

Type:

# DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

#### APPLICATION FOR HCAI PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM)

OFFICE USE ONLY

APPLICATION #: OPM-0471

HCAI Preapproval of Manufacturer's Certification (OPM)

New X Renewal/Update

#### **Manufacturer Information**

Manufacturer: Aladdin Temp-Rite LLC

Manufacturer's Technical Representative: David Gordon

Mailing Address: 250 East Main St, Hendersonville, TN 37075

Telephone: () -

Email: dgordon@aladdin-atr.com

#### **Product Information**

Product Name: Convect-Rite III Docking Station plus Cart M\_04

Product Type: Rethermalization refrigerator unit with cart

Product Model Number: Docking Station: CRNDS0, CRNDS1, CRNDS2, CRNDS4; Cart CR3Cxx, CR3CPOSxx

General Description: Rethermalization docking station for meal carts to heat/cool meals prior to distribution to patients. The docking station provides the controls for consistent convected refrigeration and heat as required of meals in cart. After rethermalization, the insulated cart is then disengaged and serves as the meal delivery cart.

#### **Applicant Information**

Applicant Company Name: Aladdin Temp-Rite LLC

Contact Person: David Gordon

Mailing Address: 250 East Main St, Hendersonville, TN 37075

Telephone: (615) 537-3878 Ema	ail: dgordon@aladdin-atr.com
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Title: Director of Engineering

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STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY





# DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

# Registered Design Professonal Preparing Engineering Recommendations Company Name: DEGENKOLB ENGINEERS Name: Chad Closs California License Number: S5946 Mailing Address: 225 Broadway, Suite 1325, San Diego, CA 92101 Telephone: (858) 699-5412 Email: ccloss@degenkolb.com

HCAI Special Seismic Certification Preapproval (OSP)
Special Seismic Certification is preapproved under OSP OSP Number:
FOR CODE COL
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 HCAI prior to testing.
X Analysis
Experience Data
Combination of Testing, Analysis, and/or Experience Data (Please Specify):
OPNIA DI CODE
HCAI Approval
Date: 5/20/2022
Name: William Staehlin Title: Senior Structural Engineer
Condition of Approval (if applicable):



### **GENERAL NOTES**

#### I. GENERAL

- 1. THIS OSHPD PRE-APPROVAL OF MANUFACTURE'S CERTIFICATION (OPM) IS BASED ON THE CBC 2019. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2019.
- 2. THIS PRE-APPROVAL IS VALID FOR THE EQUIPMENT DESCRIBED IN THESE DRAWINGS THROUGHOUT THE STATE OF CALIFORNIA. PER THE Sps and HEIGHT LIMITS NOTED IN THESE GENERAL NOTES

#### II. RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD

- 1. VERIFY MATERIALS AND WORKMANSHIP TO CONFORM WITH THE 2019 EDITION OF THE CALIFORNIA BUILDING CODE AND THE REQUIREMENTS OF THIS PRE-APPROVAL DOCUMENT.
- 2. VERIFY THE ADEQUACY OF THE EXISTING FRAMING TO SUPPORT THE LOADS INDICATED ON S3 AND S4. IN ADDITION TO ALL OTHER LOADS.
- 3. DESIGN ANY SUPPLEMENTARY MEMBER AND THEIR ATTACHMENTS OTHER THAN THOSE DETAILED WITHIN THIS PRE-APPROVAL
- 4. VERIFY THE EQUIPMENTS WEIGHT, LOCATION. ANCHOR LOCATIONS AND ANCHOR DETAILS AGREE WITH THE INFORMATION SHOWN IN THIS PRE-APPROVAL.

