

### **DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION**

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<b>APPLICATION FOR HCAI PR</b>	EAPPROVAL OF	OFFICE USE ONLY
MANUFACTURER'S CERTIF	APPLICATION #: OPM-0408	
HCAI Preapproval of Manufacturer's	Certification (OPM)	
Type: New X Renewal/Updat	Э	
Manufacturer Information		
Manufacturer: Steris Corporation		
Manufacturer's Technical Representative:	Wael Abdul-Hadi	
Mailing Address: 490 Boul. Armand-Paris	Quebec, QC G1C8A3	
Telephone: (418) 664-1549	Email: Wael_Absul-Hadi@st	eris.com
	JED MAIN	
Product Information	HCAI	T
Product Name: AMSCO 70 SERIES REP	ROCESSING SINKS 0408	
Product Type: Other Mechanical Compo	nents Constructed of Sheet Metal Fram	ing
Product Model Number: 72(2-Sink, 80" Lo	ong), 72(2-Sink, 94" long), 73(3-sink, 10	06" long) & 73(3-sink. 120" Long)
General Description: Sinks used for clear	ning and decontamination of medical to	ols <mark>and e</mark> quipment
	DATE: 10/02/2023	200
Applicant Information	O <sub>A</sub>	L'
Applicant Company Name: EASE LLC.	TVA	
Contact Person: Tiffany Tonn	BUILDING	

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

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



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
UCAL Chasial Sciemia Cartification Broannrayal (OSB)
HCAI Special Seismic Certification Preapproval (OSP)
Special Seismic Certification is preapproved under OSP OSP Number:
OR CODE C
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: 10/02/2023
Combination of Testing, Analysis, and/or Experience Data (Please Specify):
VIA
HCAI Approval
Date: 10/2/2023
Name: William Staehlin Title: Senior Structural Engineer
Condition of Approval (if applicable):

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

HCAi

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-0408

THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE

MANUFACTURER: STERIS CORPORATION

**AMSCO 70 REPROCESSING SINKS** 

Sheet: 1 of 9 Date: 9/20/23

### **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 1.80 & 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 = 1.80,  $a_p$  = 1.0,  $I_p$  = 1.5,  $R_p$  = 2.5, z/h = 0 AT CONCRETE SLAB. SEE FOLLOWING SHEETS FOR  $\Omega_o$  WHERE SDS = 2.30,  $a_p$  = 1.0,  $I_p$  = 1.5,  $R_p$  = 2.5, z/h = 0 AT CONCRETE SLAB &  $z/h \le 1$  AT CONCRETE SLAB ON METAL DECK. SEE FOLLOWING SHEETS FOR  $\Omega_o$
- 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. 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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## STERIS CORPORATION

AMSCO 70 REPROCESSING SINKS

DES. J. ROBERSON

JOB NO. 14-2307

DATE 9/20/23

SHEET 2

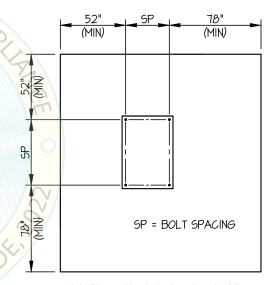
9 SHEETS

### 10. EXPANSION ANCHORS:

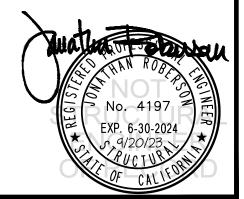
A. ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.

Anchor 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
3/8"	Sand Light Weight	3000	Hilti Kwik Bolt TZ2	ESR-4266	2"	6.75"	12"	See Detail "A"	30 FT-LB	N/A
5/8"	Normal Weight	3000	Hilti Hit-Hy 200 V3	ESR-4868	3.5"	13"	52"	5"	N/A	3716 lb
5/8"	Normal Weight	3000	Hilti Hit-Hy 200 V3	ESR-4868	5"	13"	52"	6"	N/A	5921 lb

- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 52" 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 IAM STARLING 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



