

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

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APPLICATION FOR HCAI PREAPPROVAL OF	OFFICE USE ONLY
MANUFACTURER'S CERTIFICATION (OPM)	APPLICATION #: OPM-0196
HCAI Preapproval of Manufacturer's Certification (OPM)	
Type: New X Renewal/Update	
Manufacturer Information	
Manufacturer: Chatsworth Products	
Manufacturer's Technical Representative: Todd Schneider	
Mailing Address: 4175 Guardian Street, Simi Valley, CA 93063	
Telephone: (203) 969-4862 Email: TSchneide	er@chatsworth.com
	OMP
Product Information	Ty.
Product Name: CUBE iT OPM-0196	
Product Type: Communication Equipment	
Product Model Number: 11890-X24, 11840-X24, 11996-X24, 11890- 11996-X48	X36, 11840-X36, 11996-X36, 11890-X48, 11840-X48,
General Description: Telecommunication Enclosures 08/15/	2023
	S.
Applicant Information	
Applicant Company Name: EASE LLC.	GCO
Contact Person: Tiffany Tonn	
Mailing Address: 1515 FAIRVIEW AVE, STE 205, MISSOULA, MT 59	9801

Title: Office Manager

Telephone: (406) 541-3273

"A healthier California where all receive equitable, affordable, and quality health care"

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STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY

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:
-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 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: 08/15/2023
Combination of Testing, Analysis, and/or Experience Data (Please Specify):
HCAI Approval
Date: 8/15/2023
Name: William Staehlin Title: Senior Structural Engineer
Condition of Approval (if applicable):

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STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY



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-0196

THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE

MANUFACTURER: CHATSWORTH PRODUCTS, INC.

EQUIPMENT NAME: CUBE IT

Sheet: 1 of 5 Date: 8/3/23

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 1.60 & 2.30.
- 4. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3,
 - WHERE SDS = 1.60 a_p = 1.0, I_p = 1.5, R_p = 2.5, z/h < 1 WOOD / STEEL / CONCRETE WALLS.
 - WHERE SDS = 2.30 a_p = 1.0, I_p = 1.5, R_p = 2.5, z/h < 1 WOOD / STEEL / CONCRETE WALLS. SEE FOLLOWING SHEETS FOR Ω_o
- 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. CONCRETE WALL DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION. (i.e. z/n < 1)

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 WALL TO WHICH THE EQUIPMENT IS ANCHORED MEETS THE REQUIREMENTS OF THE APPLICABLE ICC ESR AND THIS OPM.
- E. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY CONCRETE WALL 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.
- G. DESIGN BACKING BARS, STUDS, ETC. WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS.



EASE

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CHATSWORTH PRODUCTS, INC.

JOB NO. 11-2314

DATE

8/3/23

SHEET 2

CUBE IT

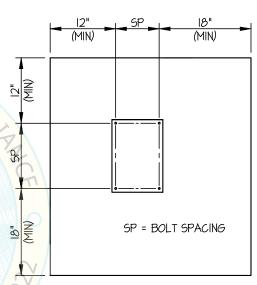
of 5 SHEETS

10. EXPANSION ANCHORS:

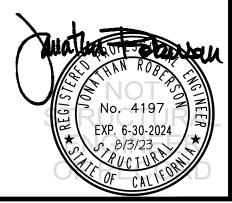
A. ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.

Anchor Diamete		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"	Normal Weight	3000	Hilti Kwik Bolt TZ2	ESR-4266	2"	4"	12"	6"	30 FT-LB	1652

- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 12" 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 RESPONSIBLE CHARGE.
 - (i) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION,
 DIRECT PULL TENSION TEST OR TORQUE TEST AT LEAST 50% OFehlin
 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



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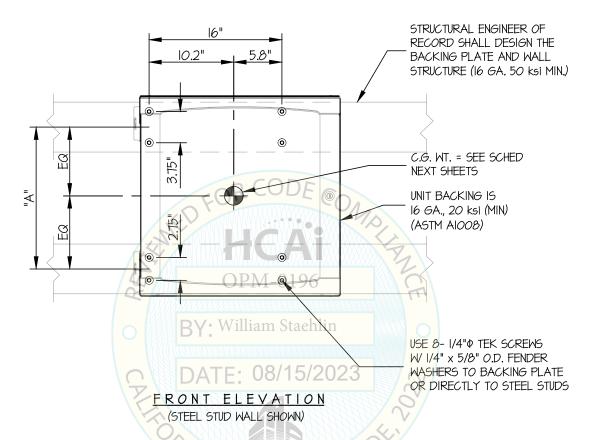
8/3/23 DATE