#### **III. STRUT FRAMING**

- 1. CONNECTORS MANUFACTURED BY MASON WEST CORPORATION AND B-LINE. CHANNEL FRAMING COMPONENTS MANUFACTURED BY UNISTRUT. MASON WEST CORPORATION OR B-LINE. SEE SHEET S3.
- 2. CHANNEL FRAMING TO CONFORM TO ASTM A1011 SS. GRADE 33
- 3. STRUT TYPE: SOLID SECTIONS ONLY. CHANNEL MINIMUM SECTION PROPERTIES:

CHANNEL	A (IN. <sup>2</sup> )	S <sub>xx</sub> (IN. <sup>3</sup> )	I <sub>xx</sub> (IN. <sup>4</sup> )	GAGE	WT (PLF)
1 5/8" SQ	0.544	0.195	0.180	12	1.89
1 1/4" SQ	0.305	0.086	0.061	14	1.04

#### **IV. MECHANICAL ANCHORS**

- 1. WEDGE ANCHORS INTO CONCRETE OR MASONRY: SEE S4. ANCHORS SHALL BE ZINC COATED CARBON STEEL. INSTALL ANCHORS IN ACCORDANCE WITH ICC REPORT. MASONRY ANCHORAGE ONLY APPLICABLE TO UNCRACKED, FULLY GROUTED CONCRETE MASONRY UNIT CONSTRUCTION PER ICC ESR-4561. CONCRETE ANCHORAGE APPLICABLE TO CONCRETE CONSTRUCTION PER ICC ESR-4266.
- 2. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH. WHICHEVER IS LARGER. OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT APPROVED BY THE ENGINEER OF RECORD. NOTIFY THE ENGINEER OF RECORD IF ANY REINFORCING IS DAMAGED.
- 3. ANCHORS WILL BE PROOF-TESTED BY OWNER'S TESTING AND INSPECTION AGENCY.
- IF ANY ANCHOR FAILS TESTING, REPLACE ANCHOR AND TEST ADDITIONAL ANCHORS 4 OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS. THEN RESUME INITIAL TESTING FREQUENCY



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- 5. TEST ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATION.
- 6. TEST 50% WEDGE ANCHORS PER THE FOLLOWING METHOD:
  - A. TORQUE WRENCH METHOD: TEST ANCHORS TO THE TORQUE LOAD INDICATED IN THE TABLE BELOW WITHIN THE FOLLOWING LIMITS:
    - 1. ONE-HALF TURN OF THE NUT.

WEDGE ANCHOR (KB-TZ2)		
BASE MATERIAL	TORQUE LOAD (FT-LBS)	
CONCRETE	40	
CMU	25	

#### V. STRUCTURAL STEEL

STRUCTURAL STEEL TO CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED: STAINLESS STEEL BOLTS: ASTM A320 S.S. GR. B8 CLASS 1 OR A307 ZINC BOLTS PER ASTM F2329

MASON WEST (BREAK-OFF NUT) AND B-LINE CONNECTORS: NUTS AND BOLTS MOUNTED TO CHANNELS SHALL BE TIGHTENED TO THE FOLLOWING MINIMUM TORQUES:

	. LBS.)
1/2 50	0

PLATES: ASTM A572 GR 50

WELDING ELECTRODE: E70XXX

2. HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STRUCTURAL STEEL.

#### VI. WOOD

1. INSTALL WOOD SCREWS PER IAPMO ER-192. VERIFY (E) WOOD STUDS MEET MATERIAL REQUIREMENTS IN ACCORDANCE WITH THE IAPMO REPORT.

#### VII. STRUCTURAL TESTS, INSPECTIONS, AND OBSERVATIONS

- 1. AN INDEPENDENT TESTING AGENCY AND SPECIAL INSPECTORS WILL BE RETAINED BY THE OWNER TO PERFORM THE FOLLOWING TESTS AND INSPECTION. PROVIDE ACCESS AND FURNISH SAMPLES TO THE AGENCY AS REQUIRED.
- 2. THE FOLLOWING ITEMS REQUIRE TESTS AND INSPECTIONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CHAPTER "STRUCTURAL TESTS AND INSPECTIONS" OF THE CODE.
- MECHANICAL ANCHORS: 3.
  - A. VERIFY TYPE OF ANCHOR, ANCHOR DIMENSIONS, CONCRETE TYPE AND COMPRESSIVE STRENGTH, PREDRILLED HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCE, SLAB THICKNESS AND ANCHOR EMBEDMENT
  - B. PROOF-TEST AS INDICATED IN THE MECHANICAL ANCHORS SECTION OF THESE GENERAL NOTES.