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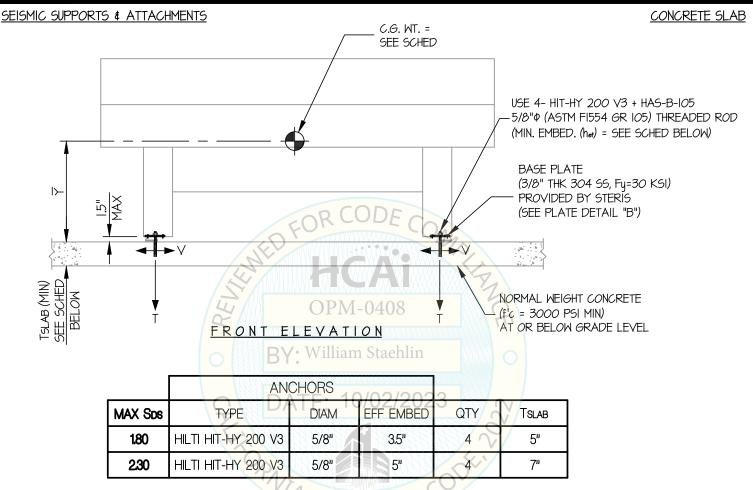
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DATE

9/20/23

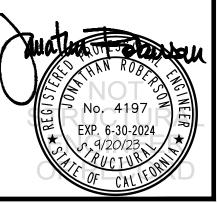
3

9 SHEETS



### NOTES:

- 1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: 2p = 1.0, p = 1.5, p = 2.5, p = 2.5,
- 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.
- 5. SEE GENERAL NOTES: SHEETS 1 AND 2.



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OF

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# AMSCO 70 REPROCESSING SINKS

DES. J. ROBERSON

14-2307 JOB NO.

DATE

9/20/23

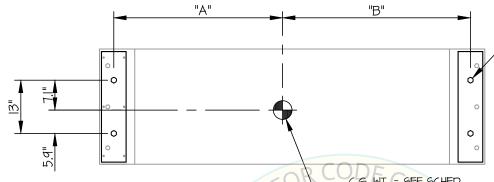
SHEET

SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

MAX Sps ≤ I.80

CONCRETE SLAB

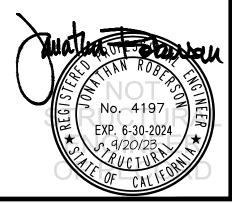


USE 4- HIT-HY 200 V3 + HAS-B-105 5/8"Φ (ASTM FI554 GR 105) (MIN. EMBED. (het) = 3.5")

C.G. WT. = SEE SCHED (Y = SEE SCHED)

### AT BASE

UNIT	LENGTH (in.)	WEIGHT (lb)	<u>/[Y (in.). (</u>	3"A" (in.)	"B" (in.)	Tu (lb.)	* Vu (lb.)	
AMSCO 72 2-BAY SINK	80	1056	30.1	30.6	30.4	1972	596	
AMSCO 72 2-BAY SINK	94	1093	30.6	30.6	30.4	2077	617	
AMSCO 73 3-BAY SINK	106	A 1347	13062	/242.623	44.4	2557	763	
AMSCO 73 3-BAY SINK	120	1366	30.7	42.6	44.4	2602	774	
* VALUES INCLUDE Ω <sub>0</sub>								
VALUES INCLUDE 126 PLA BUILDING								



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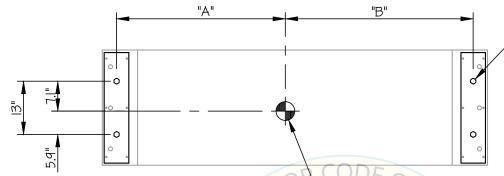
SHEET

SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

1.80 < MAX Sos < 2.30

CONCRETE SLAB



USE 4- HIT-HY 200 V3 + HAS-B-105 5/8"Φ (ASTM FI554 GR 105) (MIN. EMBED.  $(h_{et}) = 5"$ )

C.G. WT. = SEE SCHED (Y = SEE SCHED)

UNIT	LENGTH (in.)	WEIGHT (lb)	"Y" (in.)	"A" (in.)	"B" (in.)	* Tu (lb.)	* Vu (lb.)	
AMSCO 72 2-BAY SINK	80	BY1056Vill	ia <sub>30.1</sub> Sta	1el30.61	30.4	2588	761	
AMSCO 72 2-BAY SINK	94	1093	30.6	30.6	30.4	2726	788	
AMSCO 73 3-BAY SINK	106	1347	30.6	42.6	44.4	3346	975	
AMSCO 73 3-BAY SINK	120	1366	30.7	42.6	44.4	3404	989	
* VALUES INCLUDE Ω₀								
* VALUES INCLUDE Ω <sub>0</sub>								



