APPLICATION FOR OSHPD PREAPPROVAL	OFFI	CE USE ONLY				
OF MANUFACTURER'S CERTIFICATION (OPM)		DM 0505 42				
	APPLICATION #: C	DPM-0505-13				
OSHPD Preapproval of Manufacturer's Certification (OPM)						
Type: New Renewal Update to Pre-CBC 2013 C	PA Number:					
Manufacturer Information						
Manufacturer: Medisafe						
Manufacturer's Technical Representative: <u>Neil May</u>						
Mailing Address:	23 3LJ, UK					
Telephone: +44(0)1279 461641 Email: Dnmay@	medisafeinternationa	l.com				
Product Information	Mp					
Product Name: SI Contour	E-					
Product Type: Washer / Sterilizer	"ZC					
Product Model Number: MED 523046, MED 523036, MED 523035						
General Description: Medisafe Sonic washer and sterilizer series in va	rious electronic config	gurations to account for				
different mains input ranges. QATE: 09/23/2019	7 6					
E.						
Applicant Information	AN INCOMENT					
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, 2016.						
Signature of Applicant:	Da	te: 10/15/18				

Registered Design Professional Preparing Engineering Recommendations						
Company Name:ISAT Seismic Bracing						
Name: William V Joerger California License Number: SE4545						
Mailing Address:1020 Crews Rd, Matthews NC 28105						
Telephone:   510-714-0216   Email:   wvjoerger@isatsb.com						
OSHPD Special Seismic Certification Preapproval (OSP)						
<ul> <li>□ Special Seismic Certification is preapproved under OSP- (Separate application for OSP is required)</li> <li>☑ Special Seismic Certification is not preapproved</li> </ul>						
Certification Method(s)						
□       Testing in accordance with:       □       ICC-ES AC156       □       FM 1950-16         ☑       Other*       (Please Specify):       Equipment is considered to be rugged. OPM is for anchorage to concrete slabs.						
<ul> <li>*Use of criteria other than those adopted by the California Building Standards Code, 2016 (CBSC 2016) 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 2016 may be used when approved by OSHPD prior to testing.</li> <li>Analysis</li> <li>Experience Data</li> <li>Combination of Testing, Analysis, and/or Experience Data (Please Specify):</li> </ul>						
List of Attachments Supporting the Manufacturer's Certification						
<ul> <li>Test Report</li> <li>Drawings</li> <li>Calculations</li> <li>Manufacturer's Catalog</li> <li>Other(s) (Please Specify):</li> </ul>						
OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2016 & ALL PRE-2016 CODE BASED PROJECTS         Signature:						



# INTERNATIONAL SEISMIC APPLICATION TECHNOLOGY

A Division of Tomarco Contractor Specialties

Submittal Documents

# OSHPD OPM-0505-13

## MEDISAFE SI CONTOUR WASHERS AND STERILIZERS

## SUPPORT AND ATTACHMENT CONSTRUCTION DRAWINGS

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



FILE NO.: CLT-1018-122

"Empowered by Experience"

REV 3



## **OSHPD OPM-0505-13**

## MEDISAFE

### DRAWING INDEX



#### OSHPD OPM-0505-13

### MANUFACTURE: MEDISAFE EQUIPMENT TYPE: WASHERS / STERILIZERS

#### GENERAL NOTES:

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2016. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2016.
- 2. SEISMIC CRITERIA USED:  $S_{DS} = 2.5$   $I_P = 1.5$  ap = 1.0 Rp = 1.5 (OTHER EQUIPMENT). FOR z/h = 0 FpH = 1.13 AND FOR z/h ≤ 1.0 FpH = 3.00 AND 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  $\Omega_0$  = 1.5 IS USED FOR CONCRETE MATERIALS PER ASCE 7-10 SUPPLEMENT 1 TABLE 13.6-1. LOADS SHOWN ARE STRENGTH DESIGN LOADS PER CBC 2016 SECTION 1605A.2.
- 4. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
- STEEL MATERIALS: PLATE 10600 (304-2B-6) STAINLESS STEEL BY MANUFACTURER (Fy = 31.2 KSI), ALL THREAD ROD ASTM F593 CW1 304 STAINLESS STEEL FOR BOLTS (Fy=30 ksi) AT ELEVATED FLOORS, ANGLE ASTM A36 (Fy = 36 KSI) HOT DIPPED GALVANIZED.
- 6. CONCRETE SLABS:

a. FOR ELEVATED SOLID CONCRETE SLABS: 6" THICKNESS OF NORMAL WEIGHT CONCRETE WITH 3000 PSI MINIMUM
b. METAL DECK: 3" DEEP COMPOSITE STEEL DECK, 20 GAGE MINIMUM, 41/2 INCH MINIMUM BOTTOM FLUTE WIDTH AND
MINIMUM FLUTE SPACING OF 12", WITH 3 1/4 INCH SAND LIGHT WEIGHT CONCRETE CONCRETE COVER AT 3000 PSI
c. FOR SLAB ON GRADE: 6" THICKNESS NORMAL WEIGHT CONCRETE AT 3000 PSI MINIMUM STRENGTH.

- 7. POST-INSTALLED CONCRETE ANCHORS: HILTI HIT-HY 200 HAS-R (ESR-3187) STAINLESS STEEL 1/2" DIAMETER x 3" EMBEDMENT. DRILL 9/16" DIAMETER x 4 INCH DEEP HOLE; CLEAN HOLE PER MANUFACTURER'S INSTRUCTIONS. FOR ANCHORS INTO THE SOFFITT OF THE METAL DECK USE KWIK BOLT TZ (ESR-1917) 1/2" DIAMETER x 4" MIN. HOLE DEPTH FOR 3 1/4" EFFECTIVE EMBEDMENT WITH 1" MAXIMUM OFFSET FROM THE CENTER OF THE METAL DECK FLUTE. BOTH ARE SUPPLIED BY INSTALLATION CONTRACTOR.
- 8. EXCERCISE DUE CARE WHEN DRILLING POST-INSTALLED ANCHORS TO AVOID DAMAGING CONCRETE REINFORCEMENT OR TENDONS.

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OPM-0505-13	MEDISAFE SI CONTOUR WASHERS / STERILIZERS GENERAL NOTES						
			A Division of To International Sei 1020 Crews Road 704-841-4	<b>smic Applicat</b> , Suite Q, Mattl	ion Technology		
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#### OSHPD OPM-0505-13

### MANUFACTURE: MEDISAFE EQUIPMENT TYPE: WASHERS / STERILIZERS

#### ATTACHMENT NOTES:

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2016. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2016.
- 2. PERIODIC SPECIAL INSPECTION PER CBC 2016 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, HOLE DIMENSIONS, ANCHOR EMBEDMENT AND ADHERENCE TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. IN ADDITION, FOLLOW THE PROVISIONS OF THE 2016 CALIFONIA BUILDING CODE SECTION 1910A.5.5. FOR ADHESIVE ANCHORS TENSION TESTING BY THE HYDRAULIC RAM METHOD SHALL USE A TENSION FORCE OF 2250 POUNDS (1.25\*ANCHOR STRENGTH). TENSION TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR. TORQUE CONTROLLED POST-INSTALLED ANCHORS TEST USING A CALIBRATED TORQUE WRENCH; 40 FOOT-POUNDS TORQUE SHALL BE ACHIEVED WITHIN ONE-HALF TURN OF THE NUT. TEST 50% OF THE ANCHORS FOR EACH PIECE OF EQUIPMENT. IF ANY ANCHOR FAILS TEST ALL ANCHORS. REPORT OF TEST RESULTS ARE TO BE SUBMITTED TO THE ENFORCEMENT AGENGY. THE SEOR SHALL PROVIDE REMEDIAL ANCHORAGE DETAILS IN THE EVENT THAT AN ANCHOR FAILS TO MEET THE TEST REQUIREMENTS. FOR THROUGH BOLTS MARK THE NUT LOCATION AT SNUG TIGHT CONDITION. INSPECTOR IS TO VERIFY 3/4 TURN.
- 3. STRENGTH DESIGN WAS USED FOR ANCHOR FORCE CALCULATIONS INCLUDING  $\Omega_0$  PER ACI 318-14 WHERE REQUIRED FOR ATTACHMENT TO CONCRETE.
- 4. PROVIDE FOR FULL THREAD ENGAGEMENT OF THE NUT AND WASHER.

