

APPLICATION FOR OSHPD PREAPPROVAL	OFFICE USE ONLY					
OF MANUFACTURER'S CERTIFICATION (OPM)	APPLICATION #: OPM-0115-13					
OSHPD Preapproval of Manufacturer's Certification (OPM)						
Type: ⊠ New ☐ Renewal ☐ Update to Pre-CBC 2013 C	PA 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: DNAG	_@panduit.com					
Product Information	COM					
os Zod						
Product Name: PanZone Wireless Access Point Enclosures						
Product Type: Equipment enclosure OPM-0115-13						
Product Model Number: PZWC35I, PZWC35IE, PZWC35, PZWC35E	PZWA125, PZWA135, PZWWB					
General Description: Wall and ceiling mounted enclosures for wireles	s access point equipment.					
DATE: 11/07/2014	. m					
Applicant Information	4:					
Applicant illiornation						
Applicant Company Name: Panduit Corporation						
Contact Person: Robert Fritz						
Mailing Address: 412 Rockwell Court, Burr Ridge, Illinois 60527						
Telephone: 708-532-1800 x84346 Email: RLFF	@panduit.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: Robert 2 Fritz	Date: 06/04/2014					
Title: Senior Manager Engineering Company Name: Pand	uit Corporation					
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"	os Dpd					

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY

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OSH-FD-700 (REV 3/13/14)



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professional Preparing Engineering Recommendations						
Company Degenko	olb Engineers					
Name: Adrian M. Nacamu	li California License Number: S 4857					
Mailing Address: 1300 Cla	y Street, 9 th Floor, Oakland, California 94612					
Telephone: 510-250-1216	Email: nacamuli@degenkolb.com					
OSHPD Special Seismic	Certification Preapproval (OSP)					
(Separate application for	cation is preapproved under OSP- or OSP is required) cation is not preapproved					
Certification Method(s)	CODA					
☐ Testing in accordance v☐ Other* (Please Speci						
*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						
Analysis	C DATE: 11/07/2014					
Experience Data Combination of Testing	DATE: 11/07/2014 , Analysis, and/or Experience Data (Please Specify):					
	, Analysis, and/or experience data (Flease Specify):					
List of Attachments Supporting the Manufacturer's Certification						
☐ Test Report ☑ ☐ Other(s) (Please Spe						
OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2013 ONLY						
Signature:	Date: November 07, 2014					
Print Name: Jeffrey Y. Kikumoto						
Title: Senior Structural Engineer						
Condition of Approval (if app	Condition of Approval (if applicable).					

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

OPM 0115 - 13

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

CCESS DOINT ENCLOSURE

PANDUIT PANZONE WIRELESS ACCESS POINT ENCLOSURE

MODELS PZWC35I, PZWC35IE, PZWC35, PZWC35E, PZWA125, PZWA135, PZWWB

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. 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 $S_{DS} \le 2.5$.
- 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 DESIGN (ASD) USING LOAD COMBINATIONS OF ASCE 7-10 12.4.2.3 AS REQUIRED.
- 4. EQUIPMENT MAY BE MOUNTED AT ANY FLOOR, ANY METAL STUD WALL, CONCRETE WALL OR ELEVATED SLAB THAT MEET THE REQUIREMENTS OF THIS DOCUMENT.

