

APPLICATION FOR OSHPD PREAPPROVAL

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:								
Type: New Penewal Millodate to Pre-CRC 2013 OPA Number:								
Type. — New — Netterwal M opuale to Tie-OBC 2013 Of A Number.								
Manufacturer Information								
Manufacturer: Belimed								
Manufacturer's Technical Representative: Nelson Garrido								
Mailing Address: 2325 Charleston Regional Parkway, Charleston, SC 29492								
Telephone: 843-216-7424 x372 Email: <u>Dnelson.garrido@belimed.com</u>								
Product Information								
Product Name: Single Chamber Washer-Disinfector								
Product Type: Washers OPM-0250-13								
Product Model Number: WD200, WD200E and WD200ED								
General Description: Belimed's WD200, WD200E and WD200ED washer-disinfector with manual hinged glass doors								
offers excellent cost-performance ratio. The smallest unit of this category with no lateral maintenance room needed,								
the low-consumption WD 200 processes 12 DIN trays.								
Applicant Information								
Applicant Company Name: ISAT Seismic Bracing								
Contact Person: William V Joerger								
Mailing Address: 1020 Crews Road, Suite Q, Matthews NC 28105								
Telephone: 510-714-0216 Email: wvjoerger@isatsb.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: WV July 10, 2015								
Title: Principal Structural Engineer Company Name: ISAT Seismic Bracing								

"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 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: 09/25/2015								
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:								
Print Name: Jeffrey Kikumoto								
Title: SSE								
Condition of Approval (if applicable):								

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

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OSH-FD-700 (REV 5/30/13)



A Division of Tomarco Contractor Specialties

Submittal Documents

OPM-0250-13

OSHPD OPM-0250-13

CONSTRUCTION DRAWINGS FOR BELIMED WD200, WD200E AND WD200ED WASHERS/DISINFECTORS

BELIMED

BUILDING

ISAT 1020 Crews Road Suite Q Matthews, N.C. 28105 704-841-4080

"Empowered by Experience"

REV 1

OSHPD OPM-0250-13 DWG - i

FILE NO.: CLT-0715-102

OSHPD OPM-0250-13

CONSTRUCTION DRAWINGS INDEX FOR BELIMED WD200, WD200E AND WD200ED WASHERS/DISINFECTORS

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Miscellaneous Steel	BY: Jeffrey Y. Kikumoto	p 4
	DATE: 09/25/2015	

OSHPD OPM-0250-13

MANUFACTURE: BELIMED EQUIPMENT TYPE: WASHER-DISINFECTOR

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 = 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
- 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: ANGLES ASTM A36, THROUGH BOLTS 304 STAINLESS STEEL WITH MATCHING WASHERS AND NUTS, SEISMIC FOOT ATTACHMENT BY BELIMED IS 11 GAGE AISI 304 STAINLESS STEEL, Fy = 31.2 KSI.
- 7. CONCRETE SLABS:
 - a. FOR SLAB ON GRADE OR ELEVATED SOLID CONCRETE SLABS: 6" THICKNESS OF NORMAL WEIGHT CONCRETE WITH 3000 PSI MINIMUM STRENGTH.
 - b. METAL DECK: 3" DEEP COMPOSITE STEEL DECK, 20 GAGE MINIMUM, 4.5 INCH MINIMUM BOTTOM FLUTE WIDTH WITH 3.25", FLUTE SPACING IS 12", SAND LIGHT WEIGHT CONCRETE CONCRETE COVER AT 3000 PSI
- 8. RETROFIT CONCRETE ANCHORS: HILTI KWIK BOLTS TZ (ESR-1917) STAINLESS STEEL 0.50" DIAMETER x 4" MINIMUM HOLE DEPTH (3.25" EFFECTIVE EMBEDMENT) AND 40 FT-LBS INSTALATION TORQUE.
- 9. THROUGH BOLTS: AISI 304 STAINLESS STEEL, 0.50" DIAMETER BOLT OR ALL THREAD RODS WITH MATCHING NUTS AND WASHERS.

 DATE: 09/25/2015

OPM-0250-13 BELIMED WD200, WD200E AND WD200ED WASHER/DISINFECTOR GENERAL NOTES



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



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REVISED BY: WVJ DATE: 09/18/15 REV NO: 1

SCALE N.T.S. PAGE GEN NOTES

OSHPD OPM-0250-13

MANUFACTURE: BELIMED

EQUIPMENT TYPE: WASHER-DISINFECTOR

ATTACHMENT NOTES:

- 1. SEE "GENERAL NOTES" FOR SEISMIC CRITERIA USED.
- 2. REFER TO OPM-0250-13 DETAILS FOR THE MATERIALS OF CONSTRUCTION AND FASTENER DIMENSIONS.
- 3. 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
 - 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.

