

# DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

and the fact of th										
APPLICATION FOR HCAI PREAPPRO	OFFICE USE ONLY APPLICATION #: OPM-0555									
MANUFACTURER'S CERTIFICATION										
HCAI Preapproval of Manufacturer's Certification (OPM)										
Type: New X Renewal/Update										
Manufacturer Information										
Manufacturer: Steris Corporation										
Manufacturer's Technical Representative: Wael Abdul-l	-ladi									
Mailing Address: 490 Boul. Armand-Paris, Quebec, QC	G1C8A3									
Telephone: (418) 664-1549 Ema	nil: Wael_Absul-Hadi@st	teris.com								
MEDFO	MIS									
Product Information	TCAI	Z.								
Product Name: AMSCO 1215/1315 Washer Disinfector	PM-0555	C								
Product Type: Other Mechanical or Electrical Compone	ent									
Product Model Number: 1215, 1315	illiam Staehlin									
General Description: Washing/Disinfecting of Medical I	nstruments and Equipme	ent								
CALLER	10/04/2023	1000 1000 1000 1000 1000 1000 1000 100								
Applicant Information		<u> </u>								
Applicant Company Name: EASE LLC.	CO									
Contact Person: Tiffany Tonn	<b>NILDING</b>									

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

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

**HCAi** 

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								
HCAI Special Seismic Certification Preapproval (OSP)								
Special Seismic Certification is preapproved under OSP OSP Number:								
OR CODE C								
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: 10/04/2023								
Combination of Testing, Analysis, and/or Experience Data (Please Specify):								
OPVIA DE CODE								
HCAI Approval								
Date: 10/4/2023								
Name: William Staehlin Title: Senior Structural Engineer								
Condition of Approval (if applicable):								

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



STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY



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

Office of Statewide Health Planning and Development
PREAPPROVAL OF MANUFACTURER'S CERTIFICATION

**OPM-0555** 

THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE

MANUFACTURER: EQUIPMENT NAME:

**STERIS CORPORATION** 

**AMSCO 1215/1315 WASHER** 

Sheet: <u>1 of 7</u>

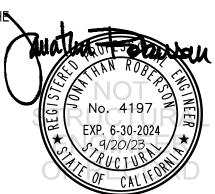
Date: 9/20/23

#### **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 1.70 & 2.20. 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 = 1.70,  $\mathbf{a}_P$  = 1.0,  $\mathbf{I}_P$  = 1.5,  $\mathbf{R}_P$  = 1.5,  $\mathbf{z}/h$  = 0 AT CONCRETE SLAB. SEE FOLLOWING SHEETS FOR  $\Omega_0$  WHERE SDS = 2.20,  $\mathbf{a}_P$  = 1.0,  $\mathbf{I}_P$  = 1.5,  $\mathbf{R}_P$  = 1.5,  $\mathbf{z}/h$  < 1 AT CONCRETE SLAB ON METAL DECK. SEE FOLLOWING SHEETS FOR  $\Omega_0$
- 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.



www.EquipmentAnchorage.com

## STERIS CORPORATION

### AMSCO 1215/1315 WASHER

DES. J. ROBERSON

JOB NO. 14-2307

DATE 9/20/23

SHEET 2

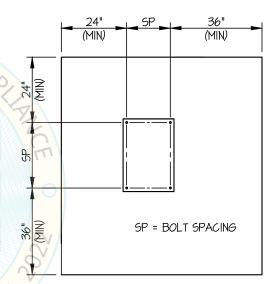
7 <sub>SHEETS</sub>

#### 10. POST INSTALLED ANCHORS:

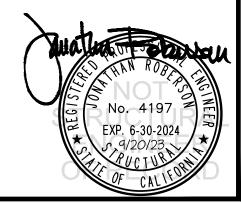
A. ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.

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"	Sand Light Weight	3000	Hilti Kwik Bolt TZ2 (CARBON STEEL)	ESR-4266	4"	12"	12"	See Detail "A"	40 FT-LB	N/A
3/4"	Normal Weight	3000	Hilti HIT-HY 200 V3	ESR-4868	4.75"	4.5"	24"	6.5"	N/A	3865 lb

- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 24" AWAY MINIMUM (i.e. - CORNER).
  SEE ADJACENT DETAIL FOR ADDITIONAL MINIMUM ALLOWABLE CONCRETE EDGE DISTANCES.
- C. TESTING AND SPECIAL INSPECTION OF POST INSTALLED 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 NOT APPLICABLE FOR EPOXY ANCHORS.
  - (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



www.EquipmentAnchorage.com

## STERIS CORPORATION

### AMSCO 1215/1315 WASHER

DES. J. ROBERSON

14-2307 JOB NO.