ELEVATED SLAB MINIMUM REQUIREMENTS

CONCRETE ON METAL DECK
fc ≥ 3000 PSI
NORMAL OR SAND LIGHT-WEIGHT
CONCRETE
SEE PAGE 4 FOR
MINIMUM STEEL DECK
REQUIREMENTS

THICKNESS ≥ 4"
f'c ≥ 3000 PSI

NORMAL OR SAND LIGHT-WEIGHT CONCRETE

PROVIDE 12" MIN DISTANCE TO ANY OPENINGS, THE
EDGE OF SLAB OR OTHER ATTACHMENTS TO SLAB

CONCRETE SLAB

- 5. THE FACTORS USED TO CALCULATE THE SEISMIC DEMANDS ARE THE FOLLOWING:
- a. S_{DS} = 2.5, ap = 2.5, Rp = 6.0, lp = 1.5, Ω o = 2.5, z/h ≤ 1
- i. Fp = 1.87 Wp
- ii. Ev = 0.50 Wp
- iii. Ωo*Fp, = 4.69 Wp (FOR ANCHORAGE TO CONCRETE ONLY)
- 6. 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 12" 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 TO WHICH THE UNIT IS ATTACHED, TO SUPPORT WEIGHTS AND FORCES SHOWN. VERIFY THE ADEQUACY OF ANY EXISTING MEMBERS AND THEIR ATTACHMENTS FOR THE FORCES EXERTED ON THEM BY THE UNIT IN ADDITION TO ALL OTHER LOADS AND FORCES.
- d. VERIFY THE ADEQUACY OF ANY EXISTING MEMBERS AND THEIR ATTACHMENTS TO WHICH THE UNIT IS ANCHORED TO.
- e. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2013 CBC AND WITH THE DETAILS SHOWN IN THIS PRE-APPROVAL. VERIFY THAT THE EQUIPMENT'S ACTUAL WEIGHT, CG LOCATION, ANCHOR LOCATIONS, DETAILS AND THE MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN IN THIS PRE-APPROVAL.
- 7. THE ANCHORAGE HAS 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.
- 8. THIS OPM COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE UNIT TO THE BUILDING'S STRUCTURE.
 - 9. EXPANSION OR WEDGE ANCHORS INTO CONCRETE: HILTI KB-TZ (ICC ESR-1917). INSTALL ANCHORS IN CCORDANCE WITH THE ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS. TEST AT LEAST 50% OF ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATIONS. 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 ONE OF THE FOLLOWING METHODS:
- DIRECT PULL TENSION TEST. ANCHOR IS ACCEPTABLE IF NO MOVEMENT IS OBSERVED FOR A MINIMUM OF 15 SECONDS AT THE TEST LOAD GIVEN IN TABLE ON THE NEXT PAGE. MOVEMENT MAY BE DETERMINED WHEN THE WASHER UNDER THE NUT BECOMES LOOSE.
- b. TORQUE WRENCH TEST: TEST ANCHORS TO THE REQUIRED TORQUE LOAD GIVEN IN TABLE BELOW WITHIN THE LIMIT OF ONE-HALF TURN OF THE NUT.

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PANDUIT PANZONE WIRELESS ACCESS POINT ENCLOSURE MODELS PZWC35I, PZWC35IE, PZWC35, PZWC35E, PZWA125, PZWA135, PZWWB

No. A857

EXPLOSIVE OF CALIFORNIA

GENERAL NOTES

ANCHOR TEST LOAD VA	ALUES (IN NORMAL OR SA	ND LIGHT WEIGHT CONC	RETE)
ANCHOR DIAMETER (IN)	TENSION LOAD (LBS)	TORQUE LOAD (FT-LB)	MINIMUM EDGE DISTANCE
3/8"	600	25	12"

10. IF ANY ANCHOR FAILS DURING TESTING, UNIT MUST BE MOVED SO THAT NO ANCHOR IS WITHIN 12" OF AN ABANDONED ANCHOR.

- 11. CONTRACTOR MUST VERIFY ANCHOR SPACING TO ADJACENT EQUIPMENT ANCHORS IS TO BE GREATER THAN 12".
- 12. ALL MISCELLANEOUS STEEL SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:

LIGHT GAGE STEEL

CONNECTION

ASTM 568 FY ≥ 33 KSI

WIRE SOFT ANNEALED MILD STEEL WIRE ASTM A641 (CLASS 1 COATING)

