

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI PREAPPROVAL OF	OFFICE USE ONLY							
MANUFACTURER'S CERTIFICATION (OPM)	APPLICATION #: OPM-0674							
HCAI Preapproval of Manufacturer's Certification (OPM)								
Type: X New Renewal/Update								
Manufacturer Information								
Manufacturer: Deister Electronics USA, Inc.								
Manufacturer's Technical Representative: Bill Nuffer								
Mailing Address: 8576 Wellington Road, Manassas, VA 20109								
Telephone: (703) 659-9497	ster.com							
	MA							
Product Information	T							
Product Name: texCabinet TCR200 Laundry Return Unit (Large) 674								
Product Type: Other mechanical and electrical components								
Product Model Number: TCR200 BY: Mohammad Aliaan	ri (O							
General Description: Hospital laundry services	3							
PATE: 03/24/202								
Applicant Information	4.							
Applicant Company Name: EASE LLC.								
Contact Person: Tiffany Tonn								
Mailing Address: 1515 FAIRVIEW AVE, STE 205, MISSOULA, MT 59801								

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





Telephone: (406) 541-3273

Title: Office Manager

Email: tiffany@easeco.com



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

Registered Design Professonal Preparing Engineering Recommendations								
Company Name: EASE LLC								
Name: Jonathan Roberson California License Number: S4197								
Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills, CA 91709								
Telephone: (951) 295-1892 Email: jon@EASECo.com								
HCAI Special Seismic Certification Preapproval (OSP)								
Special Seismic Certification is preapproved under OSP OSP Number:								
OD CODE O								
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, 2022 (CBSC 2022) 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 2022 may be used when approved by HCAI prior to testing.								
X Analysis								
Experience Data DATE: 03/24/2023								
Combination of Testing, Analysis, and/or Experience Data (Please Specify):								
COV.								
HCAI Approval								
Date: 3/24/2023								
Name: Mohammad Aliaari Title: Senior Structural Engineer								
Condition of Approval (if applicable):								

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







5877 Pine Ave, Ste. 210 Chino Hills, CA. 91709 Phn: (909) 606-7622

The Department of Health Care Access and Information
PREAPPROVAL OF MANUFACTURER'S CERTIFICATION
OPM-0674

THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE

MANUFACTURER:

DEISTER ELECTRONIC

Sheet: 1 of 9

EQUIPMENT NAME:

texCabinet - RETURN (LARGE) TCR200

Date: 3/9/23

GENERAL NOTES

- 1. THIS HCAI PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2022 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2022 CBC
- 2. THIS DOCUMENT MAY ONLY BE USED WITH THE EXPRESS WRITTEN CONSENT OF THE MANUFACTURER LISTED ABOVE FOR THE SPECIFIC PROJECT SITE AND INSTALLATION LOCATION. THIS DOCUMENT IS INVALID WITHOUT SUCH CONSENT.
- 3. THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE WHERE SDS IS NOT GREATER THAN 2.30 SEE DETAIL FOR APPLICABILITY
- 4. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3,

WHERE SDS = 2.30, a_p = 1.5, I_p = 1.5, R_p = 1.5,

- 5. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
- ALL DESIGN FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.
- 7. CONCRETE SLAB ON METAL DECK DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION IN THE BUILDING. (i.e. z/h < 1)
- 8. CONCRETE SLAB DETAIL VALID FOR DEMANDS SHOWN AT OR BELOW GRADE. (i.e. z/h = 0)

9. RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD OF THE BUILDING

- A. PROVIDE SUPPORTING STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN IN ADDITION TO ALL OTHER LOADS.
- B. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2022 CBC AND WITH THE DETAILS, MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PREAPPROVAL DOCUMENTS.
- C. VERIFY THAT PROJECT SPECIFIC VALUES OF SDS & z/h RESULT IN SEISMIC FORCES (Eh, Ev) THAT DO NOT EXCEED THE VALUES ON THE DETAILS.
- D. VERIFY THAT THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ANCHORED MEETS THE REQUIREMENTS OF THE APPLICABLE ICC ESR REPORT AND THIS OPM.
- E. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPENINGS (SEE TYPICAL DETAIL ON SHEET 2).
- F. VERIFY THAT ALL NEW OR EXISTING ANCHORS ARE AN ADEQUATE DISTANCE FROM THE UNIT ATTACHMENTS AND CHECK FOR INTERACTION WHERE OTHER ANCHORS ARE WITHIN 18" OR 6hef FROM THIS UNIT'S ANCHORS.



