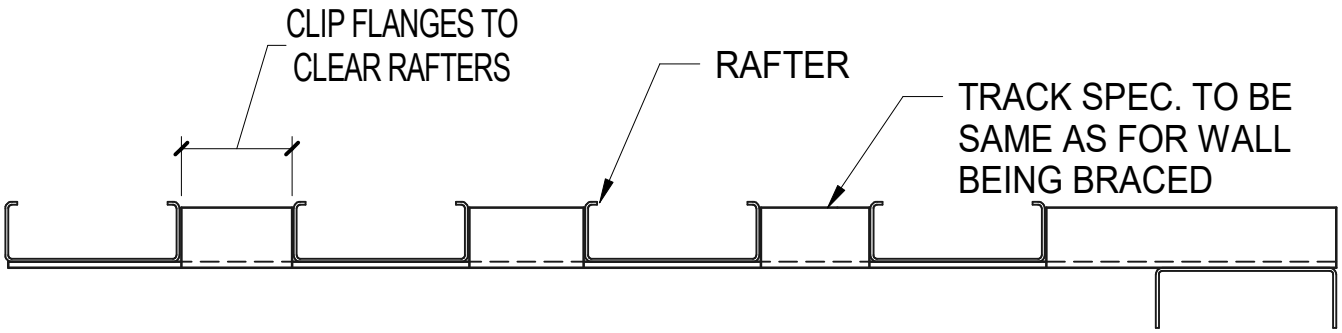
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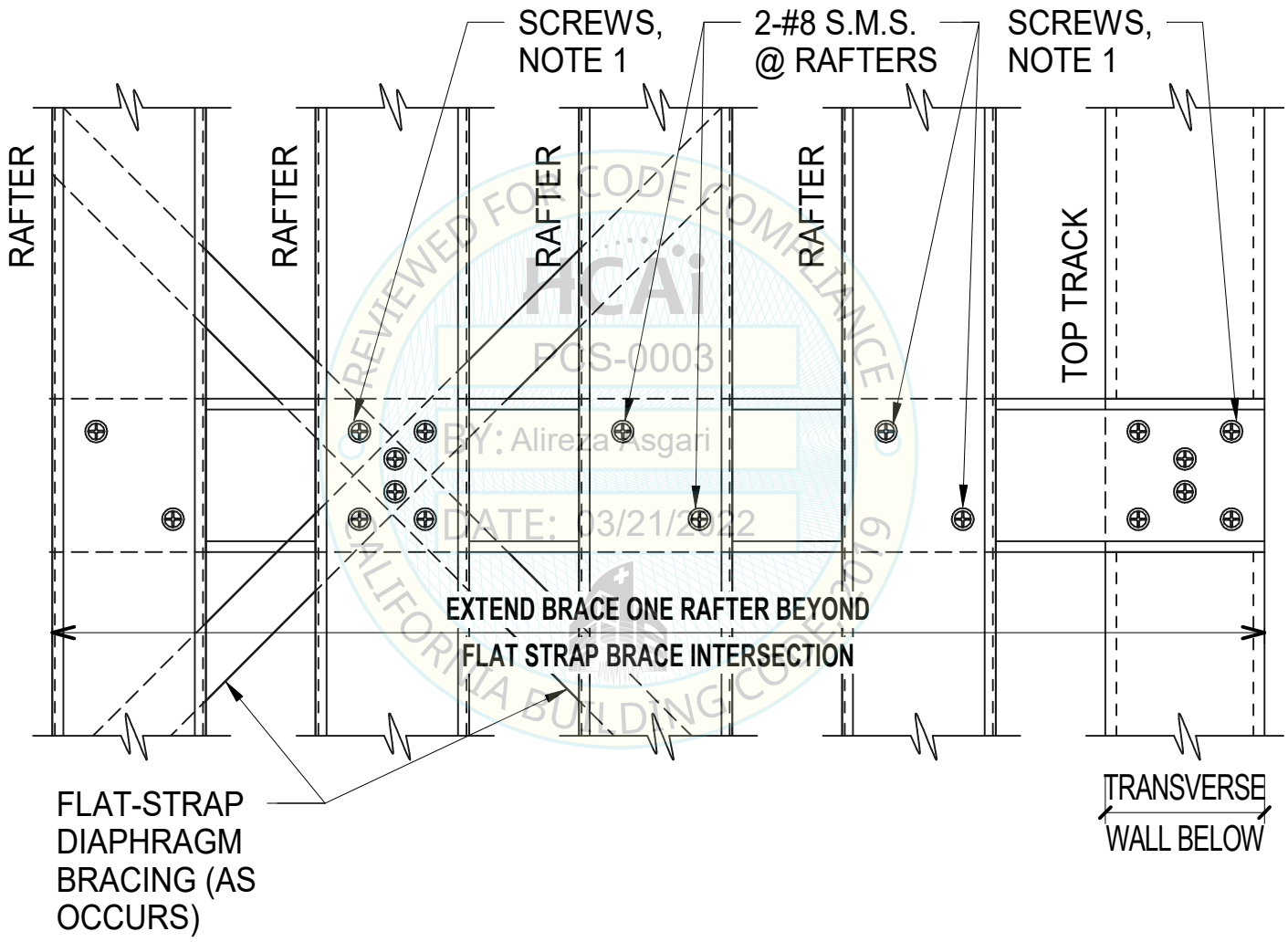
SCALE 6" = 1'-0"

FLAT STRAP BRACING INTERSECTIONS

FIGURE 5.7.3.2



MODIFIED TRACK-ELEVATION



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NOTE 1: PROVIDE 6 SCREWS, SAME SIZE AS TABLE 4.7.1, SCREWS SHALL PENETRATE FLAT STRAP BRACING @ INTERSECTION, AND WALL TRACK AT OPPOSITE END.

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SCALE 3" = 1'-0"

TRANSVERSE WALL BRACE

FIGURE 5.7.3.3

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Section 6

STRUCTURAL BASIS OF APPROVAL DOCUMENTS

6.1 INTRODUCTION

Purpose: This section provides the information needed to prepare a submittal for structural approval. Additional information not listed here may be needed to complete the permit submittal such as finish schedules, utilities, doorways, etc.

Submittal requirements vary by jurisdictions and adjustments may be needed to comply with a specific jurisdiction. Nonetheless, structural submittals to the agency having jurisdiction should include the following:

- A drawing containing General Notes, Basis of Design Notes and Typical Details; See Section 6.2.
- A drawing with a "Shear Wall Key Plan" showing the overall Pod in plan, with all designated shear walls identified on the plan; See Section 6.3.
- A drawing posting the location and magnitude of forces anchoring the Pod to the superstructure, for review and acceptance by the project SEOR. See Section 1.6 and Section 6.4 below.
- Drawings as needed to describe the Pod; See Section 6.5.

6.2 GENERAL NOTES, BASIS OF DESIGN AND TYPICAL DETAILS

The submittal should include one or more drawings that provide a structural basis of approval for a Pod project. The general notes and typical structural details contained in Section 5 of this manual can be used to create these documents.

Note: SurePods will need to "fill in the blanks" and complete the "Structural Basis of Design" notes contained in Figure 5.2.0.4, filling in criteria specific to the project, and filling in the loading information needed by the SEOR. There are four such fields to be filled in:

- *The project S_{DS} value (Section 2.2. This should match the value used to design the Pod !!)*
- *The project I_p value (Section 2.3. This should match the value used to design the Pod !!)*
- *The Pod's Operating Weight (Section 2.5, this value should be the actual operating weight, not the rounded-up value to design the Pod)*
- *The "Anchorage Force" determined in Section 4.3.2 for the Pod shall be written at the end of the paragraph titled "Structural Engineer of Record (SEOR).*

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6.3 SHEAR WALL KEY PLAN AND SCHEDULE OF REQUIREMENTS

The Structural Basis of Approval Documents should include a "Shear Wall Key Plan" that shows a plan view of the pod at floor level, with all required shear walls and hold-down devices and all shear and uplift anchors connecting the pod to the superstructure identified on this plan. A sample "Shear Wall Key Plan" might look like Figure 6.4.1 below.

