

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

OFFICE USE ONLY APPLICATION FOR OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) **APPLICATION #:** OPM-0192-13 **OSHPD Preapproval of Manufacturer's Certification (OPM)** Type: ⊠ New ☐ Renewal ☐ Update to Pre-CBC 2013 OPA Number: **Manufacturer Information** Manufacturer: Getinge USA Manufacturer's Technical Representative: Anthony Powell Mailing Address: 1777 E. Henrietta Road, Rochester, NY. 14623 Telephone: (585) 272-5243 Email: DAnthony.powell@getinge.com **Product Information** Product Name: 700 Series Sterilizers Product Type: Other Electrical & Mechanical Components - 13 Product Model Number: 733HC-E (Chamber Lengths Available: 39", 53" & 61") General Description: Steam Sterilizer used to sanitize medical instruments, gowns, etc. **Applicant Information** Applicant Company Name: EASE Co. Contact Person: Jonathan Roberson, S.E. Mailing Address: 5877 Pine Ave. Suite 210, Chino Hills, CA. 91709 Telephone: (909) 606-7622 Email: J.Roberson@EASECo.com I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013. Signature of Applicant: 2/2/15 Date: Company Name: Principal Engineer EASE Co.

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

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OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professional Preparing Engineering Recommendations									
Company Name: EASE Co.									
Name: Jonathan Roberson, S.E. California License Number: S4197									
Mailing Address: _5877 Pine Ave. Suite 210, Chino Hills, CA. 91709									
Telephone: 909-606-7667 Email: J.Roberson@EASECo.com									
OSHPD Special Seismic Certification Preapproval (OSP)									
 □ Special Seismic Certification is preapproved under OSP- (Separate application for OSP is required) □ Special Seismic Certification is not preapproved 									
Certification Method(s)									
☐ Testing in accordance with: ☐ ICC-ES AC156 ☐ FM 1950-10 ☐ Other* (Please Specify):									
*Use of test criteria other than those adopted by the California Building Standards Code, 2013 (CBSC 2013) 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 2013 may be used when approved by OSHPD prior to testing. BY: William Staehlin BY: William Staehlin DATE: 07/27/2015 Combination of Testing, Analysis, and/or Experience Data (Please Specify): List of Attachments Supporting the Manufacturer's Certification Test Report Drawings Calculations Manufacturer's Catalog Other(s) (Please Specify):									
OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2013 ONLY									
Signature: Date: 07/27/2015 Print Name: William Staehlin Title: SSE Condition of Approval (if applicable):									

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-700 (REV 1/24/13)

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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-0192-13

THIS PREAPPROVAL CONFORMS TO THE 2013 CALIFORNIA BUILDING CODE

MANUFACTURER: GETINGE USA, INC.

Sheet: 1 of 8

EQUIPMENT NAME:

700 SERIES STEAM STERILIZER VESSEL SIZE: 26"Wx 36"H x 39"L OR 61"L

Date: 7/17/15

GENERAL NOTES

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2013 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2013 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 2013 CALIFORNIA BUILDING CODE WHERE SDS IS NOT GREATER THAN 1.40, 2.20.
- 4. FORCES PER ASCE 7-10 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE SDS = 2.2, ap = 1.0, lp = 1.5, Rp = 1.5, z/h = 0 AT CONCRETE SLAB & z/h < 1 AT CONCRETE SLAB ON METAL DECK. SEE FOLLOWING SHEETS FOR Ω₀
- 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 ON GRADE DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION 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 2013 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.
- 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. 36-1402

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700 SERIES STEAM STERILIZER VESSEL SIZE: 26"W X 36"H X 39"L OR 53"L OR 61"L

DATE 7/17/15

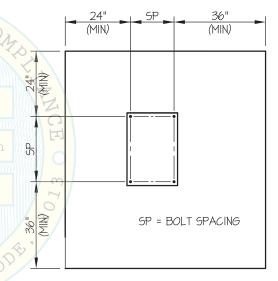
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10. EXPANSION ANCHORS:

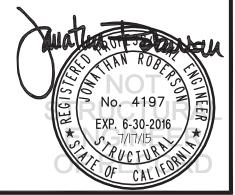
A. ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.

