



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD PREAPPROVAL OF
MANUFACTURER'S CERTIFICATION (OPM)

OFFICE USE ONLY

APPLICATION #: OPM-0426

OSHPD Preapproval of Manufacturer's Certification (OPM)

Type: [] New [X] Renewal/Update

Manufacturer Information

Manufacturer: Intermetro Industries

Manufacturer's Technical Representative: Willard Sickles

Mailing Address: 651 N. Washington St., Wilkes-Barre, PA 18705

Telephone: (570) 706-3121 Email: Bill.Sickles@metro.com

Product Information

Product Name: FREE STANDING, FLOOR ANCHORED, ADJUSTABLE SHELVING SYSTEM

Product Type: "Super Erecta" Family wire and solid shelving and "MetroMax Q" and "MetroMax i" shelving

Product Model Number: A

General Description: FREE STANDING, FLOOR ANCHORED, ADJUSTABLE SHELVING SYSTEM

Applicant Information

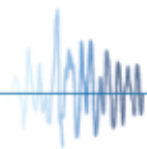
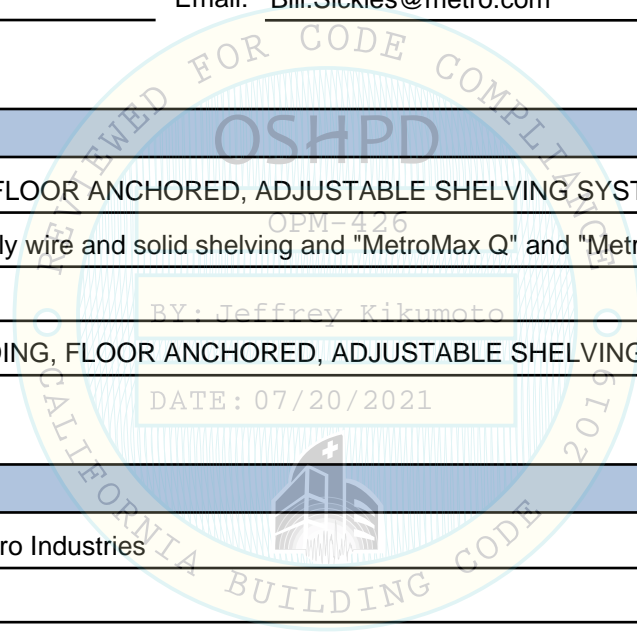
Applicant Company Name: Intermetro Industries

Contact Person: Willard Sickles

Mailing Address: 651 N. Washington St., Wilkes-Barre, PA 18705

Telephone: (570) 706-3121 Email: Bill.Sickles@metro.com

Title: Manager Product Safety





**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

Registered Design Professional Preparing Engineering Recommendations

Company Name: BROOKS RANSOM ASSOCIATES
Name: Klare Yavasile California License Number: S2488
Mailing Address: 7415 North Palm, Suite 100, Fresno, CA 93711
Telephone: (559) 449-8444 Email: klare@brooksransom.com

OSHPD Special Seismic Certification Preapproval (OSP)

Special Seismic Certification is preapproved under OSP OSP Number: _____

Certification Method

Testing in accordance with: ICC-ES AC156 FM 1950-16
 Other(s) (Please Specify): _____

*Use of criteria other than those adopted by the California Building Standards Code, 2019 (CBSC 2019) for component supports and attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic bracings, test criteria other than those adopted in the CBSC 2019 may be used when approved by OSHPD prior to testing.

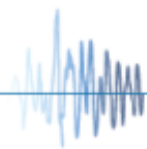
- Analysis
- Experience Data
- Combination of Testing, Analysis, and/or Experience Data (Please Specify): _____

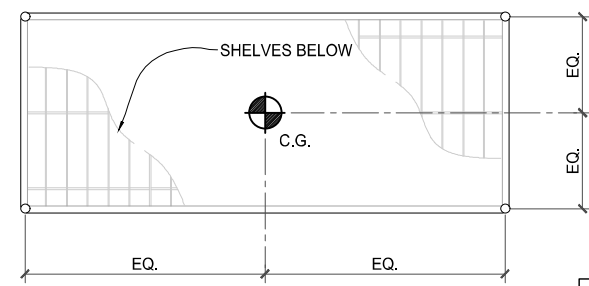
OSHPD Approval

Date: 7/20/2021
Name: Jeffrey Kikumoto Title: Senior Structural Engineer
Condition of Approval (if applicable): _____

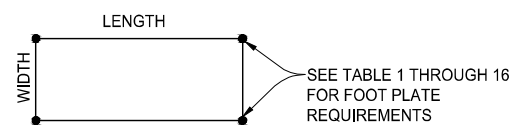
Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

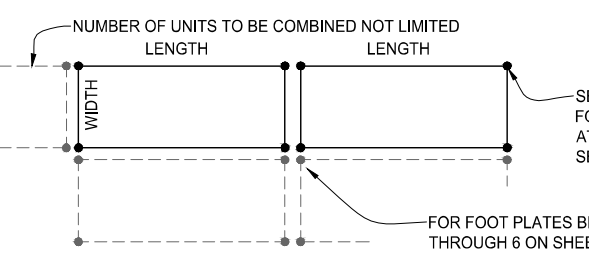




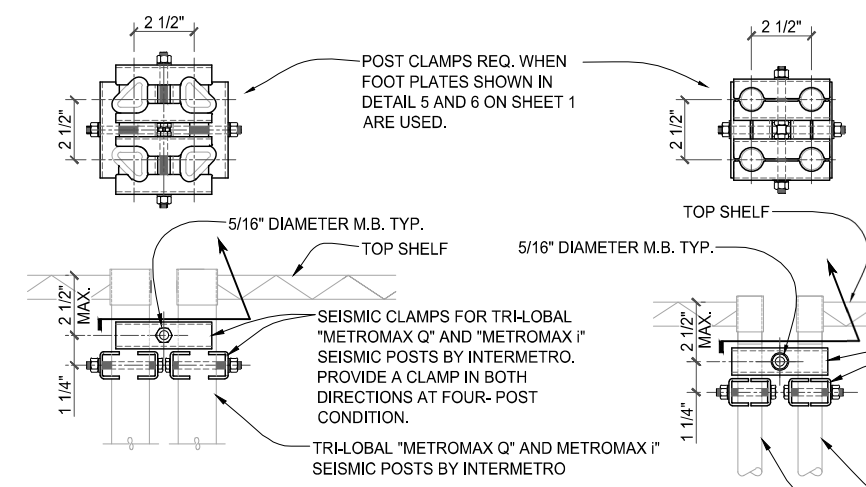
11 TOP PLAN VIEW
SCALE: 1"=1'-0"



TYPICAL "STAND ALONE" UNIT
SCALE: N.T.S.