WIRE TO SLAB

WIRE TO SLAB

NOTE: CEILING BY OTHERS NOT SHOWN:SEE PAGE 4 OF 4

G ULT 8.5 LBS

IN-CEILING MOUNTED FORCES

WIRELESS ACCESS
POINT BY PANDUIT

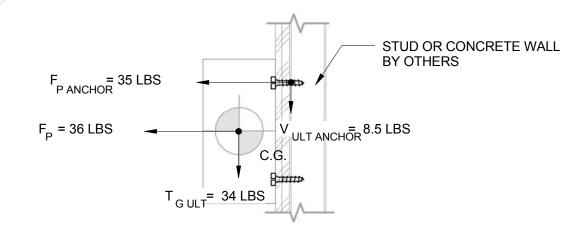
F_P = 36 LBS

IN-CE
ACCE

IN-CEILING WIRELESS
ACCESS POINT BY PANDUIT

- 13. SHEET METAL SCREWS SHALL HAVE A HEX HEAD AND SHALL COMPLY WITH ICC-ES ESR-1976
- 14. THE FOLLOWING TABLE DIAGRAMS SHOW THE MOST CRITICAL FORCES USED FOR THE DESIGN OF SUPPORTS AND ATTACHMENTS.
- 15. THESE FORCES ARE CALCULATED FOR THE MOST CRITICAL OF ALL OF THE COMPONENTS. NONE OF THE FORCES SHOWN BELOW HAVE BEEN AMPLIFIED BY Ω_0 .
- 16. ANCHORS INTO CONCRETE HAVE BEEN DESIGNED TO SUSTAIN Ω_0 AMPLIFIED LOAD COMBINATIONS AS REQUIRED BY ASCE 7-10.
- 17.THE MAXIMUM WEIGHT OF THE ASSEMBLY SHALL BE EQUAL OR LESS THAN 20 LBS
- 18. SUPPORTS AND ATTACHMENTS OF THESE COMPONENTS ARE EXEMPT FROM THE REQUIREMENTS OF ASCE 7-10, CHAPTER 13 PER CBC 1616A.1.18

19. 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 THEM INTO EXISTING PRESTRESSED CONCRETE (PRE- OR POST-TENSIONED) LOCATE THE PRESTRESSED TENDONS BY USING A 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.



WALL MOUNTED FORCES

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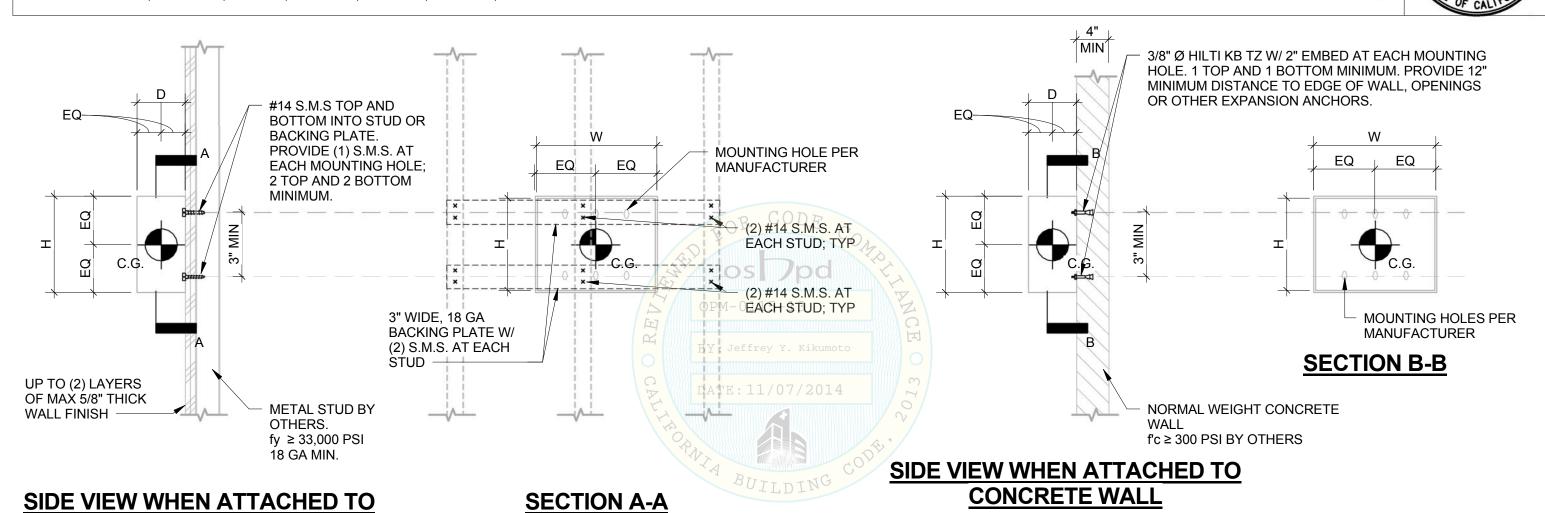
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STUD WALL

NOTES:

- 1. THE MAXIMUM WEIGHT OF THE ASSEMBLY (ENCLOSURE SELF-WEIGHT AND CONTENTS) SHALL BE LESS THAN OR EQUAL TO 20 LBS.
- 2. SUPPORTS AND ATTACHMENTS OF THESE COMPONENTS ARE EXEMPT FROM THE REQUIREMENTS OF ASCE 7-10, CHAPTER 13 PER CBC 1616A.1.18.

