

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI PR	OFFICE USE ONLY								
MANUFACTURER'S CERTIF	APPLICATION #: OPM-0664								
HCAI Preapproval of Manufacturer's Certification (OPM)									
Type: X New Renewal/Update)								
Manufacturer Information									
Manufacturer: Steris Corporation									
Manufacturer's Technical Representative: Maxime Roberts									
Mailing Address: 490, boul. Armand-Paris, Quebec, QC G1C8A3									
Telephone: () -	Email: maxime_robert@steri	s.com							
	EDINA								
Product Information	ACAI	7							
Product Name: enspireTM 300 Series Auto	omated Endoscope Reprocessor								
Product Type: other mechanical or electri	cal components								
Product Model Number: N/A	BY: Mohammad Aliaari	0							
General Description: cleans, sanitizes and	d dries endoscopes								
R	DATE: 09/00/2022	200							
Applicant Information		Ç,							
Applicant Company Name: EASE LLC.									
Contact Person: Tiffany Tonn	BOILDING								
Mailing Address: 1515 FAIRVIEW AVE, STE 205, MISSOULA, MT 59801									
Telephone: (406) 541-3273	Email: tiffany@easeco.com								

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





Title: Office Manager



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 O								
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: 09/06/2022								
Combination of Testing, Analysis, and/or Experience Data (Please Specify):								
COSE.								
HCAI Approval								
Date: <u>9/6/2022</u>								
Name: Mohammad Aliaari Title: Senior Structural Engineer								
Condition of Approval (if applicable):								

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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-0664

THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE

MANUFACTURER: STERIS CORPORATION

enspire[™] 300 Series Automated Endoscope Reprocessor

Sheet: 1 of 8 Date: 9/1/22

GENERAL NOTES

EQUIPMENT NAME:

- 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 2.00 & 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 = 2.00, \mathbf{a}_P = 1.0, I_P = 1.5, 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. 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.



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JOB NO. 14-2207

DATE 9/1/22

2

8 SHEETS

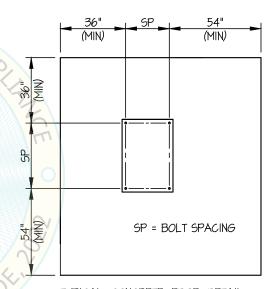
enspire™ 300 Series Automated Endoscope Reprocessor

10. EXPANSION ANCHORS:

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

 Anchor iameter	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	ESR-4266	2"	6.75"	12"	See Detail "A"	30 FT-LB	N/A
3/4"	Normal Weight	3000	Hilti Kwik Bolt TZ2	ESR-4266	3-1/4"	12"	36"	6"	110 FT-LB	4108 lb

- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 36" 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% 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.
- 11. BOLTS THROUGH CONCRETE ON METAL DECK
 - A. BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUTS AFTER THE SNUG TIGHT (THE SNUG-TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQUIRED TO BRING THE CONNECTED PLIES INTO FIRM CONTACT) CONDITION IS ACHIEVED, UNLESS OTHERWISE NOTED.
 - B. THROUGH BOLT HOLES SHALL BE 1/16" LARGER THAN BOLT SIZE (HOLE SIZE = BOLT SIZE + 1/16) FOR CONCRETE.
 - C. THROUGH-BOLTS IN CONCRETE SHALL RECEIVE SPECIAL INSPECTION AND TESTING (THROUGH BOLTS WITH STEEL TO STEEL CONNECTION IN TENSION DO NOT REQUIRE TENSION TESTING) IN ACCORDANCE WITH REQUIREMENTS FOR POST-INSTALLED ANCHORS.



TYPICAL CONCRETE EDGE DETAIL (SLAB ON GRADE ONLY)



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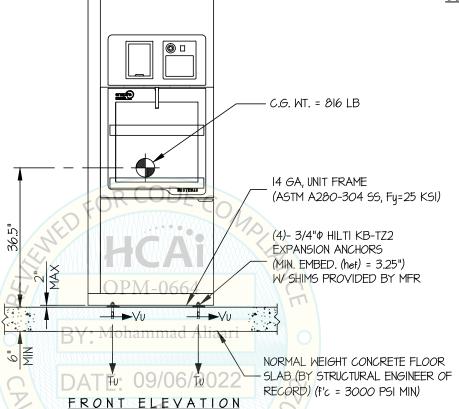
DATE 9/1/22

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8 SHEETS

CONCRETE SLAB





NOTES:

Tu = 1675 LB/BOLT (MAX)Vu = 568 LB/BOLT (MAX)

(VALUES INCLUDE Ω)

1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED:

HORIZONTAL FORCE (Eh) = 0.90 Wp

HORIZONTAL FORCE (Emn) = 1.80 Wo (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.40 Wp

[EXAMPLE PARAMETERS: SDS = 2.00, Ap = 1.0, Ip = 1.5, Rp = 1.5, $\Omega_0 = 2.0$, z/h = 0]

2. THIS PREAPPROVAL ENCOMPASSES WEIGHTS AND VERTICAL C.G. POSITIONS NOT EXCEEDING 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.