TYP. "MULTIPLE" UNIT SUPPORT AND ATTACHMENTS
SCALE: N.T.S.

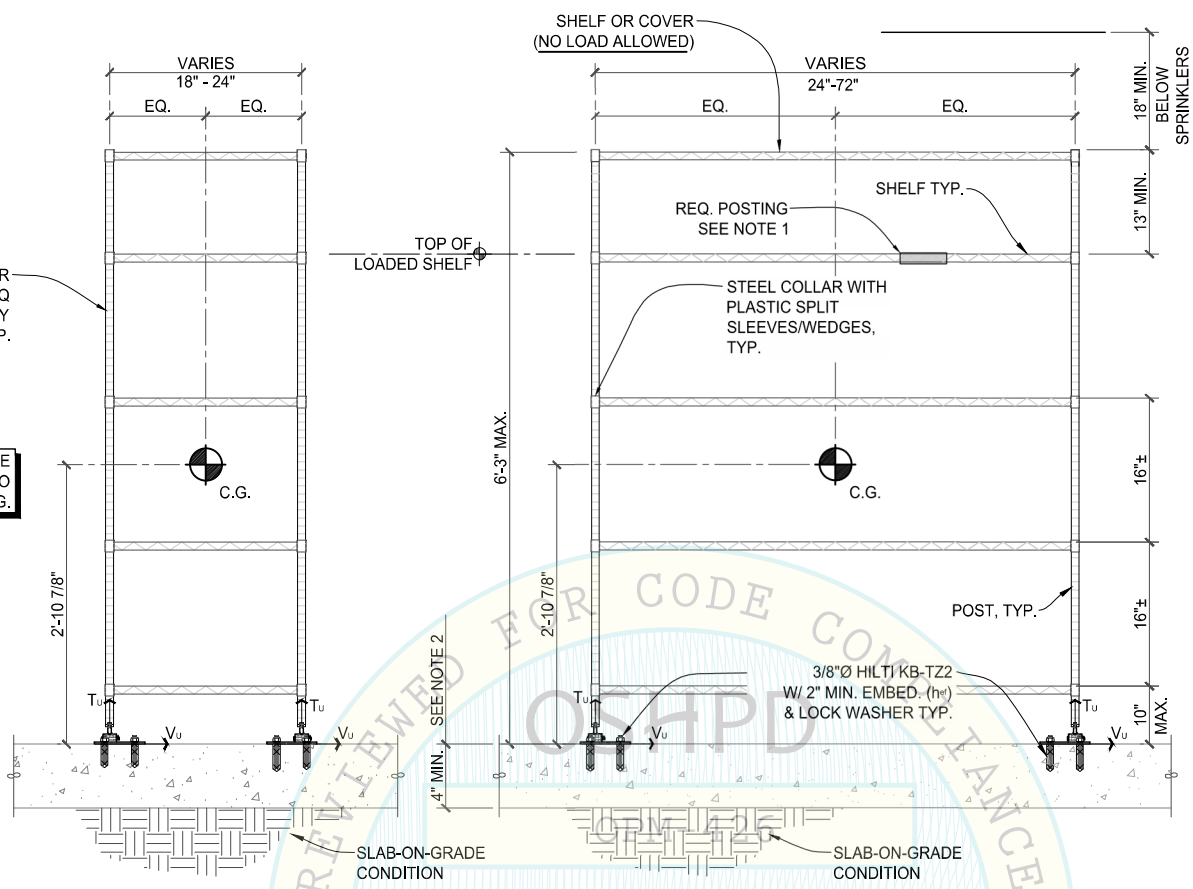


12 SEISMIC POST CLAMPS
SCALE: 3/8"=1'-0"

CLAMPS TO BE FABRICATED FROM 0.105" COLD ROLLED STEEL SHEET METAL PER ASTM A1008-20 CS TYPE B (Fy = 20 KSI MIN) OR ASTM A249 304 STAINLESS STEEL.

SUPER ERECTA 1" DIAMETER POSTS OR METROMAX Q TRILOBAL POSTS BY INTERMETRO TYP.

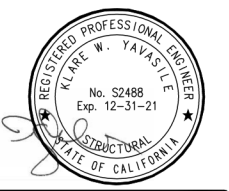
METRO "SEISMIC" POSTS ARE REQUIRED. CONTACT YOUR METRO REPRESENTATIVE FOR ORDERING.



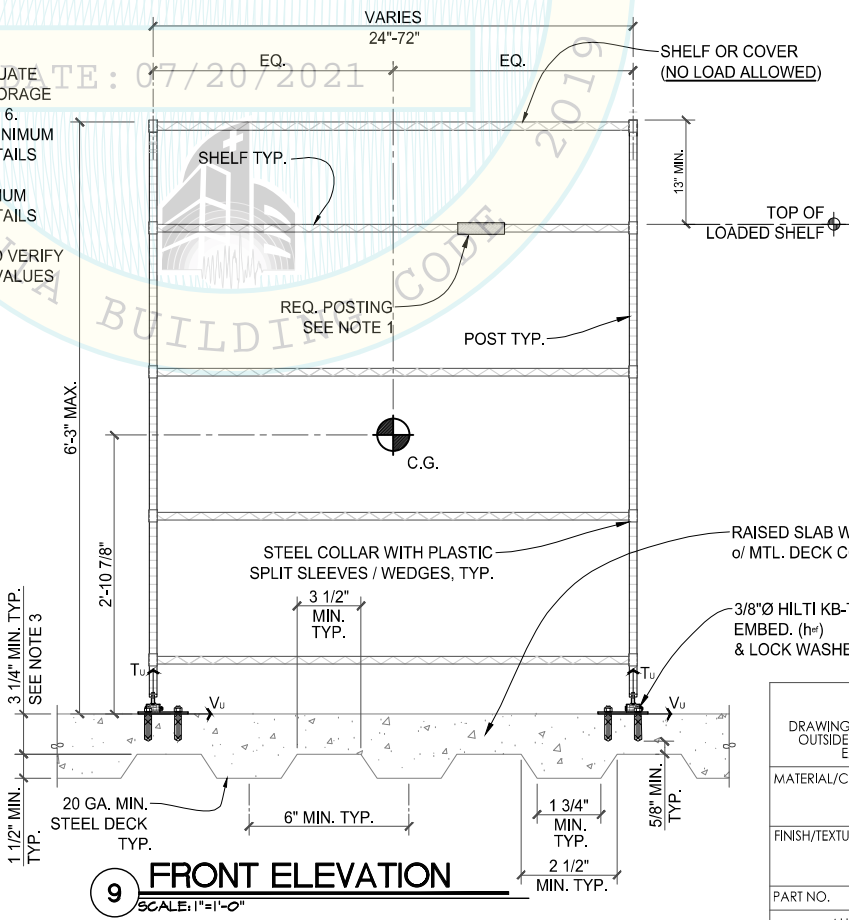
10 SIDE ELEVATION
SCALE: 1"=1'-0"