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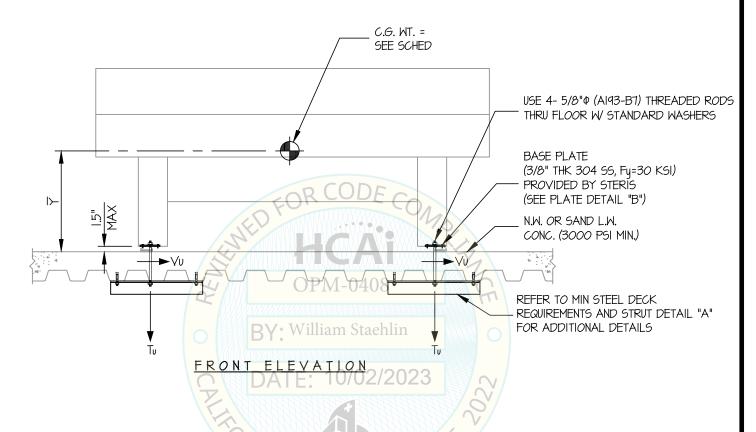
DATE 9/20/23

SHEET 6

9 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK



### NOTES:

FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: SDS = 2.30, 20,

HORIZONTAL FORCE (Eh) = 1.66 Wp

HORIZONTAL FORCE (Emh) = 3.32 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.46 Wp

2. THIS PREAPPROVAL ENCOMPASSES WEIGHTS AND VERTICAL CG POSITIONS UP TO THE VALUES SHOWN.

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5. SEE GENERAL NOTES: SHEETS 1 AND 2.



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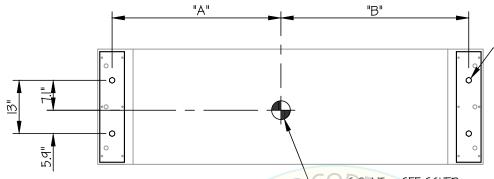
DATE 9/20/23

SHEET 7

SHEETS

### SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK



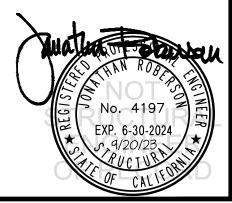
USE 4- 5/8"¢ (AI93-BT) THREADED RODS THRU FLOOR W/ STANDARD WASHERS

C.G. WT. = SEE SCHED  $(\overline{Y} = SEE SCHED)$ 

### PLAN AT BASE

UNIT	LENGTH (in.)	WEIGHT (lb)	\"\Y"-(jn.)4(	)"A" (in.)	"B" (in.)	Tu (lb.)	** Vu (lb.)
AMSCO 72 2-BAY SINK	80	1056	30.1	30.6	30.4	2050	611
AMSCO 72 2-BAY SINK	94	1093	30.6	30.6	30.4	2160	632
AMSCO 73 3-BAY SINK	106	<u> </u>	1 30.60 2	42.62	3 44.4	2656	782
AMSCO 73 3-BAY SINK	120	1366	30.7	42.6	44.4	2703	793

<sup>\*\*</sup> VALUES DO NOT INCLUDE  $\Omega_{
m o}$ 



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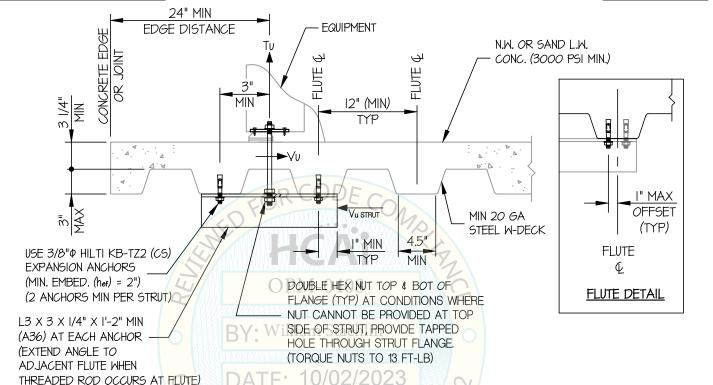
9/20/23 DATE

SHEET

SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE DETAIL



MIN STEEL DECK REQUIREMENTS AND STRUT DETAIL



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OF

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# AMSCO 70 REPROCESSING SINKS

DES. J. ROBERSON

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DATE 9/20/23

SHEET

9 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

PLATE DETAIL

