

# DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

PROVAL OF OFFICE USE ONLY	PPLICATION FOR HCAI PREAPPROVAL OF					
	MANUFACTURER'S CERTIFICATION (OPM)					
cation (OPM)	HCAI Preapproval of Manufacturer's Certification (OPM)					
	Type: New X Renewal/Update					
	Manufacturer Information					
	Manufacturer: SenCorp White					
rossman	Manufacturer's Technical Representative: Scott Crossman					
A 02601	Mailing Address: 400 Kidds Hill Road, Hyannis, MA 02601					
Email: scott.crossman-7288@sencorpwhite.com	Telephone: (508) 771-9400 Email: scott.crossman-7288					
	LEP MAN AND AND AND AND AND AND AND AND AND A					
MACAI	Product Information					
XX8 SERIES0135	Product Name: VERTICAL CAROUSEL 22XXXX-XX8 SERIES 0135					
ipment	Product Type: Other Mechanical & Electrical Equipment					
William Staehlin	Product Model Number: 22XXXX-XX8 SERIES Y: William Staehlin					
d Retrieval System	General Description: Pharmaceutical Storage and Retrieval System					
ATE: 07/00/2023	PATE: 07100/2023					
	Applicant Information					
	Applicant Company Name: EASE LLC.					
ROILDING	Contact Person: Tiffany Tonn					
William Staehlin	Product Model Number: 22XXXX-XX8 SERIES William Staehlin  General Description: Pharmaceutical Storage and Retrieval System  Applicant Information  Applicant Company Name: EASE LLC.					

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





STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY

Mailing Address: 1515 FAIRVIEW AVE, STE 205, MISSOULA, MT 59801

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, C	CA 91709							
Telephone: (951) 295-1892 Email:	jon@EASECo.com							
HCAI Special Seismic Certification Preapproval (C	DSP)							
Special Seismic Certification is preapproved under OS	SP OSP Number:							
OP	CODE							
Certification Method	CODE COMP							
Testing in accordance with:   ICC-ES AC156	FM 1950-16							
Other(s) (Please Specify):	M-0135							
	Building Standards Code, 2022 (CBSC 2022) for component supports, interior partition wall, and suspended ceiling seismic bracings, test used when approved by HCAI prior to testing.							
X Analysis								
Experience Data  DATE:	07/06/2023							
Combination of Testing, Analysis, and/or Experience D	Data (Please Specify):							
PNIA	CODE.							
HCAI Approval	ILDING							
Date: 7/6/2023								
Name: William Staehlin	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-0135

THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE

MANUFACTURER: SenCorpWhite

Sheet: 1 of 4

**EQUIPMENT NAME:** 

**VERTICAL CAROUSEL (22XXXX-XX8 SERIES)** 

Date: 6/22/23

### **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 1.65.
- 4. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE SDS = 1.65,  $\mathbf{a}_P$  = 1.0,  $\mathbf{l}_P$  = 1.5,  $\mathbf{R}_P$  = 1.5,  $\mathbf{z}/\mathbf{h}$  = 0 AT CONCRETE SLAB. SEE FOLLOWING SHEETS FOR  $\Omega_0$
- 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 DETAIL VALID FOR DEMANDS SHOWN AT OR BELOW GRADE. (i.e. z/h = 0)

#### 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.



## **EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING**

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# **\$enCorpWhite**

## VERTICAL CAROUSEL (22XXXX-XX8 SERIES)

DES. J. ROBERSON

**JOB NO.** 11-2316

DATE 6/22/23

SHEET 2

4 <sub>SHEETS</sub>

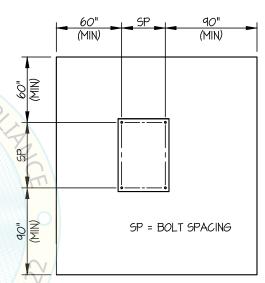
#### 9. EXPANSION ANCHORS:

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

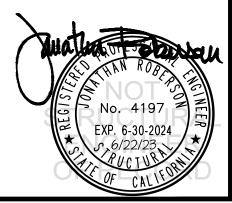
Anchor Diameter	Concrete Type	Min. f'c (psi)	Anchor Type	ICC Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Thickness	Torque Test	Direct Tension Test
5/8"	Normal Weight	4000	Hilti Kwik Bolt TZ2 (CARBON STEEL)	ESR-4266	4"	7"	60"	6"	40 FT-LB	1435 lb

DATF: 07/06/2023

- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 60" 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 1 3 5 RESPONSIBLE CHARGE.
  - (i) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, IN 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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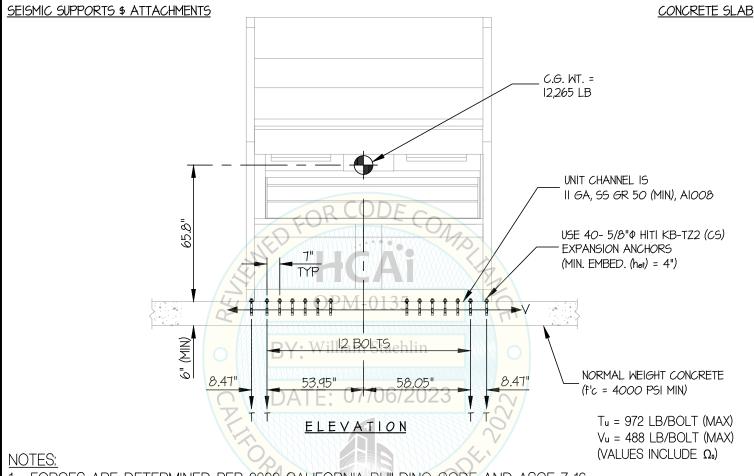
VERTICAL CAROUSEL (22XXXX-XX8 SERIES) DES. J. ROBERSON

**JOB NO.** 11-2316

DATE 6/22/23

3

OF 4 SHEETS



1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: SDS = 1.65, 2p = 1.0, 1p = 1.5, 2p = 1.5, 2p

HORIZONTAL FORCE (Eh) = 0.743 Wp

HORIZONTAL FORCE (Emh) = 1.49 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.33 Wp

2. 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.

4. SEE GENERAL NOTES: SHEETS 1 AND 2



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VERTICAL CAROUSEL (22XXXX-XX8 SERIES)

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6/22/23

11-2316 JOB NO.

DATE

OF SHEETS CONCRETE SLAB

SHEET

SEISMIC SUPPORTS \$ ATTACHMENTS

USE 40- 5/8"Φ HITI KB-TZ2 (CS)