#### VIII. DESIGN CRITERIA

- 1. APPLICABLE CODE: 2019 CALIFORNIA BUILDING CODE.
- 2. SEISMIC DESIGN:  $F_{P,ASD} = 0.7*0.4 \text{ Sps}*Wp(1+2*z/h) \text{ Ev}_{ASD} = 0.7*0.2(\text{Sps})Wp$ 
  - ALLOWABLE SEISMIC FORCE WHERE:

 $S_{DS}$  = SEE TABLE lp = 1.5

WORST CASE ACCEL FOR ESSENTIAL EQUIP. FOR ANY FLOOR z/h= SEE TABLE

NOT APPLICABLE AT SITES WITH SOIL CLASS F

## SHEET LIST

Rp = 1.5 LOW DEFORMATION

ap = 1.0 RIGID COMPONENT

 $\Omega = 1.5$ 

- S1 **GENERAL NOTES** S2 CONNECTION DETAILS
- S3 CONNECTION DETAILS
- S4 CONNECTION DETAILS
- S5 CONNECTION DETAILS

LOCATION IN THE BUILDING:

z/h
0 (SLAB AT OR BELOW BASE)
0.25
0.5
0.75

1.0 (ROOF)

TABLE VALUES MAY NOT BE INTERPOLATED. FOR z/h VALUES IN BETWEEN, SMALLER SDS, MAX. MUST BE USED. ENGINEER OF RECORD MUST VERIFY PRE-APPROVAL IS VALID FOR SPECIFIC SITE AND UNIT INSTALLATION LOCATION. IF SITE SDS IS LARGER THAN SDS. MAX.. PRE-APPROVAL IS NOT APPLICABLE AND ENGINEER OF RECORD IS RESPONSIBLE FOR PROVIDING ALTERNATE SUPPORTS & ATTACHMENTS DESIGN.

### IX. HOW TO USE THIS PRE-APPROVAL

		CART MODEL NUMBERS						
		CR3C20	CR3C24	CR3C26	CR3C30	CR3CPOS20	CR3CPOS24	CR3CPOS30
rion Ers	CRNDS0	-	А	-	-	-	А	-
STATION	CRNDS1	-	-	В	В	-	-	В
DOCKING MODEL N	CRNDS2	А	-	-	-	А	-	-
	CRNDS4	А	-	-	-	А	-	-

#### TABLE NOTES

- - - Title<sup>.</sup> Draw Desi Cheo Date

3. THIS PRE-APPROVAL HAS THE FOLLOWING LIMITATIONS ON Sns BASED ON INSTALLATION z = HEIGHT IN STRUCTURE OF UNIT INSTALLATION

h = AVERAGE ROOF HEIGHT OF STRUCTURE

Sps = DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER AT SHORT PERIODS

GROUP A S <sub>DS</sub> , MAX	GROUP B S <sub>DS</sub> , MAX
3.0	3.0
2.93	2.40
2.20	1.88
1.73	1.50
1.40	1.23

1. REVIEW AND UNDERSTAND ALL GENERAL NOTES AND FIGURES BEFORE PROCEEDING. 2. DETERMINE THE MAXIMUM DEMANDS ON THE EXISTING STRUCTURE FROM THE NEW UNIT FROM THE TABLE ON SHEETS S3 AND S4, AND VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE WITH THE ENGINEER OF RECORD FOR THE BUILDING.