SHEET

OF SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

WALL MOUNTED



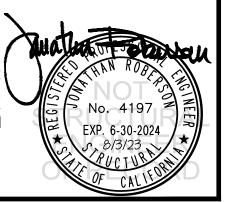
NOTES:

1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: 2p = 10, 1p = 15, Rp = 2.5, $\Omega_0 = 2.0$, $z/h \le 1$)

Sps = HORIZONTAL FORCE (Eh) = VERTICAL FORCE (Ev) =

1.60	2.30				
1.15 Wp	1.66 Wp				
0.32 Wp	0,46 Wp				

- THIS CALCULATION ENCOMPASSES WEIGHTS AND VERTICAL C.G. POSITIONS NOT EXCEEDING VALUES SHOWN.
- 3. THIS CALCULATION 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.
- 5. SEE GENERAL NOTES: SHEETS 1 AND 2.



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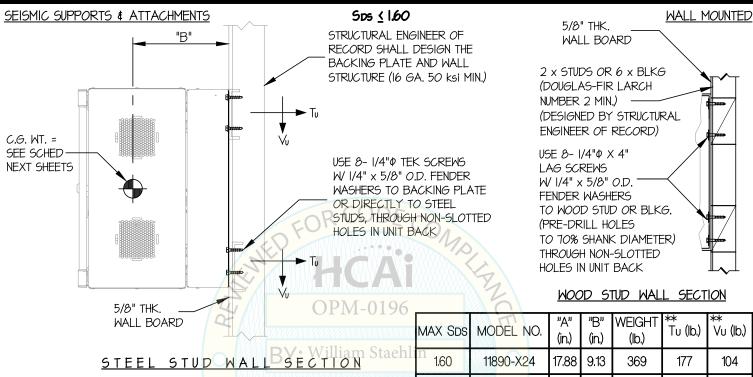
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SHEET

CUBE IT

8/3/23 DATE

SHEETS



DATE: 08/15/2

MOOD STUD WALL SECTION

MAX SDS	MODEL NO.	"A" (in.)	"B" (in.)	WEIGHT (lb.)	** Tu (lb.)	** Vu (lb.)
n 1.60	118 <mark>90-X2</mark> 4	17.88	9.13	369	177	104
1.60	118 <mark>40-X2</mark> 4	17.88	9.13	389	187	110
1.60	11 <mark>996-</mark> X24	17.88	9.13	410	197	115
1.60	11890-X36	30.13	11.88	380	175	107
1.60	11840-X36	30.13	11.88	403	185	114
1.60	11996-X36	30.13	11.88	426	196	120
1.60	11890-X48	42.38	14.63	391	190	110
1.60	11840-X48	42.38	14.63	417	202	117
1.60	11996-X48	42.38	14.63	442	214	125

^{**} VALUES DO NOT INCLUDE Ω_0



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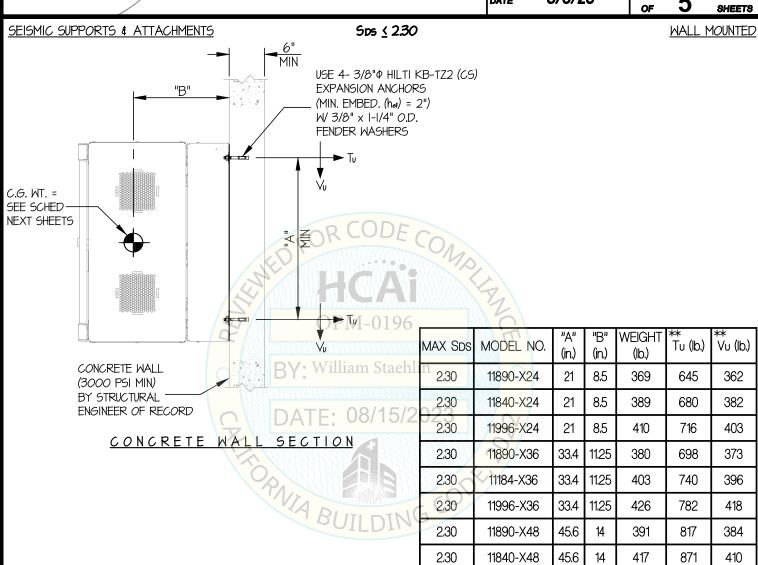
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^{**} VALUES INCLUDE Ω_{\bullet}

11996-X48

45.6

14

442

924

434

2.30

