

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD PREAPPROVAL OFFICE USE ONLY								
OF MANUFACTURER'S CERTIFICATION (OPM) APPLICATION #: OPM-0113-13								
OSHPD Preapproval of Manufacturer's Certification (OPM)								
Type: ☐ New ☐ Renewal ☐ Update to Pre-CBC 2013 OPA Number:								
Manufacturer Information								
Manufacturer: Panduit Corporation								
Manufacturer's Technical Representative: Nathan Gleghorn								
Mailing Address: 412 Rockwell Court, Burr Ridge, Illinois 60527								
Telephone: 708-532-1800 x84249 Email: DNAGL@panduit.com								
Product Information								
Product Name: PanZone Wall Mount Cabinets and Enclosures								
Product Type: Computer and network equipment cabinet/enclosure.								
Product Model Number: PZAEWM3, PZAEWM6E, PZBASE3E, PZC12S, PZC12P, PZC12W								
General Description: Wall mounted cabinets and enclosures for network and computer equipment.								
DATE: 12/17/2014								
Applicant Information								
Applicant Company Name: Panduit Corporation								
Contact Person: Robert Fritz								
Mailing Address: 412 Rockwell Court, Burr Ridge, Illinois 60527								
Telephone:								
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: Robert 2 3 rety Date: 06/04/2014								
Title: Senior Manager Engineering Company Name: Panduit Corporation								

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





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Registered Design Professional Preparing Engineering Recommendations									
Company De	Degenkolb Engineers								
Name: Adrian M. Na	camuli	California License Number:	S 4857						
Mailing Address: _ 1300 Clay Street, 9 th Floor, Oakland, California 94612									
Telephone: 510-250	-1216	Email: nacamuli@degenkolb.con	n						
OSHPD Special Sei	smic Certification Preapproval (OSP)							
(Separate applica	 □ Special Seismic Certification is preapproved under OSP- (Separate application for OSP is required) □ Special Seismic Certification is not preapproved 								
Certification Metho	d(s)								
☐ Testing in accorda☐ Other* (Please	ance with:	FM 1950-10							
supports and attachments bracings, test criteria of Manalysis Experience Data	pan those adopted by the California Buents are not permitted. For distribution ther than those adopted in the CBSC : BY: Jeffrey DATE: 12/2 esting, Analysis, and/or Experience Da	system, interior partition wall, and second wall, and second when approved with Kikumoto	suspended ceiling seismic						
List of Attachments	Supporting the Manufacturer's	Certification							
☐ Test Report ☐ Other(s) (Pleas	☑ Drawings ☑ Calculate Specify):	Manufacturer's Ca	atalog						
OFFICE USE ONLY -	OSHPD APPROVAL VALID FOR CB	C 2013 ONLY							
Signature: Print Name: Title:SSE Condition of Approval		Date:	12/17/2014						

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OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM)

OPM-0113-13

DEGENKOLB ENGINEERS

235 Montgomery Street, Suite 500 San Francisco, CA 94104 415.392.6952 *Phone* 415.981.3157 *Fax* www.degenkolb.com

PANDUIT PANZONE WALL MOUNTED CABINETS & ENCLOSURES

MODELS PZAEWM3, PZAEWM6E, PZBASE3E, PZC12S, PZC12P, PZC12W

I. GENERAL NOTES:

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2013 CALIFORNIA BUILDING CODE (CBC). THE DEMAND (DESIGN) FORCES FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2013.
- 2. PRE-APPROVED DESIGN AND MATERIALS CONFORM WITH THE 2013 EDITION OF THE CALIFORNIA BUILDING CODE. DETAILS WITHIN THIS APPROVAL MAY BE USED ANYWHERE IN THE STATE OF CALIFORNIA WHERE $S_{rs} \leq 2.5$.
- 3. SEISMIC FORCES ON EQUIPMENT DETERMINED PER THE 2013 CBC & ASCE 7-10. ALL LOADS BELOW ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.

