APPLICATION FOR HCAI PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM)

OFFICE USE ONLY

APPLICATION #: OPM-0073

HCAI Preapproval of Manufacturer's Certification (OPM)

Type: ☐ New ☒ Renewal/Update

Manufacturer Information

Manufacturer: Steris Corporation

Manufacturer's Technical Representative: Zach Miday

Mailing Address: 5900 Heisley Rd., Mentor, OH 44060

Telephone: (440) 280-2381 Email: zach_miday@steris.com

Product Information

Product Name: Amsco 400, Evolution and 630 LS Series Sterilizers

Product Type: Other Electrical & Mechanical Components

Product Model Number: Amsco 400: 36SD, 48SD, 60SD, 36 DD, 48DD, 60 DD; Evolution: 42SD 54SD 66SD 42DD 54DD, 66DD; 630LS: 42SD, 54SD 66SD 42DD 54DD 66DD

General Description: Sterilizer used to sanitize medical instruments

Applicant Information

Applicant Company Name: EASE LLC.

Contact Person: Tiffany Tonn

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

Telephone: (406) 541-3273 Email: tiffany@easeco.com

Title: Office Assistant

REVIEWED FOR CODE COMPLIANCE
HCAI
OPM-0073
BY William Staehlin
DATE: 03/04/2026
CALIFORNIA BUILDING CODE 2025

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

Certification Method

Testing in accordance with: ☐ ICC-ES AC156 ☐ FM 1950 ☐ ASHRAE 171 ☐ FEMA 461

☐ Other(s) (Please Specify):

*Use of criteria other than those adopted by the California Building Standards Code, 2025 (CBSC 2025) 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 2025 may be used when approved by HCAI prior to testing.

☒ Analysis

☐ Experience Data

☐ Combination of Testing, Analysis, and/or Experience Data (Please Specify):

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BY: William Staehlin
DATE: 03/04/2026
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HCAI Approval

Date: 3/4/2026

Name: William Staehlin Title: Senior Structural Engineer

Condition of Approval (if applicable):

EASE
EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING
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-0073

THIS PREAPPROVAL CONFORMS TO THE 2025 CALIFORNIA BUILDING CODE

MANUFACTURER: **STERIS CORPORATION**

EQUIPMENT NAME: **AMSCO 400, EVOLUTION & 630LS STEAM STERILIZERS**

Date: 2/25/26

GENERAL NOTES

1. THIS HCAI PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2025 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2025 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 2025 CALIFORNIA BUILDING CODE WHERE SDS IS NOT GREATER THAN 1.30,1.40,1.60,1.70 & 2.00.
4. FORCES PER ASCE 7-22 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3,

   WHERE S_{DS} =1.30,I_p=1.5,C_{AR}=1.0,R_{po}=1.5,z/h=0,(R_μ =1.0,H_f =1.0) AT CONCRETE SLAB AT OR BELOW GRADE. SEE FOLLOWING SHEETS FOR Ω_{op}

   WHERE S_{DS} =1.40,I_p=1.5,C_{AR}=1.0,R_{po}=1.5,z/h=0,(R_μ =1.0,H_f =1.0) AT CONCRETE SLAB AT OR BELOW GRADE. SEE FOLLOWING SHEETS FOR Ω_{op}

   WHERE S_{DS} =1.60,I_p=1.5,C_{AR}=1.0,R_{po}=1.5,z/h=0,(R_μ =1.0,H_f =1.0) AT CONCRETE SLAB AT OR BELOW GRADE. SEE FOLLOWING SHEETS FOR Ω_{op}

   WHERE S_{DS} =1.70,I_p=1.5,C_{AR}=1.0,R_{po}=1.5,z/h=0,(R_μ =1.0,H_f =1.0) AT CONCRETE SLAB AT OR BELOW GRADE. SEE FOLLOWING SHEETS FOR Ω_{op}

   WHERE S_{DS} =2.00, I_p = 1.5, C_{AR} = 1.0, R_{po} = 1.5, z/h $\leq$ 0.95, (R_μ =1.3, H_f = 3.375) AT CONCRETE SLAB ON METAL DECK.

   SEE FOLLOWING SHEETS FOR Ω_{op}
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 $\leq$ 0.95)
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.

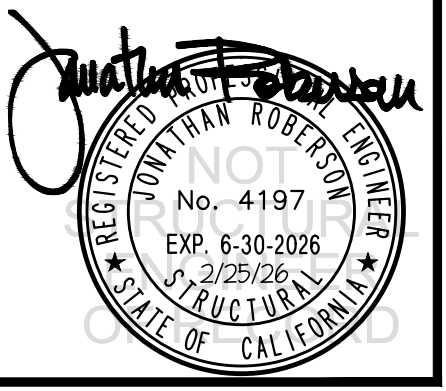
   B. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2025 CBC AND WITH THE DETAILS, MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PREAPPROVAL DOCUMENTS.

   C. VERIFY THAT PROJECT SPECIFIC SEISMIC PARAMETERS RESULT IN SEISMIC FORCES (E_h, E_v) THAT DO NOT EXCEED THE VALUES IN THIS OPM.

   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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DATE: 03/04/2026
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NOT STRUCTURAL ENGINEER OF RECORD

STERIS CORPORATION

AMSCO 400, EVOLUTION & 630LS STEAM STERILIZERS

DES. J. ROBERSON | JOB NO. 14-2522 | DATE 2/25/26 | SHEET 2 OF 13 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
1/2"	Sand Light Weight	3000	DEWALT PS-SD2	ESR-2502	2"	9.75"	24"	See Detail "A"	40 FT-LB	N/A
3/8"	Normal Weight	3000	DEWALT PS-SD4	ESR-2502	1-1/2"	12"	12"	3-1/4"	25 FT-LB	709 lb
3/4"	Normal Weight	3000	DEWALT PS-SD4	ESR-2502	3-3/4"	12"	40"	6"	110 FT-LB	5090 lb
3/4"	Normal Weight	3000	Hilti Kwik Bolt TZ2 (STAINLESS STEEL)	ESR-4266	4-3/4"	12"	28"	8"	110 FT-LB	5874 lb

B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 12", 28" OR 40" (SEE SCHEDULE) 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) DIRECT PULL TENSION TEST OR TORQUE TEST AT LEAST 50% OF THE ANCHORS.

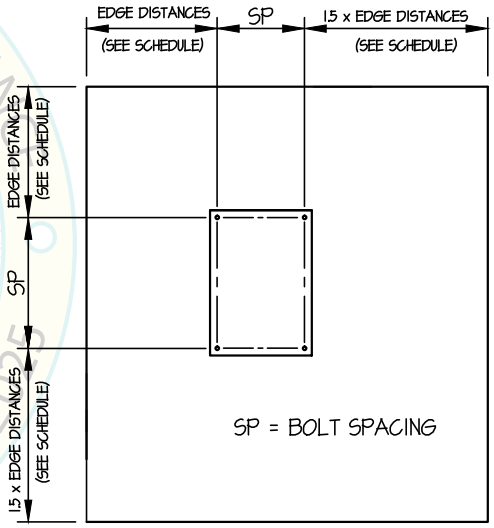
(ii) ACCEPTANCE CRITERIA:

- 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.



