

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD PREAF	PPROVAL OF
MANUFACTURER'S CERTIFICATION	N (OPM)

OFFICE USE ONLY

APPLICATION #: OPM-0198

OSHPD Preapproval of Manufacturer's Certification (OPM)
Type: New X Renewal/Update
Manufacturer Information
Manufacturer: Steris
Manufacturer's Technical Representative: Lloyd Dupuis
Mailing Address: 490 boul. Armand-Paris, Quebec, QC G1C8A3
Telephone: (418) 664-1549 Email: Lloyd_Dupuis@steris.com
EOR CODE COA
Product Information OSHPD
Product Name: VISION AND RELIANCE WASHERS/DISINFECTORS
Product Type: Washer/Disinfector OPM-0198
Product Model Number: Vision 1321, Vision 1327, Vision 1330L, Reliance 1227
General Description: Vision and Reliance Cart and Utensil Washers/Disinfectors are washers designed to clean and disinfect specific medical utensils, surgical instruments and other articles found in healthcare facilities. Productivity is improved through faster cleaning cycles, touch screen, PC controls and flow meters for verification of injection rates.
Applicant Information
Applicant Company Name: ISAT SEISMIC BRACING
Contact Person: WILLIAM JOERGER
Mailing Address: 14848 Northam Street, La Mirada, CA 90638
Felephone: (714) 920-6066 Email: wvjoerger@isatsb.com
Title:

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

STATE OF CALIFORNIA- HEALTH AND HUMAN SERVICES AGENCY







OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professonal Preparing Engineering Recommendations			
Company Name: ISAT SEISMIC BRACING			
Name: WILLIAM JOERGER California License Number: S4545			
Mailing Address: 14848 Northam Street, La Mirada, CA 90638			
Telephone: (714) 920-6066 Email: wvjoerger@isatsb.com			
OCUBD Special Science Cartification Programmoval (OSB)			
OSHPD Special Seismic Certification Preapproval (OSP)			
Special Seismic Certification is preapproved under OSP OSP Number:			
OR CODE			
Certification Method			
Testing in accordance with:			
Other(s) (Please Specify):			
*Use of criteria other than those adopted by the California Building Standards Code, 2019 (CBSC 2019) 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 2019 may be used when approved by OSHPD prior to testing.			
X Analysis BY: Jeffrey Kikumoto			
Experience Data DATE: 05/29/2020			
Combination of Testing, Analysis, and/or Experience Data (Please Specify):			
CODY			
OSHPD Approval BUILDING			
Date: <u>5/29/2020</u>			
Name: Jeffrey Kikumoto Title: Senior Structural Engineer			
Condition of Approval (if applicable):			

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









A Division of Tomarco Contractor Specialties

Submittal Documents

OPM-0198

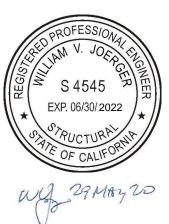
OSHPD OPM-0198

INSTALLATION DRAWINGS
VISION 1321, VISION 1327, VISION 1330L AND
RELIANCE 1227 WASHERS/DISINFECTOR

STERIS

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

"Empowered by Experience"



CBC 2019 REV 1

FILE NO.: CLT-0315-040



OSHPD OPM-0198

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BY: Jeffrey Kikumoto	
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FILE NO.: CLT-0315-040 "Empowered by Experience"

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OSHPD OPM-0198

MANUFACTURE: STERIS

EQUIPMENT TYPE: WASHERS/DISINFECTORS

GENERAL NOTES FOR ATTACHMENT:

- THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2019. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2019.
- 2. SEISMIC CRITERIA USED: $S_{DS} = 2.5$ $I_P = 1.5$ Ap = 1.0 Rp = 2.5 (WET SIDE COMPONENT) for z/h = 0 FpH = 1.13 Wp and for $z/h \le 1.0$ (ELEVATED SLABS) FpHorz = 1.80 Wp (SEE PAGE "CONC REINF" FOR SUPPLEMENTAL CONCRETE REINFORCING STEEL). WHERE z/h IS 0.5 FpH = 1.20 (SUPPLEMENTAL CONCRETE REINFORCING STEEL IS NOT REQUIRED). FpVertical = 0.50 Wp.
- 3. SUPPORT AND ATTACHMENT FORCES ARE DETERMINED USING ASCE 7-16 CHAPTER 13 "SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS". AN OVERSTRENGTH FACTOR Ω_0 = 2.0 IS USED FOR CONCRETE MATERIALS AND Ω_0 = 1.0 FOR STEEL MATERIALS PER ASCE 7-16 TABLE 13.6-1. LOADS SHOWN ARE STRENGTH DESIGN LOADS PER CBC 2019 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 Sps <= 2.5.
- 6. MATERIALS: PLATE ASTM A36, WIDE FLANGED BEAM ASTM A992 F_Y = 50 KSI, WELDED STUDS ASTM A 36, BOLTS ASTM A307 WITH ASTM F436 CIRCULAR WASHERS, WELDING FILLER MATERIAL E70XX FOR CARBON STEEL WELDING, SHIM PLATE BY STERIS AISI 304 STAINLESS STEEL, CONCRETE REINFORCING BARS ASTM A615 GRADE 60 F_Y = 60 KSI.
- 7. CONCRETE SLABS. FOR THROUGH BOLTS SOLID CONCRETE SLAB 6" NORMAL WEIGHT CONCRETE WITH 3000 PSI STRENGTH.

 METAL DECK 3" DEEP COMPOSITE DECK, 20 GA MINIMUM, 4.5 INCH MINIMUM BOTTOM FLUTE WIDTH AND 12" FLUTE SPACING

 AND 3.25" MINIMUM LIGHT WEIGHT CONCRETE COVER WITH 3000 PSI MINIMUM STRENGTH. FOR EMBEDDED PLATES 10"

 MINIMUM THICKNESS NORMAL WEIGHT CONCRETE WITH 4000 PSI MINIMUM STRENGTH.
- 8. EXERCISE DUE CARE WHEN DRILLING POST-INSTALLED ANCHORS TO AVOID DAMAGING CONCRETE REINFORCING OR TENDONS.

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD

- 1. CONFIRM THE MATERIAL PROPERTIES 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 CONGRETE EDGE DISTANCES ARE MAINTAINED BASED ON THE ACTUAL EQUIPMENT LOCATION. DETAIL CONCRETE PIT DIMENSIONS TO PROVIDE ADEQUATE COVER FOR THE FOUNDATION ANCHOR RODS.
- 4. VERIFY THAT THE 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 2019 AND WITH THE OPM-0198 DETAILS INCLUDING MATERIALS AND DIMENSIONS OF THE SUPPORT WHERE THE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN.
- 6. VERIFY THAT THE PROJECT SPECIFIC Sos AND z/h VALUES RESULT IN SEISMIC FORCES (Eh AND EV) DO NOT EXCEED THE VALUES

OPM-0198 STERIS VISION AND RELIANCE WASHERS/DISINFECTORS GENERAL NOTES



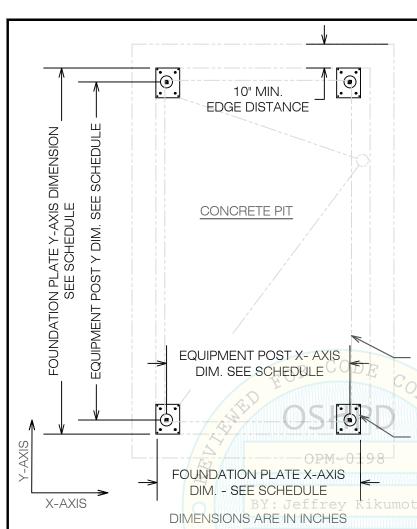
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SCALE N.T.S. PAGE GEN NOTES



NOTES:

- 1. FOR INSTALLATIONS WITH A PIT THE PLATE ELEVATION IS TO BE 7" BELOW THE FINISHED SLAB ELEVATION.
- 2. FOR INSTALLATIONS WITHOUT A PIT, SET THE TOP OF THE FOUNDATION PLATE FLUSH WITH THE TOP OF THE SLAB.
- 3. FOUNDATION PLATE IS TO BE SET LEVEL AND TRUE WITHIN 1/32" PER FOOT.
- 4. FOR MODEL VISION 1321 THE EDGE DISTANCE TO THE CENTER DRAIN IS ALLOWED TO BE 5 INCHES. SEE PAGE "CONC REINF" FOR ADDITIONAL CONCRETE REINFORCEMENT DETAILS.

OUTLINE OF COMPONENT ABOVE

SEE PAGE "FON PLATE" FOR DETAILS OF THE EMBEDDED PLATE.

