



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

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

OFFICE USE ONLY

APPLICATION #: OPM-0536

HCAI Preapproval of Manufacturer's Certification (OPM)

Type: New Renewal/Update

Manufacturer Information

Manufacturer: Getinge Sterilization AB

Manufacturer's Technical Representative: Anders Karlsson

Mailing Address: Box 69, SE-305 05 Getinge, Sweden

Telephone: +46 (0) 10-3355547 Email: anders.karlsson@getinge.com

Product Information

Product Name: GSS610 Series Sterilizers

Product Type: Other Electrical and Mechanical Components

Product Model Number: GSS61010-2, GSS61014-12, GSS61015-2, GSS61021-2

General Description: Used for Sterilization of Hospital Tools and Equipment

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

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY





**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
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Registered Design Professional Preparing Engineering Recommendations

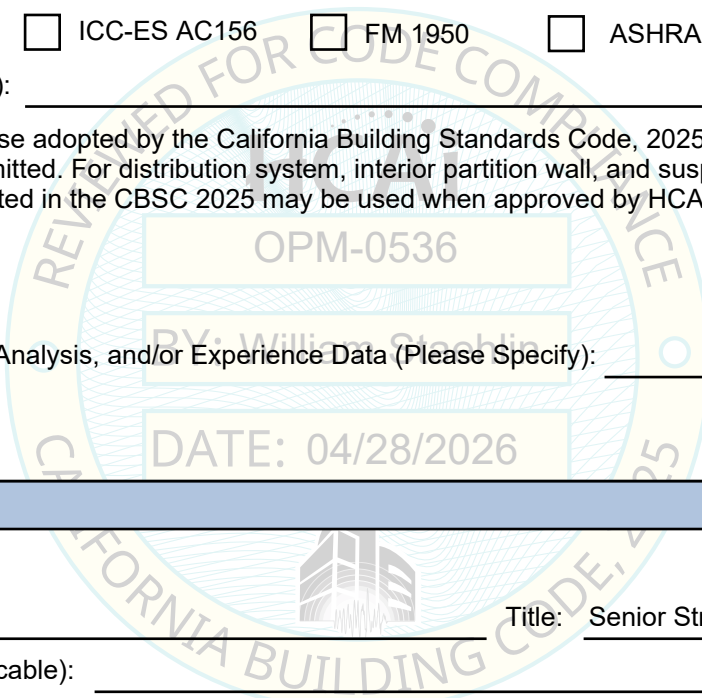
Company Name: EASE LLC
Name: Jonathan Roberson California License Number: S4197
Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills, CA 91709
Telephone: (951) 295-1892 Email: jon@EASECo.com

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): _____



HCAI Approval

Date: 4/28/2026
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-0536

THIS PREAPPROVAL CONFORMS TO THE 2025 CALIFORNIA BUILDING CODE

MANUFACTURER: **GETINGE USA, INC.**
EQUIPMENT NAME: **GSS610 SERIES STERILIZERS**

Sheet: 1 of 13
Date: 4/28/26

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 0.50,0.60,0.80,0.90,1.35 & 2.00.
4. FORCES PER ASCE 7-22 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3,
WHERE $S_{Ds}=0.50, 0.60, 0.80, 0.90, 2.00, I_p=1.5, C_{AR}=1.0, R_{po}=1.5, z/h=0, (R_u=1.0, H_f=1.0)$ AT CONCRETE SLAB AT OR BELOW GRADE.
WHERE $S_{Ds}=1.35, I_p=1.5, C_{AR}=1.0, R_{po}=1.5, z/h=0.95, (R_u=1.3, H_f=3.375)$ 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. $z/h=0.95$)
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 $6h_{ef}$ FROM THIS UNIT'S ANCHORS.



GETINGE USA, INC.

GSS610 SERIES STERILIZERS

DES. **J. ROBERSON**

JOB NO. **36-2504**

DATE **4/28/26**

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
3/4"	Sand Light Weight	3000	Hilti Kwik Bolt TZ2 (CARBON STEEL)	ESR-4266	3.75"	12"	48"	3.25" Over Flutes	110 FT-LB	N/A
1/2"	Normal Weight	3000	Hilti Kwik Bolt TZ2 (STAINLESS STEEL)	ESR-4266	2.5"	3"	24"	5"	50 FT-LB	1940 lb
1/2"	Normal Weight	3000	Hilti Kwik Bolt TZ2 (STAINLESS STEEL)	ESR-4266	3.25"	2.75"	24"	6"	50 FT-LB	2131 lb
1/2"	Normal Weight	3000	Hilti Kwik Bolt TZ2 (STAINLESS STEEL)	ESR-4266	3.25"	3"	24"	6"	50 FT-LB	2174 lb
1/2"	Normal Weight	3000	HIT-HY 200 V3 (STAINLESS STEEL)	ESR-4868	6.75"	3"	24"	8"	N/A	4474 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 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

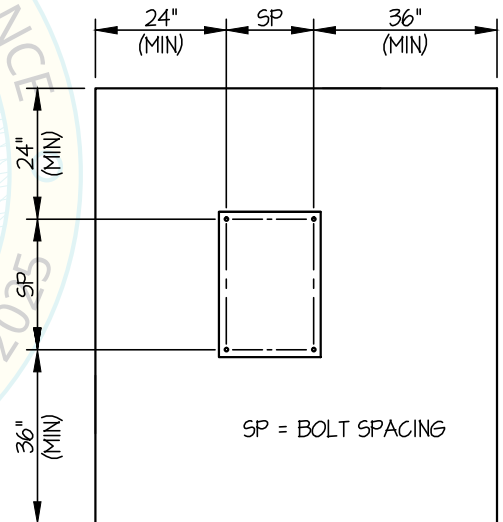
(iii) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.