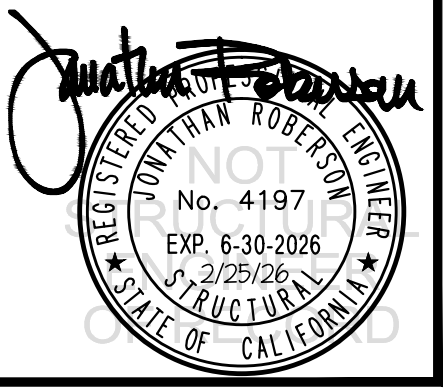
TYPICAL CONCRETE EDGE DETAIL
(SLAB AT OR BELOW GRADE ONLY)

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.



ICC-ES
OPM-0073
BY: William Staehlin
DATE: 03/04/2026
REVIEWED FOR CODE COMPLIANCE
CALIFORNIA BUILDING CODE, 2025
NOT STRUCTURAL ENGINEER OF RECORD

STERIS CORPORATION

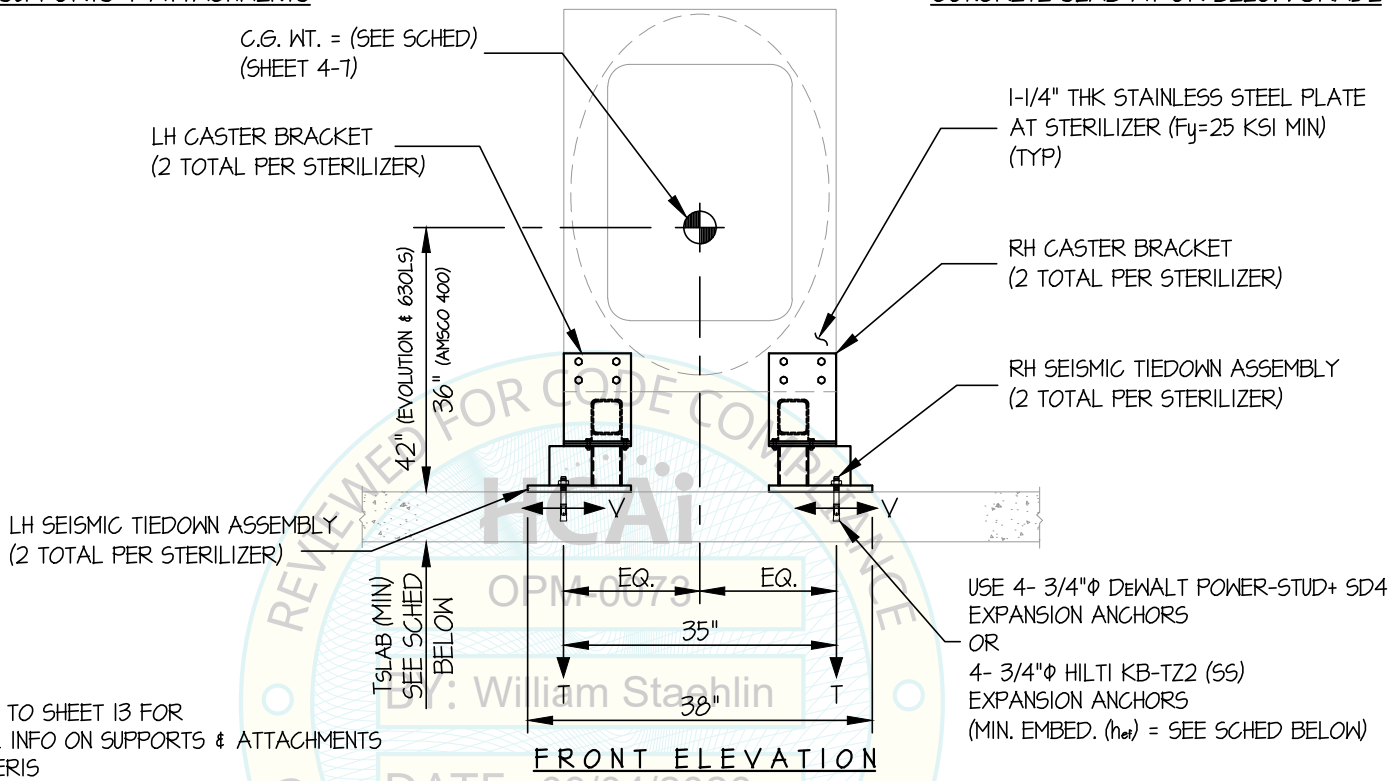
AMSCO 400, EVOLUTION & 630LS STEAM STERILIZERS

DES. J. ROBERSON
JOB NO. 14-2522
DATE 2/25/26

SHEET 3 OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB AT OR BELOW GRADE



FRONT ELEVATION

NOTE:
REFER TO SHEET 13 FOR ADDTL INFO ON SUPPORTS & ATTACHMENTS BY STERIS

	ANCHORS					
MAX S_{DS}	TYPE	DIAM	EFF EMBED	QTY	T_{SLAB}	MODEL
1.30	DEWALT POWER-STUD+ SD4	3/4"	3.75"	4	6"	AMSCO 400
1.40	DEWALT POWER-STUD+ SD4	3/4"	3.75"	4	6"	EVOLUTION & 630LS
1.60	HILTI KB-TZ2 (SS)	3/4"	4.75"	4	8"	AMSCO 400
1.70	HILTI KB-TZ2 (SS)	3/4"	4.75"	4	8"	EVOLUTION & 630LS

NOTES:

1. FORCES ARE DETERMINED PER 2025 CALIFORNIA BUILDING CODE AND ASCE 7-22. STRENGTH DESIGN IS USED. (EXAMPLE: I_p=1.5, C_{AR}=1.0, R_{po}=1.5, Ω_{op}=2.0, R_J =1.0, H_f=1.0, 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