ADJUST FOR ALLOWABLE STRESS (ASD) DESIGN USING LOAD COMBINATIONS OF ASCE 7-10 SECTION 12.4.2.3 AS REQUIRED. EQUIPMENT MAY BE MOUNTED TO ANY METAL STUD WALL OR CONCRETE WALL THAT MEETS THE REQUIREMENTS OF THIS DOCUMENT. EQUIPMENT MAY BE INSTALLED ON ANY FLOOR.

- a. $S_{DS} = 2.5$, ap = 2.5, Rp = 6.0, Pp = 1.5, $\Omega \bar{O} = 2.5$, z/h <= 1i. Fp = 1.875Wpii. $\Omega o*Fp$, = 4.69Wp (FOR ANCHORAGE TO CONCRETE ONLY) iii. Fv = 0.5Wp
- 4. THE STRUCTURAL ENGINEER-OF-RECORD (S.E.O.R.) OR PRINCIPAL-IN-CHARGE OF A PROJECT SPECIFIC SITE IS RESPONSIBLE FOR THE FOLLOWING:
 - a. VERIFY THAT THE ANCHORS ARE A MINIMUM 8" FROM ANY OPENINGS OR EDGES.
 - b. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY NEW OR EXISTING ANCHORS.
 - c. DESIGN ANY SUPPLEMENTARY MEMBERS AND THEIR ATTACHMENTS WHICH THE UNIT IS ATTACHED TO. VERIFY THE ADEQUACY OF ANY EXISTING MEMBERS AND THEIR ATTACHMENTS WHICH THE UNIT IS ATTACHED TO FOR THE FORCES EXERTED ON THEM BY THE UNIT IN ADDITION TO ALL OTHER LOADS AND FORCES.
 - d. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2013 CBC AND WITH THE DETAILS SHOWN IN THIS PREAPPROVAL. VERIFY THAT THE EQUIPMENT'S ACTUAL WEIGHT, CG LOCATION, ANCHOR AND METAL SCREW LOCATIONS, ANCHOR AND METAL SCREW DETAILS AND THE MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN IN THIS PREAPPROVAL.
- 5. THE WALL ATTACHMENTS HAVE BEEN EVALUATED FOR THE WORST CASE LOADING PER THE 2013 CBC. STRUCTURAL ENGINEER—OF—RECORD (S.E.O.R.) OR PRINCIPAL—IN—CHARGE OF A SITE SPECIFIC PROJECT SHALL EVALUATE THE ATTACHMENT FOR CONDITIONS THAT VARY FROM THIS PRE—APPROVAL.



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- 6. THIS OPM COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE UNIT TO THE HOSPITAL BUILDING'S STRUCTURE.
- 7. EXPANSION OR WEDGE ANCHORS INTO CONCRETE: HILTI KB-TZ (ICC ESR-1917). INSTALL ANCHORS IN ACCORDANCE WITH THE ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS. TEST AT LEAST 50% OF ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATION. TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO OSHPD. TEST PER THE FOLLOWING METHOD:
 - a. TORQUE WRENCH TEST: TEST ANCHORS TO THE REQUIRED TORQUE LOAD GIVEN IN TABLE BELOW WITHIN THE LIMIT OF ONE-HALF TURN OF THE NUT.