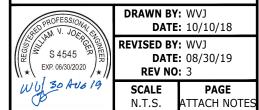
#### RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD

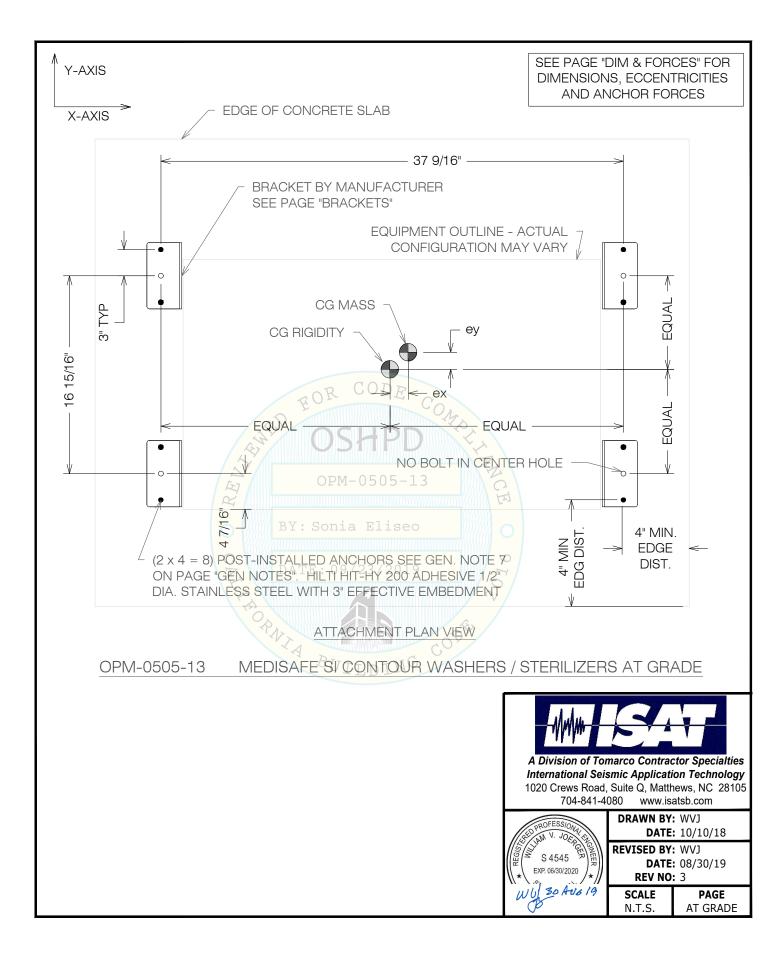
- 1. CONFIRM THE MATERIAL PROPERTIES AND THICKNESS OF THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ATTACHED MEETS THE REQUIREMENTS OF THIS OPM.
- 2. PROVIDE A PLAN FOR INSPECTION OF SUPPORTS AND ATTACHMENTS AND VERIFY ITS IMPLEMENTATION.
- 3. CONFIRM THE SPECIFIED MINIMUM CONCRETE EDGE DISTANCES ARE MAINTAINED BASED ON THE ACTUAL EQUIPMENT LOCATION. VERIFY THAT EXISTING OR NEW ANCHORS ARE AN ADEQUATE DISTANCE FROM THIS UNIT'S ATTACHMENT.
- 4. VERIFY THAT THE EXISITING STRUCTURE IS ADEQUATE FOR THE IMPOSED DEAD, LATERAL AND TENSION FORCES SHOWN IN ADDITION TO ALL OTHER LOADS.
- 5. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH CBC 2016 AND WITH THE OPM-0505-13 DETAILS INCLUDING MATERIALS AND DIMENSIONS OF THE SUPPORT WHERE THE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION
- 6. VERIFY THAT THE PROJECT SPECIFIC S<sub>DS</sub> AND z/h VALUES RESULT IN SEISMIC FORCES (Eh AND Ev) DO NOT EXCEED THE VALUES SHOWN IN THESE DETAILS.