D. AVOID DAMAGING EXISTING STEEL REINFORCING IN CONCRETE SLAB WHEN INSTALLING CONCRETE EXPANSION ANCHORS.

E. PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT & WASHER.

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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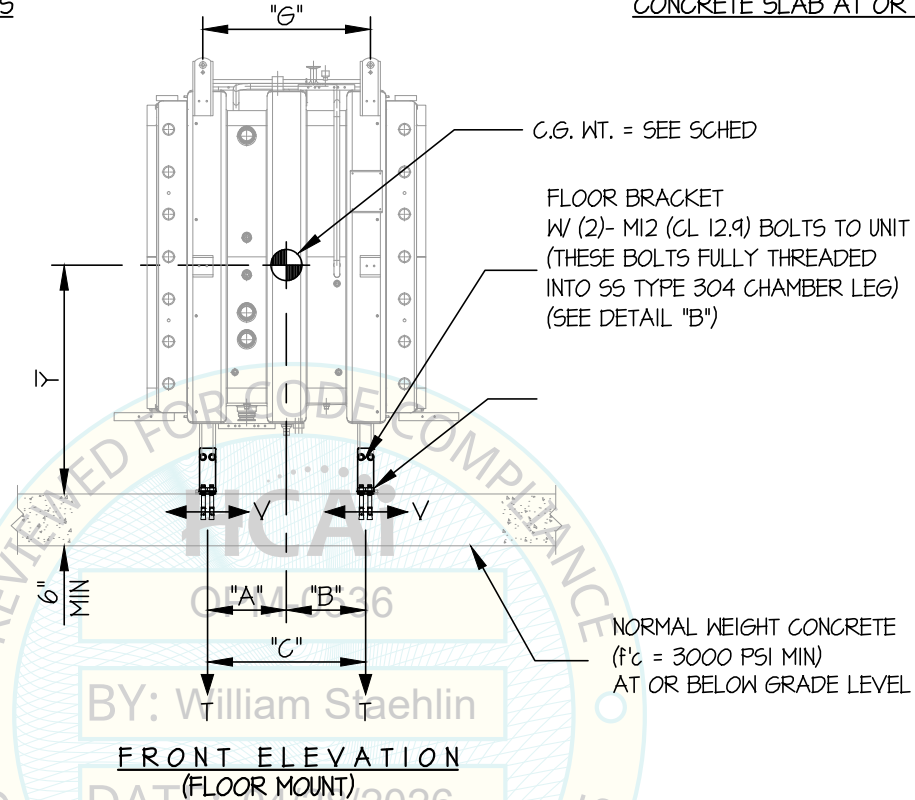
SHEET

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OF **13** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB AT OR BELOW GRADE



FRONT ELEVATION
(FLOOR MOUNT)

NOTES:

- FORCES ARE DETERMINED PER 2025 CALIFORNIA BUILDING CODE AND ASCE 7-22. STRENGTH DESIGN IS USED. (EXAMPLE: $I_p=15$, $CAR=1.0$, $R_{po}=1.5$, $\Omega_{op}=2.0$, $R_{UJ}=1.0$, $H_f=1.0$, $z/h=0$)

Sds	2.00	0.90	0.80	0.60	0.50
HORIZONTAL FORCE (E_h)	0.90 W_p	0.41 W_p	0.36 W_p	0.27 W_p	0.23 W_p
HORIZONTAL FORCE (E_{mh})	1.80 W_p	0.81 W_p	0.72 W_p	0.54 W_p	0.45 W_p
VERTICAL FORCE (E_v)	0.40 W_p	0.18 W_p	0.16 W_p	0.12 W_p	0.10 W_p

($E_{mh} = E_h \times \Omega_o$; FOR CONCRETE ANCHORAGE)

- 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 SEOR.
- 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; SHEET 1 AND 2.



GETINGE USA, INC.

GSS610 SERIES STERILIZERS

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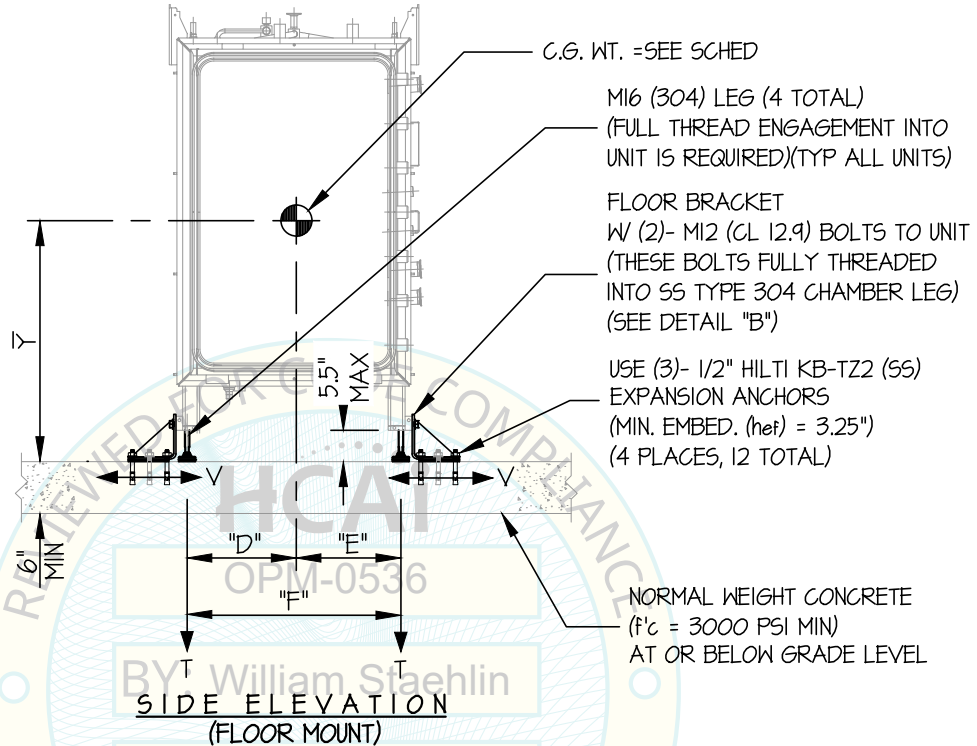
SHEET