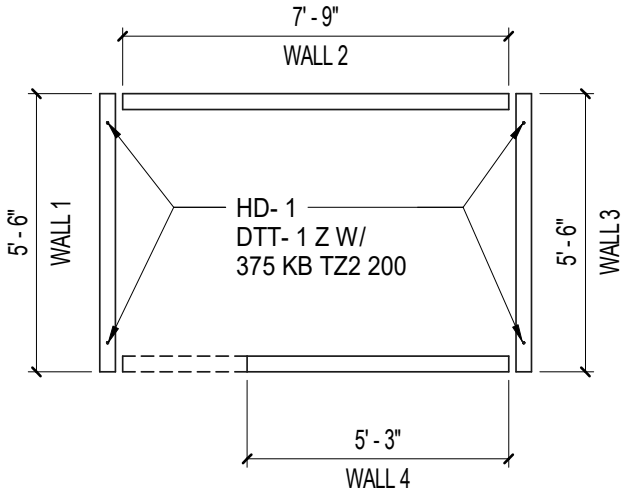


Figure 6.4.1 – Shear Wall Key Plan

6.4 FABRICATION AND INSTALLATION DETAILS

In addition to the General Notes and Typical Details noted in Section 6.2 and the Shear Wall Key Plan in Section 6.3, SurePods's submittal documents should include additional plans, elevations and details as needed to fully document the structural design of the Pod. For a typical project, these additional drawings would normally include:

- Floor Plate Plan, showing coordinated hole locations for Sill Fasteners and Shear Anchors (see Section 4.5) and for Hold-Down Anchors (See Section4.6);
- Shear Wall Elevations: SurePods typically elevates each wall of a Pod, and these drawings will now need to include the flat-strap bracing, gussets and connections associated with each shear wall designed in Section 4.4;
- A Ceiling Framing Plan showing the layout of ceiling rafters and diaphragm strap bracing (See Section 4.7);
- Other plans, elevations and details as needed to describe all requirements.

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CONCLUSION & REFERRAL

This concludes the SurePods Structural Manual. Questions will arise and may be directed as follows:

Forell | Elsesser Engineers

160 Pine Street #600

San Francisco, CA 94111

Attn: Marco Scanu

(415) 837-0700

Email: m.scanu@forell.com

End of SurePods Structural Manual

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APPENDIX

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SECTION B			NOTE: Approved agencies, individuals, and all changes to the TIO program shall be identified, evaluated by the DPOR and approved by HCAI prior to proceeding with the related work.				
Facility #:	Facility Name:		Project #:				
			Select with "X" or provide required OPAA information:				
Index #	Stage 1 Required (Select with "X")	OFF-SITE TESTS	Samples of Test & Inspection Reports Included	OPAA No. and Expiration Date	Responsible Approved Agency And/Or Individual (Identify Individual)	Compliance Verification by IOR (Initial/Date)	HCAI/FDD Use (Initial/Date)
STRUCTURAL TESTS							
Steel							
B-S1	X	**Steel (TIO Milestone 1)** CBC 2202A.1 Identification test for structural steel and cold formed steel at SurePods					

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Index #	Stage 1 Required (Select with "X")	OFF-SITE TESTS	Samples of Test & Inspection Reports Included	OPAA No. and Expiration Date	Responsible Approved Agency And/Or Individual (Identify Individual)	Compliance Verification by IOR (Initial/Date)	HCAI/FDD Use (Initial/Date)
ELECTRICAL TESTS							
B-E1	X	**Hospital Grade Receptacles (TIO 2 & 3.X)** 2021 NFPA 99 6.3.3.2.5					
B-E2	X	**Torque Electrical Connections (TIO 2 & 3.X)** CEC 110.3(B) & 110.14(D)					
B-E3	X	**Nurse Call System (TIO 2 & 3.X)** CEC 517.123					
PLUMBING TESTS							
B-P1	X	**Water Supply System (TIO Milestone 2 and 3.X)** CPC 105.3 & 609.4 Pressure tested prior to covering or concealment					
B-P2	X	**Plumbing, Drainage, and Venting Systems (TIO Milestone 2 and 3.X)** CPC 105.3 & 712.0 Water or air tested prior to use, covering or concealment. No air test for plastic piping.					
OTHER TESTS							
B-OT1	X	**SurePods Flood Test (TIO Milestone 2 and 3.X)**					

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SECTION D

NOTE: Approved agencies, individuals, and all changes to the TIO program shall be identified, evaluated by the DPOR and approved by HCAI prior to proceeding with the related work.

Facility #:	Facility Name:	Project #:

Select with "X" or provide required OPAA information:

Index #	Stage 1 Required (Select with "X")	OFF-SITE INSPECTIONS	Samples of Test & Inspection Reports Included	OPAA No. and Expiration Date	Responsible Approved Agency And/Or Individual (Identify Special Inspector)	Compliance Verification by IOR (Initial/Date)	HCAI/FDD Use (Initial/Date)
STRUCTURAL SPECIAL INSPECTIONS							
Steel							
D-S1	X	**Steel (TIO Milestone 2 and 3.X)** CBC 1705A.2, 1705A.12.2, & 1705A.13.3 Cold-formed steel light frame construction					
D-S2	X	**Steel (TIO Milestone 2 and 3.X)** CBC 1705A.13 Special inspections for seismic resistance					
Nonstructural components, supports and attachments							
D-N1	X	**Plumbing, Mechanical, and Electrical Components (TIO Milestone 2 and 3.X)** CBC 1705A.13.6 Anchorage, bracing, and vibration isolators					
D-N2	X	**Off-Site Fabrication (TIO Milestone 2 & 3.X)** Pods are sheathed on one side only and are fully visible for all required Inspections and Special Inspections On-Site. No Off-Site Inspections are required					
OTHER SPECIAL INSPECTIONS							
D-OT1	X	**SurePods First Article / Prototype Inspection (TIO Milestone 2)** Full inspection of "First in place" pod to ensure all requirements are met prior to beginning full production					
D-OT2	X	**Ceiling Build QC (TIO Milestone 2 & 3.X)** Framing of pod ceiling					
D-OT3	X	**Ceiling Rough QC (TIO Milestone 2 & 3.X)** Rough-in of electrical and plumbing piping.					
D-OT4	X	**Wall Build QC (TIO Milestone 2 & 3.X)** Cold formed steel framing of pod walls.					
D-OT5	X	**Box Build QC (TIO Milestone 2 & 3.X)** Assembly of all walls and ceiling on steel plate subfloor.					
D-OT6	X	**Plumbing Rough QC (TIO Milestone 2 & 3.X)** In wall rough plumbing					
D-OT7	X	**Electrical Rough QC (TIO Milestone 2 & 3.X)** In wall rough electrical					
D-OT8	X	**Supply Line Pressure Test QC (TIO Milestone 2 & 3.X)** Pressure testing of all copper supply piping					
D-OT9	X	**Waste Line Pressure Test QC (TIO Milestone 2 & 3.X)** Pressure testing of all waste piping assembled within pod walls					

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D-OT10	X	**Plumbing Finish QC (TIO Milestone 2 & 3.X)** Final finish plumbing install. Sink, shower, toilet supply, etc.					
D-OT11	X	**Electrical Finish QC (TIO Milestone 2 & 3.X)** Final finish electrical, GFCI testing, light switch, lights, etc.					
D-OT12	X	**Final Inspection (TIO Milestone 2 & 3.X)** Full final overall inspection of pod.					

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SECTION B

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Facility #:	Facility Name:	Project #:

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Index #	Stage 1 Required (Select with "X")	ON-SITE TESTS	Samples of Test & Inspection Reports Included	OPAA No. and Expiration Date	Responsible Approved Agency And/Or Individual (Identify Individual)	Compliance Verification by IOR (Initial/Date)	HCAI/FDD Use (Initial/Date)
STRUCTURAL TESTS							
Concrete							
B-C1	X	**Post-installed anchors (TIO Milestone 4)** CBC 1910A.5 Installation verification test (includes adhesive, shot pins and mechanical anchors)					

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SECTION C

NOTE: Approved agencies, individuals, and all changes to the TIO program shall be identified, evaluated by the DPOR and approved by HCAI prior to proceeding with the related work.