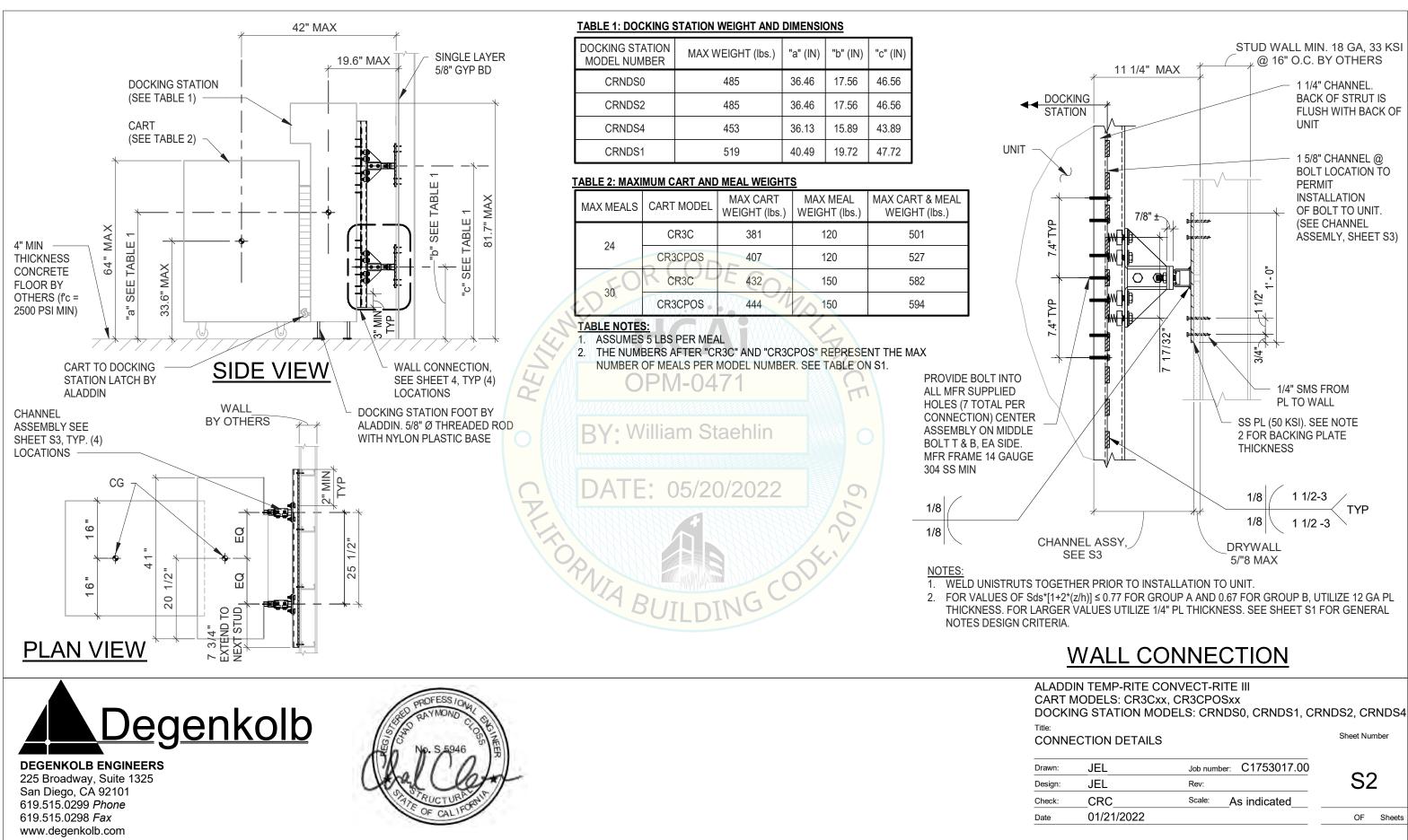
#### **GROUP CATEGORY BASED ON CART & DOCKING STATION COMBINATION**

#### 1. "-" REPRESENTS A CART & DOCKING STATION COMBINATION THAT IS NOT ALLOWED 2. THE NUMBERS AFTER "CR3C" AND "CR3CPOS" REPRESENT THE MAXIMUM NUMBER OF MEALS THE CART CAN HOLD

