

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

OSHPD Preapproval of Manufacturer's Certification (OPM) Type: New Renewal Update to Pre-CBC 2013 OPA Number: Manufacturer Information Manufacturer's Technical Representative: John Price Mailing Address: 2325 Charleston Regional Parkway, Charleston, SC 29492 Telephone: 843-216-7424, x134 Email: John.Price@Belimed.com Product Information MST-H(10) 9-6-X HSX Steam Sterilizers Product Type: Steam Sterilizers MST-H(10) 9-6-12 HS1, MST-H(10) 9-6-15 HS1, MST-H(10) 9-6-18 HS2, MST-H(10) 9-6-18 HS2 General Description: Belimed's MST-H(10) 9-6-X HSX Steam Sterilizers have been engineered to provide the Elexibility and versatility needed for immediate use in the OR, day to day operations in a surgery center, or quick turnaround sets in sterile processing. Applicant Company Name: ISAT Seismic Bracing BUTLINING Contact Person: William V Joerger Mailing Address: 1020 Crews Road, Suite Q, Matthews NC 28105 Telephone: 510-714-0216 Email: wyjoerger@isatsb.com In ereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013. Signature of Applicant: White Applicant is a processing and the Code of the California Administrative Code, 2013. Bignature of Applicant: Date: February 26, 2016	APPLICATION FOR OSHPD PREAPPROVAL	OFFICE USE ONLY						
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Title: Principal Structural Engineer Company Name: ISAT Seismic Bracing	Signature of Applicant: WV bug	Date: February 26, 2016						
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"Access to Safe. Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"







OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professional Preparing Engineering Recommendations						
Company ISAT Seismic Bracing Name:						
Name: William V Joerger California License Number: S4545						
Mailing Address: _1020 Crews Rd Suite Q, Matthews NC 28105						
Telephone: 510-714-0216 Email: wvjoerger@isatsb.com						
OSHPD Special Seismic Certification Preapproval (OSP)						
 □ Special Seismic Certification is preapproved under OSP- (Separate application for OSP is required) □ Special Seismic Certification is no preapproved 						
Certification Method(s)						
☐ Testing in accordance with: ☐ ICC-ES AC156 ☐ FM 1950-10 ☐ Other* (Please Specify):						
Equipment is considered to be rugged. OPM is for anchorage to concrete slabs.						
*Use of 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: Jeffrey Y. Kikumoto						
Experience Data DATE: 07/11/2016						
☐ 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:						
Print Name: Jeffrey Kikumoto						
Title: SSE						
Condition of Approval (if applicable):						

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

Page 2 of 2



A Division of Tomarco Contractor Specialties

Submittal Documents

OPM-0329-13

OSHPD OPM-0329-13

SUPPORT AND ATTACHMENT CONSTRUCTION DRAWINGS

MST-H(10) 9-6-X HSX STERILIZERS

BELIMED

ISAT 1020 Crews Road Suite Q Matthews, N.C. 28105 704-841-4080 S 4545 EXP. 06/30/2018 *

SOFT PUCTURAL INFORMATION OF CALIFORNIA AT FOR CALIFORNIA

"Empowered by Experience"

REV 4

FILE NO.: CLT-0116-014



A Division of Tomarco Contractor Specialties

OSHPD OPM-0329-13

DRAWING INDEX FOR BELIMED HST-H(10) 9-6-X HSX STERILIZERS

INDEX Cover Page рi Index Page p ii **General Notes** p 1 **Attachment Notes** p 2 MST-H (10) Layout р3 **Dimensions and Notes** p 4 Slab-on-Grade Details p 5 Miscellaneous Steel p 6

FILE NO.: CLT-0116-014 "Empowered by Experience"

