

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD PREAPPROVAL	OFFICE USE ONLY				
OF MANUFACTURER'S CERTIFICATION (OPM)		ODW 0440 40			
	APPLICATION #:	OPM-0119-13			
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: Bruce Appino					
Mailing Address:17301 Ridgeland Ave, Tinley Park, IL_60477					
Telephone: 630-455-6500 ext. 84325	uce.Appino@panduit	com			
Product Information os 7pd					
Product Name: <u>Net-Access N-Type Cabinet</u>	· · · · · · · · · · · · · · · · · · ·				
Product Type: Network equipment cabinet.	CH CH				
Product Model Number: All N8 model numbers as listed on OPM dra					
General Description: Data center network equipment cabinet.	97				
E	\sim				
Applicant Information	DE ?				
Applicant Company Name: Panduit Corporation	0				
Contact Person: Bruce Appino					
Mailing Address: 17301 Ridgeland Ave, Tinley Park, IL 60477					
Telephone: 630-455-6500 ext. 84325 Email: Brue I hereby agree to reimburse the Office of Statewide Health F	uce.Appino@panduit Planning and Dev				
accordance with the California Administrative Code, 2016.					
Signature of Applicant: Buner Opping	D	ate: July 31, 2017			
Title: Engineering Manager Company Name: Pa	nduit Corporation				
	1				
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"	AMAMAAAAA	OSHPD			
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-700 (REV 12/16/15)	Lond h hada Ada	Page 1 of 2			
08/14/2017 OPM-0119-13: Reviewed for Code Compliance	by Jeffrey Kikumoto	Page 1 of 8			



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professional Preparing Engineering Recommendations
Company Name:Degenkolb Engineers
Name: Adrian M. Nacamuli Name: Adrian M. Nacamuli
Mailing Address: 1300 Clay Street, 9th Floor, Oakland, California 94612
Telephone: _510-250-1216 Email: _nacamuli@degenkolb.com
OSHPD Special Seismic Certification Preapproval (OSP)
 Special Seismic Certification is preapproved under OSP- (Separate application for OSP is required) Special Seismic Certification is not preapproved
Certification Method(s)
Testing in accordance with: ICC-ES AC156 FM 1950-16 Other* (Please Specify):
 *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. Analysis DATE: 08/14/2017 Experience Data Combination of Testing, Analysis, and/or Experience Data (Please Specify):
List of Attachments Supporting the Manufacturer's Certification
 □ Test Report
OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2016 & ALL PRE-2016 CODE BASED PROJECTS
Signature: Date: 08-14-2017 Print Name: Jeffrey Kikumoto
Title: SSE
Condition of Approval (if applicable):
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs" STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-700 (REV 12/16/15) Page 2 of 2



OPM - 0119 - 13

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

PANDUIT NET-ACCESS N-TYPE CABINETS

MODELS (* DENOTES COLOR "B" = BLACK, "W" = WHITE) N8222*, N8522*, N8822*, N8229*, N8529*, N8529*, N8229*C, N8529*C, N8229*C, N8222*C, N8522*C, N8222*C, N8222*E, N8522*E, N8522*E, N8529*E, N8529*E, N8529*E, N8222*S, N8522*S, N8522*S, N8522*S, N8529*S, N8529*S, N8229*S, N8229*S, N8222*U, N8522*U, N8522*U, N8522*U, N8522*U, N8522*U, N8522*U, N8529*U, N8529*U, N8522*J, N8522*J, N8522*J, N8529*J, N8529*J, N8529*J, N8522*M, N8522*M, N8522*M, N8529*M, N8529*M N8212B, N8512B, N8812B, N8219B, N8519B, N8819B, N8212BC, N8512BC, N8812BC, N8219BC, N8519BC, N8819BC, N8212BE, N8512BE, N8812BE, N8219BG, N8519BG, N8519BG, N8219BS, N8519BS, N8219BQ, N8219BQ, N8519BQ, N8519BQ, N8519BL, N8519BL

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. PRE-APPROVED DESIGN AND MATERIALS CONFORM WITH THE 2016 EDITION OF THE CALIFORNIA BUILDING CODE. DETAILS WITHIN THIS APPROVAL MAY BE USED ANYWHERE IN THE STATE OF CALIFORNIA WHERE $S_{DS} \le 1.8$

3. SEISMIC FORCES ON EQUIPMENT DETERMINED PER THE 2016 CBC & ASCE 7-10. ALL LOADS BELOW ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.