8 FRONT ELEVATION
SCALE: 1"=1'-0"

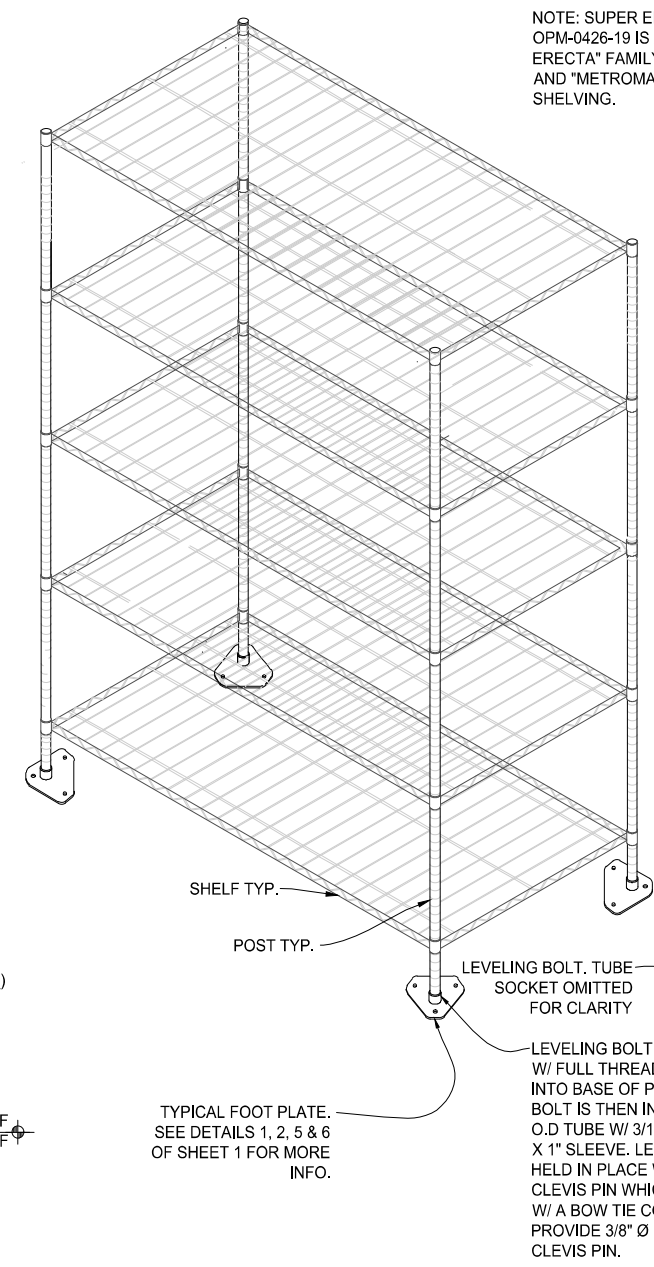
- RESPONSIBILITIES OF SEOR:
1. VERIFY THE EXISTING STRUCTURE IS ADEQUATE TO SUPPORT THE SHELVES AND THE ANCHORAGE FORCES AS NOTED ON SHEETS 3 THROUGH 6.
 2. VERIFY THE SLAB-ON-GRADE MEETS THE MINIMUM STANDARDS NOTED ON THE ATTACHED DETAILS AND SPECIFICATIONS.
 3. VERIFY THE RAISED SLABS MEET THE MINIMUM STANDARDS NOTED ON THE ATTACHED DETAILS AND SPECIFICATIONS.
 4. ESTABLISH THE S₀₅ VALUE TO BE USED, AND VERIFY THE S₀₅ VALUE DOES NOT EXCEED THE S₀₅ VALUES LISTED ON SHEET 1.



BROOKS RANSOM ASSOCIATES
STRUCTURAL ENGINEERS
7415 N. PALM AVE., SUITE 100
FRESNO, CALIFORNIA 93711



9 FRONT ELEVATION
SCALE: 1"=1'-0"



7 ISOMETRIC VIEW
SCALE: N.T.S.

- NOTES:
1. SHELF LOADING IS LIMITED TO 20 PSF BASED ON 4 LOADED SHELVES, AND NO LOADING ALLOWED ON TOP SHELF/COVER. POSTING OF MAXIMUM SHELF LOADING REQUIRED. SEE FRONT ELEVATION FOR LOCATION. FOR GREATER OR LESSER AMOUNTS THAN 4 LOADED SHELVES, THE 20 PSF MUST BE PROPORTIONALLY ADJUSTED. EVENLY SPACED SHELVING WILL ENSURE THE CENTER OF GRAVITY DOES NOT INCREASE. EXAMPLES:
 - 1.1. FOR FIVE LOADED SHELVES, LOAD IS 4/5 x 20 PSF = 16 PSF
 - 1.2. FOR THREE LOADED SHELVES, LOAD IS 4/3 x 20 PSF = 27 PSF
 2. CONCRETE THICKNESS MUST BE 4" TO ACCOMMODATE 3/8" HILTI KB-T22 FOR CONC. SLAB-ON-GRADE. SEE DTL. 8 & 10 THIS SHEET.
 3. CONCRETE THICKNESS MUST BE 3 1/4" ABOVE FLUTES TO ACCOMMODATE 3/8" HILTI KB-T22 FOR SLAB ABOVE GRADE. SEE DTL. 9 THIS SHEET.