REGISTERED PROFESSIONAL ENGINEER
JONATHAN ROBERSON
No. 4197
EXP. 6-30-2026
STRUCTURAL
STATE OF CALIFORNIA
2/25/26

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DES. J. ROBERSON
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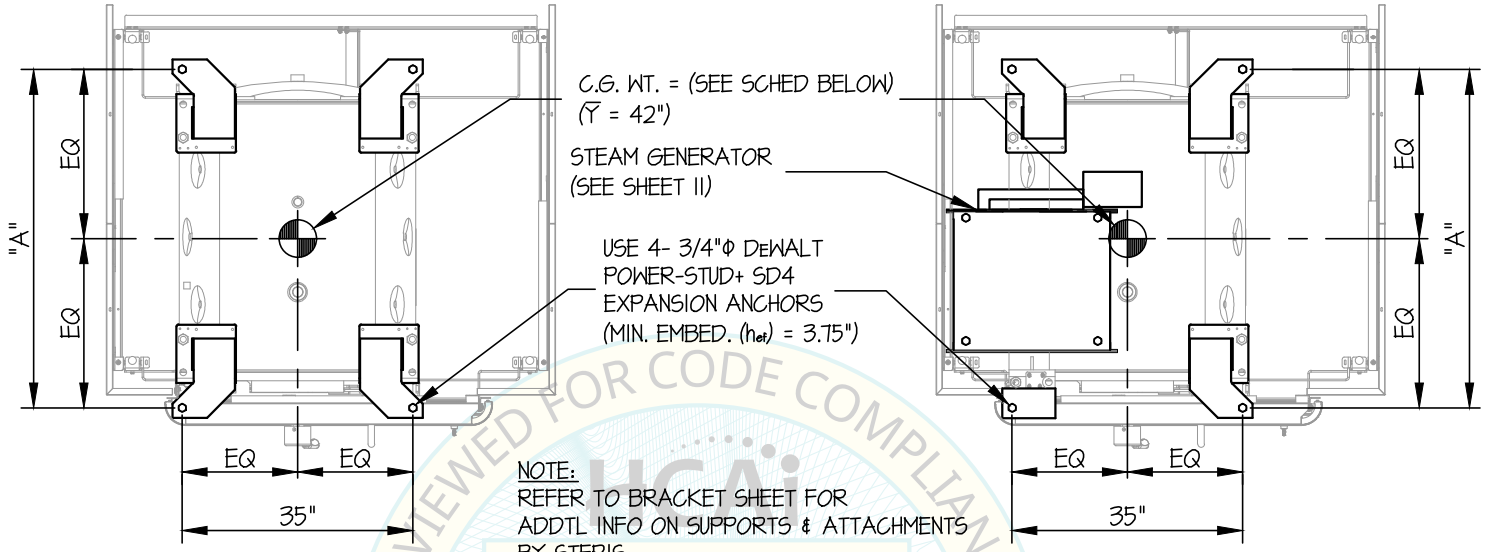
DATE 2/25/26
SHEET 4 OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

$S_{DS} \leq 1.40$

CONCRETE SLAB AT OR BELOW GRADE



PLAN AT BASE
(STANDARD SEISMIC BASE)

NOTE:
REFER TO BRACKET SHEET FOR ADDTL INFO ON SUPPORTS & ATTACHMENTS BY STERIS

PLAN AT BASE
(STEAM GENERATOR SEISMIC BASE)

MODEL	UNIT SIZE	WEIGHT (LB)	DIM. "A" (IN.)	* T_u (LB/BOLT)	* V_u (LB/BOLT)
EVOLUTION & 630LS 42 SD	65 X 91.25 X 77.25	3800	51.375	2871	1556
EVOLUTION & 630LS 54 SD	77 X 91.25 X 77.25	4200	63.375	3050	1720
EVOLUTION & 630LS 66 SD	89 X 91.25 X 77.25	4700	75.375	3320	1925
EVOLUTION & 630LS 42 DD	62.25 X 91.25 X 77.25	3800	51.875	2865	1556
EVOLUTION & 630LS 54 DD	65.25 X 91.25 X 77.25	4200	63.875	3046	1720
EVOLUTION & 630LS 66 DD	77.25 X 91.25 X 77.25	4700	75.875	3316	1925

* VALUES INCLUDE Ω_{op}

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STERIS CORPORATION

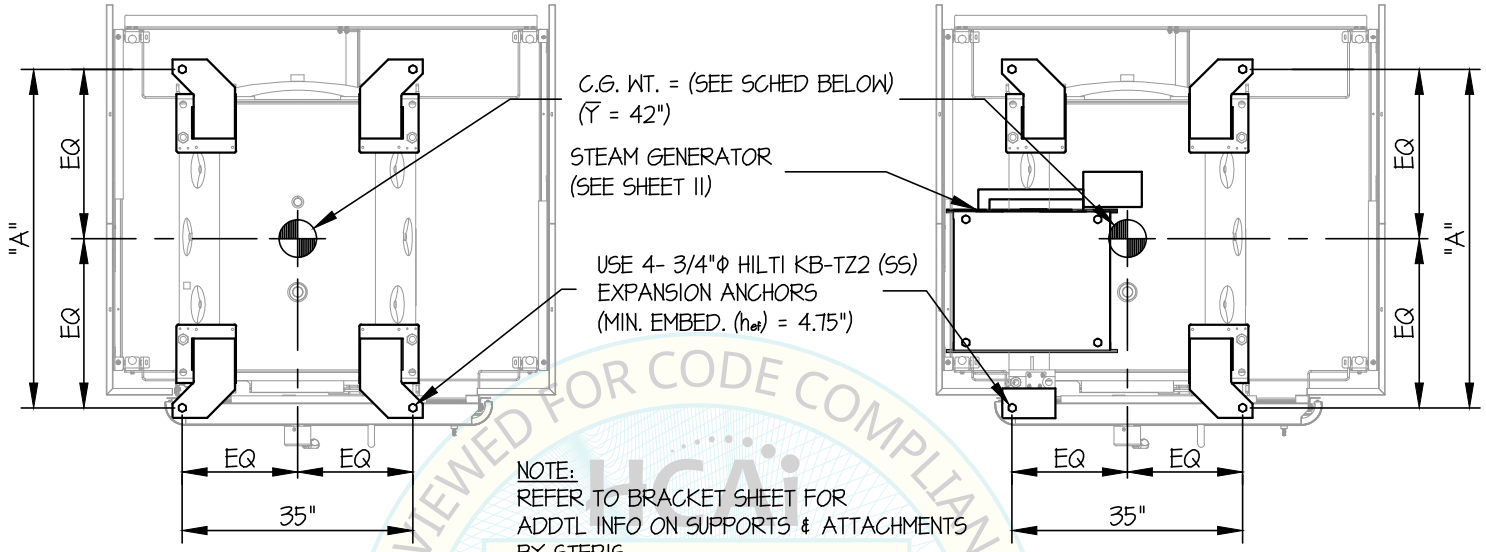
AMSCO 400, EVOLUTION & 630LS STEAM STERILIZERS

DES. J. ROBERSON
JOB NO. 14-2522
DATE 2/25/26
SHEET 5 OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

$S_{DS} \leq 1.70$

CONCRETE SLAB AT OR BELOW GRADE



NOTE:
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PLAN AT BASE
(STANDARD SEISMIC BASE)

PLAN AT BASE
(STEAM GENERATOR SEISMIC BASE)

MODEL	UNIT SIZE	WEIGHT (LB)	DIM.T"A" (IN.)	* T_u (LB/BOLT)	* V_u (LB/BOLT)
EVOLUTION & 630LS 42 SD	65 X 91.25 X 77.25	3800	51.375	3669	1890
EVOLUTION & 630LS 54 SD	77 X 91.25 X 77.25	4200	63.375	3906	2088
EVOLUTION & 630LS 66 SD	89 X 91.25 X 77.25	4700	75.375	4258	2337
EVOLUTION & 630LS 42 DD	62.25 X 91.25 X 77.25	3800	51.875	3662	1890
EVOLUTION & 630LS 54 DD	65.25 X 91.25 X 77.25	4200	63.875	3901	2088
EVOLUTION & 630LS 66 DD	77.25 X 91.25 X 77.25	4700	75.875	4254	2337