Index Rev 3

OSHPD OPM-0329-13 DWG - ii

OSHPD OPM-0329-13

MANUFACTURE: BELIMED **EQUIPMENT TYPE: STERILIZER**

GENERAL NOTES

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2013. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2013.
- 2. SEISMIC CRITERIA USED: $S_{DS} = 2.5 I_P = 1.5 ap = 1.0 Rp = 1.5$ (OTHER MECHANICAL COMPONENT) z/h = 0.0 WITH FpH = 1.13 AT GRADE OR $z/h \le 1.0$ WITH FpH = 3.00 FOR ELEVATED FLOORS. FpV = 0.50.
- 3. SUPPORT AND ATTACHMENT FORCES ARE DETERMINED USING ASCE 7-10 CHAPTER 13 "SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS". AN OVERSTRENGTH FACTOR Ω_0 = 1.5 IS USED FOR CONCRETE ANCHORAGE FORCES PER ASCE 7-10 SUPPLEMENT 1 TABLE 13.6-1. LOADS SHOWN ARE STRENGTH DESIGN LOADS PER CBC 2013 SECTION 1909A.
- 4. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
- 5. THIS PREAPPROVAL IS FOR CONCRETE SLAB AT GRADE OR ELEVATED SLABS FOR THE DEMAND LOADS SHOWN WHERE $S_{DS} \ll 2.5$.
- 6. STEEL MATERIALS: THROUGH BOLTS AISI 316 STAINLESS STEEL WITH MATCHING WASHERS AND NUTS. ATTACHMENT BRACKET BY BELIMED EURONORM 1.0037 STAINLESS STEEL WITH A TENSILE STRENGTH OF 520 MPa AND MINIMUM YIELD STRENGTH OF 270 MPa (EQUIVALENT TO 316L SS).
- 7. CONCRETE SLABS:
 - a. FOR SLAB ON GRADE OR ELEVATED SOLID CONCRETE SLABS: 6" MINIMUM THICKNESS OF NORMAL WEIGHT CONCRETE WITH 3000 PSI MINIMUM STRENGTH, 2011
 - b. METAL DECK: 3" DEEP COMPOSITE STEEL DECK, 20 GAGE MINIMUM WITH FLUTE SPACING OF 12", 4.5 INCH MINIMUM BOTTOM FLUTE WIDTH WITH 3.25" SAND LIGHT WEIGHT OR NORMAL WEIGHT CONCRETE COVER AT 4000 PSI MINIMUM STRENGTH.
- RETROFIT CONCRETE ANCHORS: HILTI KWIK BOLTS TZ (ESR-1917) STAINLESS STEEL 0.625" DIAMETER x 4.75" MINIMUM HOLE DEPTH (4" EFFECTIVE EMBEDMENT) AND 60 FT-LBS INSTALLATION TORQUE. EDGE DISTANCE IS 18" MINIMUM. FOR THE TECHNICAL FRAME A STAINLESS STEEL TZ 0.625" DIAMETER x 3.75" MINIMUM HOLE DEPTH (3.125" EFFECTIVE EMBEDMENT) MAY BE USED.

BELIMED MST-H(10) 9-6-X HSX STERILIZER GENERAL NOTES OPM-0329-13



International Seismic Application Technology A Division of Tomarco Contractor Specialties 1020 Crews Road, Suite Q. Matthews, NC 28105 704-841-4080 www.isatsb.com



DRAWN BY: WV.J **DATE**: 02/26/16

REVISED BY: WVJ **DATE**: 05/24/16 REV NO: 2

SCALE

PAGE N.T.S. **GEN NOTES**

OSHPD OPM-0329-13 DWG - 1

OSHPD OPM-0329-13

MANUFACTURE: BELIMED EQUIPMENT TYPE: STERILIZER

ATTACHMENT NOTES:

- 1. REFER TO OPM-0329-13 DETAILS FOR THE MATERIALS OF CONSTRUCTION AND FASTENER DIMENSIONS.
- 2. THROUGH BOLT INSTALLATION AND INSPECTION (DETAILS OF THE SUPPLEMENTAL STEEL AND CONNECTIONS TO STRUCTURE ARE SHOWN ON PAGE "MISC STEEL".)
 - a. THROUGH BOLTS ARE TO BE TORQUED BY 3/4 TURN OF THE NUT AFTER SNUG TIGHT CONDITION IS ACHIEVED. SNUG TIGHT CONDITION IS DEFINED AS THE THIGHTNEE REQUIRED TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.
 - b. THROUGH BOLT HOLES SHALL BE 1/16" LARGER THAN THE BOLT SIZE (HOLE SIZE = BOLT SIZE + 1/16") FOR BOTH THE STEEL AND CONCRETE.
 - c. THROUGH BOLTS WITH STEEL-TO-STEEL CONNECTION IN TENSION DO NOT REQUIRE TESTING.
- 3. FOR POST INSTALLED CONCRETE ANCHORS PERIODIC SPECIAL INSPECTION SHALL BE IN ACCORDANCE WITH CBC 2013 SECTION 1705A AND TABLE 1705A.3 INCLUDING VERIFICATION OF ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, ANCHOR SPACING, EDGE DISTANCES, CONCRETE MEMBER THICKNESS, TIGHTENING TORQUE, HOLE DIMENSIONS, ANCHOR EMBEDMENT AND ADHERENCE TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. IN ADDITION, FOLLOW THE PROVISIONS OF THE 2013 CALIFONIA BUILDING CODE SECTION 1913A.7.2 BY CONFIRMING THE INSTALLATION TORQUE SPECIFIED BY THE MANUFACTURER. TESTING IS NOT TO OCCUR UNTIL A MINIMUM OF 24 HOURS HAS ELAPSED AFTER THE INSTALLATION OF THE SUBJECT ANCHORS. TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR. TEST 50% OF THE ANCHORS FOR EACH PIECE OF EQUIPMENT. USING A CALIBRATED TORQUE WRENCH VERIFY THE INSTALLATION TORQUE IS OBTAINED WITHIN 1/2 TURN OF THE NUT. A REPORT OF TEST RESULTS IS TO BE SUBMITTED TO THE ENFORCEMENT AGENCY. THE SEOR SHALL PROVIDE REMEDIAL ANCHORAGE DETAILS IN THE EVENT THAT AN ANCHOR FAILS TO MEET THE TEST REQUIREMENTS.
- 4. EXERCISE DUE CARE WHEN DRILLING POST-INSTALLED ANCHORS TO AVOID DAMAGING CONCRETE REINFORCEMENT OR TENDONS.
- 5. PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT AND WASHER.

 RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD KIKUMOTO
- 1. CONFIRM THE MINIMUM REQUIREMENTS FOR THE CONCRETE SLAB ARE MET.
- 2. PROVIDE A PLAN FOR INSPECTION OF SUPPORTS AND ATTACHMENTS AND VERIFY ITS IMPLEMENTATION.
- 3. VERIFY THAT THE EXISITING STRUCTURE IS ADEQUATE FOR THE IMPOSED DEAD, LATERAL AND TENSION FORCES SHOWN IN ADDTION TO ALL OTHER LOADS.
- 4. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH CBC 2013 AND WITH THE OPM-0329-13 DETAILS.
- 5. VERIFY THAT THE PROJECT SPECIFIC SOS AND z/h VALUES RESULT IN SEISMIC FORCES (Eh AND Ev) DO NOT EXCEED THE VALUES SHOWN IN THESE DETAILS.

OPM-0329-13 BELIMED MST-H(10), 9-6-X HSX STERILIZER ATTACHMENT NOTES



A Division of Tomarco Contractor Specialties
1020 Crews Road, Suite Q, Matthews, NC 28105
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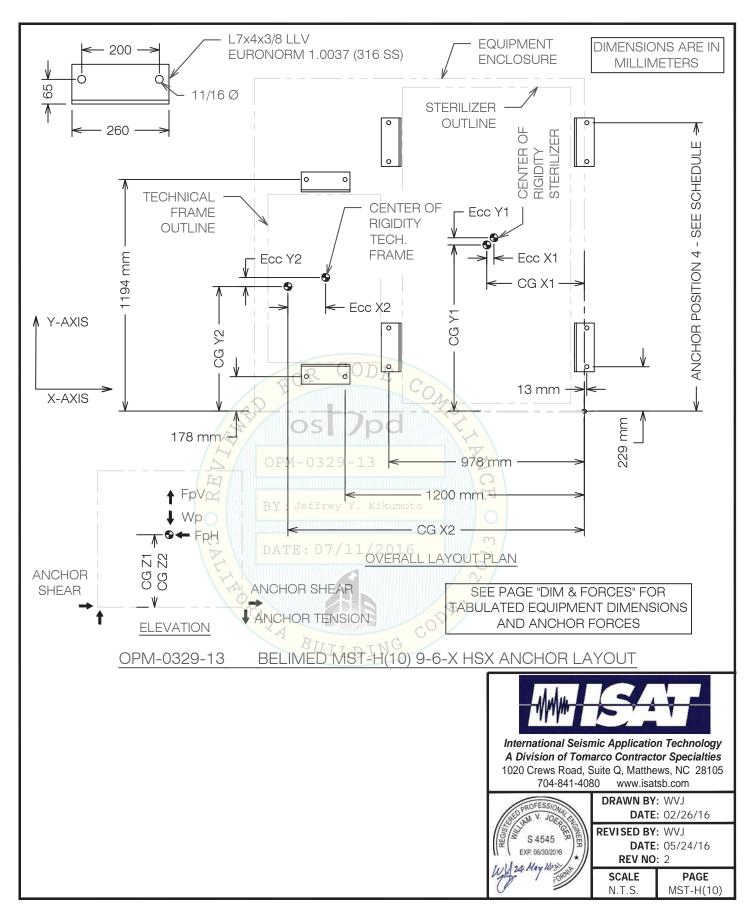
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PAGE ATTACHMENT