MATERIAL/COLOR		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES		APPROVALS // DATE	
FINISH/TEXTURE		TOLERANCES ARE: DECIMALS FRACTIONS ANGLES		DWN	SOC // 08-31-20
PART NO.		SOLIDWORKS CAD FILE: Met_D_DWG_rev_P		CHK	SOC // 08-31-20
ALL SPECIFICATIONS PER PRODUCT DEVELOPMENT STANDARDS		MFG		PD	-

TITLE: SEISMIC SUPPORT AND ATTACHMENTS FREE STANDING, FLOOR ANCHORED INTERMETRO SHELVING			
SIZE	SW DWG. NO.	SHT.	REV. VER.
D	29897	2 OF 6	--
SCALE: AS NOTED		CAD GENERATED DRAWING DO NOT MANUALLY UPDATE. DO NOT SCALE DRAWING.	

NOTE: SUPER ERECTA WIRE SHELVING SHOWN. OPM-0426-19 IS APPLICABLE FOR "SUPER ERECTA" FAMILY WIRE AND SOLID SHELVING AND "METROMAX Q" AND METROMAX I" SHELVING.

Base Anchorage Requirement for Acceptable Anchorage Configurations at Various Story Locations for Shelving Lengths Shown Normal Weight Concrete Only

Table 1
24 inch Long Shelving
20 psf shelf Loading^{2,3,4,5}

SHELF WIDTH	STORY RATIO ¹ : (IS-1)/TSG					
	= 0.0	≤ 0.2	≤ 0.4	≤ 0.6	≤ 0.8	≤ 1.0
<i>S_{ps} ≤ 0.73</i>						
18	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT
21	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT
24	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT
<i>S_{ps} ≤ 1.33</i>						
18	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT
21	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT
24	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT
<i>S_{ps} ≤ 1.83</i>						
18	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT	3 BOLT
21	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT	3 BOLT
24	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT	3 BOLT

Table 3
36 inch Long Shelving
20 psf shelf Loading^{2,3,4,5}

SHELF WIDTH	STORY RATIO ¹ : (IS-1)/TSG					
	= 0.0	≤ 0.2	≤ 0.4	≤ 0.6	≤ 0.8	≤ 1.0
<i>S_{ps} ≤ 0.73</i>						
18	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT
21	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT
24	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT
<i>S_{ps} ≤ 1.33</i>						
18	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT
21	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT
24	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT
<i>S_{ps} ≤ 1.83</i>						
18	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT
21	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT
24	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT

Normal Weight Concrete Only

MAXIMUM LOAD TO BE RESISTED BY THE NOTED FOOT PLATES AND INDIVIDUAL ANCHORS

	2-BOLT	3-BOLT	4-BOLT	5-BOLT	6-BOLT
TU MAX. / FOOT PLATE (Kips)	0.527	0.995	1.320	1.358	1.088
VU MAX. / FOOT PLATE (Kips)	0.272	0.438	0.584	0.702	1.404
TU MAX. / ANCHOR (Kips)	1.049	1.143	0.947	0.946	1.085
VU MAX. / ANCHOR (Kips)	0.174	0.392	0.311	0.251	0.317

1. THE ABOVE NOTED LOADS INCLUDE THE OVERSTRENGTH FACTOR (Ω_o) OF 2.0.
2. THE LOADS FOR THE 5-BOLT AND 6-BOLT FOOT PLATES ARE THE RESULTANT OF THE SUMMATION OF THE REACTIONS FROM THE MULTIPLE POSTS SUPPORTED BY THE RESPECTIVE FOOT PLATES.

Table 2
30 inch Long Shelving
20 psf shelf Loading^{2,3,4,5}

SHELF WIDTH	STORY RATIO ¹ : (IS-1)/TSG					
	= 0.0	≤ 0.2	≤ 0.4	≤ 0.6	≤ 0.8	≤ 1.0
<i>S_{ps} ≤ 0.73</i>						
18	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT
21	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT
24	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT
<i>S_{ps} ≤ 1.33</i>						
18	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT
21	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT
24	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT
<i>S_{ps} ≤ 1.83</i>						
18	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT
21	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT
24	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT

Table 4
42 inch Long Shelving
20 psf shelf Loading^{2,3,4,5}

SHELF WIDTH	STORY RATIO ¹ : (IS-1)/TSG					
	= 0.0	≤ 0.2	≤ 0.4	≤ 0.6	≤ 0.8	≤ 1.0
<i>S_{ps} ≤ 0.73</i>						
18	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT
21	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT
24	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT
<i>S_{ps} ≤ 1.33</i>						
18	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT
21	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT
24	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT
<i>S_{ps} ≤ 1.83</i>						
18	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT
21	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT
24	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	N.G.

Normal Weight Concrete Only



- NOTES:**
- STORY RATIO FORMULA IS (IS-1)/TSG, OR (INSTALLATION STORY -1)/(TOTAL STORIES ABOVE GRADE)
WHERE:
-IS: INSTALLATION STORY - I.E. THE STORY UPON WHICH THE SHELVING IS TO BE LOCATED
-TSG: TOTAL STORIES ABOVE GRADE
- IF STORY RATIO IS NOT SHOWN, USE NEXT HIGHEST FIGURE.
- GROUND FLOOR PLUS ALL LEVELS BELOW GRADE ARE DEEMED TO BE ON FLOOR "1", I.E. STORY RATIO = 0.0
 - IN NO CASE SHALL THE INTERMETRO SHELF RATING BE EXCEEDED.
 - FOR END-TO-END CONDITION, A SIDE-BY-SIDE CONDITION OR A COMBINED END-TO-END WITH A SIDE-BY-SIDE CONDITION PROVIDE INDIVIDUAL FOOT PLATES AS DELINEATED IN DETAILS 3 AND 4 ON SHEET 1 UNLESS OTHERWISE NOTED. PROVIDE A MINIMUM SPACING BETWEEN ANCHORS OF 4" WHEN INDIVIDUAL FOOT PLATES ARE USED.
 - FOOT PLATES WITH MULTIPLE POSTS, SEE DETAILS 5 AND 6 ON SHEET 1, MAY BE USED IF SPECIFIED IN TABLES 1 THROUGH 16.
 - WHEN FOOT PLATES WITH MULTIPLE POSTS, AS REFERENCED IN DETAILS 5 & 6 ARE USED, THE POSTS AT THE TOP OF THE SHELVES MUST BE INTERCONNECTED WITH POST CLAMPS AS PER DETAIL 12 ON SHEET 2.