* VALUES INCLUDE Ω_{op}

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AMSCO 400, EVOLUTION & 630LS STEAM STERILIZERS

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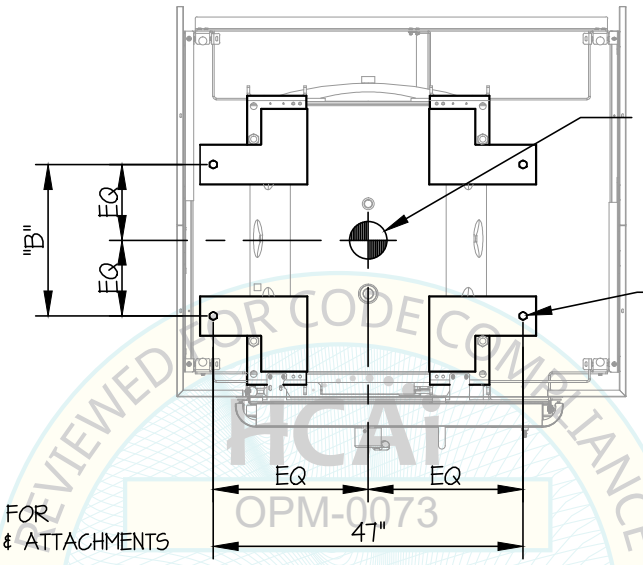
SHEET 6 OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS — $S_{DS} \leq 1.30$ — CONCRETE SLAB AT OR BELOW GRADE

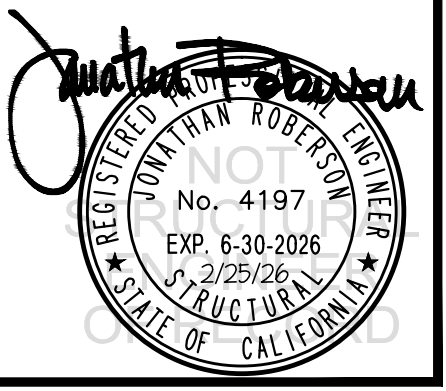


PLAN AT BASE
(AMSCO 400)

NOTE:
REFER TO BRACKET SHEET FOR ADDTL INFO ON SUPPORTS & ATTACHMENTS BY STERIS

MODEL	UNIT SIZE	WEIGHT (LB)	DIM. "B" (IN.)	* T_u (LB/BOLT)	* V_u (LB/BOLT)
AMSCO 400 36 SD	63.5 X 70 X 75.25	3800	23	3382	1445
AMSCO 400 48 SD	75.5 X 70 X 75.25	4200	35	2420	1597
AMSCO 400 60 SD	87.5 X 70 X 75.25	4700	47	1986	1787
AMSCO 400 36 DD	62.25 X 70 X 75.25	3800	23.5	3308	1445
AMSCO 400 48 DD	74.25 X 70 X 75.25	4200	35.5	2384	1597
AMSCO 400 60 DD	86.25 X 70 X 75.25	4700	47.5	1979	1787

* VALUES INCLUDE Ω_{op}



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STERIS CORPORATION

AMSCO 400, EVOLUTION & 630LS STEAM STERILIZERS

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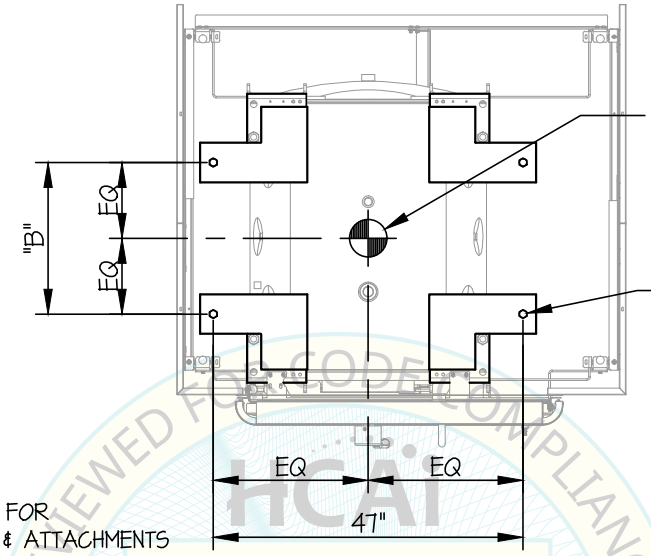
SHEET 7 OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

$S_{DS} \leq 1.60$

CONCRETE SLAB AT OR BELOW GRADE



PLAN AT BASE
(AMSCO 400)

NOTE:
REFER TO BRACKET SHEET FOR ADDTL INFO ON SUPPORTS & ATTACHMENTS BY STERIS

MODEL	UNIT SIZE	WEIGHT (LB)	DIM. "B" (IN.)	* T_u (LB/BOLT)	* V_u (LB/BOLT)
AMSCO 400 36 SD	63.5 X 70 X 75.25	3800	23	4360	1778
AMSCO 400 48 SD	75.5 X 70 X 75.25	4200	35	3196	1966
AMSCO 400 60 SD	87.5 X 70 X 75.25	4700	47	2688	2200
AMSCO 400 36 DD	62.25 X 70 X 75.25	3800	23.5	4269	1778
AMSCO 400 48 DD	74.25 X 70 X 75.25	4200	35.5	3152	1966
AMSCO 400 60 DD	86.25 X 70 X 75.25	4700	47.5	2680	2200

* VALUES INCLUDE Ω_{op}

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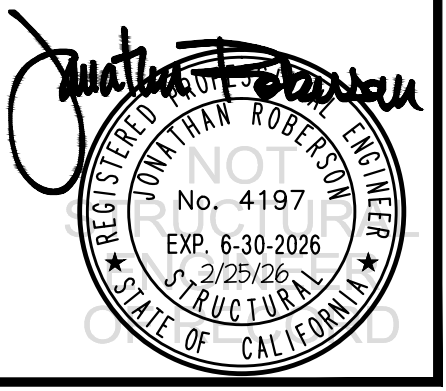
2022 CALIFORNIA BUILDING CODE