4. EQUIPMENT MAY BE MOUNTED TO AN ELEVATED SLAB AT ANY FLOOR USING THE THROUGH BOLT CONDITION OR TO A NORMAL WEIGHT CONCRETE SLAB ON GRADE. THE MINIMUM REQUIRED SLAB PROPERTIES ARE AS FOLLOWS:

SLAB ON GRADE	ELEVATED SLAB
THICKNESS ≥ 5" f'c ≥ 3000 PSI NORMAL WEIGHT CONCRETE PROVIDE 12" MIN DISTANCE TO OPENINGS OR THE EDGE OF SLAB MINIMUM SPACING = 12"	CONCRETE ON METAL DECK f'c ≥ 3000 PSI NORMAL OR SAND LIGHT-WEIGHT CONCRETE SEE FIGURE ON PAGE 2 FOR MINIMUM STEEL DECK REQUIREMENTS

5. THE FACTORS USED TO CALCULATE THE SEISMIC DEMANDS ARE THE FOLLOWING:

WHERE z/h = 0

a. S_{DS} = 1.8, ap = 2.5, Rp = 6.0, lp = 1.5, Ω o = 2.5,

WHERE $z/h \le 1$

i. Fp = 0.81 Wp

i. Fp = 1.35 Wp ii. Ev = 0.36 Wp

iii. Ωo Fp, = 3.375 Wp

ii. Ev = 0.36 Wp

iii. Ω o Fp, = 2.025 Wp (FOR ANCHORAGE TO CONCRETE)

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 ATTACHMENTS ARE A MINIMUM 12" FROM ANY OPENINGS OR EDGES.

b. VERIFY THAT THE ATTACHMENTS ARE 12" MINIMUM DISTANCE FROM ANY NEW OR EXISTING ANCHORS.

c. DESIGN ANY SUPPLEMENTARY MEMBERS TO WHICH THE UNIT IS ATTACHED, TO SUPPORT WEIGHTS AND FORCES SHOWN. VERIEY THE ADEQUACY OF ANY EXISTING MEMBERS AND THEIR ATTACHMENTS FOR THE 1 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 2016 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.

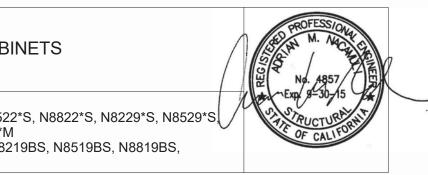
e. THE ATTACHMENTS TO THE ELEVATED AND ON GRADE SLABS HAVE BEEN EVALUATED FOR THE WORST CASE LOADING PER THE 2016 CBC. STRUCTURAL ENGINEER-OF-RECORD (S.E.O.R.) OR PRINCIPAL-IN-CHARGE OF A SITE SPECIFIC PROJECT SHALL EVALUATE THE ATTACHMENT FOR CONDITIONS THAT VARY FROM THIS PRE-APPROVAL.

7. THIS OPM COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE UNIT TO THE STRUCTURE.

8. 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 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:

a. 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 FOLLOWING 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 ON THE FOLLOWING PAGE WITHIN THE LIMIT OF ONE-HALF TURN OF THE NUT.



PAGE1 OF 6



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PANDUIT NET-ACCESS N-TYPE CABINETS

12" MIN

EDGE DIST TYP

MODELS (* DENOTES COLOR "B" = BLACK, "W" = WHITE)

N8222*, N8522*, N8822*, N8229*, N8529*, N8529*, N8229*C, N8529*C, N8529*C, N8222*C, N8522*C, N8522*C, N8222*E, N8522*E, N8522*E, N8529*E, N8529*E, N8529*E, N8522*S, N8522*S, N8522*S, N8529*S, N8529*S, N8829*S, N8222*U, N8522*U, N8522*U, N8522*U, N8529*U, N8529*U, N8529*U, N8522*J, N8522*J, N8522*J, N8529*J, N8529*J, N8529*J, N8522*M, N8522*M, N8522*M, N8529*M, N8529*M, N8529*M N8212B, N8512B, N8512B, N8512B, N8512B, N8519B, N8519B, N8512BC, N8512BC, N8519BC, N8519BC, N8519BC, N8512BE, N8512BE, N8512BE, N8512BE, N8519BG, N8519BG, N8519BS, N8519BS, N8519BS, N8519BQ, N8519BQ, N8519BQ, N8519BL, N8519BL, N8519BL

GENERAL NOTES

ANCHOR TEST LOAD VALUES										
ANCHOR DIAMETER (IN)	EMBED hef (IN)	TENSION LOAD (LBS)	TORQUE LOAD (FT-LB)	CONCRETE TYPE	MINIMUM EDGE DISTANCE	MINIMUM SPACING				
5/8"	3-1/8"	3,035	60	NORMAL WEIGHT	26"	8.78"				
3/8"	2"	SEE NOTE a	25	SAND LIGHT-WEIGHT	12"	11"				

a. TEST 3/8" EXPANSION ANCHORS USING THE TORQUE WRENCH TEST METHOD PER MANUFACTURER'S RECOMMENDATION AND AS DESCRIBED IN PAGE 1 OF 6