- LEGEND:**
- N.G.: NO GOOD. THERE IS NOT AN APPROVED FOOT PLATE FOR THIS CONDITION.
 - 2 BOLT: PROVIDE A FOOT PLATE AS PER DETAIL 1 ON SHEET 1.
 - 3 BOLT: PROVIDE A FOOT PLATE AS PER DETAIL 1 ON SHEET 1.
 - 4 BOLT: PROVIDE A FOOT PLATE AS PER DETAIL 2 ON SHEET 1.
 - : SHELVES MAY BE COMBINED FOR END-TO-END, SIDE-BY-SIDE, OR A COMBINATION OF BOTH CONDITIONS USING THE 5 BOLT FOOT PLATE AS PER DETAIL 5 ON SHEET 1 FOR A TWO-POST CONDITION, AND THE 6 BOLT FOOT PLATE AS PER DETAIL 6 ON SHEET 1 FOR A FOUR-POST CONDITION.

PROPRIETARY DRAWING IS NOT FOR USE OR DISCLOSURE OUTSIDE INTERMETRO INDUSTRIES CORP. EXCEPT WITH PERMISSION		THE DRAWING AND THE SUBJECT MATTER DEPICTED HEREIN ARE THE SOLE AND EXCLUSIVE PROPERTY OF INTERMETRO INDUSTRIES CORP. ALL RIGHTS WITH RESPECT TO THIS DRAWING AND THE SUBJECT MATTER DEPICTED HEREIN ARE EXPRESSLY RESERVED AND WITHHELD BY INTERMETRO INDUSTRIES CORP.		InterMetro Industries Corp. North Washington Street Wilkes-Barre, PA 18705 www.metro.com	
MATERIAL/COLOR	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES	APPROVALS // DATE	TITLE: SEISMIC SUPPORT AND ATTACHMENTS FREE STANDING, FLOOR ANCHORED INTERMETRO SHELVING		
FINISH/TEXTURE	TOLERANCES ARE: DECIMALS FRACTIONS ANGLES	DWN SOC // 08-31-20	SIZE	SW DWG. NO.	SHT.
PART NO.	SOLIDWORKS CAD FILE: Met_D_DWG_rev_P	CHK SOC // 08-31-20	D	29897	3 OF 6
ALL SPECIFICATIONS PER PRODUCT DEVELOPMENT STANDARDS			SCALE:	AS NOTED	CAD GENERATED DRAWING DO NOT MANUALLY UPDATE DO NOT SCALE DRAWING.

Base Anchorage Requirement for Acceptable Anchorage Configurations at Various Story Locations for Shelving Lengths Shown Normal Weight Concrete Only

Table 5
48 inch Long Shelving
20 psf shelf Loading^{2,3,4,5}

SHELF WIDTH	STORY RATIO ¹ : (IS-1)/TSG					
	= 0.0	≤ 0.2	≤ 0.4	≤ 0.6	≤ 0.8	≤ 1.0
<i>S_{ps} ≤ 0.73</i>						
18	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT
21	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT
24	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT
<i>S_{ps} ≤ 1.33</i>						
18	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT
21	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT
24	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT
<i>S_{ps} ≤ 1.83</i>						
18	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT	N.G.
21	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT	N.G.
24	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT	N.G.

Table 7
60 inch Long Shelving
20 psf shelf Loading^{2,3,4,5}

SHELF WIDTH	STORY RATIO ¹ : (IS-1)/TSG					
	= 0.0	≤ 0.2	≤ 0.4	≤ 0.6	≤ 0.8	≤ 1.0
<i>S_{ps} ≤ 0.73</i>						
18	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT
21	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT
24	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT
<i>S_{ps} ≤ 1.33</i>						
18	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT
21	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT
24	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT
<i>S_{ps} ≤ 1.83</i>						
18	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.
21	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.
24	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.

Normal Weight Concrete Only

MAXIMUM LOAD TO BE RESISTED BY THE NOTED FOOT PLATES
AND INDIVIDUAL ANCHORS

	2-BOLT	3-BOLT	4-BOLT	5-BOLT	6-BOLT
TU MAX. / FOOT PLATE (Kips)	0.527	0.995	1.320	1.358	1.088
VU MAX. / FOOT PLATE (Kips)	0.272	0.438	0.584	0.702	1.404
TU MAX. / ANCHOR (Kips)	1.049	1.143	0.947	0.946	1.085
VU MAX. / ANCHOR (Kips)	0.174	0.392	0.311	0.251	0.317

1. THE ABOVE NOTED LOADS INCLUDE THE OVERSTRENGTH FACTOR (Ω_p) OF 2.0.
2. THE LOADS FOR THE 5-BOLT AND 6-BOLT FOOT PLATES ARE THE RESULTANT OF THE SUMMATION OF THE REACTIONS FROM THE MULTIPLE POSTS SUPPORTED BY THE RESPECTIVE FOOT PLATES.

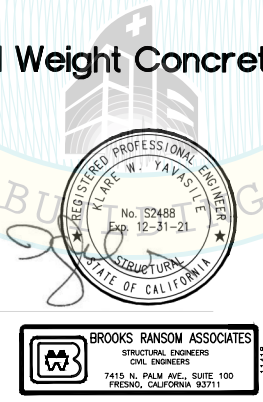
Table 6
54 inch Long Shelving
20 psf shelf Loading^{2,3,4,5}

SHELF WIDTH	STORY RATIO ¹ : (IS-1)/TSG					
	= 0.0	≤ 0.2	≤ 0.4	≤ 0.6	≤ 0.8	≤ 1.0
<i>S_{ps} ≤ 0.73</i>						
18	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT
21	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT
24	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT
<i>S_{ps} ≤ 1.33</i>						
18	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT
21	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT
24	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT
<i>S_{ps} ≤ 1.83</i>						
18	3 BOLT	3 BOLT	3 BOLT	4 BOLT	N.G.	N.G.
21	3 BOLT	3 BOLT	3 BOLT	4 BOLT	N.G.	N.G.
24	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.