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OF **13** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB AT OR BELOW GRADE



MAX Sds	UNIT NUMBER	WEIGHT (lb.)	"Y" (in.)	"A" (in.)	"B" (in.)	"C" (in.)	"D" (in.)	"E" (in.)	"F" (in.)	Tu (lb.) ⁺	Vu (lb.) ⁺
0.50	GSS61010-2	3777	413	11.73	12.68	24.41	19.53	10.55	30.08	1437	896
0.60	GSS61014-2	4328	415	18.62	19.96	38.58	19.09	10.99	30.08	1488	1206
0.50	GSS61015-2	4747	428	21.38	22.72	44.10	19.17	10.91	30.08	1233	1106
0.60	GSS61021-2	5090	409	32.83	33.31	66.14	18.00	12.08	30.08	1464	1339

+ Tu & Vu ARE IN LB/BOLT (VALUES INCLUDE Ω_{op})

Jonathan Roberson

REGISTERED PROFESSIONAL ENGINEER
JONATHAN ROBERSON
No. 4197
EXP. 6-30-2026
4/28/26
STRUCTURAL
STATE OF CALIFORNIA

GETINGE USA, INC.

GSS610 SERIES STERILIZERS

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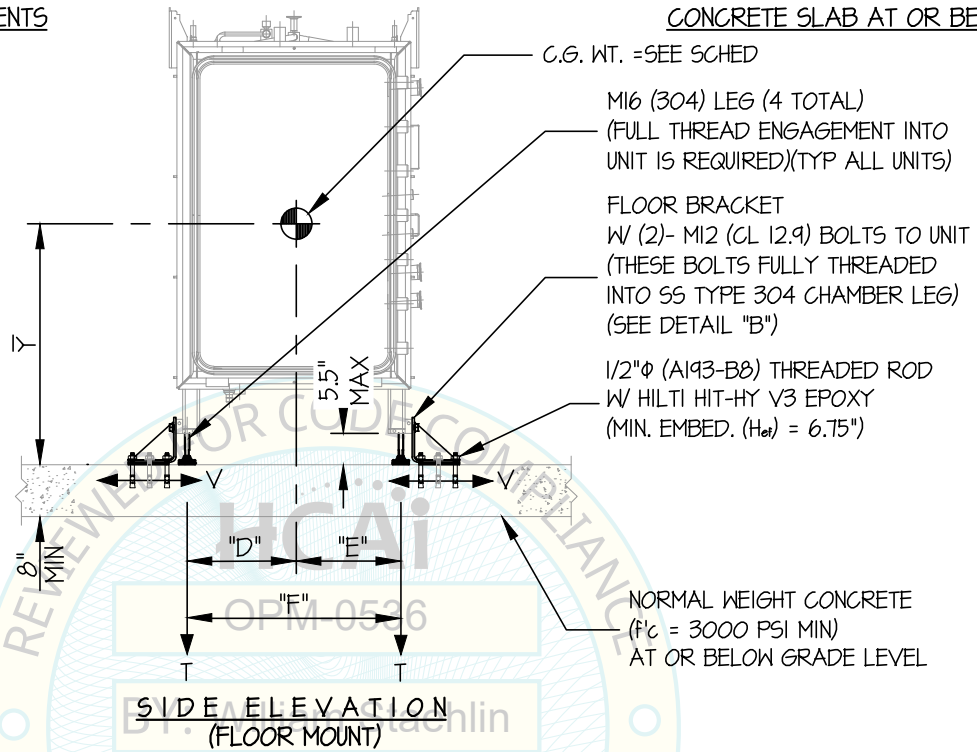
SHEET

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OF **13** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB AT OR BELOW GRADE



MAX Sds	UNIT NUMBER	WEIGHT (lb.)	"Y" (in.)	"A" (in.)	"B" (in.)	"C" (in.)	"D" (in.)	"E" (in.)	"F" (in.)	Tu (lb.) ⁺	Vu (lb.) ⁺
0.80	GSS61010-2	3777	413	11.73	12.68	24.41	19.53	10.55	30.08	3026	1434
0.90	GSS61014-2	4328	415	18.62	19.96	38.58	19.09	10.99	30.08	2653	1809
0.80	GSS61015-2	4747	42.8	21.38	22.72	44.10	19.17	10.91	30.08	2519	1770
0.80	GSS61021-2	5090	40.9	32.83	33.31	66.14	18.00	12.08	30.08	2304	1786

+ Tu & Vu ARE IN LB/BOLT (VALUES INCLUDE Ω_{op})