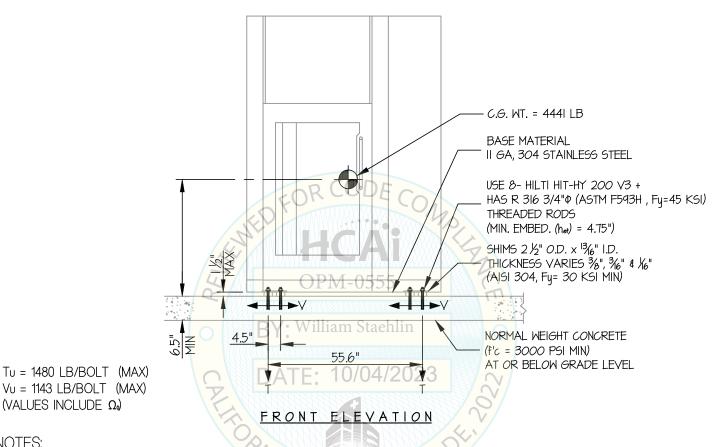
9/20/23 DATE

SHEET

SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB



(VALUES INCLUDE  $\Omega$ )

NOTES:

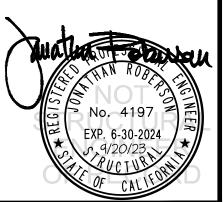
1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: SDS = 1.70,  $\Omega_0$  = 1.0,  $I_D$  = 1.5,  $R_D$  = 1.5,  $\Omega_0$  = 2.0, z/h = 0)

> HORIZONTAL FORCE (Eh) = 0.765 Wp

HORIZONTAL FORCE (Emh) = 1.53 W<sub>D</sub> (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.34 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.



www.EquipmentAnchorage.com

## STERIS CORPORATION

### **AMSCO 1215/1315 WASHER**

DES. J. ROBERSON

14-2307 JOB NO.

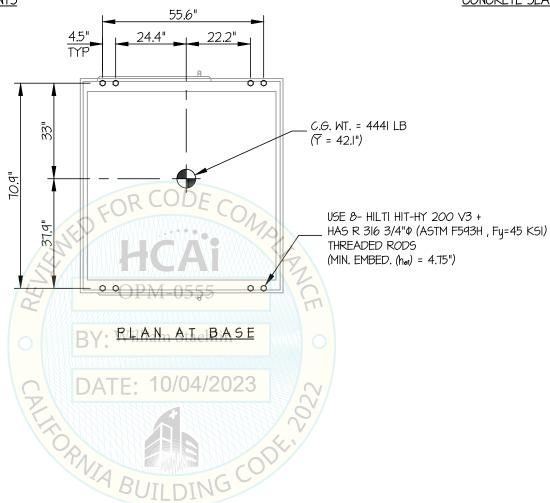
9/20/23 DATE

SHEET

OF SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB





www.EquipmentAnchorage.com

## STERIS CORPORATION

#### **AMSCO 1215/1315 WASHER**

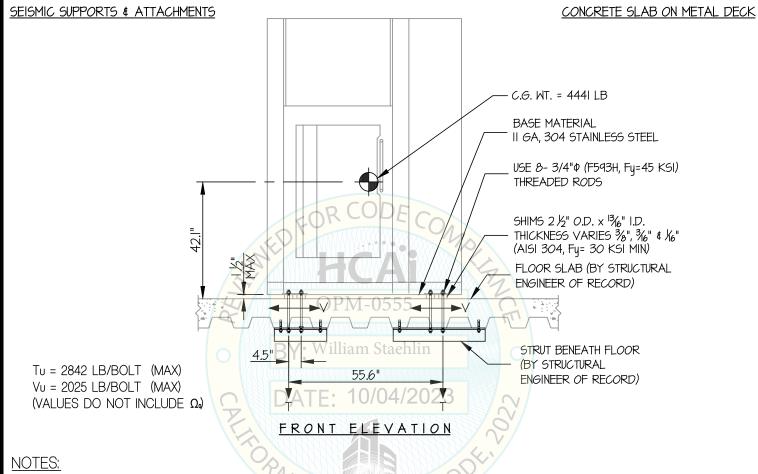
DES. J. ROBERSON

JOB NO. 14-2307

DATE 9/20/23

SHEET 5

7 SHEETS



1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: SDS = 2.20, 20) = 1.0, 10 = 1.5, 100 = 2.0,

HORIZONTAL FORCE (Eh) = 2.64 Wp

HORIZONTAL FORCE (Emh) = 5.28 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.44 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.
- 4. SEE GENERAL NOTES: SHEETS 1 AND 2.



www.EquipmentAnchorage.com

## STERIS CORPORATION

### AMSCO 1215/1315 WASHER

DES. J. ROBERSON

**JOB NO.** 14-2307

DATE 9/20/23

SHEET

SHEETS

SEISMIC SUPPORTS & ATTACHMENTS



# EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.EquipmentAnchorage.com

## STERIS CORPORATION

### AMSCO 1215/1315 WASHER

DES. J. ROBERSON

**JOB NO.** 14-2307

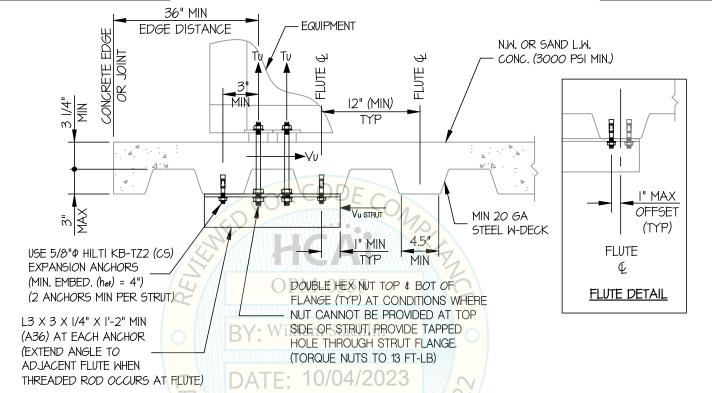
DATE 9/20/23

SHEET 7

7 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE DETAILS



MIN STEEL DECK REQUIREMENTS AND STRUT DETAIL