Table 8
72 inch Long Shelving
20 psf shelf Loading^{2,3,4,5}

SHELF WIDTH	STORY RATIO ¹ : (IS-1)/TSG					
	= 0.0	≤ 0.2	≤ 0.4	≤ 0.6	≤ 0.8	≤ 1.0
<i>S_{ps} ≤ 0.73</i>						
18	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT
21	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT
24	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT
<i>S_{ps} ≤ 1.33</i>						
18	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT	N.G.
21	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT	N.G.
24	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT	N.G.
<i>S_{ps} ≤ 1.83</i>						
18	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.	N.G.
21	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.	N.G.
24	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.	N.G.

Normal Weight Concrete Only



- NOTES:
- STORY RATIO FORMULA IS (IS-1)/TSG, OR (INSTALLATION STORY -1)/(TOTAL STORIES ABOVE GRADE)
WHERE:
-IS: INSTALLATION STORY - I.E. THE STORY UPON WHICH THE SHELVING IS TO BE LOCATED
-TSG: TOTAL STORIES ABOVE GRADE
-IF STORY RATIO IS NOT SHOWN, USE NEXT HIGHEST FIGURE.
-GROUND FLOOR PLUS ALL LEVELS BELOW GRADE ARE DEEMED TO BE ON FLOOR "1", I.E. STORY RATIO = 0.0
 - IN NO CASE SHALL THE INTERMETRO SHELF RATING BE EXCEEDED.
 - FOR END-TO-END CONDITION, A SIDE-BY-SIDE CONDITION OR A COMBINED END-TO-END WITH A SIDE-BY-SIDE CONDITION PROVIDE INDIVIDUAL FOOT PLATES AS DELINEATED IN DETAILS 3 AND 4 ON SHEET 1 UNLESS OTHERWISE NOTED. PROVIDE A MINIMUM SPACING BETWEEN ANCHORS OF 4" WHEN INDIVIDUAL FOOT PLATES ARE USED.
 - FOOT PLATES WITH MULTIPLE POSTS, SEE DETAILS 5 AND 6 ON SHEET 1, MAY BE USED IF SPECIFIED IN TABLES 1 THROUGH 16.
 - WHEN FOOT PLATES WITH MULTIPLE POSTS, AS REFERENCED IN DETAILS 5 & 6 ARE USED, THE POSTS AT THE TOP OF THE SHELVES MUST BE INTERCONNECTED WITH POST CLAMPS AS PER DETAIL 12 ON SHEET 2.

- LEGEND:
- N.G.: NO GOOD. THERE IS NOT AN APPROVED FOOT PLATE FOR THIS CONDITION.
- 2 BOLT: PROVIDE A FOOT PLATE AS PER DETAIL 1 ON SHEET 1.
- 3 BOLT: PROVIDE A FOOT PLATE AS PER DETAIL 1 ON SHEET 1.
- 4 BOLT: PROVIDE A FOOT PLATE AS PER DETAIL 2 ON SHEET 1.
- : SHELVES MAY BE COMBINED FOR END-TO-END, SIDE-BY-SIDE, OR A COMBINATION OF BOTH CONDITIONS USING THE 5 BOLT FOOT PLATE AS PER DETAIL 5 ON SHEET 1 FOR A TWO-POST CONDITION, AND THE 6 BOLT FOOT PLATE AS PER DETAIL 6 ON SHEET 1 FOR A FOUR-POST CONDITION.

PROPRIETARY DRAWING IS NOT FOR USE OR DISCLOSURE OUTSIDE INTERMETRO INDUSTRIES CORP. EXCEPT WITH PERMISSION		THE DRAWING AND THE SUBJECT MATTER DEPICTED HEREIN ARE THE SOLE AND EXCLUSIVE PROPERTY OF INTERMETRO INDUSTRIES CORP. ALL RIGHTS WITH RESPECT TO THIS DRAWING AND THE SUBJECT MATTER REFERENCED HEREIN ARE EXPRESSLY RESERVED AND WITHHELD BY INTERMETRO INDUSTRIES CORP.		InterMetro Industries Corp. North Washington Street Wilkes-Barre, PA 18705 www.metro.com	
MATERIAL/COLOR	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES	APPROVALS // DATE		TITLE: SEISMIC SUPPORT AND ATTACHMENTS FREE STANDING, FLOOR ANCHORED INTERMETRO SHELVING	
FINISH/TEXTURE	TOLERANCES ARE: DECIMALS FRACTIONS ANGLES	DWN	SOC // 08-31-20		SIZE: SW DWG. NO. D 29897
PART NO.	SOLIDWORKS CAD FILE: Met_D_DWG_rev_P	CHK	SOC // 08-31-20		SHT. 4 OF 6
ALL SPECIFICATIONS PER PRODUCT DEVELOPMENT STANDARDS		PD	-		REV. VER. --
		MFG			SCALE: AS NOTED
				CAD GENERATED DRAWING DO NOT MANUALLY UPDATE DO NOT SCALE DRAWING.	

Base Anchorage Requirement for Acceptable Anchorage Configurations at Various Story Locations for Shelving Lengths Shown Sand-Light Weight Concrete

Table 9
24 inch Long Shelving
20 psf shelf Loading^{2,3,4,5}

SHELF WIDTH	STORY RATIO ¹ : (IS-1)/TSG					
	= 0.0	≤ 0.2	≤ 0.4	≤ 0.6	≤ 0.8	≤ 1.0
<i>S_{ps} ≤ 0.73</i>						
18	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT
21	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT
24	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT
<i>S_{ps} ≤ 1.33</i>						
18	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT
21	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT	3 BOLT
24	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT	3 BOLT
<i>S_{ps} ≤ 1.83</i>						
18	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT
21	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT
24	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT	4 BOLT

Table 11
36 inch Long Shelving
20 psf shelf Loading^{2,3,4,5}

SHELF WIDTH	STORY RATIO ¹ : (IS-1)/TSG					
	= 0.0	≤ 0.2	≤ 0.4	≤ 0.6	≤ 0.8	≤ 1.0
<i>S_{ps} ≤ 0.73</i>						
18	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT
21	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT
24	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT
<i>S_{ps} ≤ 1.33</i>						
18	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT
21	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT
24	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT
<i>S_{ps} ≤ 1.83</i>						
18	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.
21	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.
24	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.