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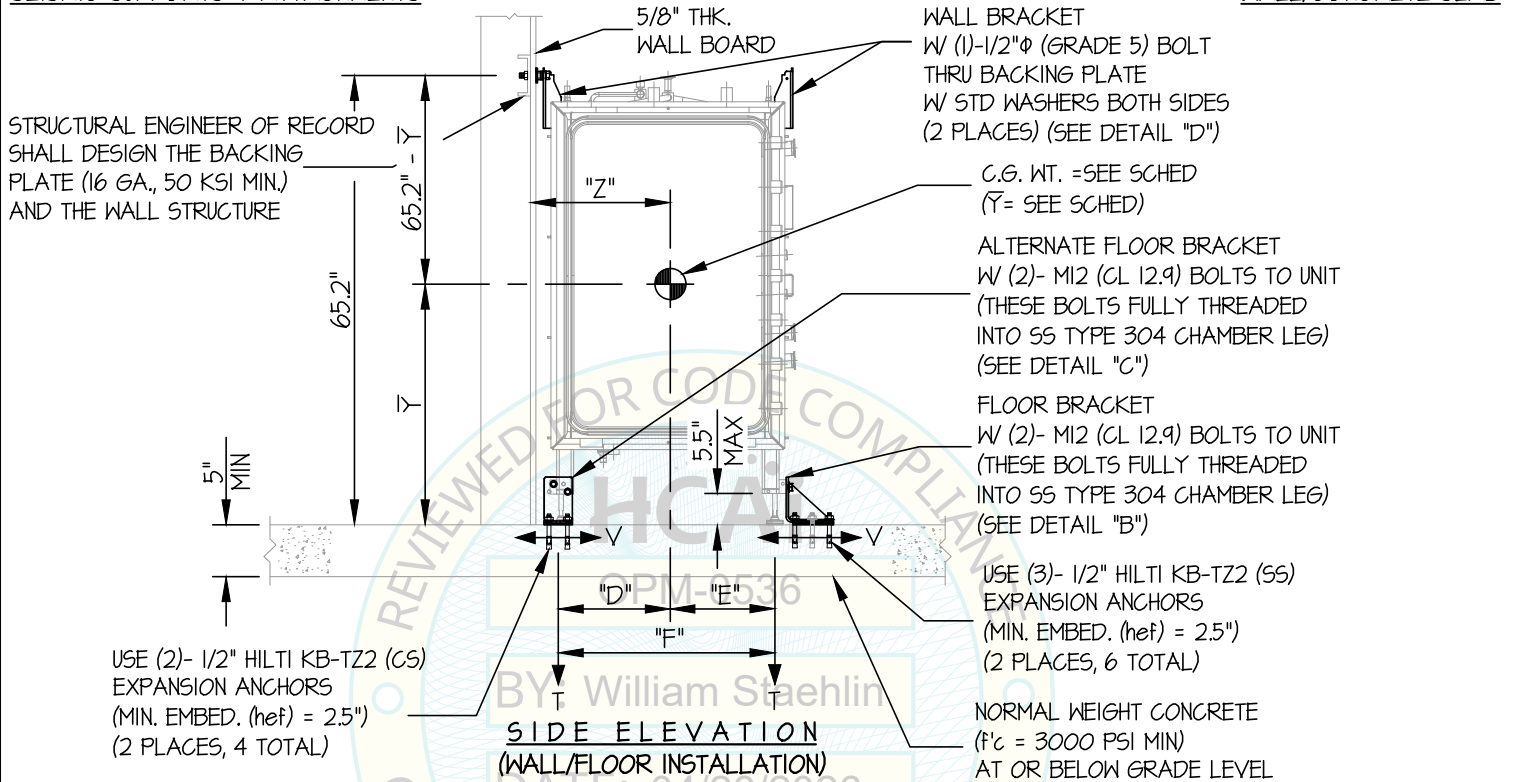
SHEET

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OF **13** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

WALL/CONCRETE SLAB



MAX Sds	UNIT NUMBER	WEIGHT (lb.)	"Y" (in.)	"A" (in.)	"B" (in.)	"C" (in.)	"D" (in.)	"E" (in.)	"F" (in.)	"G" (in.)	"Z" (in.)	Tu (lb.) WALL	Vu (lb.) WALL	Vu (lb.) ⁺ FLOOR
2.00	GSS61010-2	3777	413	11.73	12.68	24.41	19.53	10.55	30.08	24.61	23.9	2424	1077	835
2.00	GSS61014-2	4328	415	18.62	19.96	38.58	19.09	10.99	30.08	38.78	23.5	1887	1240	732
2.00	GSS61015-2	4747	42.8	21.38	22.72	44.10	19.17	10.91	30.08	44.29	23.6	1928	1402	738
2.00	GSS61021-2	5090	40.9	32.83	33.31	66.14	18.00	12.03	30.08	66.34	22.4	1738	1437	642

+ Vu IS IN LB/BOLT (VALUE INCLUDES Ω_Q)



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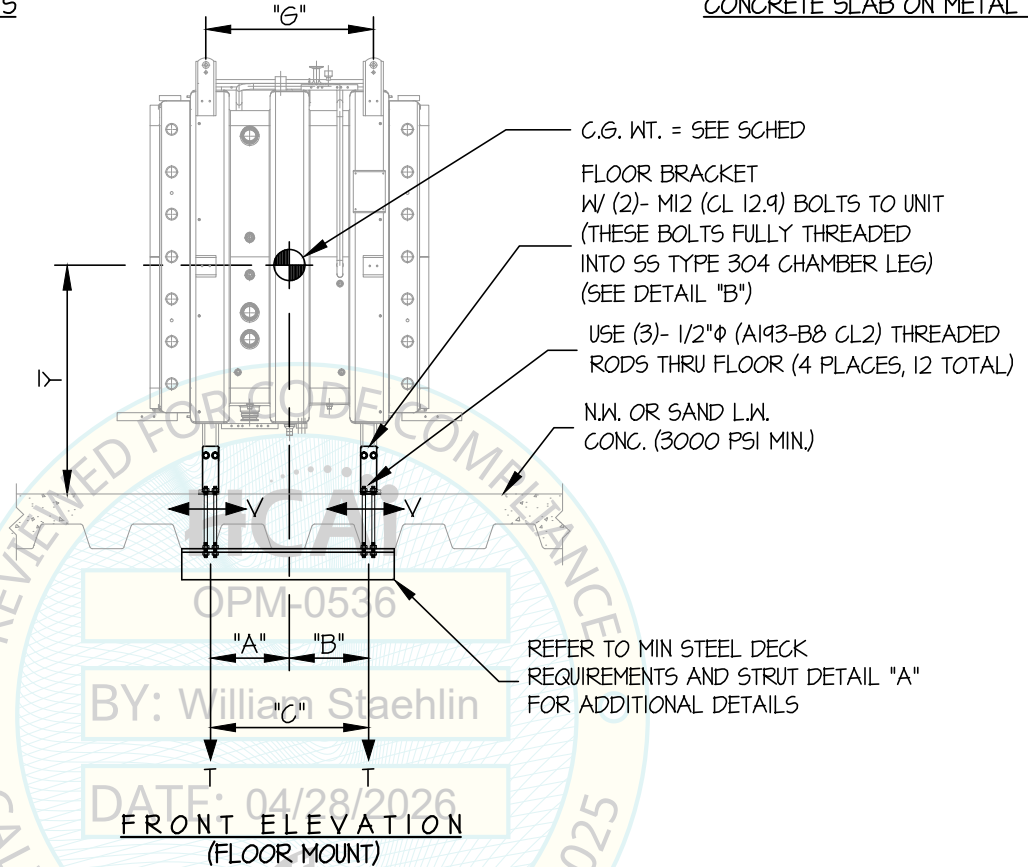
SHEET