Facility #:	Facility Name:	Project #:

Select with "X" or provide required OPAA information:

Index #	Stage 1 Required (Select with "X")	ON-SITE INSPECTIONS	Samples of Test & Inspection Reports Included	OPAA No. and Expiration Date	Responsible Approved Agency And/Or Individual (Identify Special Inspector)	Compliance Verification by IOR (Initial/Date)	HCAI/FDD Use (Initial/Date)
STRUCTURAL SPECIAL INSPECTIONS							
Concrete							
C-C1	X	**Concrete (TIO Milestone 4)** CBC 1705A.3 CIP & post-installed anchors					

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SECTION F — CONSTRUCTION VERIFICATION

Facility #:	Facility Name:	Project #:

VERIFIED CONSTRUCTION INSPECTION AND OBSERVATION REPORTING

REFERENCE NUMBER	PROJECT STAGE(S), MILESTONE, OR INTERVAL (Clearly indicate which Stage(s) apply to which Milestone/Interval)	VERIFIED COMPLIANCE REPORT REQUIRED AS INDICATED (Form HCAI-OSH-123) (See "PERSONAL KNOWLEDGE" as defined in California Administrative Code, Section 7-151)										HCAI/FDD USE
		GEOR	AOR	SEOR	MEOR	EEOR	CONT	IOR	SP INSP	TEST LAB		
Milestone 1	Material ID Inspection by IOR at SurePods Facility before Fabrication						X	X				
Milestone 2	First Article/Prototype Review & Inspection Off-Site at SurePods Facility by IOR, DPOR(s), EOR(s), General Contractor & SurePods.		X	X	X	X	X	X				
Milestone 3	Periodic In Plant Inspections by IOR Only, During Production at SurePods Facility						X	X				
Milestone 4	SurePods Installation of Final Unit - On Site Inspections by IOR, DPOR(s), General Contractor, Special Inspector, & Approved Agency		X	X	X	X	X	X	X	X		

ABBREVIATIONS:

GEOR - Geotechnical Engineer of Record
AOR - Architect of Record
SEOR - Structural Engineer of Record
MEOR - Mechanical Engineer of Record
EEOR - Electrical Engineer of Record
CONT O/B - Contractor or Owner/Builder
SP. INSP - Special Inspector
IOR - Inspector of Record
Test Lab – Engr. For the approved agency

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SECTION G	Inspector of Record (IOR) Responsibility	
Facility #:	Facility Name:	Project #:

INSPECTOR OF RECORD RESPONSIBILITIES. Per CAC 7-145: "The Inspector shall have personal knowledge, obtained by continuous inspection of all work of construction in all stages of its progress to ensure that the work is in accordance with the approved construction documents." This includes applicable Codes, Referenced Standards, Listings and Manufacturer's Installation Instructions applicable to the work shown in the approved construction documents. If a project has more than one inspector of record, the distribution of responsibilities for the work shall be clearly identified for each IOR per CAC 7-141(f). One IOR shall be designated as the 'lead' IOR per CAC 7-144(b). One IOR shall be assigned responsibility for "all other work" to make sure responsibility for the inspection of every part of the work is assigned.

INSPECTOR OF RECORD CAC 7-141, 7-145 & 7-151	SCOPE OF INSPECTION	PERFORMED OFF-SITE
	All other work	

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SECTION H	HCAI REVIEWED	
Facility #:	**Facility Name:**	**Project #:**

NOTE: When a structural engineer has been delegated responsibility for a portion of this project his or her signature is also required.

Submitted By:

I have reviewed the approved construction documents for this project and all tests and special inspections required by Code are marked as "required" on this form.

Architect/Engineer of Record (Print Name)	Architect/Engineer of Record (Signature)	Date
Structural Engineer of Record (Print Name)	Structural Engineer of Record (Signature)	Date

FOR HCAI USE

TIO Program Reviewed by HCAI Plan Review Staff:

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BY: Alireza Asgari
DATE: 07/09/2025
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Note: HCAI plan review staff must provide verification that the TIO program has beeen "Reviewed" prior to plan approval to confirm the applicability of the tests and inspections identified in the TIO program for work scope, building systems, and the construction materials shown in the design drawings. Field staff will issue subsequent "TIO Program Approval".

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SECTION I	TIO PROGRAM APPROVAL	
Facility #:	**Facility Name:**	**Project #:**

This program is prepared and submitted for an OSHPD 1 project. OSHPD 1 projects include all construction and remodel projects for: general acute care hospitals, acute psychiatric hospitals, and general acute care hospitals providing only acute medical rehabilitation center services (2022 CBC 1224.1).

Samples of Test and Inspection Reports are *NOT required for tests performed by laboratories approved through OPAA Program*

All test and special inspection reports shall be submitted to the IOR, hospital owner, architect in responsible charge, and the structural engineer by the responsible approved agency and/or individual per CAC 7-149(a). The responisble approved agency and/or individual shall be employed by the health facility, owner, or governing board or authority per CAC 7-149(b).

Verified compliance reports shall be signed by the individual who performed the special inspection(s) as outlined in CAC 7-151 (c).
All reports shall clearly state whether the tests or special inspections were performed in accordance with the HCAI stamped approved documents and whether the results indicate compliance with those documents per CAC 7-149 (a). All IORs performing special inspections shall hold the appropriate certification and equipment, and shall obtain approval from the design professional of record and HCAI prior to performing such work.

NOTE: This Test, Inspection, and Observation Report shall be approved by HCAI field personnel prior to start of construction.

Architect/Engineer of Record (Print Name)	Professional License #	Architect/Engineer of Record (Signature)	Date

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FOR HCAI FIELD STAFF USE

TIO Program Approved by HCAI Field Staff:

Note: HCAI plan review staff must provide verification that the TIO program has been "Reviewed" prior to plan approval to confirm the applicability of the tests and inspections identified in the TIO program for work scope, building systems, and the construction materials shown in the design drawings. HCAI Field staff will issue subsequent "TIO Program Approval".

If "Approved with Comments" is checked the following comments shall be resolved by the designer prior to proceeding with the related construction:

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hcai.ca.gov
2020 West El Camino Avenue, Suite 800
Sacramento, CA 95833
355 South Grand Avenue, Suite 1900
Los Angeles, CA 90071

Testing, Inspection, and Observation Program

2022 California Building Standards Code - OSHPD 1

SECTION J

SUMMARY OF CHANGES TO THE TIO PROGRAM

NOTE: Note all changes shall be approved as amended construction documents per CAC 7-153, or "concurred with" as non-material alterations per CAC 7-153(b), by HCAi prior to proceeding with the related work.

Facility #:	Facility Name:	Project #:

TESTING, INSPECTION, AND OBSERVATION PROGRAM NON-MATERIALLY ALTERING CHANGES BY THE ARCHITECT OF RECORD / ENGINEER OF RECORD IN RESPONSIBLE CHARGE

A signature below indicates that the DPOR has verified the acceptance statements in Section I of this Form are applicable to any approved agencies/testing laboratories and special inspectors added.