Sand-Light Weight Concrete

MAXIMUM LOAD TO BE RESISTED BY THE NOTED FOOT PLATES
AND INDIVIDUAL ANCHORS

	2-BOLT	3-BOLT	4-BOLT	5-BOLT	6-BOLT
TU MAX. / FOOT PLATE (Kips)	0.351	0.598	0.930	0.783	0.626
VU MAX. / FOOT PLATE (Kips)	0.193	0.278	0.422	0.413	0.848
TU MAX. / ANCHOR (Kips)	0.705	0.696	0.665	0.546	0.639
VU MAX. / ANCHOR (Kips)	0.097	0.242	0.221	0.147	0.125

1. THE ABOVE NOTED LOADS INCLUDE THE OVERSTRENGTH FACTOR (Ω_b) OF 2.0.
2. THE LOADS FOR THE 6-BOLT AND 6-BOLT FOOT PLATES ARE THE RESULTANT OF THE SUMMATION OF THE REACTIONS FROM THE MULTIPLE POSTS SUPPORTED BY THE RESPECTIVE FOOT PLATES.

Sand-Light Weight Concrete

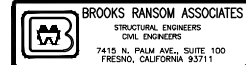


Table 10
30 inch Long Shelving
20 psf shelf Loading^{2,3,4,5}

SHELF WIDTH	STORY RATIO ¹ : (IS-1)/TSG					
	= 0.0	≤ 0.2	≤ 0.4	≤ 0.6	≤ 0.8	≤ 1.0
<i>S_{ps} ≤ 0.73</i>						
18	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT
21	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT
24	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT
<i>S_{ps} ≤ 1.33</i>						
18	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT
21	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT
24	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT
<i>S_{ps} ≤ 1.83</i>						
18	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT	N.G.
21	4 BOLT	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.
24	4 BOLT	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.

Table 12
42 inch Long Shelving
20 psf shelf Loading^{2,3,4,5}

SHELF WIDTH	STORY RATIO ¹ : (IS-1)/TSG					
	= 0.0	≤ 0.2	≤ 0.4	≤ 0.6	≤ 0.8	≤ 1.0
<i>S_{ps} ≤ 0.73</i>						
18	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT
21	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT
24	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT
<i>S_{ps} ≤ 1.33</i>						
18	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT	4 BOLT
21	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT	4 BOLT
24	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT	N.G.
<i>S_{ps} ≤ 1.83</i>						
18	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.	N.G.
21	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.	N.G.
24	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.	N.G.

- NOTES:
- STORY RATIO FORMULA IS (IS-1)/TSG, OR (INSTALLATION STORY -1)/(TOTAL STORIES ABOVE GRADE) WHERE:
-IS: INSTALLATION STORY - I.E. THE STORY UPON WHICH THE SHELVING IS TO BE LOCATED
-TSG: TOTAL STORIES ABOVE GRADE
- IF STORY RATIO IS NOT SHOWN, USE NEXT HIGHEST FIGURE.
- GROUND FLOOR PLUS ALL LEVELS BELOW GRADE ARE DEEMED TO BE ON FLOOR "1", I.E. STORY RATIO = 0.0
 - IN NO CASE SHALL THE INTERMETRO SHELF RATING BE EXCEEDED.
 - FOR END-TO-END CONDITION, A SIDE-BY-SIDE CONDITION OR A COMBINED END-TO-END WITH A SIDE-BY-SIDE CONDITION PROVIDE INDIVIDUAL FOOT PLATES AS DELINEATED IN DETAILS 3 AND 4 ON SHEET 1 UNLESS OTHERWISE NOTED. PROVIDE A MINIMUM SPACING BETWEEN ANCHORS OF 4" WHEN INDIVIDUAL FOOT PLATES ARE USED.
 - FOOT PLATES WITH MULTIPLE POSTS, SEE DETAILS 5 AND 6 ON SHEET 1, MAY BE USED IF SPECIFIED IN TABLES 1 THROUGH 16.
 - WHEN FOOT PLATES WITH MULTIPLE POSTS, AS REFERENCED IN DETAILS 5 & 6 ARE USED, THE POSTS AT THE TOP OF THE SHELVES MUST BE INTERCONNECTED WITH POST CLAMPS AS PER DETAIL 12 ON SHEET 2.

- LEGEND:
- N.G.: NO GOOD. THERE IS NOT AN APPROVED FOOT PLATE FOR THIS CONDITION.
- 2 BOLT: PROVIDE A FOOT PLATE AS PER DETAIL 1 ON SHEET 1.
- 3 BOLT: PROVIDE A FOOT PLATE AS PER DETAIL 1 ON SHEET 1.
- 4 BOLT: PROVIDE A FOOT PLATE AS PER DETAIL 2 ON SHEET 1.
- : SHELVES MAY BE COMBINED FOR END-TO-END, SIDE-BY-SIDE, OR A COMBINATION OF BOTH CONDITIONS USING THE 5 BOLT FOOT PLATE AS PER DETAIL 5 ON SHEET 1 FOR A TWO-POST CONDITION, AND THE 6 BOLT FOOT PLATE AS PER DETAIL 6 ON SHEET 1 FOR A FOUR-POST CONDITION.

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FINISH/TEXTURE	TOLERANCES ARE: DECIMALS FRACTIONS ANGLES	DWN SOC // 08-31-20		SIZE	SW DWG. NO.	SHT.	REV. VER.
PART NO.	SOLIDWORKS CAD FILE: Met_D_DWG_rev_P	CHK SOC // 08-31-20		D	29897	5 OF 6	--
ALL SPECIFICATIONS PER PRODUCT DEVELOPMENT STANDARDS				SCALE: AS NOTED		CAD GENERATED DRAWING DO NOT MANUALLY UPDATE DO NOT SCALE DRAWING.	

Base Anchorage Requirement for Acceptable Anchorage Configurations at Various Story Locations for Shelving Lengths Shown Sand-Light Weight Concrete

Table 13
48 inch Long Shelving
20 psf shelf Loading^{2,3,4,5}

SHELF WIDTH	STORY RATIO ¹ : (IS-1)/TSG					
	= 0.0	≤ 0.2	≤ 0.4	≤ 0.6	≤ 0.8	≤ 1.0
<i>S_{ps} ≤ 0.73</i>						
18	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT
21	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT
24	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT
<i>S_{ps} ≤ 1.33</i>						
18	4 BOLT	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.
21	4 BOLT	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.
24	4 BOLT	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.
<i>S_{ps} ≤ 1.83</i>						
18	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.	N.G.
21	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.	N.G.
24	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.	N.G.