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OF **13** SHEETS

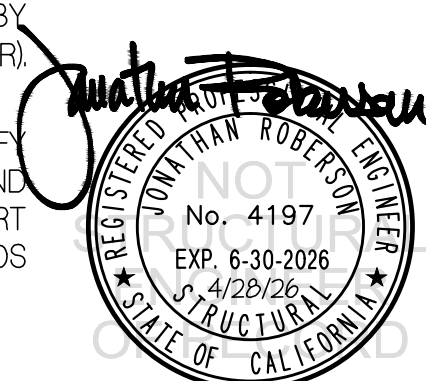
SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK



NOTES:

- FORCES ARE DETERMINED PER 2025 CALIFORNIA BUILDING CODE AND ASCE 7-22. STRENGTH DESIGN IS USED. (EXAMPLE: $S_{ds}=1.35$, $I_p=1.5$, $CAR=1.0$, $R_{po}=1.5$, $\Omega_{op}=2.0$, $R_{\mu f}=1.3$, $H_f=3.375$, $z/h=0.95$)
 HORIZONTAL FORCE (E_h) = 1.40 W_p
 HORIZONTAL FORCE (E_{mh}) = 2.80 W_p (FOR CONCRETE ANCHORAGE)
 VERTICAL FORCE (E_v) = 0.27 W_p
- 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 SEOR.
- 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; SHEET 1 AND 2.



GETINGE USA, INC.

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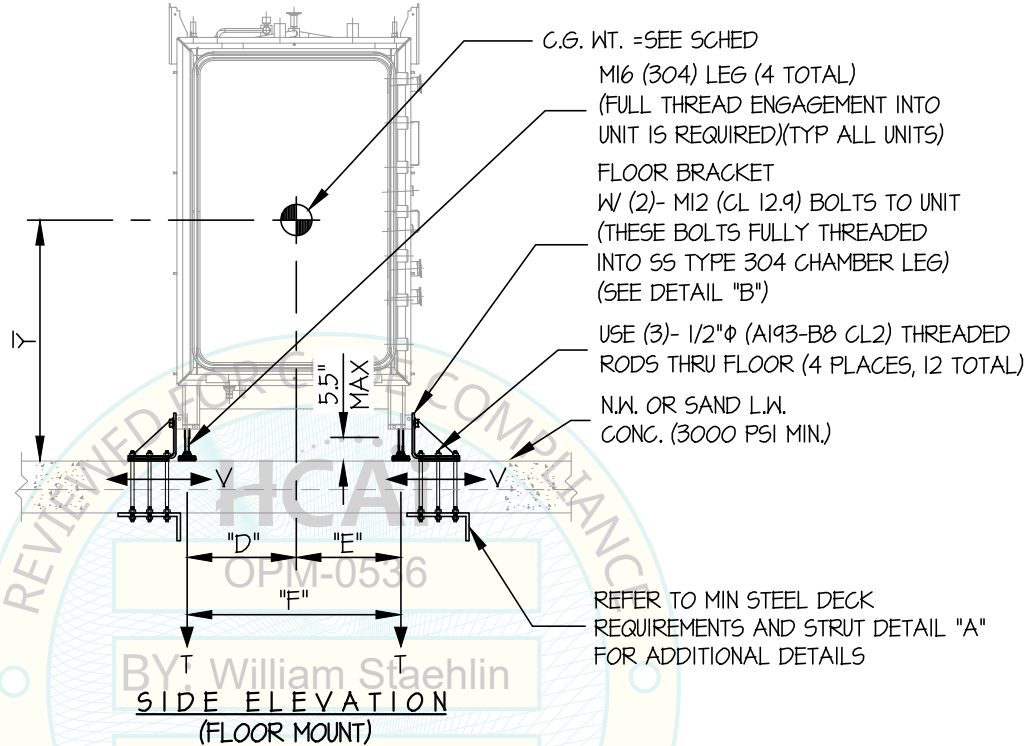
SHEET

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OF **13** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK



UNIT NUMBER	WEIGHT (lb.)	"Y" (in.)	"A" (in.)	"B" (in.)	"C" (in.)	"D" (in.)	"E" (in.)	"F" (in.)	+ Tu (lb.)	+ Vu (lb.)
GSS61010-2	3777	413	11.73	12.68	24.41	19.53	10.55	30.08	7008	2788
GSS61014-2	4328	415	18.62	19.96	38.58	19.09	10.99	30.08	5325	3126
GSS61015-2	4747	42.8	21.38	22.72	44.10	19.17	10.91	30.08	5840	3442
GSS61021-2	5090	40.9	32.83	33.31	66.14	18.00	12.08	30.08	5429	3472

+ Tu & Vu ARE IN LB/BOLT (VALUES DO NOT INCLUDE Ω_p)