REVISION NUMBER	SYNOPSIS OF CHANGE	Architect/Engineer of Record Signature (Initial/date)	Structural Engineer of Record Signature (Initial/date)	DATE of Effective Change	HCAI FDD CONCURRENCE (Initial/date)

REVIEWED FOR CODE COMPLIANCE
HCAi
PCS-0003
BY: Alireza Asgari
DATE: 07/09/2025
CALIFORNIA BUILDING CODE, 2022

SurePods HCAI Inspection Requirements

Milestones --> Assumptions	SurePods Drawing Submission for HCAI Review and Approval	TIO Milestone 1: Material ID Inspection by IOR at SurePods Facility before Fabrication	TIO Milestone 2: First Article/Prototype Review & Inspection Off-Site at SurePods Facility by IOR, DPOR(s), EOR(s), General Contractor & SurePods.	Full-Time/Continuous In Plant Inspection by IOR or 3rd Party Inspectors at SurePods Facility	TIO Milestone 3.X: Periodic In Plant Inspections by IOR Only, During Production at SurePods Facility	Testing & Inspections In Addition to Milestones 2 and 3.X Repeated On Site After Delivery	TIO Milestone 4: SurePods Installation of Final Unit, Post Installed Anchorage - On Site Inspections by IOR, General Contractor, Special Inspector, & Approved Agency
OSHPD 1: Pod fits within preapproved 8' x 10' rectangular geometry. Pod utlizes preapproved MEP & Fire Life Safety layout	YES	YES	YES	NO	Frequency Determined by DPOR & approved by HCAI	NO	YES
OSHPD 1: Pod does not fit within 8' x 10' dimensions or is not square in nature. Pod utlizes preapproved MEP & Fire Life Safety layout	YES	YES	YES	NO	Frequency Determined by DPOR & approved by HCAI	NO	YES
OSHPD 1: Pod fits within preapproved 8' x 10' rectangular geometry. Pod does not utilize preapproved MEP & Fire Life Safety layout	YES	YES	YES	NO	Frequency Determined by DPOR & approved by HCAI	NO	YES
OSHPD 1: Pod does not fit within 8' x 10' dimensions or is not square in nature. Pod does not utlize preapproved MEP & Fire Life Safety layout	YES	YES	YES	NO	Frequency Determined by DPOR & approved by HCAI	NO	YES

REVIEWED FOR CODE COMPLIANCE
HCAi
PCS-0003
BY: Alireza Asgari
DATE: 07/09/2025
CALIFORNIA BUILDING CODE

GENERAL NOTES – COLD FORMED METAL FRAMING:

1. COLD-FORMED METAL FRAMING: THE DESIGN, INSTALLATION AND CONSTRUCTION OF COLD-FORMED FRAMING SHALL BE IN ACCORDANCE WITH AISI S100-16-S2-20 "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS"; AISI S202-20 "CODE OF STANDARD PRACTICE FOR COLD FORMED STEEL STRUCTURAL FRAMING"; AISI S220-20 "NORTH AMERICAN STANDARD FOR COLD FORMED STEEL FRAMING" AND AISI S400-20 "NORTH AMERICAN STANDARD FOR SEISMIC DESIGN OF COLD FORMED STEEL STRUCTURAL SYSTEMS". ALL PRODUCTS SHALL BE MANUFACTURED BY CURRENT MEMBERS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) PER ICC ES REPORT ESR-03064P. PROVIDE ALL ACCESSORIES INCLUDING BUT NOT LIMITED TO TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION AND AS RECOMMENDED BY THE MANUFACTURER FOR THE MEMBERS AND DEVICES USED.

2. WEB PUNCHOUTS: TRACK SECTION SHALL NOT HAVE ANY WEB PUNCHOUTS. WALL STUDS AND CHORDS MAY HAVE WEB PUNCHOUTS ONLY AS FOLLOWS: FOR 1-5/8" STUDS, WEB PUNCHOUTS ARE PERMITTED FOR ANY 33-MIL STUD, AND FOR 43-MIL STUDS FOR CEILING HEIGHTS 8'-0" OR LESS. FOR 3-5/8" STUDS, WEB PUNCHOUTS ARE PERMITTED FOR ALL GAGES AND CEILING HEIGHTS. WEB PUNCHOUTS, WHEN USED, SHALL COMPLY WITH SSMA STANDARDS, USING ¾"X4" AT 24"O.C. MINIMUM SPACING FOR 1-5/8" STUDS AND 1-1/2"X4" AT 24" O.C. MINIMUM SPACING FOR 3-5/8" STUDS.

3. CORROSION PROTECTION: ALL STEEL MEMBERS AND COMPONENTS SHALL BE PROTECTED FROM CORROSION. COLD-FORMED AND SHEET METALS SHALL COMPLY WITH ASTM C955 PARAGRAPH 4.4: "MEMBERS SHALL HAVE A PROTECTIVE COATING IN ACCORDANCE WITH TABLE 1, CP 60 MINIMUM."

4. COLD-FORMED TRACK AND STUD: SHEET STEEL SHALL CONFORM TO ASTM C955 AND ASTM A653 SS, WITH MEMBERS 18GA & LIGHTER CONFORMING TO GRADE 33 AND WITH MEMBERS 16GA AND HEAVIER CONFIRMING TO GRADE 50, CLASS I UNLESS NOTED OTHERWISE. DIMENSIONS OF TRACK AND STUD MEMBERS SHALL BE AS DEFINED USING SSMA STANDARD NOMENCLATURE AND AS DEFINED ON THESE DRAWINGS.

5. FLAT-STRAP BRACING & GUSSETS: **DO NOT USE GRADE 33 SHEET METAL FOR THESE ELEMENTS.** SHEET STEEL SHALL CONFORM TO ASTM A653 GRADE 50 CLASS I. FLAT STRAP SHALL BE PROVIDED IN FACTORY-CUT WIDTHS WITH NO NOTCHES ALONG THE EDGES AND NO HOLES WHAT-SO-EVER EXCEPT AT SCREWED CONNECTION LOCATIONS. DO NOT USE MATERIAL WITH BENDS OR CREASES DUE TO ACCIDENTAL BENDING

Figure 5.0.2.1

GENERAL NOTES – COLD FORMED METAL FRAMING:

1. SHEET METAL SCREWS: ALL SCREWS SHALL CONFORM TO ASTM C1513 AND SHALL HAVE A CORROSION RESISTANT COATING. SIZES AND TYPES OF SCREWS SHALL CONFORM TO THE SCHEDULES AND DETAILS HEREIN, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS AND THE FOLLOWING: SCREW LENGTH AND DRILL POINTS SHALL BE SELECTED SO THAT SCREW THREADS SHALL TAP INTO AND SHALL ENGAGE THE ENTIRE THICKNESS OF ALL PIECES TO BE JOINED AND NOT LESS THAN THREE COMPLETE THREADS SHALL PENETRATE BEYOND THE METAL JOINED. SELF DRILLING SCREWS SHALL BE SELECTED SO THAT THE DRILL POINT COMPLETES DRILLING THRU ALL PLIES BEFORE THE LEAD THREADS BEGIN ENGAGING METAL. WHERE THESE DRAWINGS CALL FOR A SCREW SIZE THAT DOES NOT HAVE A DRILL POINT OF SUFFICIENT LENGTH, INCREASE THE SCREW SIZE TO COMPLY WITH THESE REQUIREMENTS. PRE-DRILLED HOLE DIAMETERS SHALL NOT EXCEED THE DIAMETER OF THE DRILL POINT FOR SPECIFIED SCREW. SCREW SPACING AND EDGE DISTANCE SHALL NOT BE LESS THAN 3 TIMES THE NOMINAL SCREW DIAMETER.

2. SHEET METAL SCREW SPECIFICATIONS: SHEET METAL SCREWS CALLED FOR ON THESE DRAWINGS SHALL CONFORM TO THE FOLLOWING:
   a. SCREWS DENOTED AS "#8 SMS" SHALL BE #8-15 (WITH DRILL POINT #2) WITH MODIFIED TRUSS HEAD (PMTH) , SENCO PART NUMBER 08M050CT RFSP, PER ICC ESR-3558.
   b. SCREWS DENOTED AS "#10 SMS" SHALL BE #10-16 (WITH DRILL POINT #2) WITH PAN HEAD (SPFH), SENCO PART NUMBER 10M075CTMFDS, PER ICC ESR-3558
   c. SCREWS DENTOED AS "#12 SMS" SHALL BE #12-18 (WITH DRILL POINT #4), SENCO PART NUMBER 12M087YKFF4X PER ICC ESR-3558.

3. WELDING OF COLD-FORMED STEEL: WELDING OF STRUCTURAL ELEMENTS IS NOT PERMITTED.

4. HOLD-DOWN DEVICES: WITH THE EXCEPTION TO THE DTT-1Z (SEE BELOW) HOLD-DOWN DEVICES CALLED FOR ARE TO BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY PER IAMPO EVALUATION REPORT ES-124. FASTENERS TO METAL FRAMING SHALL BE IN ACCORDANCE WITH THE PRODUCT APPROVAL EVALUATION REPORT. DTT-1Z DEVICES SHALL BE AS MANUFACTURED BY SIMPSON STONG-TIE COMPANY PER ICC-2330 AND SHALL BE ATTACHED TO METAL FRAMING USING 6-#10 SMS.