OSHPD OPM-0329-13 DWG - 2



OSHPD OPM-0329-13 DWG - 3

BELIMED MST-H (10) 9-6-X HSX STERILIZERS DIMENSIONS AND WEIGHTS								
Sterilizer		9-6-12 HS1	9-6-15 HS1	9-6-18-HS1	9-6-12 HS2	9-6-15 HS2	9-6-18-HS2	
Operating Wt	kg	1811	2120	2375	2253	2569	2831	
CG X1	mm	503	503	503	503	503	503	
Ecc X1	mm	20	20	20	20	20	20	
CG Y1	mm	706	842	979	856	1011	1165	
Ecc Y1	mm	-152	-171	0	-2	-2	-1	
CG Z1	mm	808	808	808	817	817	907	
Anchor Postion 4	mm	1486	1797	2102	1486	1797	2102	
Technical Frame		9-6-12 HS1	9-6-15 HS1	9-6-18-HS1	9-6-12 HS2	9-6-15 HS2	9-6-18-HS2	
Operating Wt	kg	210	220	220	210	220	220	
CG X2	mm	1528	1524	1524	1528	1524	1524	
Ecc X2	mm	226	222	222	226	222	222	
CG Y2	mm	642	643	643	642	643	643	
Ecc Y2	mm	44	43	43	44	43	43	
CG Z2	mm	584	552	552	584	552	552	

	Attachment at Grad	Attachment at Elevated Slab				
Model	Anchor Type	Forces at Grade		Anchor Type	Forces at Elevated Slab	
	See Page "GEN NOTES" - Note 8	Tu - Lbs	Vu - Lbs	Note 3	Tu - Lbs	Vu - Lbs
MST-H(10) 9-6-12	HILTI KB ZT SS 0.625" x 4" EFF, EMBED.	1810	1400	0.625" SS ROD	3600	3750
MST-H(10) 9-6-15	HILTI KB ZT SS 0.625" x 4" EFF. EMBED.	1900	1600	0.625" SS ROD	3840	4260
MST-H(10) 9-6-18	HILTI KB ZT SS 0.625" x 4" EFF. EMBED.	2270	1760	0.625" SS ROD	4530	4700
Technical Frame	HILTI KB ZT SS 0.625" x 3/125" EFF. EMBED.	iku 1200 5	300	0.625" SS ROD	2150	1030

- 1. Tu AND Vu VALUES INCLUDE AN OVERSTRENGTH FACTOR OF 1.5 IN ACCORDANCE WITH ASCE 7-10 SUPPLEMENT No. 1.
- 2. FOR INTERACTION CHECKS THE CALCULATED ANCHOR CAPACITY HAS BEEN MULTIPHED BY 0.75 TO ACCOUNT FOR THE CONCRETE ANCHORAGE CAPACITY REDUCTION FROM ACI 318-11 SECTION D3.3.4.4.
- 3. SEE NOTE 6 ON PAGE "GEN NOTES".

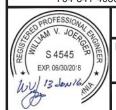
REFER TO PAGE "GRADE" FOR DETAILS AT SLAB-ON-GRADE CONCRETE SLABS.

REFER TO PAGE "MISC STEEL" FOR ELEVATED SLAB DETAILS.