NOT STRUCTURAL ENGINEER CERTIFIED

STERIS CORPORATION

AMSCO 400, EVOLUTION & 630LS STEAM STERILIZERS

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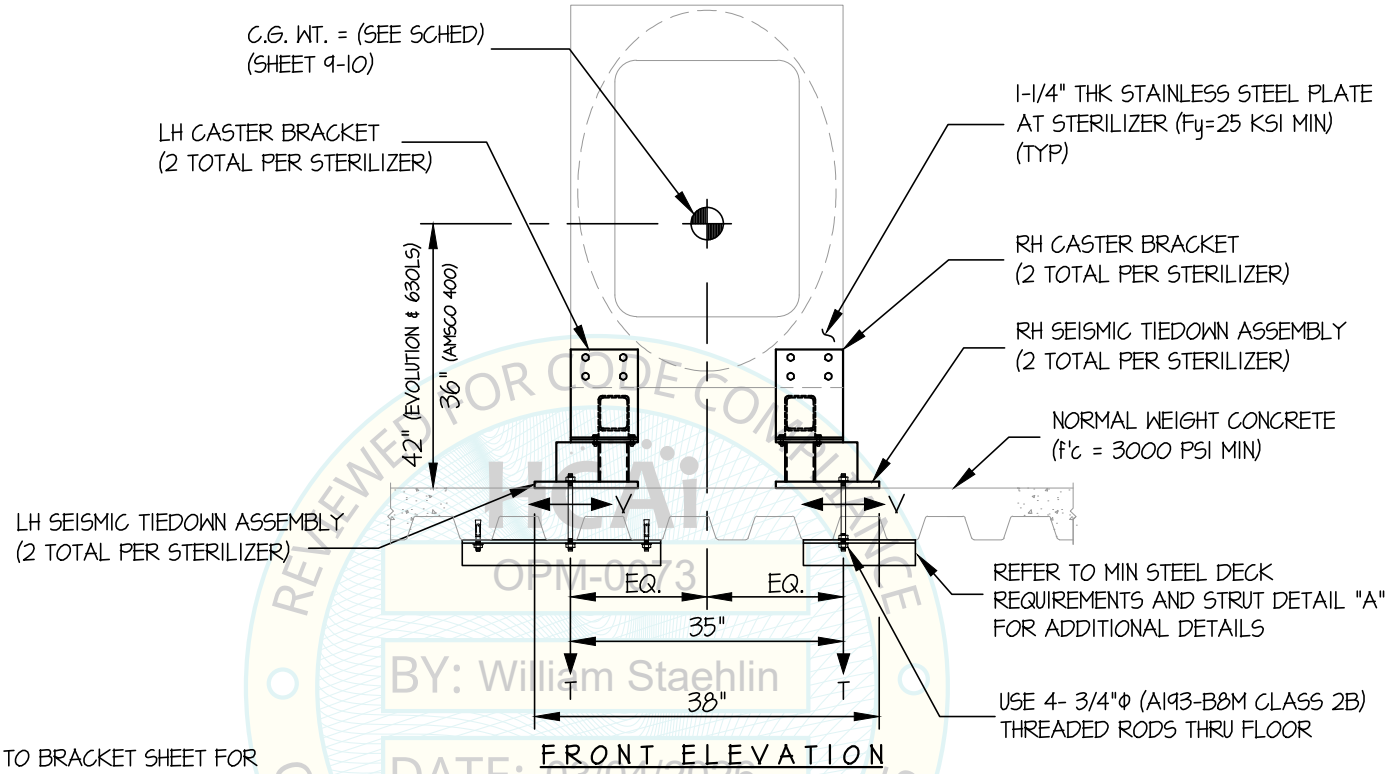
SHEET 8 OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK



FRONT ELEVATION

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NOTES:

1. FORCES ARE DETERMINED PER 2025 CALIFORNIA BUILDING CODE AND ASCE 7-22. STRENGTH DESIGN IS USED. (EXAMPLE: S_{DS}=2.00, I_p=1.5, C_{AR}=1.0, R_{po}=1.5, Ω_{op}=2.0, R_U=1.3, H_f=3.375, $z/h \leq 0.95$)

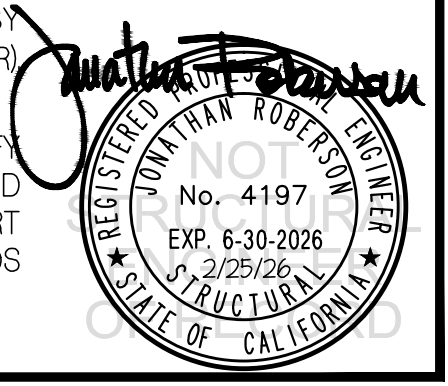
   HORIZONTAL FORCE (E_h) = 2.08 Wp
   HORIZONTAL FORCE (E_{mh}) = 4.16 Wp (FOR CONCRETE ANCHORAGE)
   VERTICAL FORCE (E_v) = 0.40 Wp

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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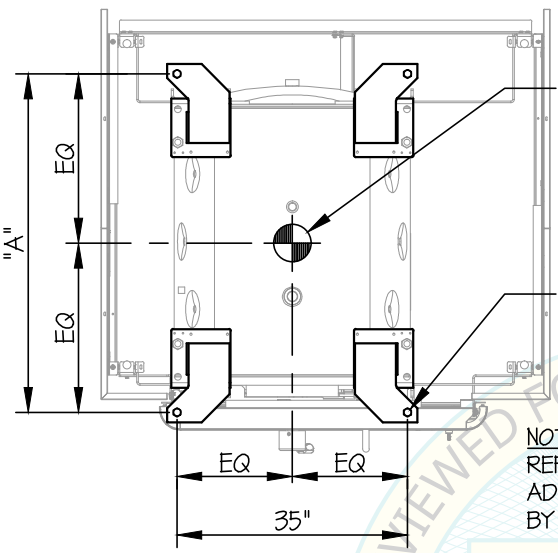
SHEET 9 OF 13 SHEETS

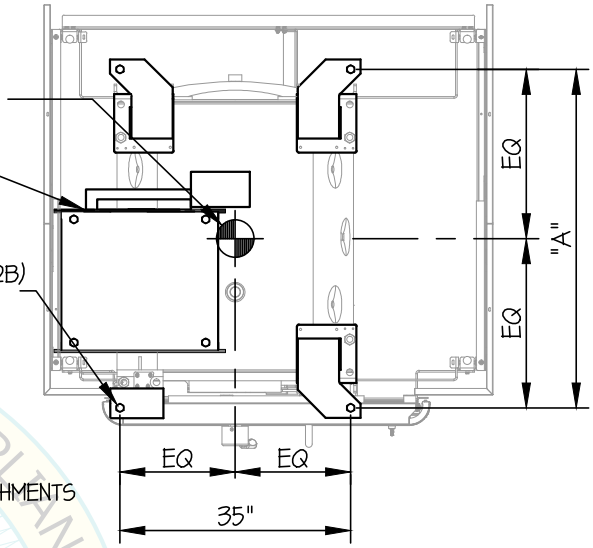
SEISMIC SUPPORTS & ATTACHMENTS

$S_{DS} \leq 2.00$

CONCRETE SLAB ON METAL DECK



PLAN AT BASE
(STANDARD SEISMIC BASE)

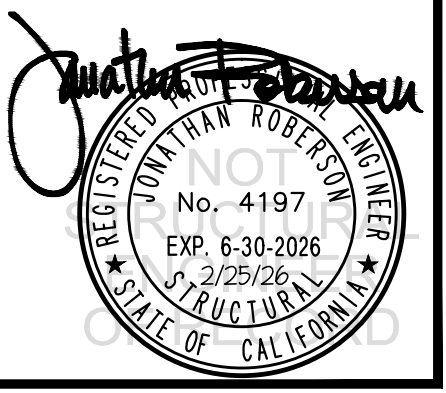


PLAN AT BASE
(STEAM GENERATOR SEISMIC BASE)