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
3/8"	Sand Light Weight	3000	Hilti Kwik Bolt TZ	ESR-1917	2"	N/A	N/A	See Pg 7 OF 8	25 FT-LB	1186 lb
1/2"	Normal Weight	3000	Hilti Kwik Bolt TZ	ESR-1917	3.25"	8"	24"	6"	40 FT-LB	3026 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 OF EXPANSION ANCHORS PER 2013 CBC, 1913A.7:
 TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL
 INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE
 SUBMITTED TO OSHPD
 - (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.
- 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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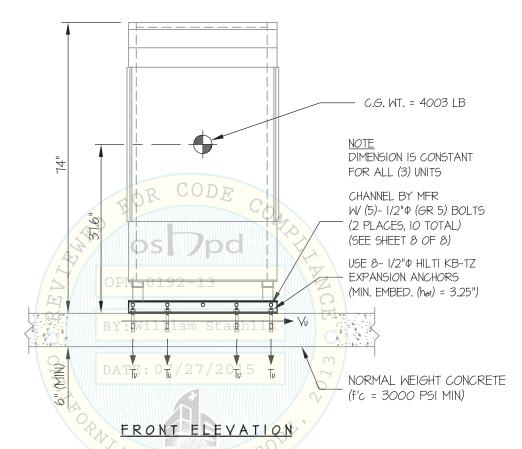
700 SERIES STEAM STERILIZER
VESSEL SIZE: 26"W X 36"H X 39"L OR 53"L OR 61"L

DATE 7/17/15

of 8 sheets

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB



Tu = 3572 LB/BOLT (MAX) Vu = 539 LB/BOLT (MAX)(VALUES INCLUDE Ω_0)

NOTES:

1. FORCES ARE DETERMINED PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10 STRENGTH DESIGN IS USED. (SDS = 1.40, Δp = 1.0, Δp = 1.5, Δp = 1.

HORIZONTAL FORCE (En) = 0.630 Wp HORIZONTAL FORCE (Emh) = 0.95 Wp (FOR CONCRETE ANCHORAGE) VERTICAL FORCE (Ev) = 0.28 Wp

- 2. CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PREAPPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- 3. STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING SHALL 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



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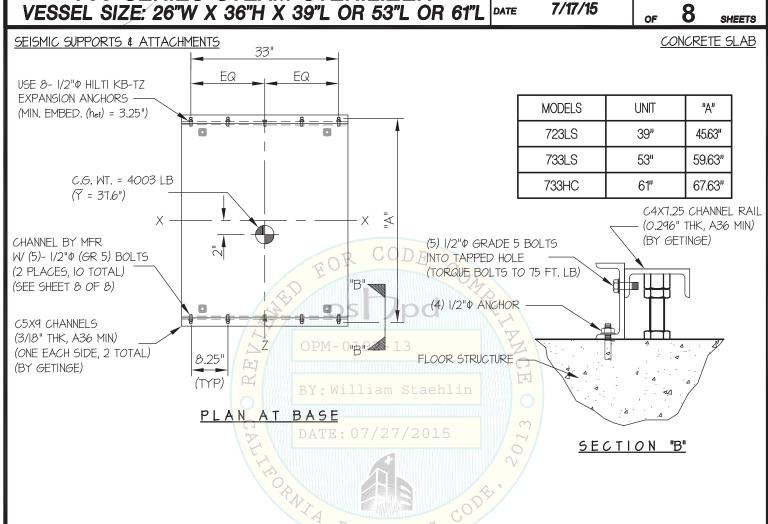
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CONCRETE SLAB ON METAL DECK

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NOTE

JOB NO.

SHEETS

700 SERIES STEAM STERILIZER VESSEL SIZE: 26"W X 36"H X 39"L OR 53"L OR 61"L |DATE

SEISMIC SUPPORTS & ATTACHMENTS 7 Tu = 6952 LB/BOLT (MAX)Vu = 1491 LB/BOLT (MAX)Tu Tu Tu

- C.G. WT. = 4003 LB

DIMENSION IS CONSTANT FOR ALL (3) UNITS

CHANNEL BY MER W (5)- 1/2" (GR 5) BOLTS (2 PLACES, IO TOTAL) (SEE SHEET 8 OF 8)

REFER TO SHEET 7 OF 8

FOR ADDITIONAL DETAILS

USE 8- 1/2"Φ (A449) THREADED RODS THRU FLOOR

> N.W. OR SAND L.W. CONC. (3000 PSI MIN.)