SEE PAGE "POST ATTACH" FOR DETAILS OF THE EQUIPMENT FRAME CONNECTION

MODEL	POST X-AXIS DIM	POST Y-AXIS DIM	PLATE X-AXIS DIM	PLATE Y-AXIS DIM	VERTICAL CG	WEIGHT - LBS
VISION 1321	61.625 (61.5/8)	84.562 (84 9/16)	68.75 (68 3/4)	94	51.25	6371
VISION 1327	61.625 (61 5/8)	108.562 (108 9/16)	68.75 (68 3/4)	118	50.65	6666
VISION 1330L	61.625 (61 5/8)	120.562 (120 9/16)	68.75 (68 3/4)	130	50.45	6810
RELIANCE 1227	55.625 (55 5/8)	108.562 (108 9/16)	60.75 (60 3/4)	118	49.15	5360

OPM-0198 STERIS VISION AND RELIANCE WASHERS/DISINFECTORS FOUNDATION PLAN



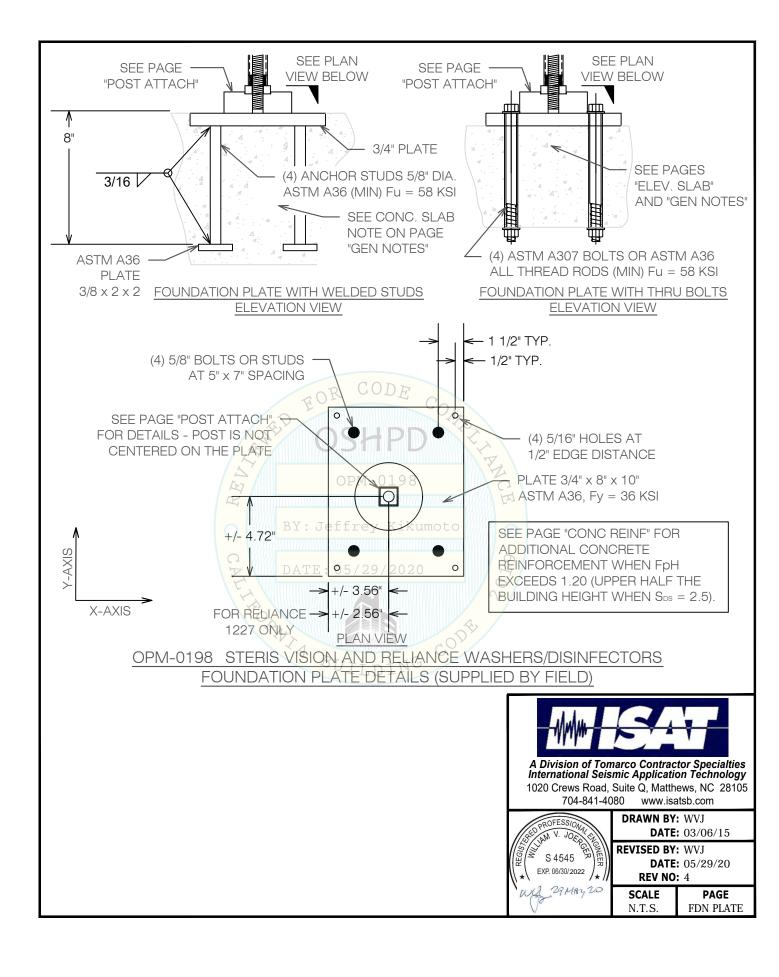
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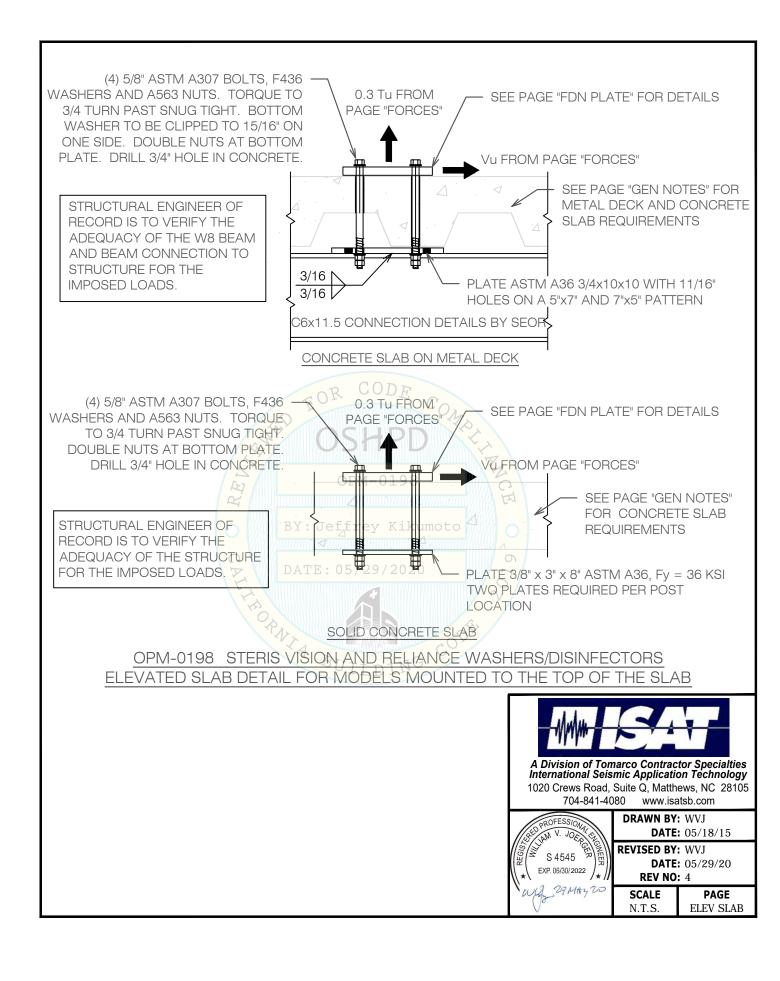