NOTE:
REFER TO BRACKET SHEET FOR ADDTL INFO ON SUPPORTS & ATTACHMENTS BY STERIS

MODEL	UNIT SIZE	WEIGHT (LB)	DIM. "A" (IN.)	* T_u (LB/BOLT)	* V_u (LB/BOLT)
EVOLUTION & 630LS 42 SD	65 X 91.25 X 77.25	3800	51.375	5237	2569
EVOLUTION & 630LS 54 SD	77 X 91.25 X 77.25	4200	63.375	5585	2839
EVOLUTION & 630LS 66 SD	89 X 91.25 X 77.25	4700	75.375	6095	3177
EVOLUTION & 630LS 42 DD	62.25 X 91.25 X 77.25	3800	51.875	5227	2569
EVOLUTION & 630LS 54 DD	65.25 X 91.25 X 77.25	4200	63.875	5578	2839
EVOLUTION & 630LS 66 DD	77.25 X 91.25 X 77.25	4700	75.875	6090	3177

* VALUES DO NOT INCLUDE Ω_{op}



OPM-0073
BY: William Staehlin
DATE: 03/04/2026
NOT STRUCTURAL ENGINEER OF RECORD

STERIS CORPORATION

AMSCO 400, EVOLUTION & 630LS STEAM STERILIZERS

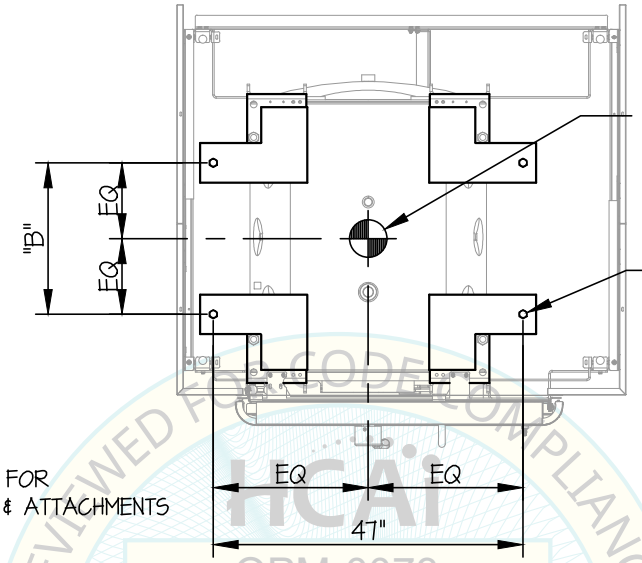
DES. J. ROBERSON
JOB NO. 14-2522
DATE 2/25/26

SHEET 10 OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

$S_{DS} \leq 2.00$

CONCRETE SLAB ON METAL DECK

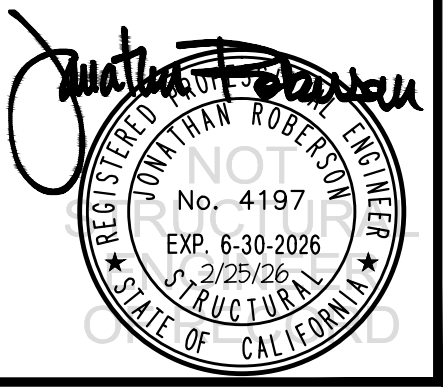


PLAN AT BASE
(AMSCO 400)

NOTE:
REFER TO BRACKET SHEET FOR ADDTL INFO ON SUPPORTS & ATTACHMENTS BY STERIS

MODEL	UNIT SIZE	WEIGHT (LB)	DIM. "B" (IN.)	** T_U (LB/BOLT)	** V_U (LB/BOLT)
AMSCO 400 36 SD	63.5 X 70 X 75.25	3800	23	6619	2569
AMSCO 400 48 SD	75.5 X 70 X 75.25	4200	35	4972	2839
AMSCO 400 60 SD	87.5 X 70 X 75.25	4700	47	4280	3177
AMSCO 400 36 DD	62.25 X 70 X 75.25	3800	23.5	6487	2569
AMSCO 400 48 DD	74.25 X 70 X 75.25	4200	35.5	4908	2839
AMSCO 400 60 DD	86.25 X 70 X 75.25	4700	47.5	4268	3177

** VALUES DO NOT INCLUDE Ω_{op}



REVIEWED FOR CODE COMPLIANCE
HCAI
OPM-0073
BY: William Staehlin
DATE: 03/04/2026
2022 CALIFORNIA BUILDING CODE
NOT STRUCTURAL ENGINEER OF RECORD