3/9/23

DATE

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DEISTER ELECTRONIC

texCabinet - RETURN (LARGE) TCR200

DES. J. ROBERSON

JOB NO. 11-2218

OF 9 SHEETS

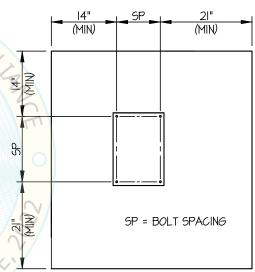
10. EXPANSION ANCHORS:

A. ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.

Anchor Diameter	Concrete Type	Min. f'c (psi)	Anchor Type	ICC Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Thickness	Torque Test	Direct Tension Test
3/8"	Sand Light Weight	3000	Hilti Kwik Bolt TZ2 (CARBON STEEL)	ESR-4266	2"	6.75"	12"	3.25" Over Flutes	30 FT-LB	N/A
1/4"	Normal Weight	3000	Hilti Kwik HUS-EZ (CARBON STEEL)	ESR-3027	1.92"	2.95"	6"	6"	18 FT-LB	N/A
3/8"	Normal Weight	3000	Hilti Kwik Bolt TZ2 (CARBON STEEL)	ESR-4266	2"	8"	14"	4"	30 FT-LB	1978 lb

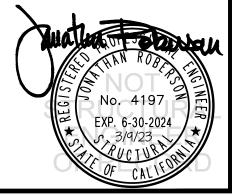
- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 14" AWAY MINIMUM (i.e. CORNER).

 SEE ADJACENT DETAIL FOR ADDITIONAL MINIMUM ALLOWABLE CONCRETE EDGE DISTANCES.
- C. TESTING AND SPECIAL INSPECTION OF EXPANSION ANCHORS SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY 74
 EMPLOYED BY THE FACILITY OWNER PER CBC 1704A & 1910A.5
 AND CAC 7-149. ALL REPORTS SHALL BE SENT TO THE INSPECTOR OF RECORD, OWNER AND THE ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE.
 - (i) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION,
 DIRECT PULL TENSION TEST OR TORQUE TEST AT LEAST 50% OF
 THE ANCHORS.
 - (ii) ACCEPTANCE CRITERIA:
 - DIRECT TENSION TEST: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE TEST LOAD. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER BECOMES LOOSE.
 - TORQUE TEST: THE APPLICABLE TORQUE MUST BE ACHIEVED WITHIN THE FOLLOWING LIMITS: WEDGE TYPE: 1/2 TURN OF THE NUT
 - (iii) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.
- D. AVOID DAMAGING EXISTING STEEL REINFORCING IN CONCRETE SLAB WHEN INSTALLING CONCRETE EXPANSION ANCHORS.
- E. PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT & WASHER.



TYPICAL CONCRETE EDGE DETAIL

(SLAB ON GRADE ONLY)



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texCabinet - RETURN (LARGE) TCR200

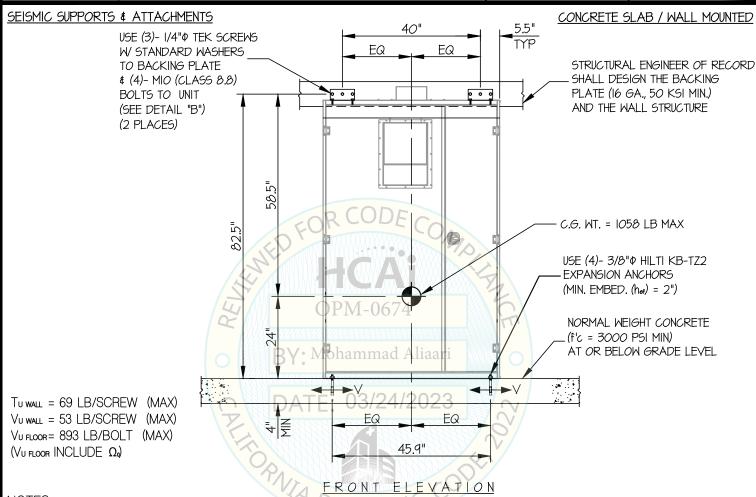
DES. J. ROBERSON

JOB NO. 11-2218

DATE 3/9/23

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9 SHEETS



NOTES:

1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: SDS = 2.30, 2p = 1.5, p = 1.5

HORIZONTAL FORCE (Eh) = 1.035Wp

HORIZONTAL FORCE (Emh) = 2.07 Wp (FOR CONCRETE ANCHORAGE)

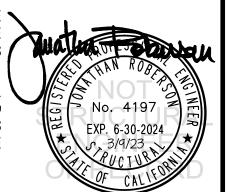
VERTICAL FORCE (Ev) = 0.46 Wp

2. THIS PREAPPROVAL ENCOMPASSES WEIGHTS AND VERTICAL CG POSITIONS UP TO THE VALUES SHOWN.

3. THIS PREAPPROVAL WAS PREPARED WITHOUT KNOWLEDGE OF ANY SITE CONDITION. COMPATIBILITY FOR USE WITH A SITE SHALL BE EVALUATED BY THE STRUCTURAL ENGINEER OF RECORD OF THE INSTALLATION (SEOR), USE REQUIRES APPROVAL BY THE SEOR.