 4. 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. REPORT OF TEST RESULTS ARE 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.

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD (SEOR)

- 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 ADDITION TO ALL OTHER LOADS:
- 4. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH CBC 2013 AND WITH THE OPM-0250-13 DETAILS.
- 5. VERIFY THAT THE PROJECT SPECIFIC S_{DS} AND z/h VALUES RESULT IN SEISMIC FORCES (Eh AND Ev) DO NOT EXCEED THE VALUES SHOWN IN THESE DETAILS.

OPM-0250-13 BELIMED WD200, WD200E AND WD200ED WASHER/DISINFECTOR ATTACHMENT NOTES



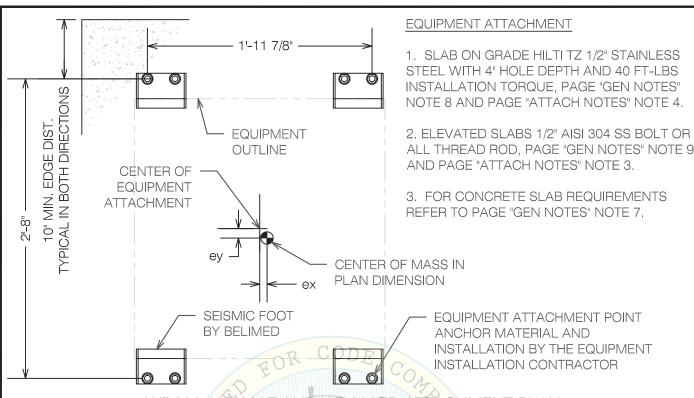
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SCALE N.T.S. PAGE ATTACH NOTES



WD200, WD200E AND WD200ED ATTACHMENT PLAN

Model	Weight	ex	ey	Vertical Ecc	Max Anchor Forces at Grade		Max Anchor Forces at Elevated	
	Pounds	in 📙	in	in	Tu - Lbs	Vu - Lbs	Tu - Lbs	Vu - Lbs
WD200	675	0.0625	0.25	BY 41.625 rey	Y. K 1083 oto	191	2030	509
WD200E	675	0.0625	0.25	41.625	1083	191	2030	509
WD200ED	785	0.0625	0.25	47.5	1453	222	2705	592

- 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 MULTIPLIED BY 0.75 TO ACCOUNT FOR THE CONCRETE ANCHORAGE CAPACITY REDUCTION FROM ACI 318-11 SECTION D3.3.4.4.

OPM-0250-13 BELIMED WD200, WD200E AND WD200ED
ANCHOR LAYOUT AND FORCES



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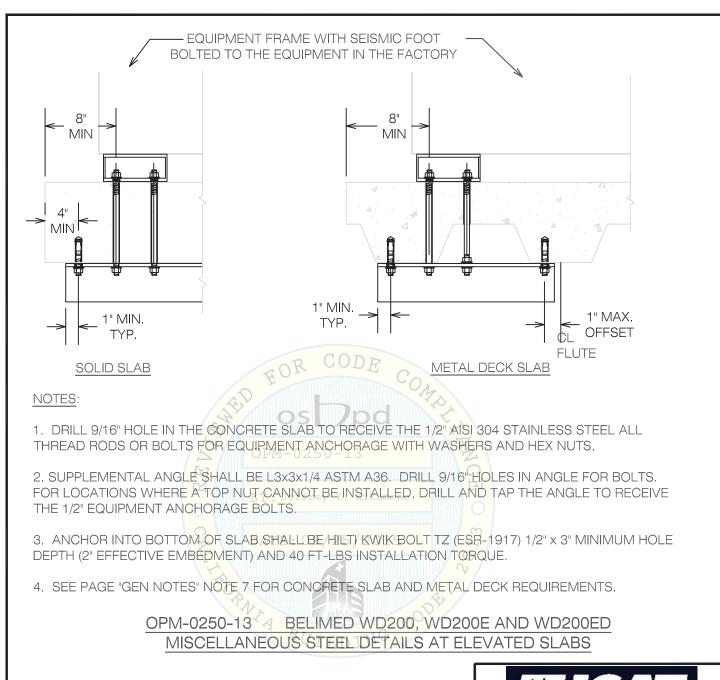


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SCALE PAGE N.T.S. WD200 LAYOU

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MISC. STEEL

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N.T.S.