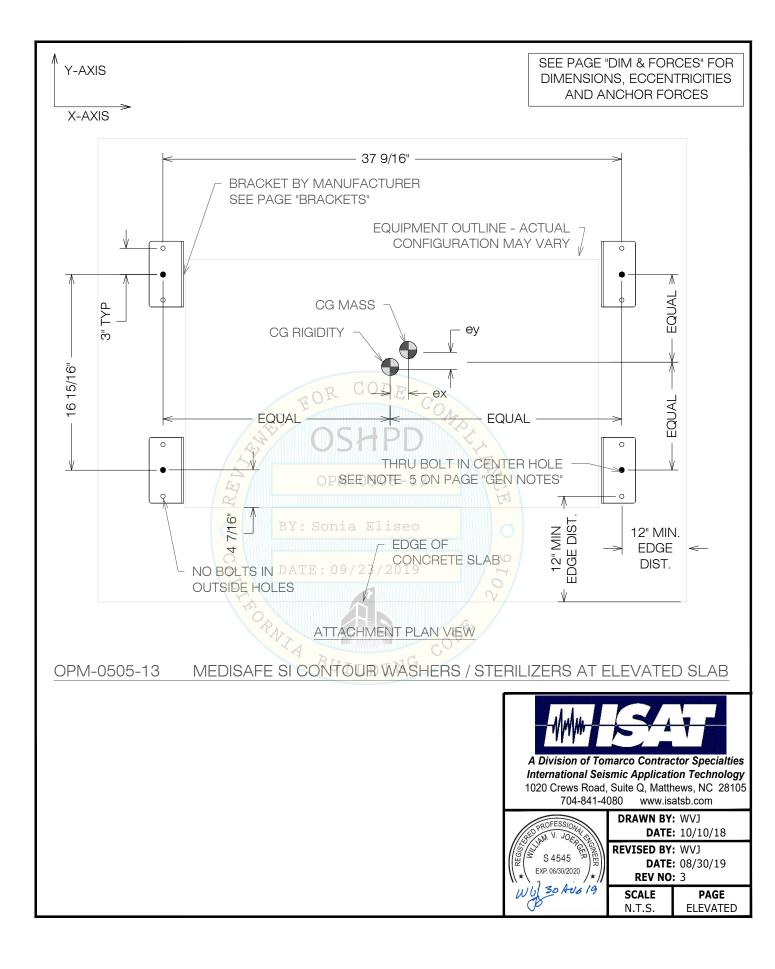
### OPM-0505-13 MEDISAFE SI CONTOUR WASHERS / STERILIZERS ATTACHMENT NOTES

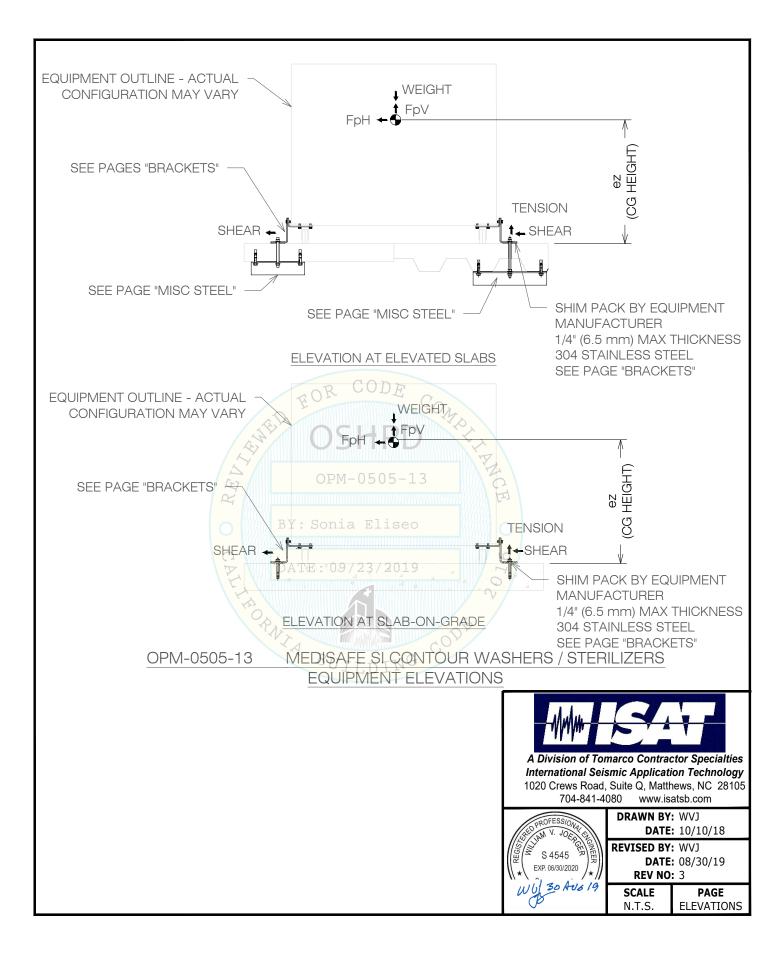