ANCHOR TEST LOAD VALUES NORMAL WEIGHT AND SAND LIGHT WEIGHT CONCRETE							
ANCHOR DIAMETER (IN)	TORQUE LOAD (FT-LBS)	3 - MINIMUM EDGE DIST. REQ.					
3/8"	25 By Jeffre	8"					

- 8. IF ANY ANCHOR FAILS DURING TESTING, UNIT MUST BE MOVED SO THAT NO ANCHOR IS WITHIN 8" OF AN ABANDONED ANCHOR.
- 9. WHEN INSTALLING DRILLED—IN ANCHORS IN EXISTING NON—PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING ANCHORS INTO EXISTING PRESTRESSED CONCRETE (PRE— OR POST—TENSIONED) LOCATE THE PRESTRESSING TENDONS BY A USING NON—DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED IN ANCHOR.
- 10. CONTRACTOR/IOR MUST VERIFY ANCHOR SPACING TO ADJACENT EQUIPMENT ANCHORS IS TO BE GREATER THAN 8".
- 11. ALL MISCELLANEOUS STEEL SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:

LIGHT GAGE STEEL 18 GA. MIN, ASTM A653-09A FY = 33 KSI OR 50 KSI (16 GA AND HEAVIER)

12. SHEET METAL SCREWS MAY HAVE ANY HEAD TYPE (HEX HEAD, PAN HEAD, ETC) AND SHALL COMPLY WITH ICC-ES ESR-1976.



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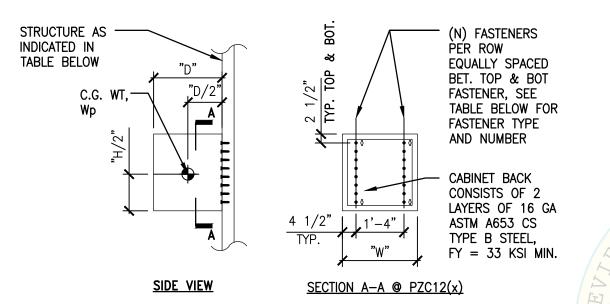
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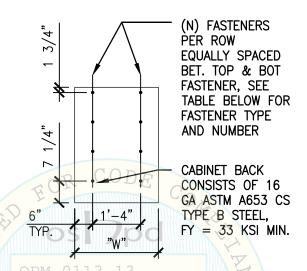
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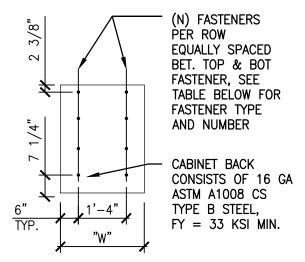
PROFESSIONAL M. ANGLES M.

PANDUIT PANZONE WALL MOUNTED CABINETS & ENCLOSURES

MODELS PZAEWM3, PZAEWM6E, PZBASE3E, PZC12S, PZC12P, PZC12W







SECTION A-A @ PZAEWM3 SECTION A-A @ PZAEWM6E & PZBASE3E

EQUIPMENT ID, DIMS. AND WEIGHT				FASTENER SCHEDULE Y. Kikumoto							FASTE	NER LO	OAD			
EQUIPMENT ID	DEPTH "D" [IN.]	HEIGHT "H" [IN.]	WIDTH "W" [IN.]	WEIGHT "Wp" [LBS.] (EQUIP. WT	STUD OR BACKING	O 18 GA. MIN. STEEL ATTACHMENT TO 18 GA. MIN. STEEL CONCRETE WALL HICK WALL FINISH) ATTACHMENT TO NORMALWEIGHT CONCRETE WALL LIGHTWEIGHT CONCRETE WALL		ER STUD OR BACKING (UP TO 2 LAYERS CONCRETE WALL			DEMANDS		NDS (L			
				+ LOAD RATING)	NO. OF SCREWS (N) PER ROW	TOTAL NO. OF SCREWS	NO. OF SCREWS (N) PER ROW	TOTAL NO. OF SCREWS	NO. OF ANCHORS (N) PER ROW	TOTAL NO. OF ANCHORS	NO. OF ANCHORS (N) PER ROW	TOTAL NO. OF ANCHORS		Vu	(W/Ω	/ Ω ₀)
PZC12S	22.8	25.8	25	340	8	16	8 Bt	ILD 161G	2	4	4	8				
PZC12P	22.8	25.8	25	340	8	16	8	16	2	4	4	8				
PZC12W	22.8	25.8	25	340	8	16	8	16	2	4	4	8	96	95	858	543
PZAEWM3	8.61	38.5	27.92	213.2	3	6	4	8	2	4	2	4				
PZAEWM6E	9.5	36	28	159	7	6	7	6	2	1	2	4]			
PZBASE3E	9.5	36	28	119	·					"		"				