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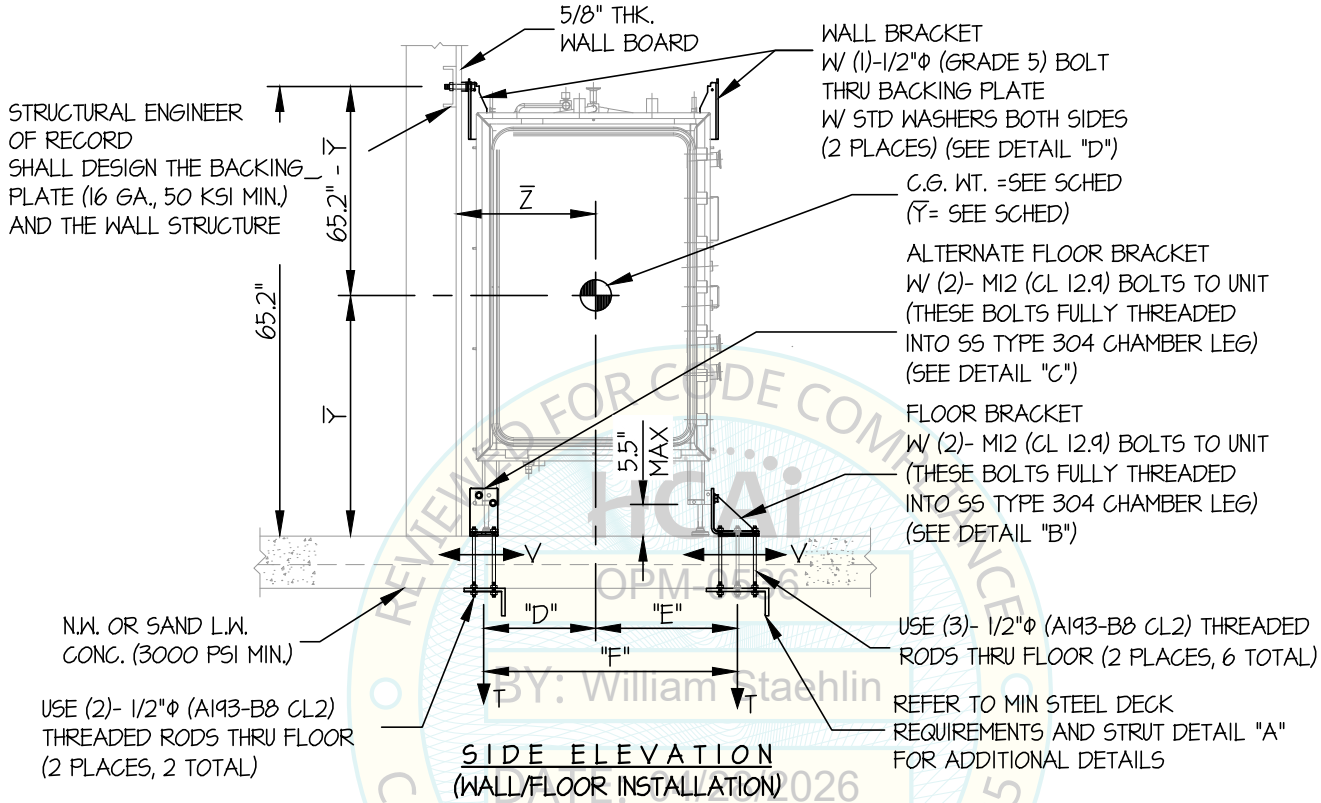
SHEET

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OF **13** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

WALL/CONCRETE SLAB ON METAL DECK



UNIT NUMBER	WEIGHT (lb.)	"Y" (in.)	"A" (in.)	"B" (in.)	"C" (in.)	"D" (in.)	"E" (in.)	"F" (in.)	"G" (in.)	"Z" (in.)	Tu (lb.) WALL	Vu (lb.) WALL	Vu (lb.) FLOOR
GSS61010-2	3777	41.3	11.73	12.68	24.41	19.53	10.55	30.08	24.61	23.9	3771	1675	649
GSS61014-2	4328	41.5	18.62	19.96	38.58	19.09	10.99	30.08	38.78	23.5	2933	1928	567
GSS61015-2	4747	42.8	21.38	22.72	44.10	19.17	10.91	30.08	44.29	23.6	2996	2181	587
GSS61021-2	5090	40.9	32.83	33.31	66.14	18.00	12.03	30.08	66.34	22.4	2697	2235	499

+ Tu & Vu ARE IN LB/BOLT (VALUES DO NOT INCLUDE Ω_{op})