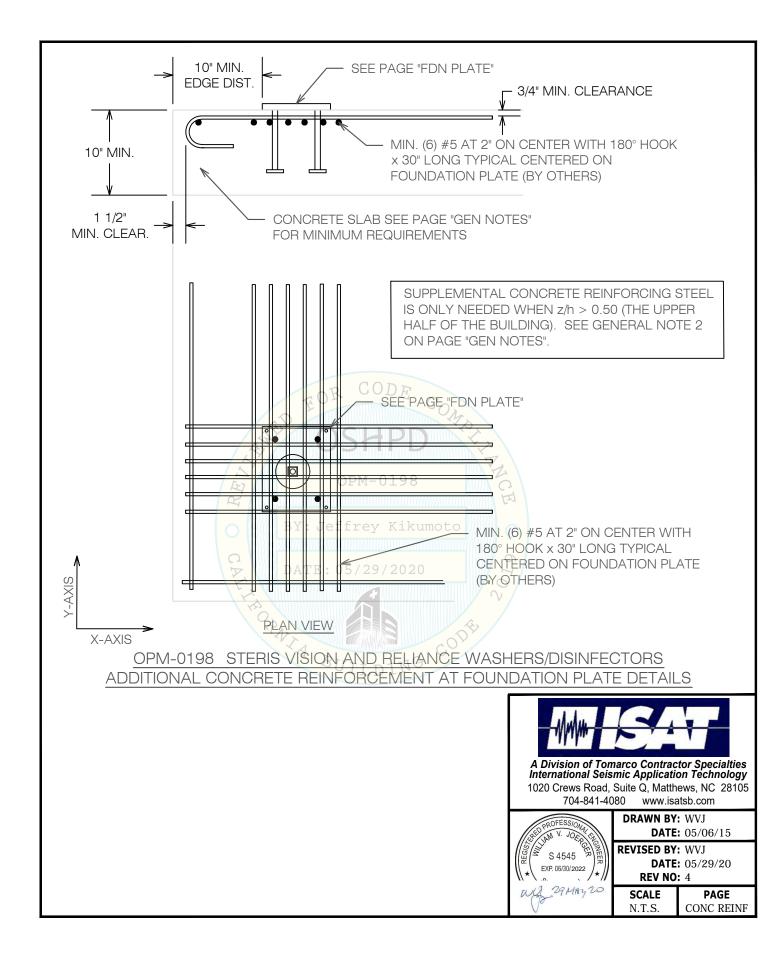
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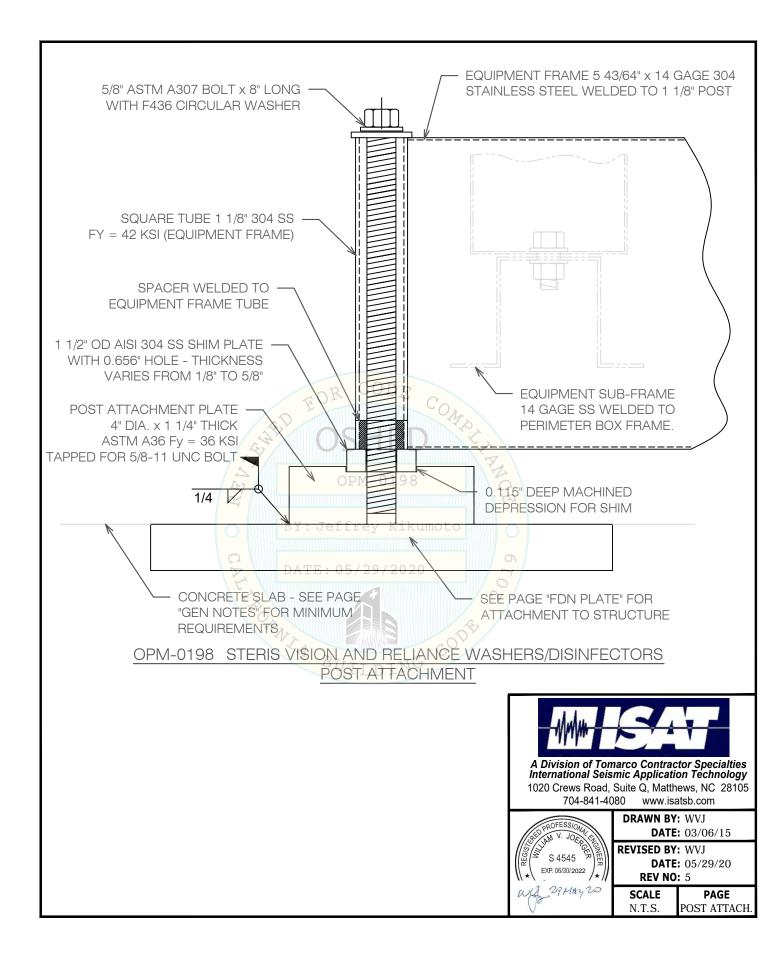
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