Figure 5.0.2.2

GENERAL NOTES – MISCELLANEOUS:

1. SILL FASTENERS: ASTM A307A, ASTM A307B OR ASME GRADE 2 BOLTS. LOW PROFILE HEADS MAY BE USED.

2. SCREW ANCHORS: HILTI KH-EZ CARBON STEEL SCREW ANCHORS. ANCHORS SHALL THE REQUIREMENTS OF AND SHALL BE INSTALLED IN ACCORDANCE WITH ICC ESR-3027.

3. EXPANSION ANCHORS: HILTI KB-TZ2 EXPANSION ANCHORS. ANCHORS SHALL THE REQUIREMENTS OF AND SHALL BE INSTALLED IN ACCORDANCE WITH ICC ESR-4266.

4. RESIN ANCHORS: ASTM F1554 GRADE 36 ALL-THREAD ONLY, TO BE SET IN HILTI HIT RE 500 V3 RESIN. ANCHORS SHALL THE REQUIREMENTS OF AND SHALL BE INSTALLED IN ACCORDANCE WITH ICC ESR-3814.

5. RESINOUS SETTING MORTAR: NOT USED FOR S-3 PODS

6. NONRESINOUS SETTING MORTAR: LATICRETE 254. SURFACES SHALL BE PREPARED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

7. STANDARD ABBREVIATIONS: THESE DRAWINGS USE THE FOLLOWING ABBREVIATIONS:
   "EA" DENOTES "EACH"
   "HSS" DENOTES HOLLOW STRUCTURAL SHAPE
   "MAX" DENOTES "MAXIMUM"
   "MIN" DENOTES "MINIMUM"
   "O.C." DENOTES "ON CENTER"
   "SMS" DENOTES "SHEET METAL SCREW"
   "TYP" DENOTES "TYPICAL

Figure 5.0.2.3

STRUCTURAL BASIS OF DESIGN:

1. GOVERNING BUILDING CODE: THE POD STRUCTURAL DESIGN SHALL MEET THE REQUIRMENTS OF THE 2019 CALIFORNIA BUILDING CODE (CBC) AND THE REQUIREMENTS OF ASCE 7-16.

2. LIVE LOADS: THESE PODS ARE NOT DESIGNED TO SUPPORT THE WEIGHT OF ANY PERSONS ON THE LID OF THE POD; NO LIVE LOADS ARE USED. WALL AND CEILING FRAMING COMPLIES WITH 2019 CBC SECTION 1607.15 MINIMUM DESIGN PRESSURE OF 5 PSF.

3. WIND LOADS: THESE PODS ARE PERMITTED FOR INTERNAL INSTALLATIONS ONLY, NO WIND LOADS.

4. SEISMIC LOADS: PODS ARE DESIGNED TO COMPLY WITH THE "SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS OF ASCE 7-16 CHAPTER 13, USING THE FOLLOWING PARAMETERS:

   - SHORT-PERIOD SPECTRAL ACCELERATION, Sds = fill in for this project
   - COMPONENT IMPORTANCE FACTOR, Ip = fill in for this project
   - COMPONENT ACCELERATION FACTOR, ap = 2.5
   - COMPONENT RESPONSE MODIFICATION FACTOR, Rp = 3.5
   - OPERATING WEIGHT OF THIS POD, W = fill in for this project

STRUCTURAL ENGINEER OF RECORD (SEOR):

THESE PODS WILL IMPOSE VERTICAL DEAD LOAD REACTIONS AND SEISMIC OVER-TURNING FORCES ON THE SUPPORTING FLOOR STRUCTURE, AND IT IS THE STRUCTURAL ENGINEER OF RECORD'S (SEOR'S) RESPONSIBILITY TO CONFIRM THAT THE SUPPORTING FLOOR STRUCTURE AND ALL ASSOCIATED MEMBERS AND CONNECTIONS IN THE LOAD PATH CAN SUPPORT THESE LOADS IN ADDITION TO ALL OTHER LOADS IMPOSED ON THE FLOOR STRUCTURE. THE TOTAL OPERATING WEIGHT OF THE POD IS LISTED IN THE "STRUCTURAL BASIS OF DESIGN" PRESENTED ABOVE. THE LOCATION OF DEVICES ANCHORING THE POD TO THE FLOOR STUCTURE ARE SHOWN ON THE "SHEAR WALL KEY PLAN" INCLUDED WITH THIS SUBMITTAL. THE "ANCHORAGE FORCE", DEFINED AS 2.5 TIMES THE LRFD NET UPLIFT PER ASCE7-16 SECTION 12.4.2.3 EQUATION 6 IS fill in for this project