OPM-0329-13 BELIMED MST-H(10) 9-6-X HSX DIMENSIONS AND ANCHOR FORCES



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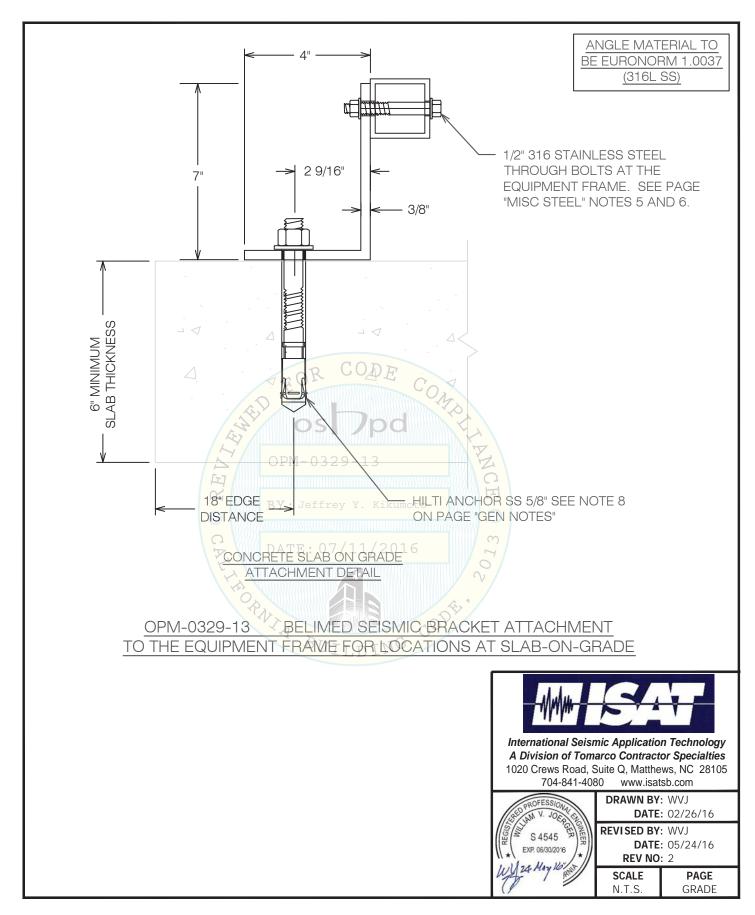


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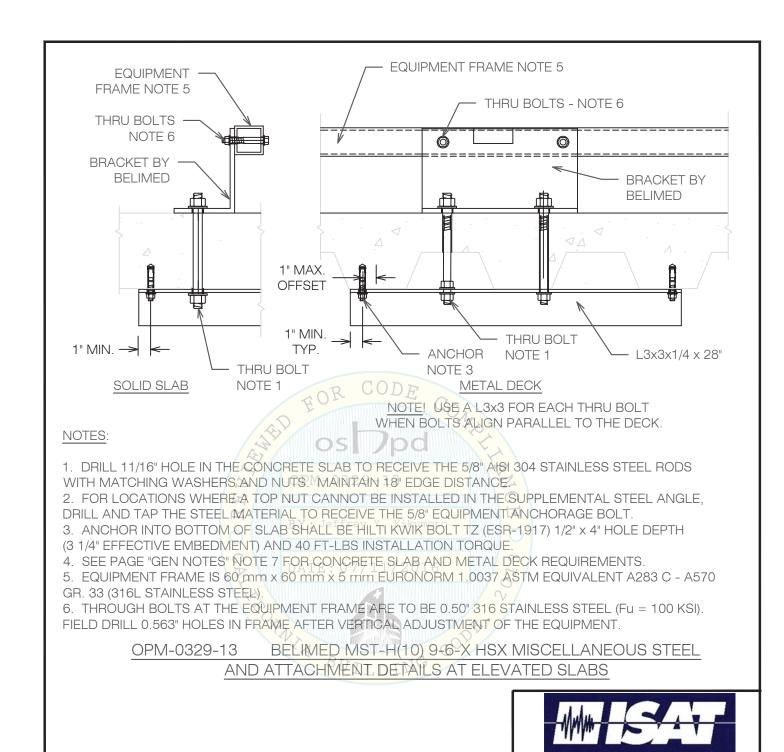
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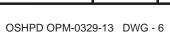
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OSHPD OPM-0329-13 DWG - 5





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PAGE

MISC. STEEL

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