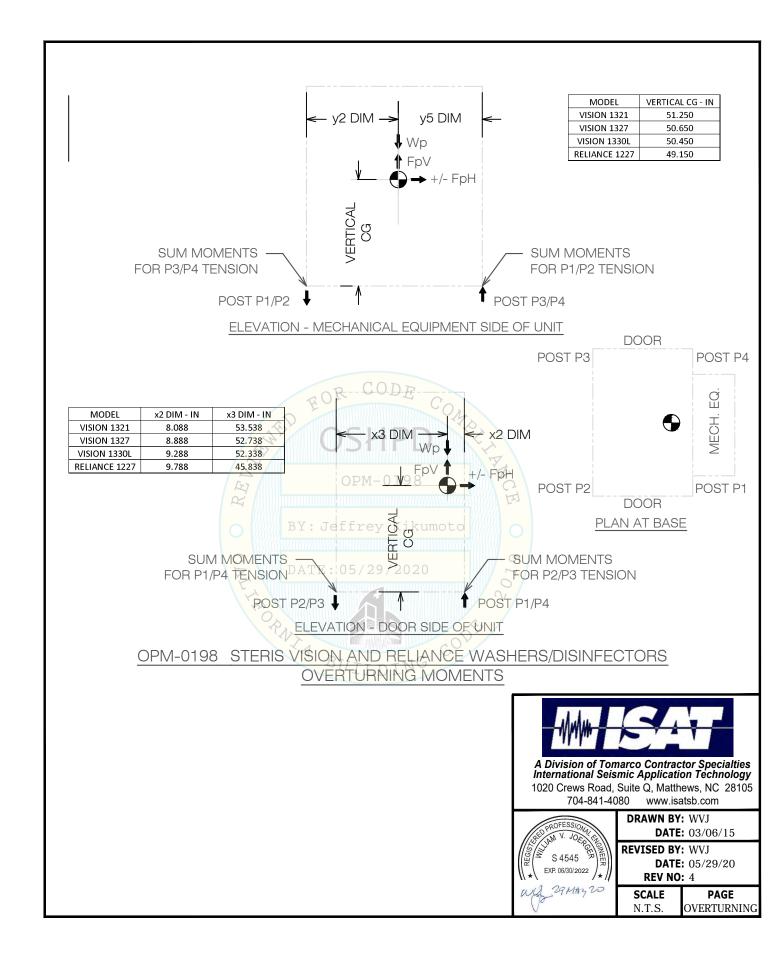
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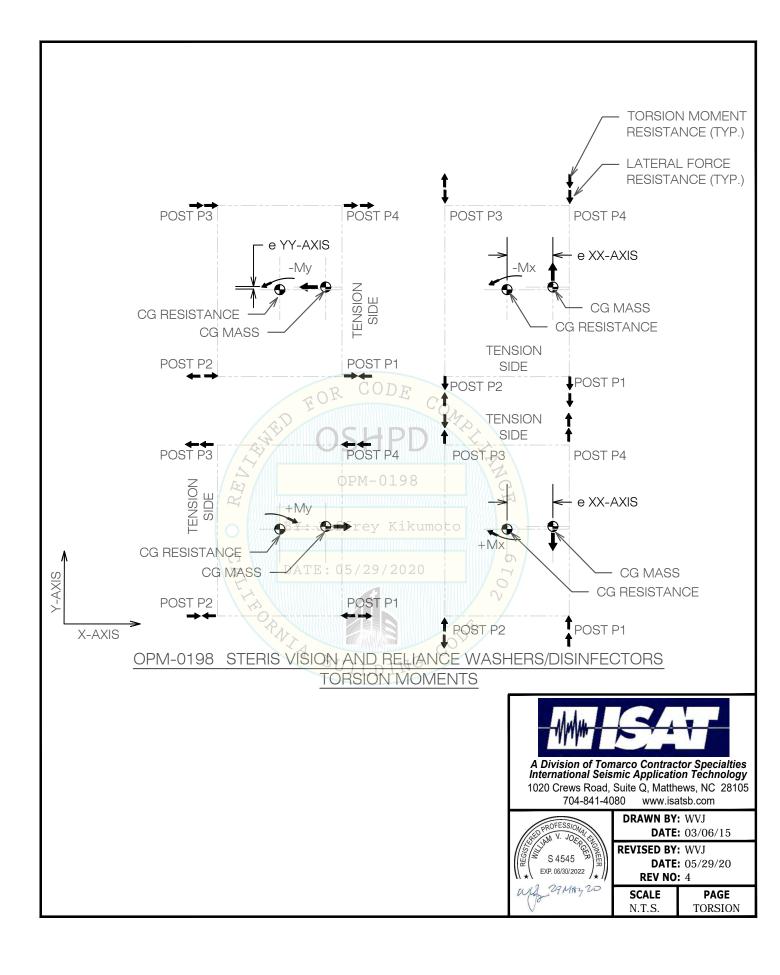