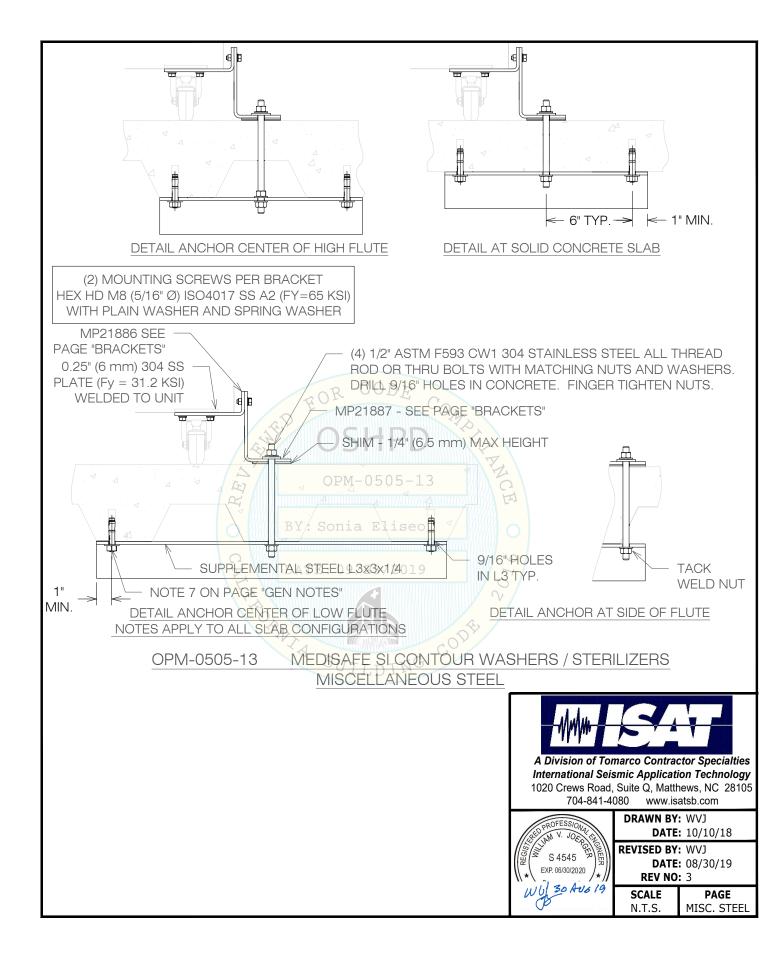
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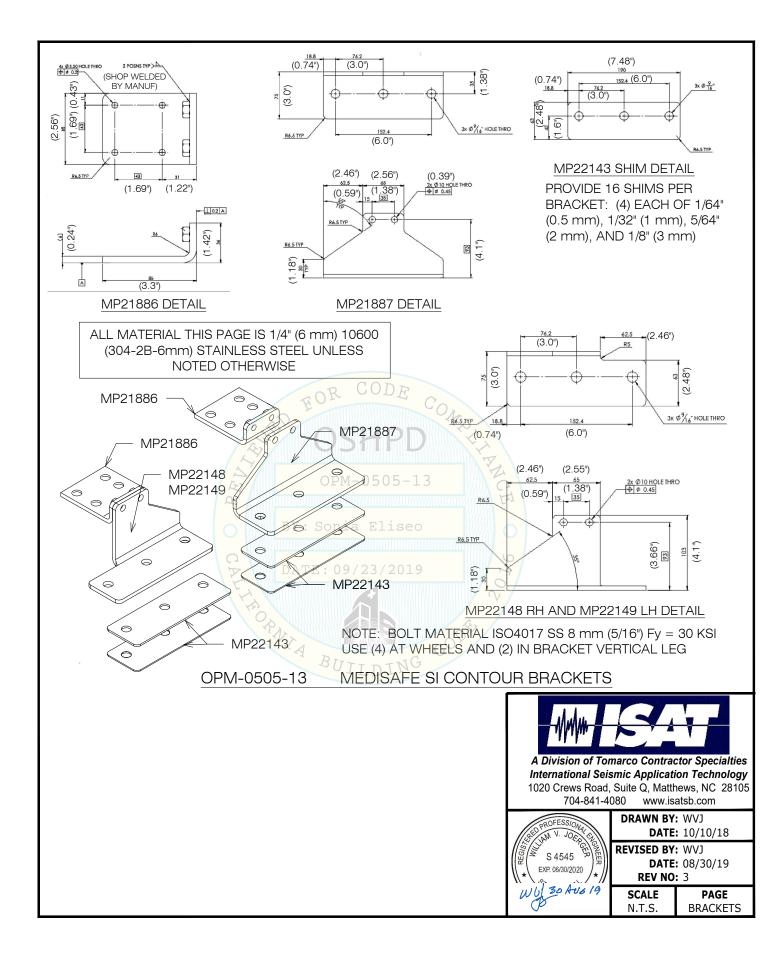