4. STRUCTURAL ENGINEER OF RECORD FOR THE INSTALLATION SHALL VERIFY ALL CONDITIONS, EVALUATE INTERACTION WITH ADJACENT EQUIPMENT AND ANCHORS, AND PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.

SEE GENERAL NOTES: SHEETS 1 AND 2.



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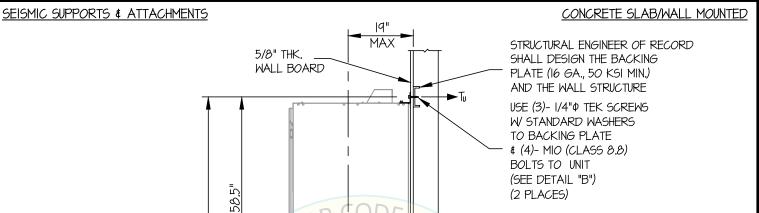
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9 SHEETS

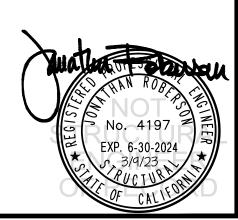


Mohammad

USE (4)- 3/8" PHILTI KB-TZ2 -EXPANSION ANCHORS (MIN, EMBED, (het) = 2")

C.G. WT. = 1058 LB MAX

NORMAL WEIGHT CONCRETE
_(f'c = 3000 PSI MIN)
_AT OR BELOW GRADE LEVEL



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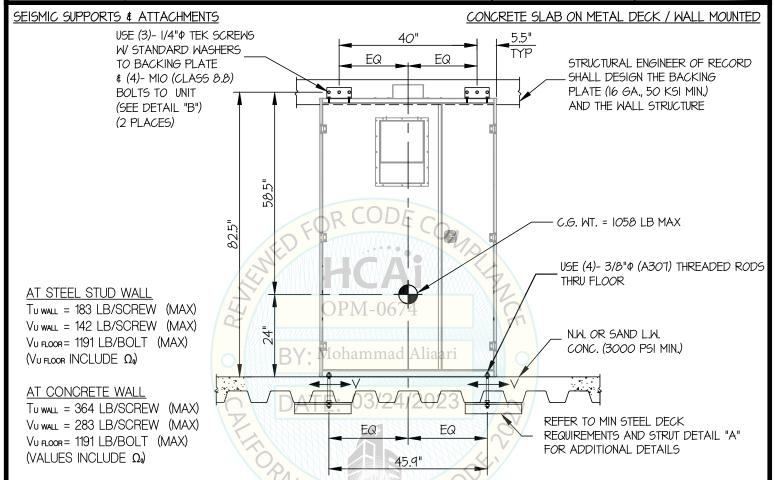
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DATE 3/9/23

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9 SHEETS



FRONT ELEVATION
(STEEL STUD WALL SHOWN)

NOTES:

1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: SDS = 2.30, $\Delta p = 1.5$, Ip = 1.5, Ip

HORIZONTAL FORCE (Eh) = 2.76 Wp

HORIZONTAL FORCE (Emh) = 5.52 Wp (FOR CONCRETE ANCHORAGE)

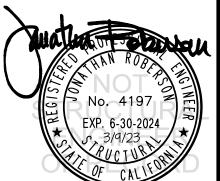
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5. SEE GENERAL NOTES: SHEETS 1 AND 2.



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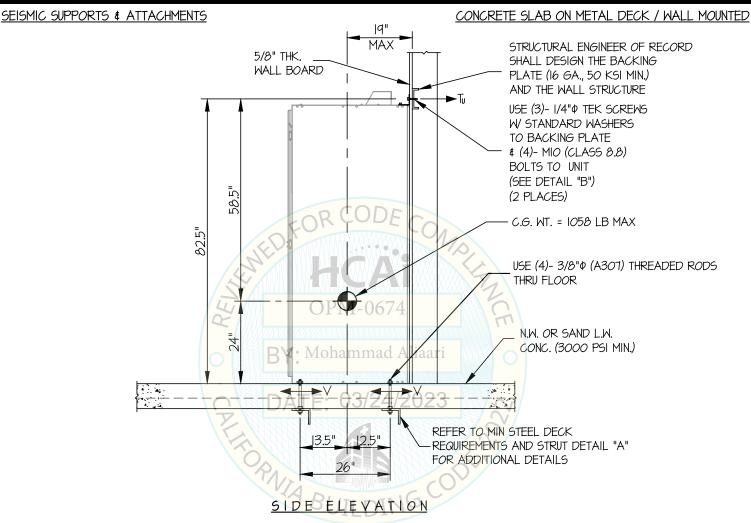
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SHEET