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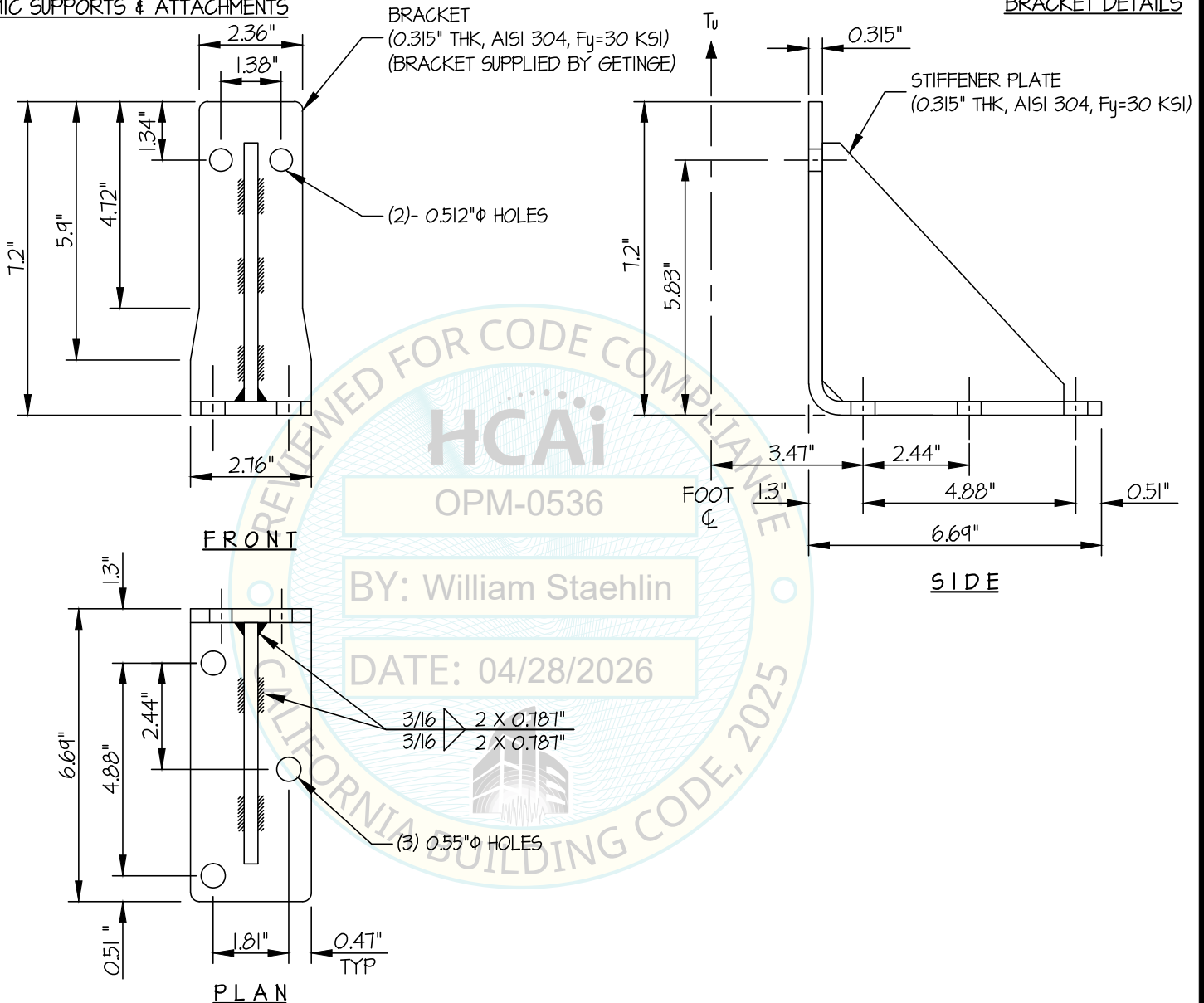
SHEET

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OF **13** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAILS



FLOOR BRACKET DETAIL (B)