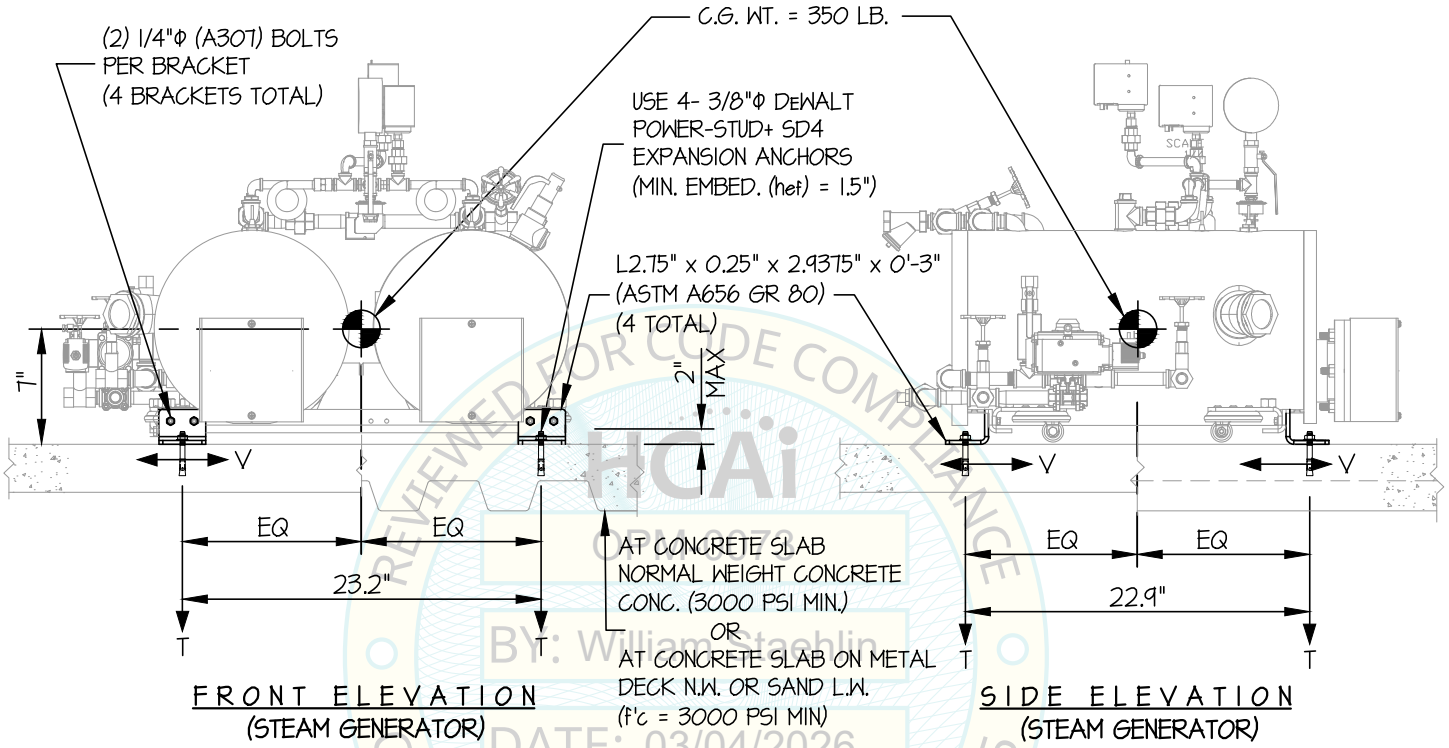
STERIS CORPORATION

AMSCO 400, EVOLUTION & 630LS STEAM STERILIZERS

DES. J. ROBERSON
JOB NO. 14-2522
DATE 2/25/26
SHEET 11 OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK



FRONT ELEVATION
(STEAM GENERATOR)

SIDE ELEVATION
(STEAM GENERATOR)

Tu = 245 LB/BOLT (MAX)
Vu = 474 LB/BOLT (MAX)
(VALUES INCLUDE Ω_{op})

NOTES:

1. FORCES ARE DETERMINED PER 2025 CALIFORNIA BUILDING CODE AND ASCE 7-22. STRENGTH DESIGN IS USED. (EXAMPLE: S_{DS}=2.00, I_p=1.5, C_{AR}=1.0, R_{po}=1.5, Ω_{op}=2.0, R_U=1.3, H_f=3.375, z/h=0.95)

   HORIZONTAL FORCE (Eh) = 2.08 Wp
   HORIZONTAL FORCE (Emh) = 4.16 Wp (FOR CONCRETE ANCHORAGE)
   VERTICAL FORCE (Ev) = 0.40 Wp

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

REGISTERED PROFESSIONAL ENGINEER
JONATHAN ROBERSON
No. 4197
EXP. 6-30-2026
2/25/26
STRUCTURAL
STATE OF CALIFORNIA

HCAi
OPM-0073
BY: William Staehlin
DATE: 03/04/2026
REVIEWED FOR CODE COMPLIANCE
CALIFORNIA BUILDING CODE 2025
NOT STRUCTURALLY ENGINEERED OR REVIEWED

STERIS CORPORATION

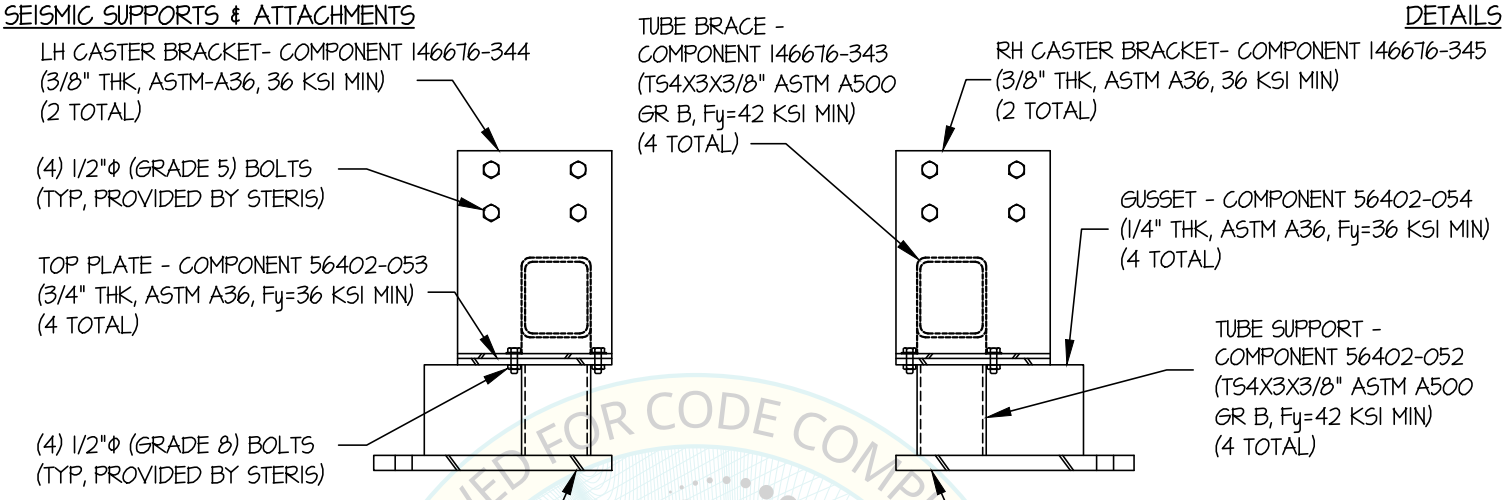
AMSCO 400, EVOLUTION & 630LS STEAM STERILIZERS

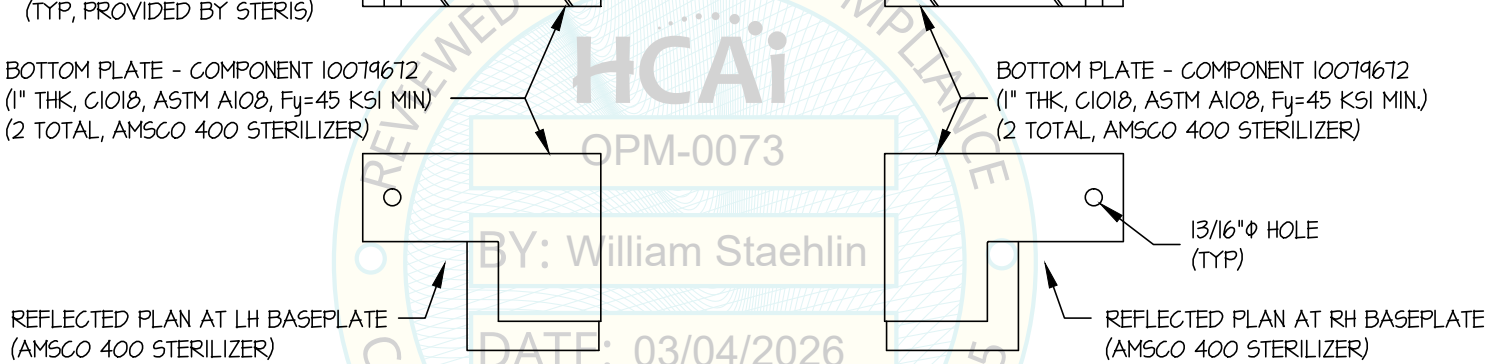
DES. J. ROBERSON
JOB NO. 14-2522
DATE 2/25/26