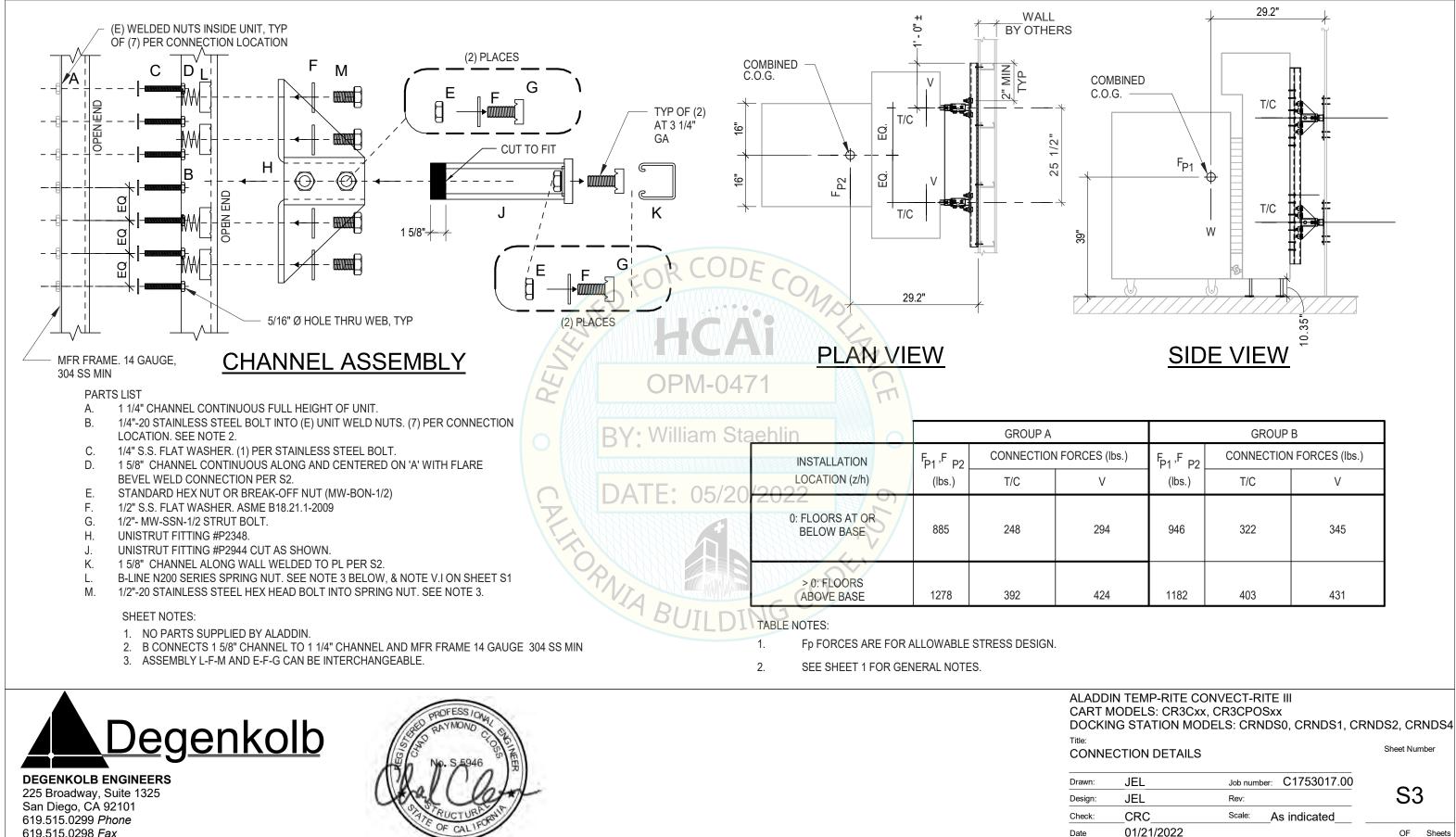
ALADDIN TEMP-RITE CONVECT-RITE III CART MODELS: CR3Cxx, CR3CPOSxx DOCKING STATION MODELS: CRNDS0, CRNDS1, CRNDS2, CRNDS4 Sheet Number

#### **GENERAL NOTES**

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ign:	JEL	Rev:	S1
ck:	CRC	Scale: N.T.S.	
;	01/21/2022		OF Sheets