MEDISAFE SI CONTOUR WASHERS / STERILIZERS								
	Equipment Data			Anchor Dimensions		Equipment Eccentricies		
Model Series	Model	Max. Water Fill	Weight (lb)	Length (in)	Depth (in)	ex (in)	ey (in)	ez (in)
SI CONTOUR	MED 523046	NO	289.0	37.56	16.93	0.91	0.56	20.46
SI CONTOUR	MED 523046	YES	372.8	37.56	16.93	1.05	0.57	23.00
SI CONTOUR	MED 523036	NO	289.0	37.56	16.93	0.91	0.56	20.46
SI CONTOUR	MED 523036	YES	372.8	37.56	16.93	1.05	0.57	23.00
SI CONTOUR	MED 523035	NO	289.0	37.56	16.93	0.91	0.56	20.46
SI CONTOUR	MED 523035	YES	372.8	37.56	16.93	1.05	0.57	23.00

MEDISAFE SI CONTOUR WASHERS / STERILIZERS						
Equipment Data Seismic D		Seismic Design	orces at Grade <sup>2</sup>	Seismic Design Forces at Elevated <sup>2</sup>		
Model Series	Model	Max. Water Fill <sup>3</sup>	Vu (lbs.)	Tu (lbs.)	Vu (lbs.)	Tu (lbs.)
SI CONTOUR	MED 523046	NO	62	146	329	550
SI CONTOUR	MED 523046	YES	83	219	431	802
SI CONTOUR	MED 523036	NO	62	146	329	550
SI CONTOUR	MED 523036	YES	83	219	431	802
SI CONTOUR	MED 523035	NO OPN	1 - 0.5062 - 1.3	146	329	550
SI CONTOUR	MED 52 <mark>3035</mark>	YES	83	219	431	802

1. WEIGHTS AND MOMENTS ARE FACTORED LOADS USING STRENGTH DESIGN AND INCLUDE THE FOLLOWING FACTORS: DL = 0.9, FpH AT GRADE = 1.13, FpH ELEVATED = 3.0 AND FpV = 0.5.

2. TABULATED FORCES ARE PER ANCHOR AT STRENGTH DESIGN LEVEL AND INCLUDE A CONCRETE OVERSTRENGTH FACTOR  $\Omega_0 = 1.5$  AS REQUIRED. FOR THROUGH BOLTS ON ELEVATED SLABS A TENSION OVERSTRENGTH FACTOR OF 1.0 IS USED.

3. MAX. WATER FILL INDICATES THE ANALYSIS INCLUDES WATER WEIGHT.

OPM-0505-13

### MEDISAFE SI CONTOUR WASHERS / STERILIZERS EQUIPMENT DIMENSIONS AND FORCES



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