(VALUES DO NOT INCLUDE Ω_0)

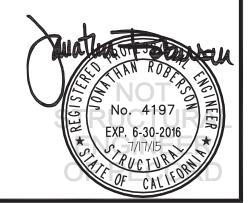
FRONT ELEVATION

NOTES:

1. FORCES ARE DETERMINED PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10 STRENGTH DESIGN IS USED. (Sps = 2.2, 2p = 10, p = 1.5, Rp = 1.5, $\Omega_0 = 1.5$, z/h < 1)

> HORIZONTAL FORCE (Eh) = 2.64 Wp HORIZONTAL FORCE (Emh) = 3.96 Wp (FOR CONCRETE ANCHORAGE) VERTICAL FORCE (Ev) = 0.44 Wp

- 2. CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PREAPPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- 3. STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING SHALL 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



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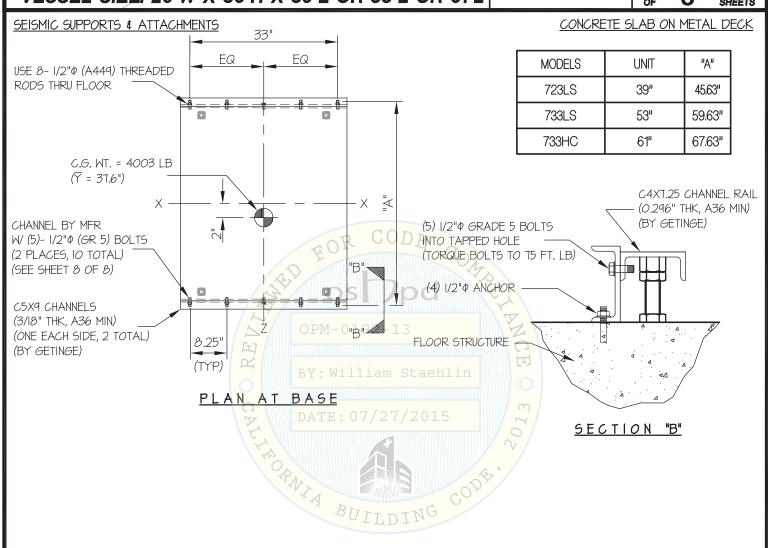
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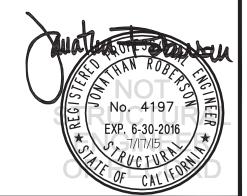
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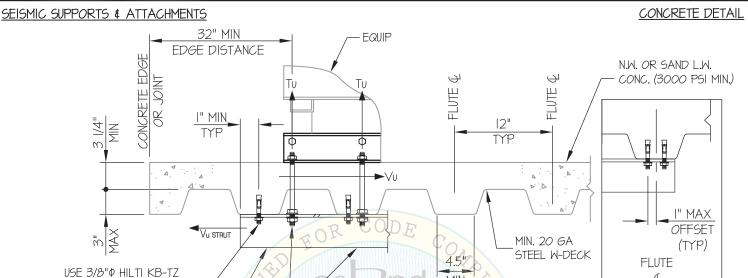
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DATE 7/17/15

OF 8 SHEETS

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FLUTE DETAIL



EXPANSION ANCHORS
(MIN. EMBED. (hef) = 2")
(2 ANCHORS MIN PER STRUT)

L3 X 3 X 5/16" X 1'-5" MIN (A36) AT EACH ANCHOR

HEX NUT TOP & BOT OF FLANGE
(TYP) AT CONDITIONS WHERE NUT
CANNOT BE PROVIDED AT TOP SIDE
OF STRUT, PROVIDE TAPPED HOLE
THROUGH STRUT FLANGE.

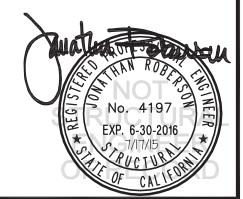
FOR EXTEND OF ANCHORAGE

MIN

MIN STEEL DECK REQUIREMENTS AND STRUT DETAIL

PAIA BUI

SEE SHEET 5 OF 8



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OF 8 SHEETS

700 SERIES STEAM STERILIZER
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SEISMIC SUPPORTS & ATTACHMENTS

CHANNEL DETAILS