PART NUMBER	MOUNT	DEPTH "D"	HEIGHT "H"	WIDTH "W"	SELF-WEIGHT
174KI HOMBEK	TYPE	(IN)	(IN)	(IN)	(LBS)
PZWC35	WALL AND CEILING	3.0	13.7	12.0	4.8
PZWC35E	WALL AND CEILING	3.0	13.0	12.0	4.8
PZWA125	WALL AND CEILING	4.5	12.0	12.0	3.5
PZWA135	WALL AND CEILING	4.5	12.0	12.0	3.5
PZWWB	WALL	4.0	16.0	15.0	7.0
PZWC35I	CEILING	3.0	23.8	23.8	12.2
PZWC35IE	CEILING	3.0	23.8	23.8	12.2

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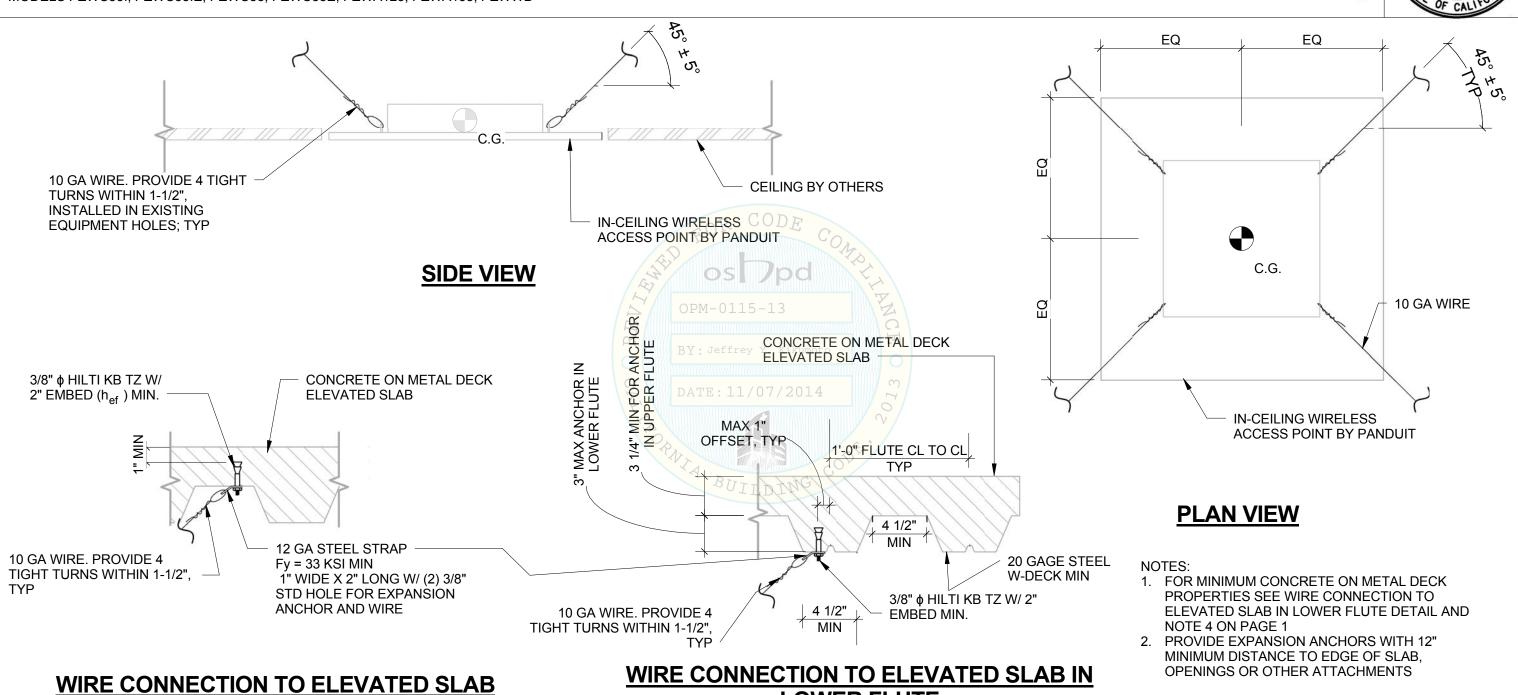
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IN UPPER FLUTE



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LOWER FLUTE