9 SHEETS





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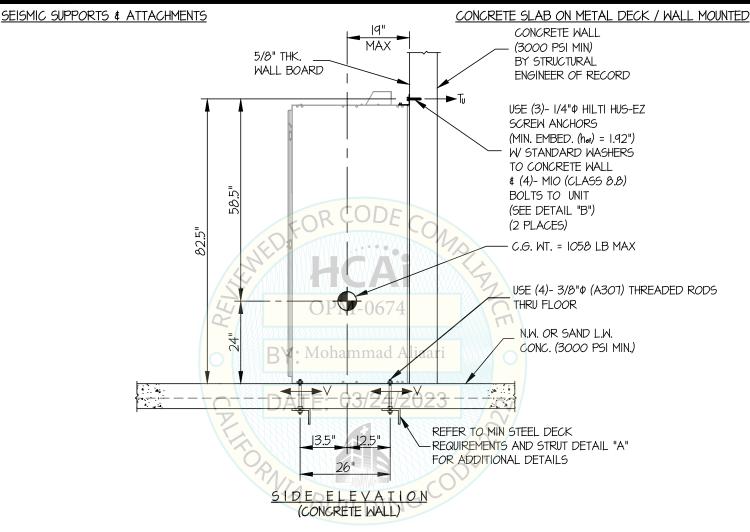
texCabinet - RETURN (LARGE) TCR200 DES. J. ROBERSON

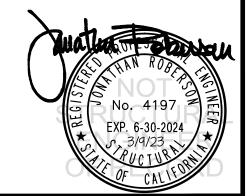
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NEET 7

SHEETS





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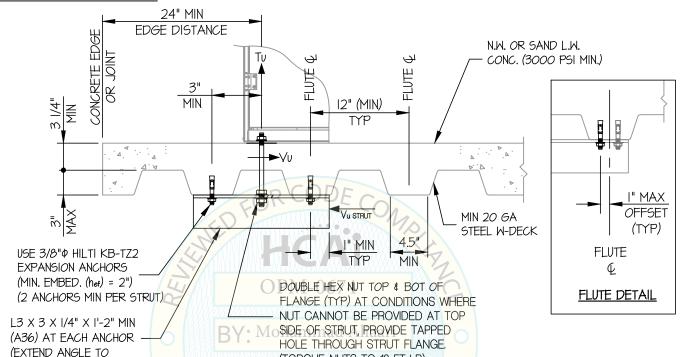
OF SHEETS

CONCRETE DETAILS



ADJACENT FLUTE WHEN

THREADED ROD OCCURS AT FLUTE)



MIN STEEL DECK REQUIREMENTS AND STRUT DETAIL

PANIA BUIL

(TORQUE NUTS TO 13 FT-LB)

03/24/2023



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DEISTER ELECTRONIC

texCabinet - RETURN (LARGE) **TCR200**

DES. J. ROBERSON

11-2218 JOB NO.

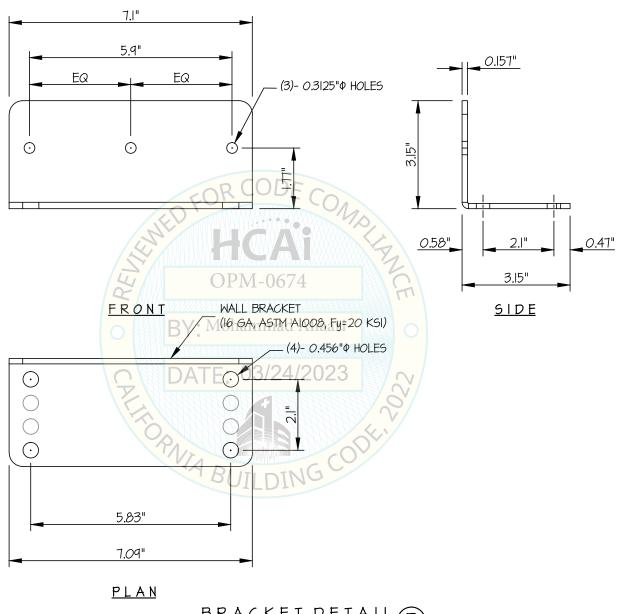
3/9/23 DATE

SHEET

SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAILS



BRACKET DETAIL (B)