Table 15
60 inch Long Shelving
20 psf shelf Loading^{2,3,4,5}

SHELF WIDTH	STORY RATIO ¹ : (IS-1)/TSG					
	= 0.0	≤ 0.2	≤ 0.4	≤ 0.6	≤ 0.8	≤ 1.0
<i>S_{ps} ≤ 0.73</i>						
18	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT	4 BOLT
21	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT	4 BOLT
24	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT	4 BOLT
<i>S_{ps} ≤ 1.33</i>						
18	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.
21	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.
24	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.
<i>S_{ps} ≤ 1.83</i>						
18	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.
21	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.
24	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.

Sand-Light Weight Concrete

MAXIMUM LOAD TO BE RESISTED BY THE NOTED FOOT PLATES
AND INDIVIDUAL ANCHORS

	2-BOLT	3-BOLT	4-BOLT	5-BOLT	6-BOLT
TU MAX. / FOOT PLATE (Kips)	0.351	0.598	0.930	0.783	0.626
VU MAX. / FOOT PLATE (Kips)	0.193	0.278	0.422	0.413	0.848
TU MAX. / ANCHOR (Kips)	0.705	0.696	0.665	0.546	0.639
VU MAX. / ANCHOR (Kips)	0.097	0.242	0.221	0.147	0.125

1. THE ABOVE NOTED LOADS INCLUDE THE OVERSTRENGTH FACTOR (Ω_s) OF 2.0.
2. THE LOADS FOR THE 5-BOLT AND 6-BOLT FOOT PLATES ARE THE RESULTANT OF THE SUMMATION OF THE REACTIONS FROM THE MULTIPLE POSTS SUPPORTED BY THE RESPECTIVE FOOT PLATES.

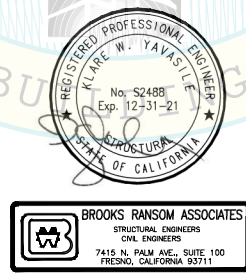
Table 14
54 inch Long Shelving
20 psf shelf Loading^{2,3,4,5}

SHELF WIDTH	STORY RATIO ¹ : (IS-1)/TSG					
	= 0.0	≤ 0.2	≤ 0.4	≤ 0.6	≤ 0.8	≤ 1.0
<i>S_{ps} ≤ 0.73</i>						
18	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT	3 BOLT
21	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT	3 BOLT
24	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT	3 BOLT
<i>S_{ps} ≤ 1.33</i>						
18	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.
21	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.
24	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.
<i>S_{ps} ≤ 1.83</i>						
18	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.
21	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.
24	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.

Table 16
72 inch Long Shelving
20 psf shelf Loading^{2,3,4,5}

SHELF WIDTH	STORY RATIO ¹ : (IS-1)/TSG					
	= 0.0	≤ 0.2	≤ 0.4	≤ 0.6	≤ 0.8	≤ 1.0
<i>S_{ps} ≤ 0.73</i>						
18	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT
21	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT
24	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT
<i>S_{ps} ≤ 1.33</i>						
18	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.	N.G.
21	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.	N.G.
24	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.	N.G.
<i>S_{ps} ≤ 1.83</i>						
18	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.
21	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.
24	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.

Sand-Light Weight Concrete



- NOTES:
- STORY RATIO FORMULA IS (IS-1)/TSG, OR (INSTALLATION STORY -1)/(TOTAL STORIES ABOVE GRADE)
WHERE:
-IS: INSTALLATION STORY - I.E. THE STORY UPON WHICH THE SHELVING IS TO BE LOCATED
-TSG: TOTAL STORIES ABOVE GRADE
- IF STORY RATIO IS NOT SHOWN, USE NEXT HIGHEST FIGURE.
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 - FOR END-TO-END CONDITION, A SIDE-BY-SIDE CONDITION OR A COMBINED END-TO-END WITH A SIDE-BY-SIDE CONDITION PROVIDE INDIVIDUAL FOOT PLATES AS DELINEATED IN DETAILS 3 AND 4 ON SHEET 1 UNLESS OTHERWISE NOTED. PROVIDE A MINIMUM SPACING BETWEEN ANCHORS OF 4" WHEN INDIVIDUAL FOOT PLATES ARE USED.
 - FOOT PLATES WITH MULTIPLE POSTS, SEE DETAILS 5 AND 6 ON SHEET 1, MAY BE USED IF SPECIFIED IN TABLES 1 THROUGH 16.
 - WHEN FOOT PLATES WITH MULTIPLE POSTS, AS REFERENCED IN DETAILS 5 & 6 ARE USED, THE POSTS AT THE TOP OF THE SHELVES MUST BE INTERCONNECTED WITH POST CLAMPS AS PER DETAIL 12 ON SHEET 2.

- LEGEND:
- N.G.: NO GOOD. THERE IS NOT AN APPROVED FOOT PLATE FOR THIS CONDITION.
- 2 BOLT: PROVIDE A FOOT PLATE AS PER DETAIL 1 ON SHEET 1.
- 3 BOLT: PROVIDE A FOOT PLATE AS PER DETAIL 1 ON SHEET 1.
- 4 BOLT: PROVIDE A FOOT PLATE AS PER DETAIL 2 ON SHEET 1.
- : SHELVES MAY BE COMBINED FOR END-TO-END, SIDE-BY-SIDE, OR A COMBINATION OF BOTH CONDITIONS USING THE 5 BOLT FOOT PLATE AS PER DETAIL 5 ON SHEET 1 FOR A TWO-POST CONDITION, AND THE 6 BOLT FOOT PLATE AS PER DETAIL 6 ON SHEET 1 FOR A FOUR-POST CONDITION.

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MATERIAL/COLOR	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES	APPROVALS // DATE		TITLE: SEISMIC SUPPORT AND ATTACHMENTS FREE STANDING, FLOOR ANCHORED INTERMETRO SHELVING			
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PART NO.	SOLIDWORKS CAD FILE: Met_D_DWG_rev_P	CHK	SOC // 08-31-20	D	29897	6 OF 6	--
ALL SPECIFICATIONS PER PRODUCT DEVELOPMENT STANDARDS				SCALE: AS NOTED		CAD GENERATED DRAWING DO NOT MANUALLY UPDATE DO NOT SCALE DRAWING.	