SHEET 12 OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

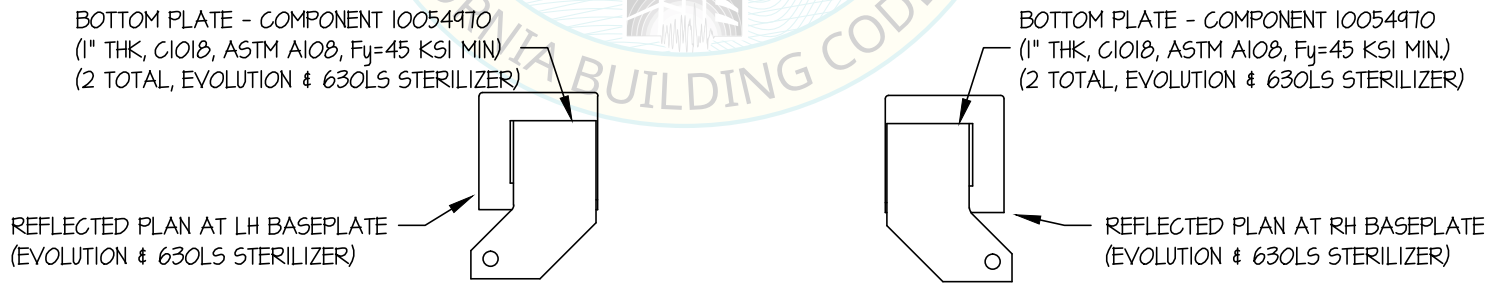
DETAILS





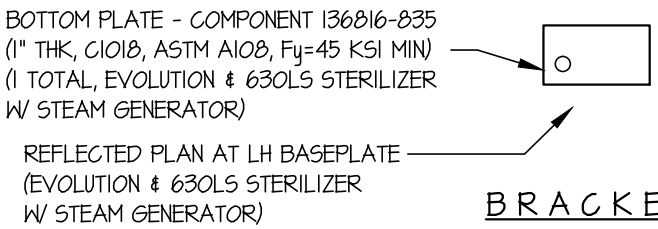
LH SEISMIC TIEDOWN ASSEMBLY- 10079671 (2 TOTAL)
(AMSCO 400 STERILIZER)

RH SEISMIC TIEDOWN ASSEMBLY- 10079670 (2 TOTAL)
(AMSCO 400 STERILIZER)



LH SEISMIC TIEDOWN ASSEMBLY- 10054968 (2 TOTAL)
(EVOLUTION & 630LS STERILIZER)

RH SEISMIC TIEDOWN ASSEMBLY- 10054969 (2 TOTAL)
(EVOLUTION & 630LS STERILIZER)



NOTE: ALL COMPONENTS LISTED ON THIS SHEET ARE SUPPLIED BY STERIS

BRACKET DETAIL

LH SEISMIC TIEDOWN ASSEMBLY- 136816-838 (1 TOTAL)
(EVOLUTION & 630LS STERILIZER W/ STEAM GENERATOR)

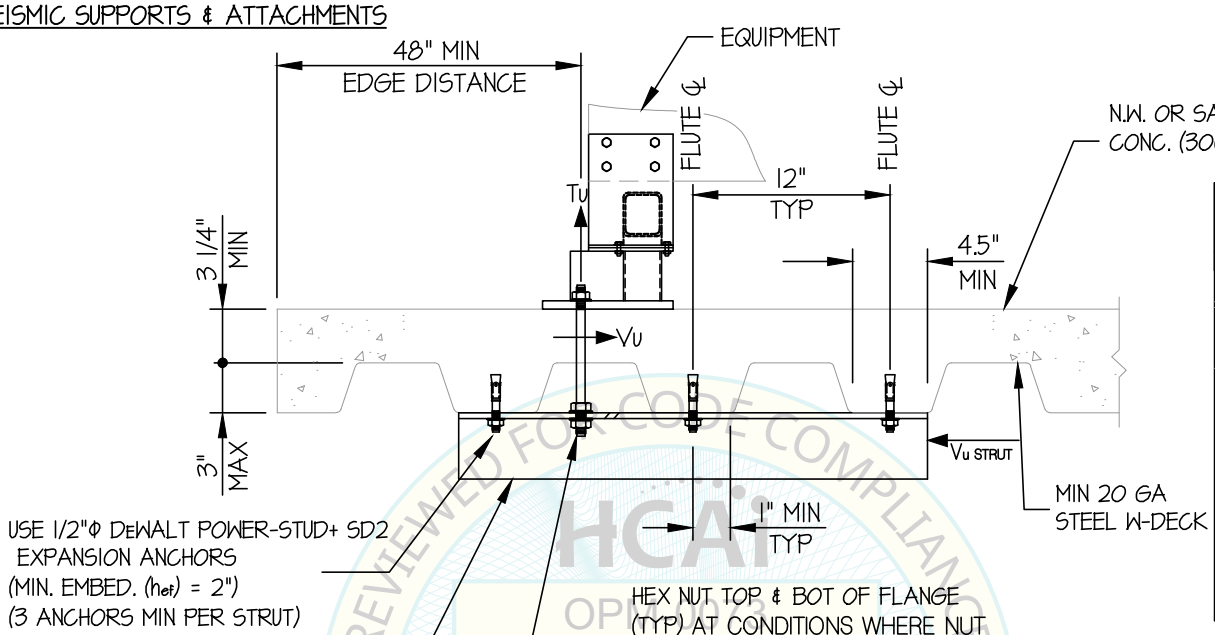
REVIEWED FOR CODE COMPLIANCE
HCAi
OPM-0073
BY: William Staehlin
DATE: 03/04/2026
CALIFORNIA BUILDING CODE, '25
NOT STRUCTURAL ENGINEER OF RECORD

STERIS CORPORATION

AMSCO 400, EVOLUTION & 630LS STEAM STERILIZERS

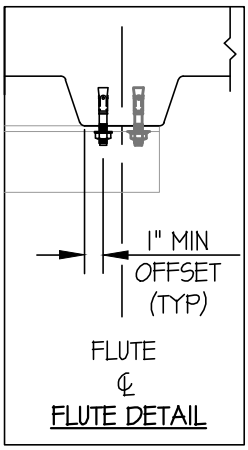
DES.	J. ROBERSON
JOB NO.	14-2522
DATE	2/25/26
SHEET	13
OF	13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS



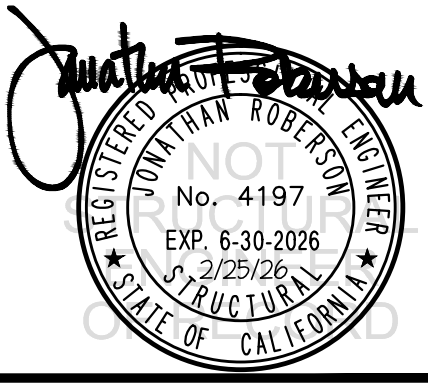
MIN STEEL DECK REQUIREMENTS AND STRUT DETAIL (A)

CONCRETE DETAIL



FLUTE DETAIL

REVIEWED FOR CODE COMPLIANCE
OPM-0073
BY: William Staehlin
DATE: 03/04/2026
CALIFORNIA BUILDING CODE, 2025



NOT STRUCTURAL ENGINEER OF RECORD