MODEL	GRADE TO MID-HT - LBS	MID-HT TO TOP FLOOR - LBS		
NUMBER	(FpH MAX. = 1.20)	(FpH = 1.80 MAX.)		
VISION 1321	Tu at P1 = 13,785	Tu at P1 = 24116		
	Vu at P1 = 9,544	Vu at P1 = 14315		
	Tu at P2 = 18,797	Tu at P2 = 29128		
	Vu at P2 = 2,093	Vu at P2 = 3,140		
VISION 1327	Tu at P1 = 13,403	Tu at P1 = 21,610		
	Vu at P1 = 9,776	Vu at P1 = 13,686		
	Tu at P2 = 18,462	Tu at P2 = 26,669		
	Vu at P2 = 2,028	Vu at P2 = 2,840		
VISION 1330L	Tu at P1 = 13,349	Tu at P1 = 21,579		
	Vu at P1 = 9,880	Vu at P1 = 13,832		
	Tu at P2 = 18,423	Tu at P2 = 26,653		
	Vu at P2 = 1,992	Vu at P2 = 2,788		
RELIANCE 1227	Tu at P1 = 11,932	Tu at P1 = 18,925		
	Vu at P1 = 7,452	Vu at P1 = 10,433		
	Tu at P2 = 15,638	Tu at P2 = 22,632		
	Vu at P2 = 1,329	Vu at P2 = 1,861		

- 1. Tu AND Vu VALUES INCLUDE AN OVERSTRENGTH FACTOR OF 2.0 IN ACCORDANCE WITH ASCE 7-16 TABLE 13.6-1.
- 2. Tu VALUES HAVE BEEN DIVIDED BY 0.75 TO ACCOUNT FOR THE CONCRETE ANCHORAGE REDUCTION FROM ACL 318-14 SECTION 17.2.3,4.4.
- 3. FORCES AT P3 AND P4 DO NOT CONTROL AND ARE NOT LISTED.

BY: Jeffrey Kibonoto
P3 P4 G
DATE: 05/29/2020 Ti
P2 P1 E
DOOR
PLAN AT BASE

OPM-0198 STERIS VISION AND RELIANCE WASHERS/DISINFECTORS
CONCRETE ATTACHMENT FORCES



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SCALE PAGE N.T.S. FORCES