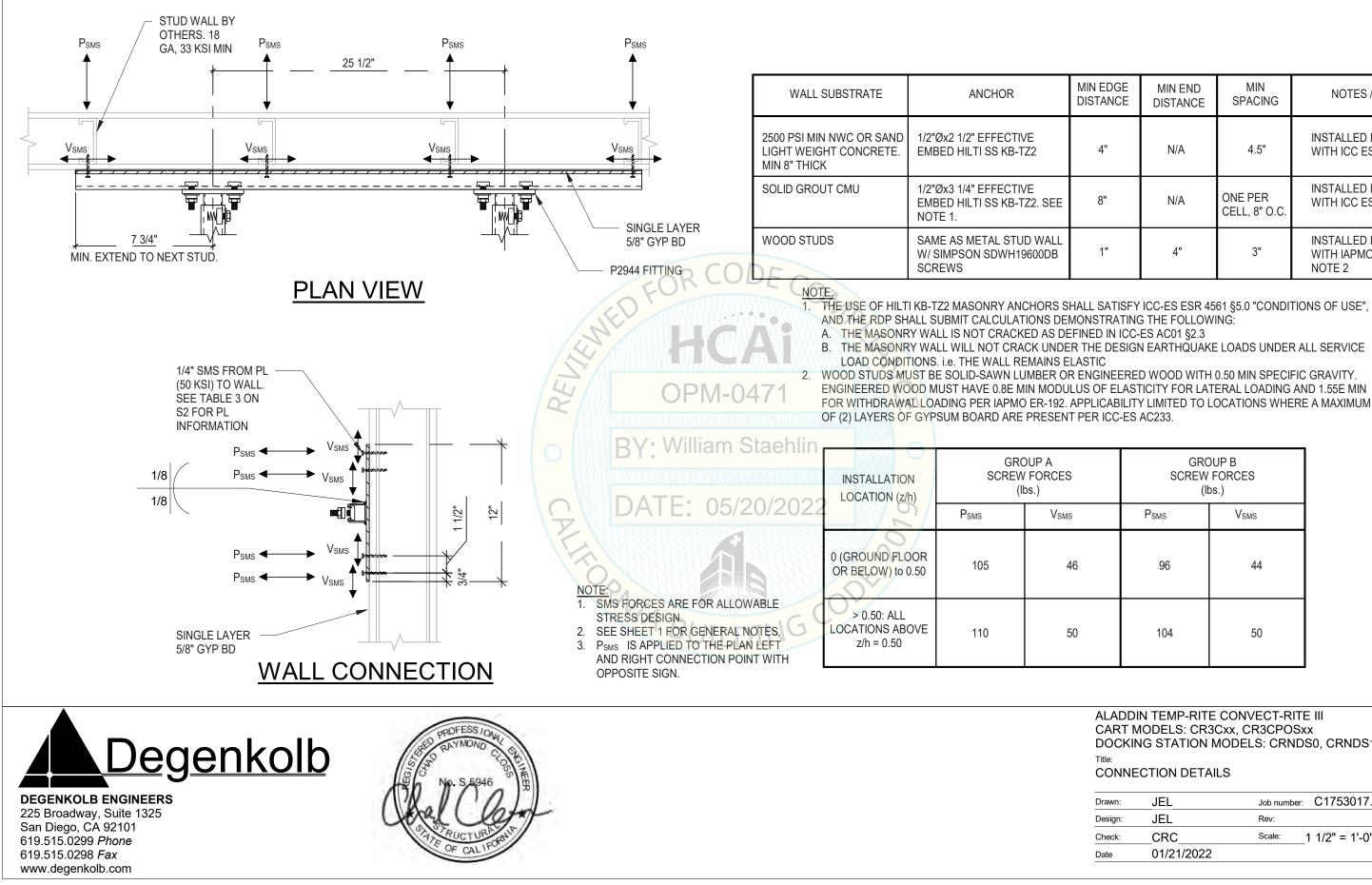


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neck:	CRC	Scale:	As indicated		
ate	01/21/2022			OF	Sheets



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DGE NCE	MIN END DISTANCE	MIN SPACING	NOTES / REFERENCE
1	N/A	4.5"	INSTALLED IN ACCORDANCE WITH ICC ESR-4266 SEE S5
1	N/A	ONE PER CELL, 8" O.C.	INSTALLED IN ACCORDANCE WITH ICC ESR-4561 SEE S5
"	4"	3"	INSTALLED IN ACCORDANCE WITH IAPMO ER-192 . SEE NOTE 2