Figure 5.0.2.4

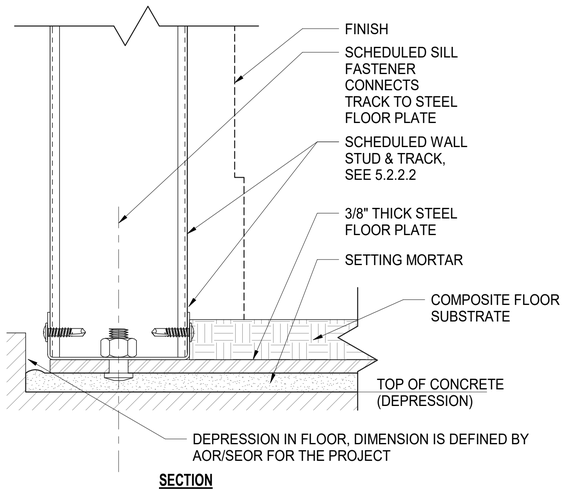


Figure 5.2.1

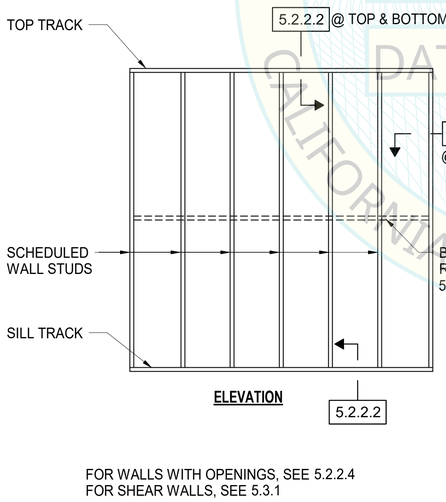


Figure 5.2.2.1

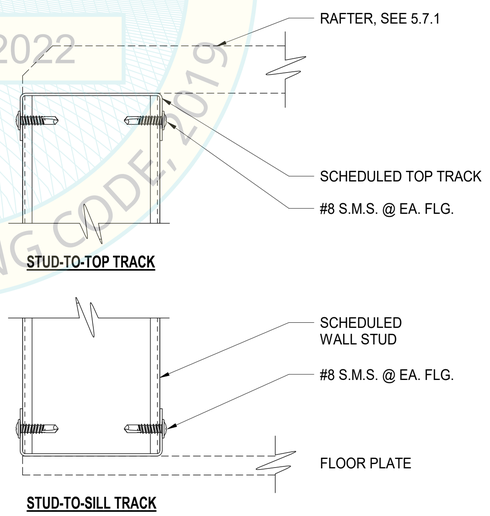


Figure 5.2.2.2

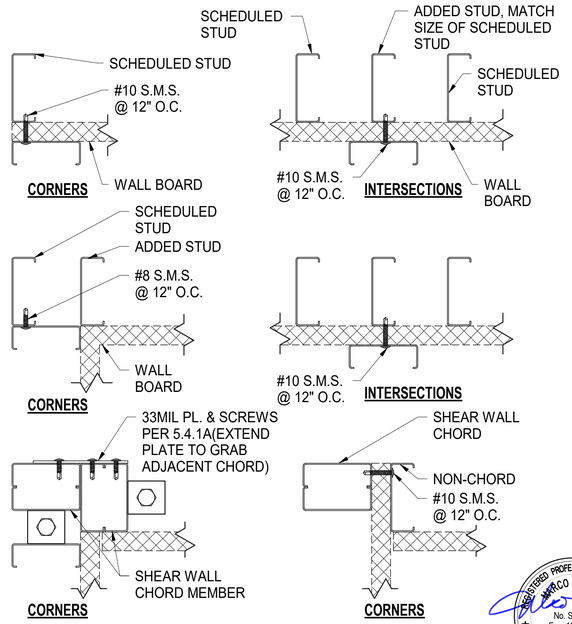
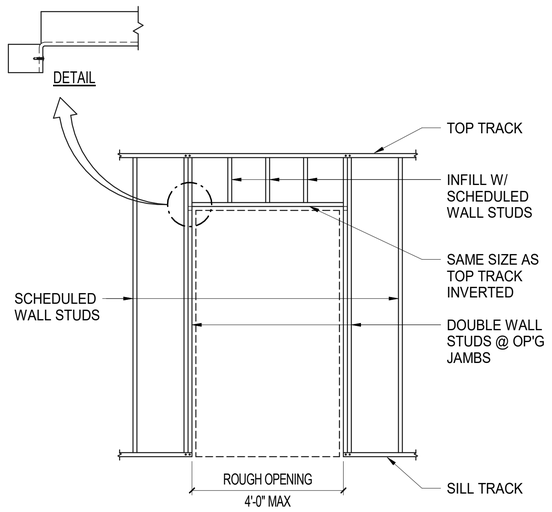


Figure 5.2.2.3

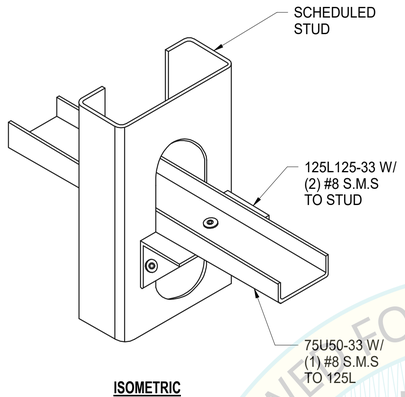
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Exp. 12/31/22
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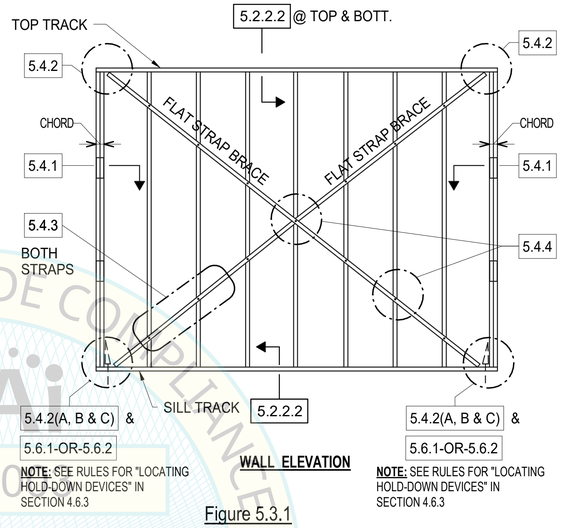
WALL ELEVATION

Figure 5.2.2.4



ISOMETRIC

Figure 5.2.2.5

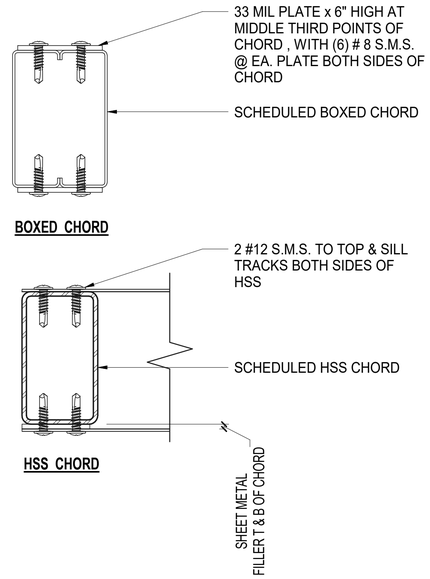


NOTE: SEE RULES FOR "LOCATING HOLD-DOWN DEVICES" IN SECTION 4.6.3

WALL ELEVATION

NOTE: SEE RULES FOR "LOCATING HOLD-DOWN DEVICES" IN SECTION 4.6.3

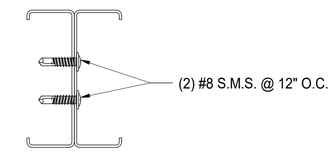
Figure 5.3.1



BOXED CHORD

HSS CHORD

Figure 5.4.1a



BACK-TO-BACK CHORD

NOTE: THIS CONFIGURATION CAN ONLY BE USED - IN LIEU OF BOXED CHORDS - IF ALLOWED BY TABLES 4.4.X.

Figure 5.4.1b

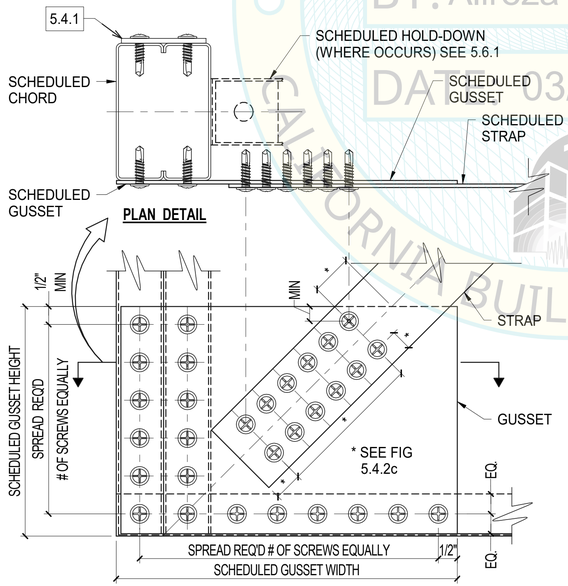
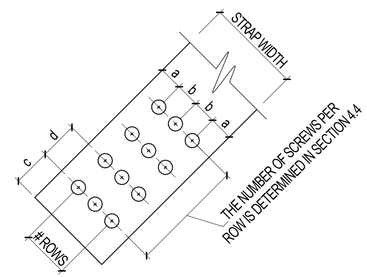


Figure 5.4.2a

RULES FOR FLAT STRAP BRACE CONNECTION

1. THE STRAP CENTERLINE SHALL RUN FROM WORK POINTS AT EACH END OF THE BRACE.
2. LOCATE BRACE WORK POINTS AT THE CENTERLINE OF THE CHORD STUD, AT TOP OF TOP TRACK AND AT BOTTOM OF SILL TRACK.
3. CUT THE STRAP SUCH THAT IT DOES NOT OVERLAP EITHER THE CHORD STUD NOR THE TOP OR SILL TRACK.
4. LAYOUT SCREWS 1) MINDING THE MINIMUM EDGE DISTANCES SHOWN ON THE DETAIL, 2) WITH UNIFORM SPACING BETWEEN ROWS, 3) ALWAYS PARALLEL TO THE MEMBER (EXCEPT GUSSET) & 4) WITH A MINIMUM SPACING AS SHOWN ON THE DETAIL.
5. INSTALL GUSSETS FIRST, COMPLETING ALL SCREW CONNECTIONS TO THE CHORDS & TRACKS. THEN CONNECT ONE END OF THE FLAT STRAP BRACE TO A GUSSET. THEN TENSION THE STRAP (SEE 5.4.3) BEFORE FASTENING THE OTHER END OF THE STRAP.
6. A SCHEMATIC CARTOON OF THE CONNECTION GEOMETRY & CREW LAYOUT IS PROVIDED IN SECTION 4.4 OF THE MANUAL. USE THIS CARTOON AS A LAYOUT GUIDE.
7. MINIMUM SCREW EDGE DISTANCES & SPACING VARY. FOR STRAP-TO-GUSSET SCREW LAYOUT, COMPLY WITH FIGURE 5.4.2c. FOR GUSSET-TO-CHORD AND FOR GUSSET-TO-TRACK SCREW LAYOUT, COMPLY WITH FIGURE 5.4.2a.

