

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI PREAPPROVAL OF	OFFICE USE ONLY APPLICATION #: OPM-0641			
MANUFACTURER'S CERTIFICATION (OPM)				
HCAI Preapproval of Manufacturer's Certification (OPM)				
Type: New X Renewal/Update				
Manufacturer Information				
Manufacturer: Modular Services Company				
Manufacturer's Technical Representative: Sean Flanagan				
Mailing Address: 500 East Britton Road, Oklahoma City, OK 73114				
Telephone: (800) 392-3821 Email: sflanagan@modul.	arservices.com			
	20/			
Product Information	T			
Product Name: Form/Method/H-CORE Wall/Floor Headwall/1-0641				
Product Type: Other electrical and mechanical components				
Product Model Number: N/A O BY: Mohammad Aliaari				
General Description: Medical headwall providing med gas and electrical serv	ices			
BATE. 02/03/2023	200			
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"





STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

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	Email: jon@EASECo.com						
HCAI Special Seismic Certification Preapproval (OSP)							
Special Seismic Certification is preapproved under OSP OSP Number:							
OR CODE CO							
Certification Method							
Testing in accordance with:							
Other(s) (Please Specify):							
*Use of criteria other than those adopted by the California Building Standards Code, 2022 (CBSC 2022) for comand attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic criteria other than those adopted in the CBSC 2022 may be used when approved by HCAI prior to testing.							
X Analysis							
Experience Data DATE: 02/03/2023							
Combination of Testing, Analysis, and/or Experience Data (Please Specify):							
PNI CONTRACTOR							
HCAI Approval							
Date: <u>2/3/2023</u>							
Name: Mohammad Aliaari Title: Senior Structural Engineer							
Condition of Approval (if applicable):							

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EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

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-0641

THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE

MANUFACTURER:

MODULAR SERVICES COMPANY

Sheet: 1 of 6 Date: 1/18/23

EQUIPMENT NAME:

FORM / METHOD / H-CORE WALL/FLOOR MOUNTED HEADWALL

GENERAL NOTES

- 1. THIS HCAI PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2022 CBC. THE DEMANDS
- 2. (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2022 CBC
- 3. 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.
- 4. THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE WHERE Sps IS NOT GREATER THAN 2.30.
- 4. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE SDS = 2.30, \mathbf{a}_p = 1.0, \mathbf{I}_p = 1.5, \mathbf{r}_p = 1.5,
- 5. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
- 6. ALL DESIGN FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.
- 7. SHEET METAL SCREWS SHALL BE TEKS SCREWS BY ITW BUILDEX (ICC ESR-1976).

8. 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.



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OF

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FORM / METHOD / H-CORE WALL/FLOOR MOUNTED HEADWALL

JOB NO. 11-2210
DATE 1/18/23

2

SHEETS

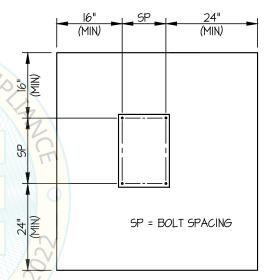
9. EXPANSION ANCHORS:

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
3/8"	Sand Light Weight	3000	Hilti Kwik Bolt TZ2 (CARBON STEEL)	ESR-4266	2"	8"	16"	3.25"	30 FT-LB	1190 lb

DATE: 02/03/2023

- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 16" 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 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 641 RESPONSIBLE CHARGE.
 - (i) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, ari DIRECT PULL TENSION 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.



TYPICAL CONCRETE EDGE DETAIL



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FORM / METHOD / H-CORE WALL/FLÓOR MOUNTED HEADWALL

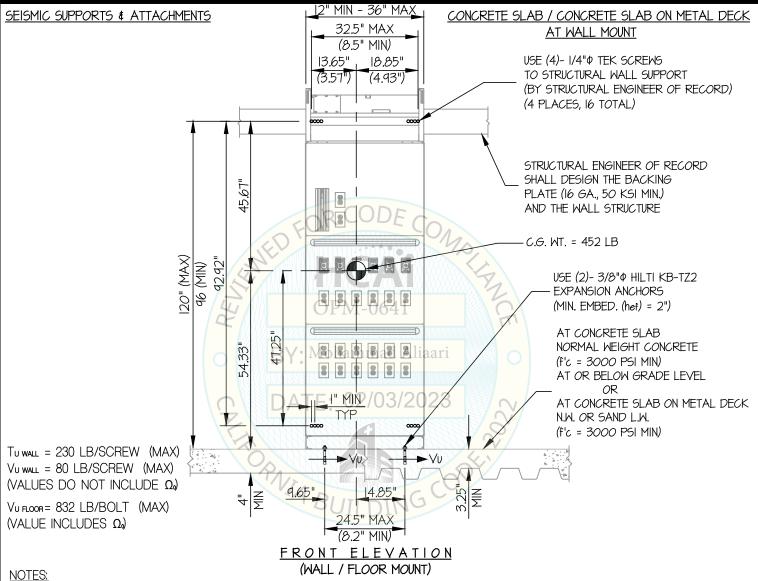
DES. J. ROBERSON

11-2210 JOB NO.