5. SEE GENERAL NOTES: SHEETS 1 AND 2.



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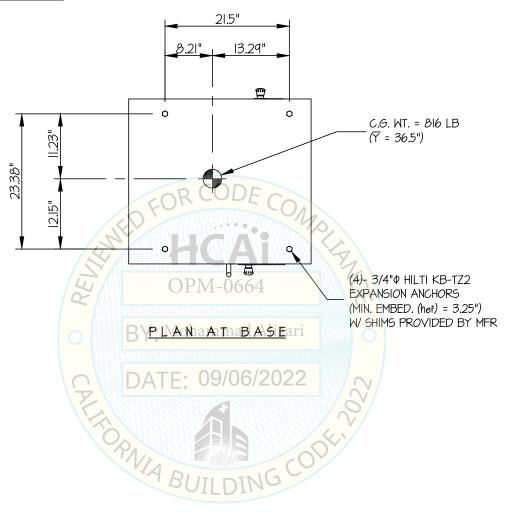
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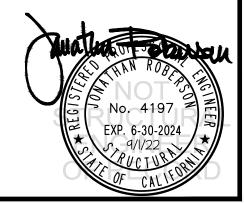
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SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB





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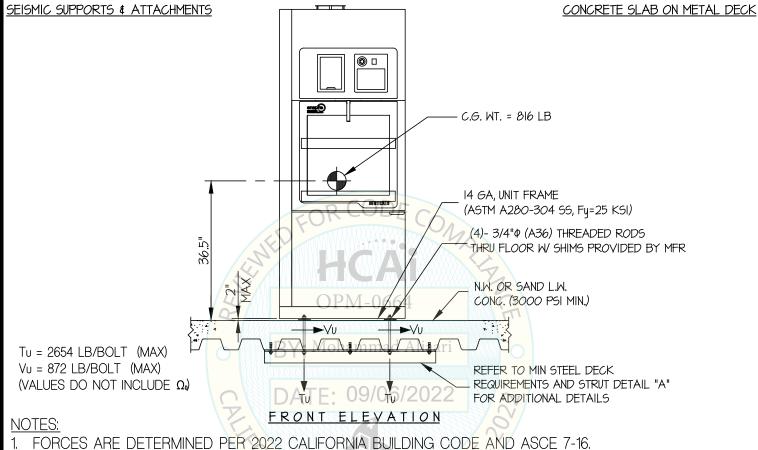
DES. J. ROBERSON

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9/1/22 DATE

SHEET

SHEETS



1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED:

> HORIZONTAL FORCE (Eh) = 2.76 Wp

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

VERTICAL FORCE (Ev) = 0.46 Wp

[EXAMPLE PARAMETERS: SDS = 2.30, Δp = 1.0, |p| = 1.5, Rp = 1.5, Ω_0 = 2.0, $z/h \le 1$]

- 2. THIS PREAPPROVAL ENCOMPASSES WEIGHTS AND VERTICAL C.G. POSITIONS NOT EXCEEDING VALUES SHOWN.
- 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 STOR.
- 4. STRUCTURAL ENGINEER OF RECORD FOR THE INSTALLATION SHALL VERIFY ALL CONDITIONS, EVALUATE INTERACTION WITH ADJACENT EQUIPMENT AND ANCHORS, AND PROVIDE SUPPORT STRUCTURE TO SUPPORT WEIGHTS DESIGNED AND FORCES SHOWN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.
- 5. SEE GENERAL NOTES: SHEETS 1 AND 2.



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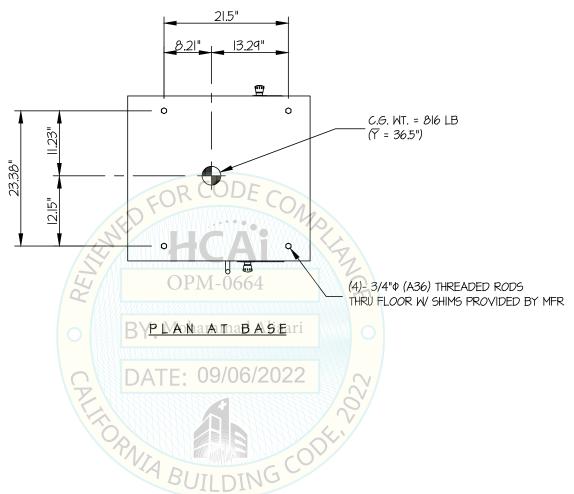
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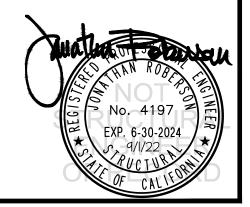
8HEET

8 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK





EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.EquipmentAnchorage.com

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SHEET

SHEETS



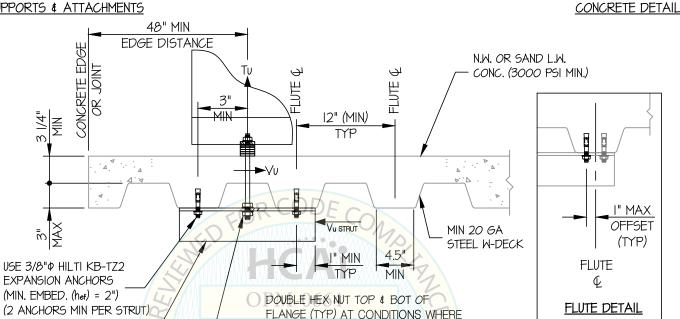
L3 X 3 X I/4" X I'-2" MIN

(A36) AT EACH ANCHOR

ADJACENT FLUTE WHEN

THREADED ROD OCCURS AT FLUTE)

(EXTEND ANGLE TO



NUT CANNOT BE PROVIDED AT TOP

SIDE OF STRUT, PROVIDE TAPPED

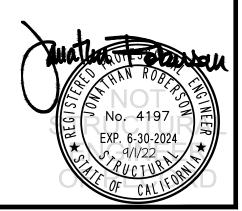
(TORQUE NUTS TO 13 FT-LB)

09/06/2022

HOLE THROUGH STRUT FLANGE.

MIN STEEL DECK REQUIREMENTS AND STRUT DETAIL

PVIA BUILDING CODY



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8 sheets