Figure 5.4.2.b



MINIMUM EDGE DISTANCE & SPACING REQUIREMENTS

STRAP WIDTH	# ROWS	a	b	c	d
1.00"	1	0.5"	n/a	0.75"	0.60"
1.50"	2	0.5"	0.5"	0.75"	0.60"
2.00"	2	0.625"	0.75"	1.00"	0.60"
2.50"	3	0.625"	0.625"	1.00"	1.00"
3.00"	4	0.60"	0.60"	1.00"	1.125"
4.00"	5	0.60"	0.70"	1.00"	1.375"
5.00"	6	0.625"	0.75"	1.125"	1.50"
6.00"	7	0.75"	0.75"	1.00"	1.75"

Figure 5.4.2c

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BY: Alireza Asgari
DATE: 03/21/2022
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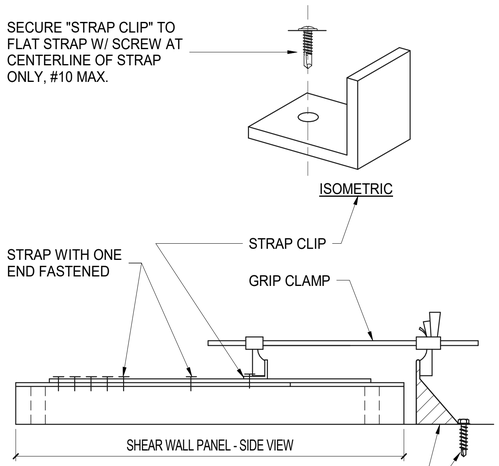


Figure 5.4.3

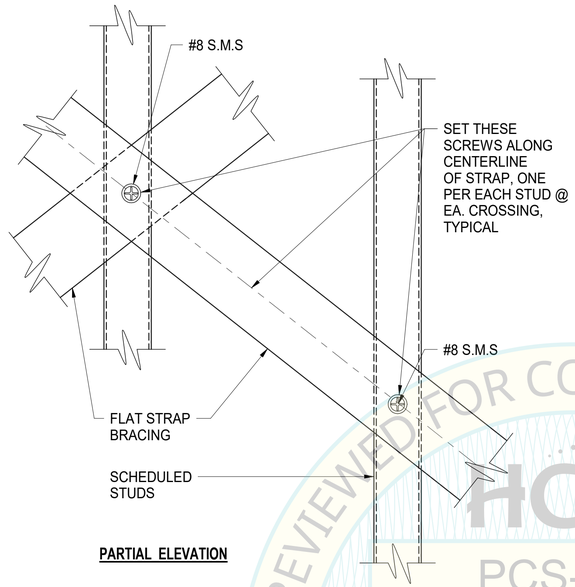


Figure 5.4.4

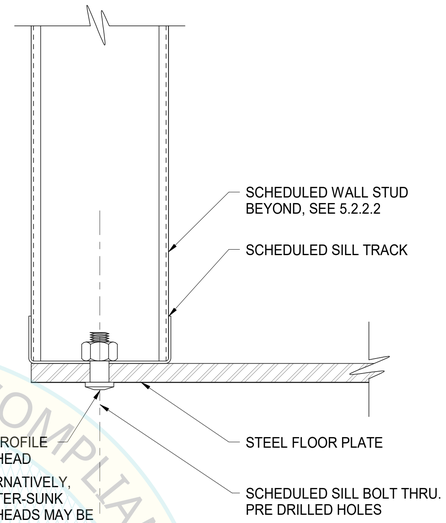


Figure 5.5.1

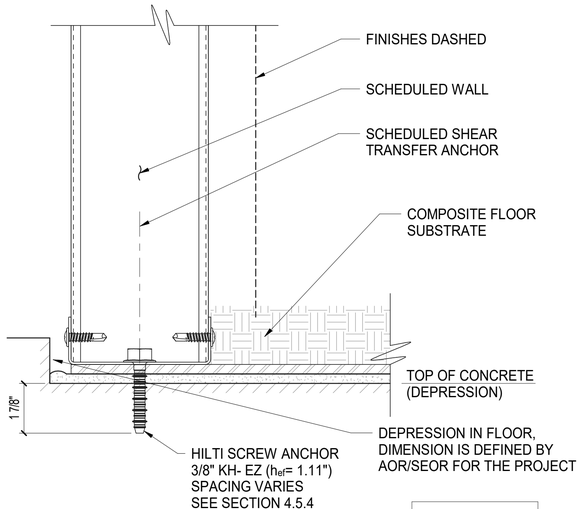


Figure 5.5.2

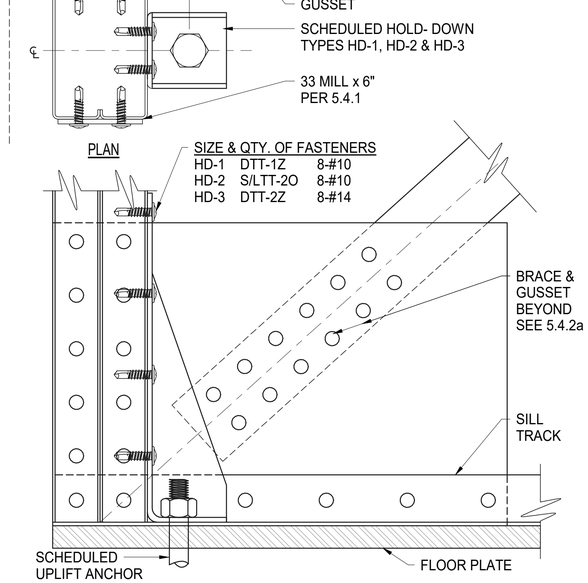


Figure 5.6.1

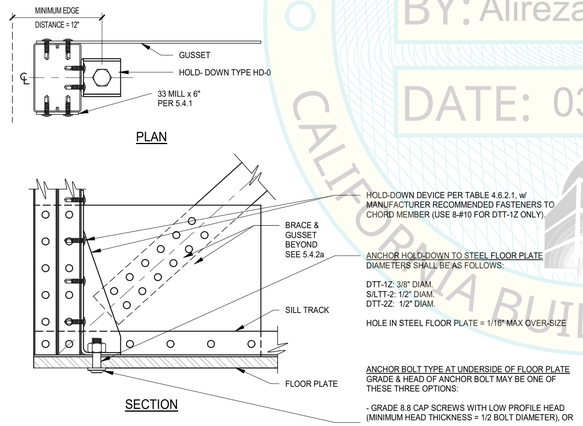
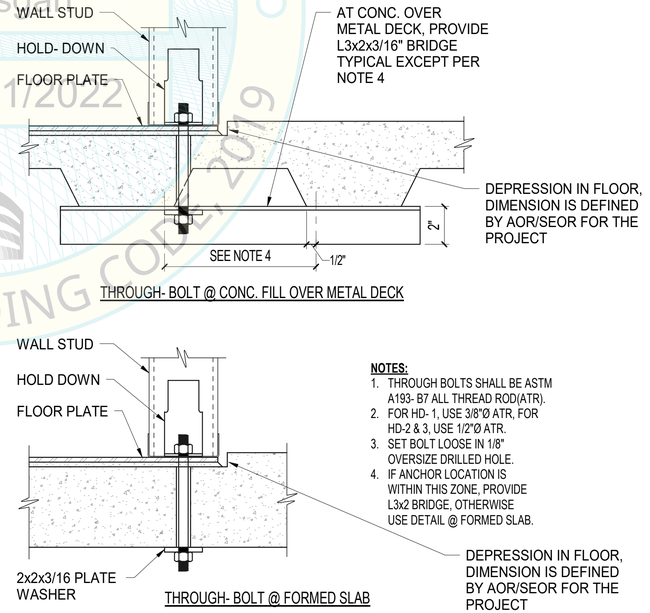


Figure 5.6.2



NOTES:
1. THROUGH BOLTS SHALL BE ASTM A193- B7 ALL THREAD ROD(ATR).
2. FOR HD- 1, USE 3/8"Ø ATR, FOR HD-2 & 3, USE 1/2"Ø ATR.
3. SET BOLT LOOSE IN 1/8" OVERSIZE DRILLED HOLE.
4. IF ANCHOR LOCATION IS WITHIN THIS ZONE, PROVIDE L3x2 BRIDGE, OTHERWISE USE DETAIL @ FORMED SLAB.