Jonathan Roberson

REGISTERED PROFESSIONAL ENGINEER
JONATHAN ROBERSON
No. 4197
EXP. 6-30-2026
4/28/26
STRUCTURAL
STATE OF CALIFORNIA

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DES. J. ROBERSON

SHEET

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JOB NO. 36-2504

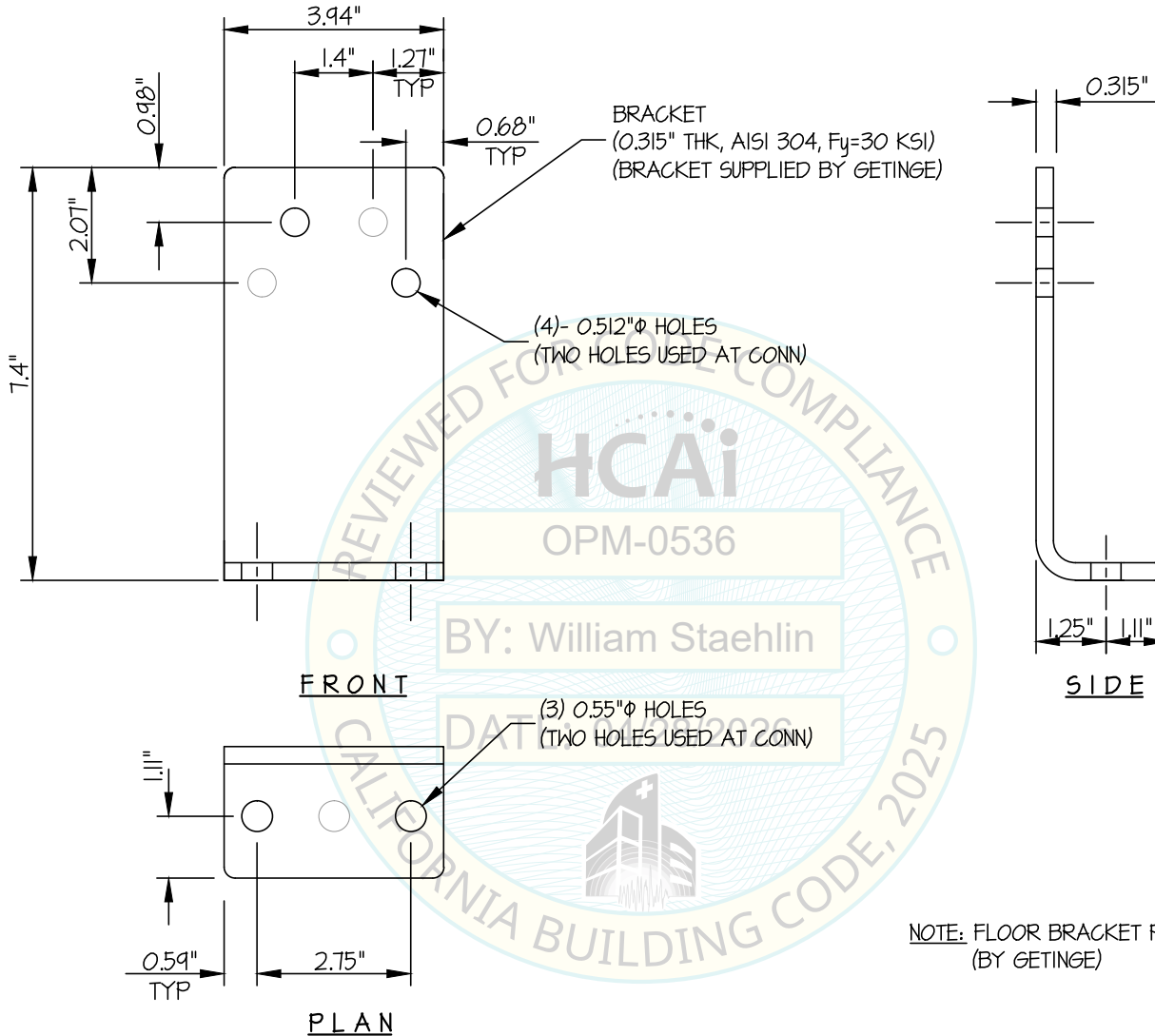
GSS610 SERIES STERILIZERS

DATE 4/28/26

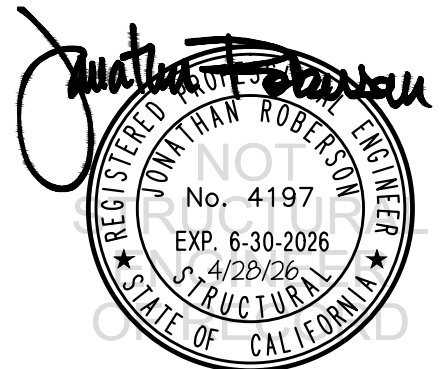
OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAILS



ALTERNATE FLOOR BRACKET DETAIL C



GETINGE USA, INC.

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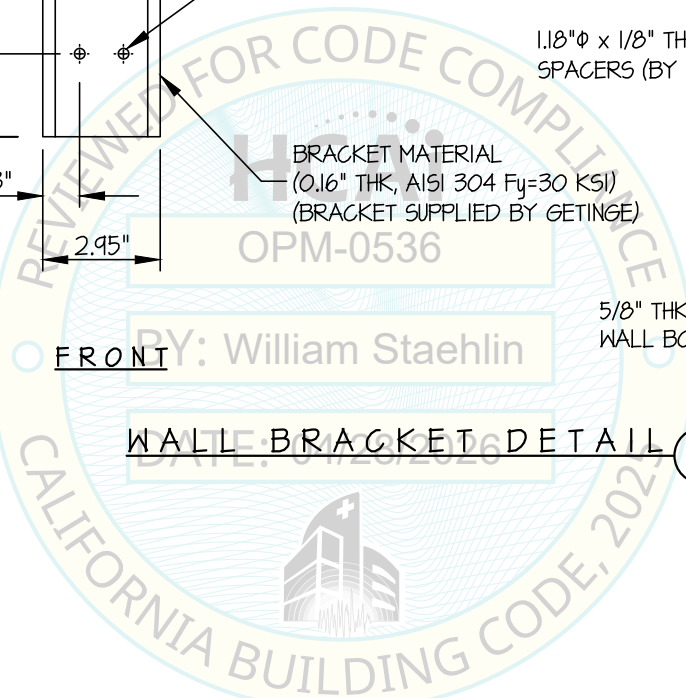
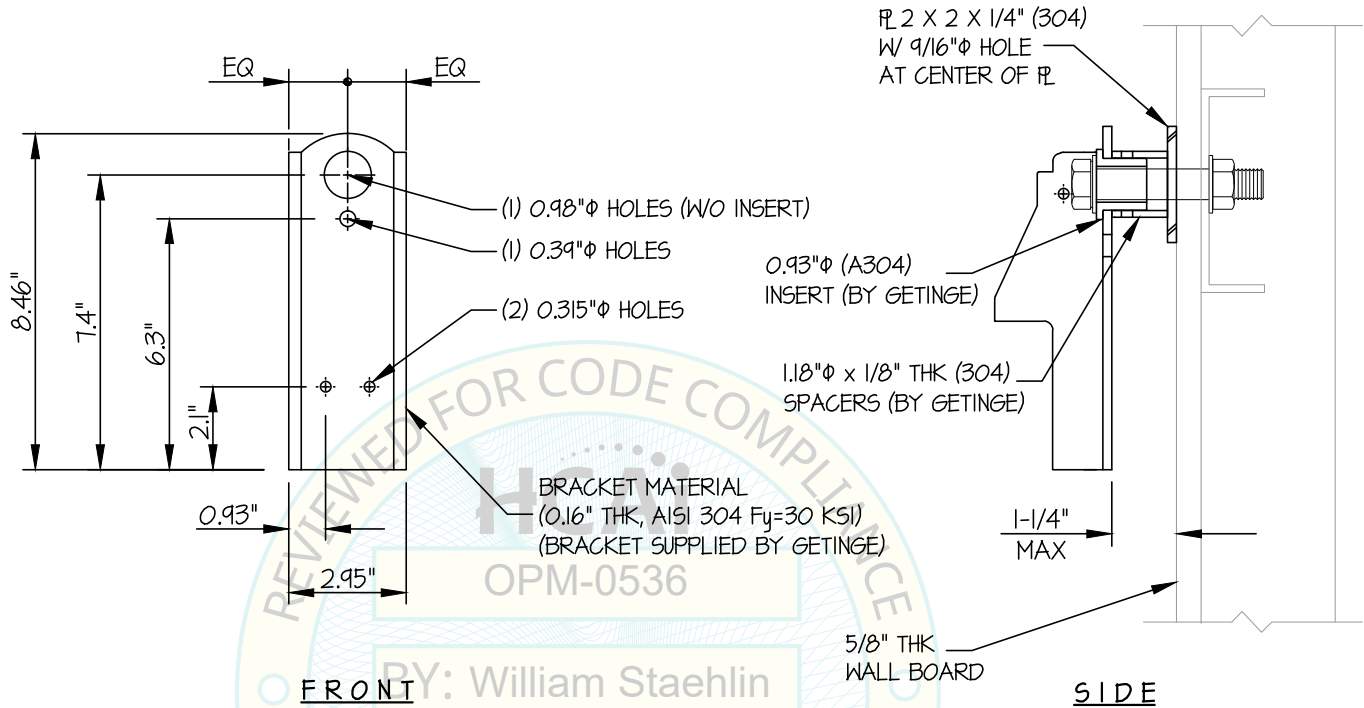
SHEET

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OF **13** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAILS



WALL BRACKET DETAIL (D)