NOTES:

- 1. SUPPORT AND ATTACHMENT DESIGN CONFORMS TO THE 2013 CALIFORNIA BUILDING CODE. S.E.O.R. SHALL PROVIDE STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.
- 2. Fp SEISMIC FORCES PER GENERAL NOTES.
- 3. SEE SHEETS 4 AND 5 FOR ATTACHMENT DETAILS AND WALL STRUCTURE REQUIREMENTS.

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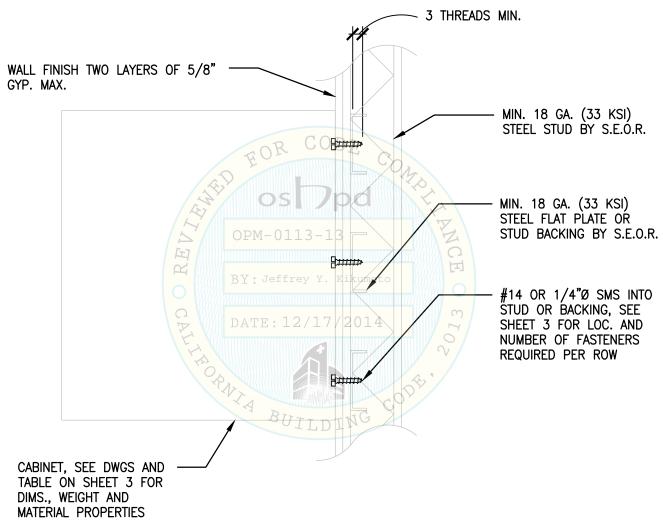
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NOTE:

PRE-DRILL HOLE (MAX 1/16" LARGER THAN SCREW DIA.) IN CABINET BACK FOR INSTALLATION OF SCREWS

ATTACHMENT TO STEEL STUD WALL



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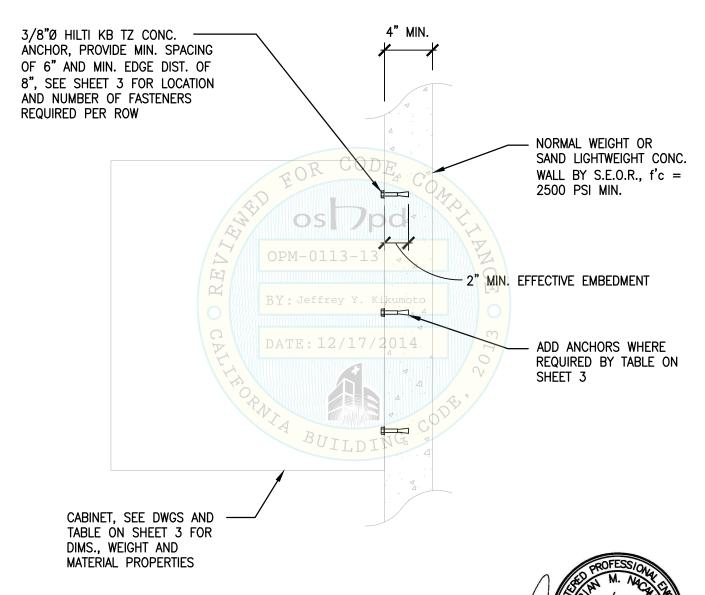
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NOTE:

PRE-DRILL HOLE IN CABINET BACK FOR INSTALLATION OF ANCHORS, HOLE SIZE SHALL BE 7/16"ø

ATTACHMENT TO CONCRETE WALL

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