Figure 5.6.5.1

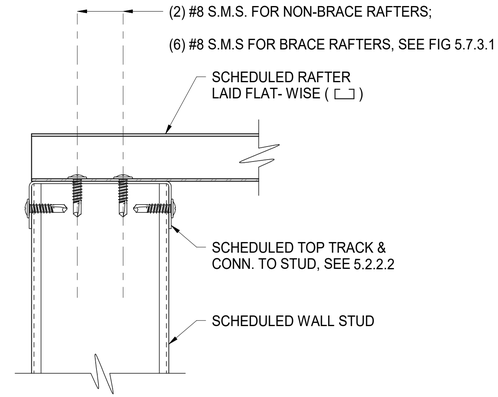


Figure 5.7.1

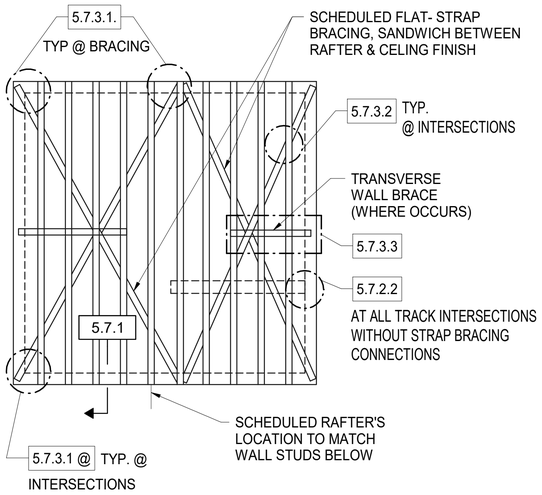
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REGISTERED PROFESSIONAL ENGINEER MARCO SCALISE No. S4454 Exp. 12/31/22 STRUCTURAL STATE OF CALIFORNIA

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SurePods

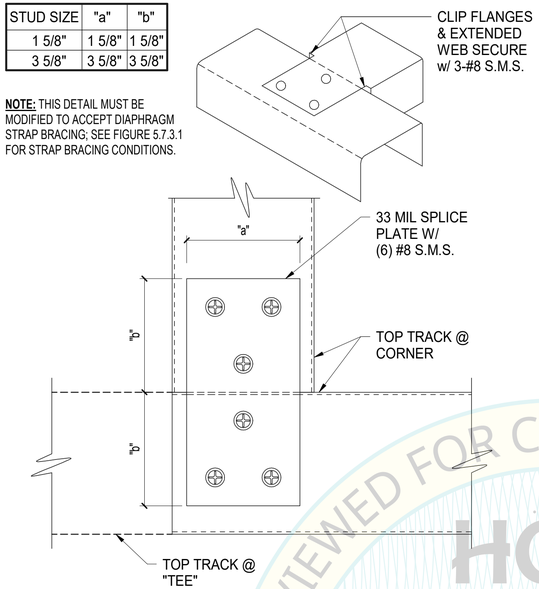


LAYOUT OF FLAT- STRAP BRACING SHALL COMPLY WITH MANUAL SECTION 3.6

Figure 5.7.2.1

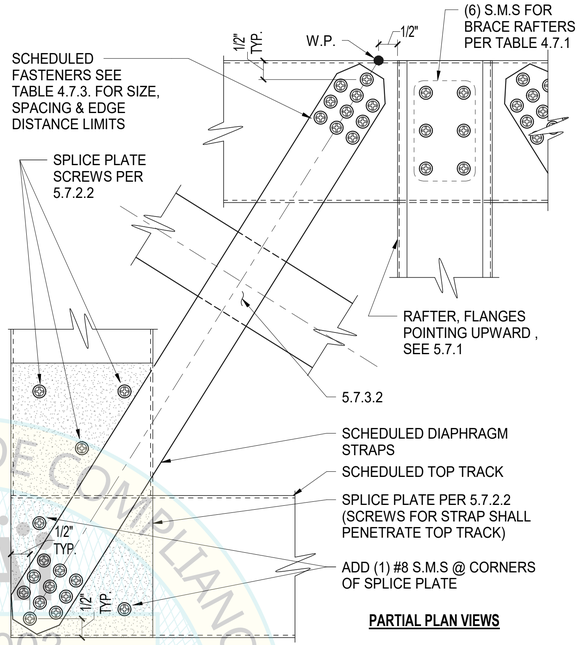
STUD SIZE	"a"	"b"
1 5/8"	1 5/8"	1 5/8"
3 5/8"	3 5/8"	3 5/8"

NOTE: THIS DETAIL MUST BE MODIFIED TO ACCEPT DIAPHRAGM STRAP BRACING; SEE FIGURE 5.7.3.1 FOR STRAP BRACING CONDITIONS.



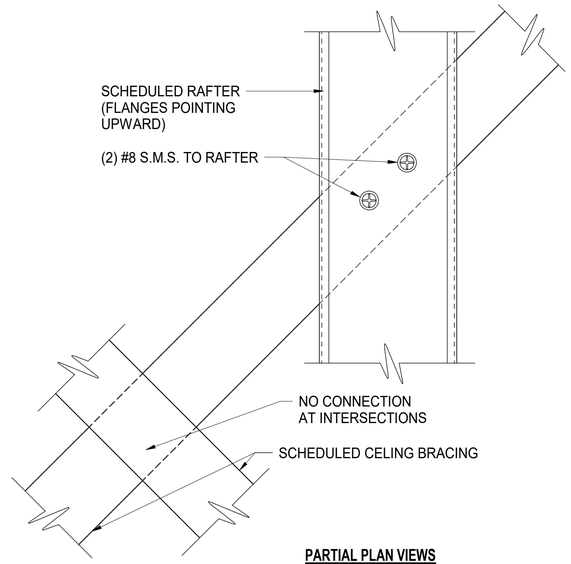
PLAN DETAIL @TOP TRACK

Figure 5.7.2.2



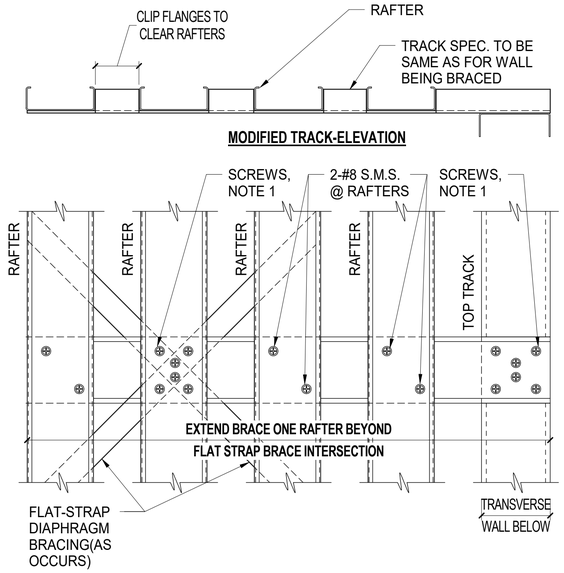
PARTIAL PLAN VIEWS

Figure 5.7.3.1



PARTIAL PLAN VIEWS

Figure 5.7.3.2



NOTE 1: PROVIDE 6 SCREWS, SAME SIZE AS TABLE 4.7.1, SCREWS SHALL PENETRATE FLAT STRAP BRACING @ INTERSECTION, AND WALL TRACK AT OPPOSITE END.

Figure 5.7.3.3

REVIEWED FOR CODE COMPLIANCE
HCAI
PCS-0003
BY: Alireza Asgari
DATE: 03/21/2022
CALIFORNIA BUILDING CODE, 2019



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