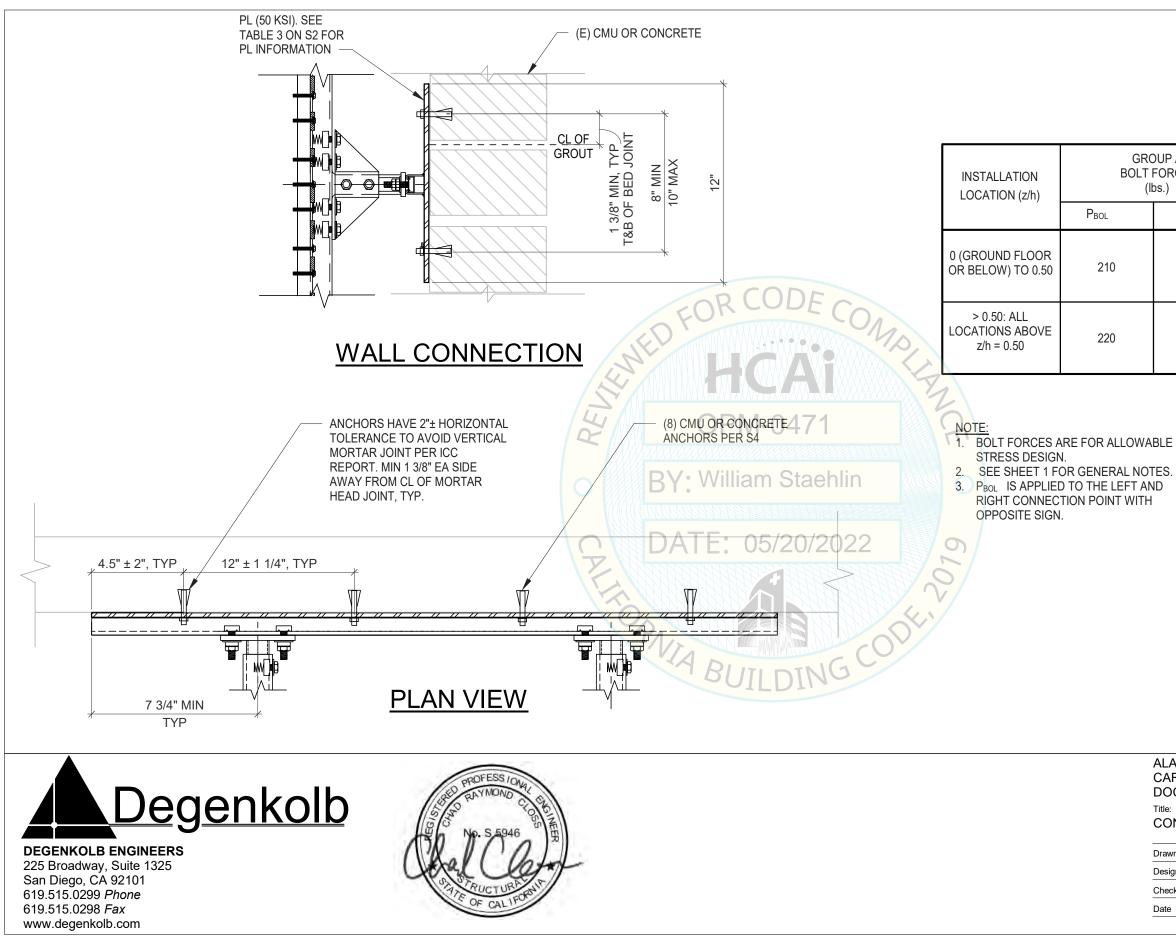
GROUP B SCREW FORCES (lbs.)		
P <sub>SMS</sub>	V <sub>SMS</sub>	
96	44	
104	50	

ALADDIN TEMP-RITE CONVECT-RITE III CART MODELS: CR3Cxx, CR3CPOSxx DOCKING STATION MODELS: CRNDS0, CRNDS1, CRNDS2, CRNDS4

#### CONNECTION DETAILS

Sheet Number

awn:	JEL	Job number: C1753017.00	<b>.</b>
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ite	01/21/2022		OF Sheets



P A IRCES )	GROUP B BOLT FORCES (lbs.)	
V <sub>BOL</sub>	P <sub>BOL</sub>	V <sub>BOL</sub>
138	192	88
100	208	100

ADDIN TEMP-RITE CONVECT-RITE III							
RT MODELS: CR3Cxx, CR3CPOSxx							
OCKING STATION MODELS: CRNDS0, CRNDS1, CRNDS2, CRNDS4							
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wn:	JEL	Job number: C1753017.00	<u> </u>				
ign:	JEL	Rev:	S5				
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