1/18/23 DATE

SHEET

SHEETS



1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: SDS = 2.30, 2p = 10, 1p = 1.5, 2p = 1

> HORIZONTAL FORCE (Eh) = 2.76 Wp

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

VERTICAL FORCE (E_V) = 0.46 Wp

2. THIS CALCULATION ENCOMPASSES WEIGHTS AND HORIZONTAL C.G. POSITIONS FROM WALL FACES 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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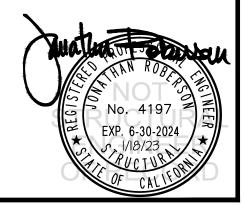
11-2210 JOB NO.

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SHEET

SHEETS

OF SEISMIC SUPPORTS & ATTACHMENTS CONCRETE SLAB / CONCRETE SLAB ON METAL DECK AT WALL MOUNT USE (4)- 1/4" PTEK SCREWS TO STRUCTURAL WALL SUPPORT (BY STRUCTURAL ENGINEER OF RECORD) (4 PLACES, 16 TOTAL) STRUCTURAL ENGINEER OF RECORD 10.8 SHALL DESIGN THE BACKING PLATE (16 GA., 50 KSI MIN.) AND THE WALL STRUCTURE C.G. WT. = 452 LB 120" (MAX) 92,92 96 (MIN) 5/8" GYP BD (I LAYER) 54 USE (2)- 3/8"Φ HILTI KB-TZ2 EXPANSION ANCHORS (MIN. EMBED. (hef) = 2") Vυ ► Vu 8.56" AT CONCRETE SLAB NORMAL WEIGHT CONCRETE EVATION (f'c = 3000 PSI MIN) (WALL / FLOOR MOUNT) AT OR BELOW GRADE LEVEL AT CONCRETE SLAB ON METAL DECK



N.W. OR SAND L.W. (f'c = 3000 PSI MIN)

EASE

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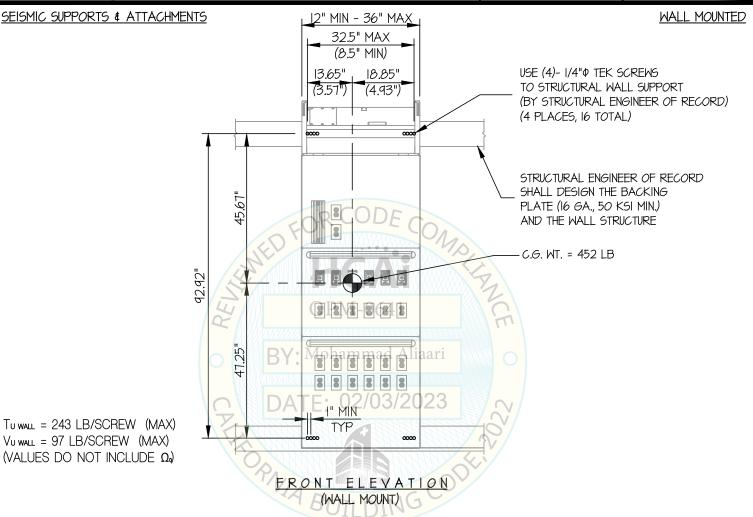
DES. J. ROBERSON

JOB NO. 11-2210

DATE 1/18/23

SHEET 5

6 SHEETS



NOTES:

1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: SDS = 2.30, 2p = 1.0, 2p = 1.5, 2p

HORIZONTAL FORCE (Eh) = 2.76 Wp VERTICAL FORCE (Ev) = 0.46 Wp

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45.67^{II}

92.92"

10.8

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SHEET

6

OF G SHEETS

WALL MOUNTED

SEISMIC SUPPORTS & ATTACHMENTS

USE (4)- 1/4" TEK SCREWS
TO STRUCTURAL WALL SUPPORT
(BY STRUCTURAL ENGINEER OF RECORD)

(4 PLACES, 16 TOTAL)

-Tu

STRUCTURAL ENGINEER OF RECORD SHALL DESIGN THE BACKING PLATE (16 GA., 50 KSI MIN.) AND THE WALL STRUCTURE

C.G. WT. = 452 LB

5/8" GYP BD (I LAYER)

(I LATER)

SIDE ELEVATION

(WALL MOUNT)

Mohammad Aliaari