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

10. CONTRACTOR OR SEOR MUST VERIFY ANCHOR SPACING TO ADJACENT EQUIPMENT ANCHORS IS TO BE GREATER THAN 12".

11. ALL MISCELLANEOUS STEEL SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:

THROUGH BOLTS	A307 GR. A.
STEEL ANGLES	A36

12. THE TABLE ON PAGE 3 SHOWS THE MOST CRITICAL FORCES CALCULATED FOR THE SUPPORT AND ATTACHMENT DESIGN.

13. FOR THE SUPPORT AND ATTACHMENT DESIGN, THE MOST CRITICAL LOAD COMBINATION IS (0.9 - 0.2Sds) D + E.

14. WHEN z / h = 0, THE DESIGN FORCES FOR THE EXPANSION ANCHORS INTO CONCRETE WERE SCALED UP BY Ω o AS REQUIRED BY ASCE 7-10, SUPPLEMENT NO. 1, TABLE 13.6-1.

15. Tult + q IS THE FORCE DEMAND IN THE ANCHOR INCLUDING EFFECTS OF PRYING

16. THE TABLE ON PAGE 4 SHOWS THE PROPERTIES OF THE DIFFERENT MODELS CONSIDERED IN THIS SUBMITTAL.

17. WHERE q = 0 AS INDICATED ON THE TABLE OF PAGE 3, EITHER THE SUPPORT AND ATTACHMENT MECHANISM IS GOVERNED BY THE CAPACITY OF THE BASE BRACKET OR THE FITTING HAS SUFFICIENT STIFFNESS AND STRENGTH TO DEVELOP THE FULL BOLT AVAILABLE TENSILE STRENGTH AND ELIMINATE PRYING ACTION AS DESCRIBED IN THE FOURTEENTH EDITION OF THE AISC STEEL CONSTRUCTION MANUAL

18. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS PREAPPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM SHOWN.

19. EQUIPMENT MANUFACTURER MUST DESIGN UNIT TO MAKE C.G. EQUAL OR LESS THAN THE C.G. HEIGHT DIMENSION SHOWN ON THE TABLE ON PGE 4 OF 6

20. 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.

NOTES

MAX

1" MAX OFFSET

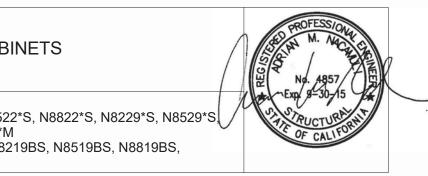
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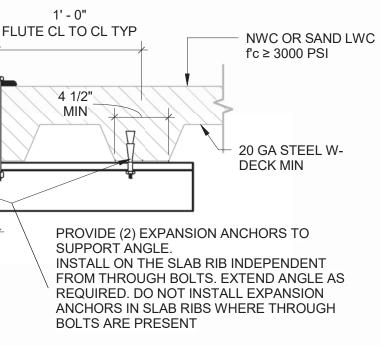
10

1. PROVIDE 12" MINIMUM DISTANCE TO EDGE OF SLAB, OPENINGS OR OTHER ATTACHMENTS 2. REFER TO NOTES ON SHEET 6 OF 6 FOR ADDITIONAL INFORMATION

8.78″

MINIMUM STEEL DECK REQUIREMENTS





PAGE 2 OF 6



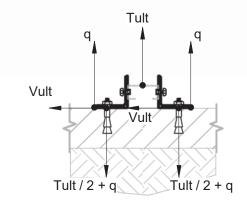
OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) **OPM - 0119 - 13**

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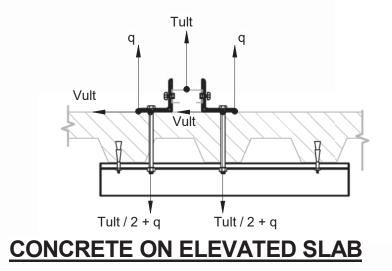
PANDUIT NET-ACCESS N-TYPE CABINETS

MODELS (* DENOTES COLOR "B" = BLACK, "W" = WHITE)

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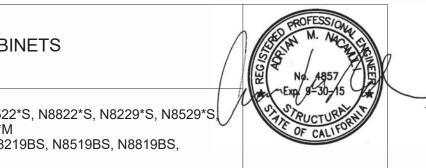
CABINET ON SLAB ON GRADE



			z / h = 0						z / h ≤ 1					
	PART NUMBER	LOAD RATING LBS	Wp MAX LBS	Tult ⁴ LBS	q LBS	Tult + q ⁴ LBS	Vult ⁴ LBS	LOAD RATING LBS	Wp MAX LBS	Tult ⁴ LBS	q LBS	Tult + q ⁴ LBS	Vult ⁴ LBS	
800 X 1070 FAMILY	N821XX	E1730	CODE 2,050	1,900	0	1,900	208	1,135	1,455	2,000	0	2,000	246	
	N851XX	1,550	1,885	1,900	0	1,900	190	1,025	1,360	2,000	0	2,000	230	
	N881XX 01	PM,4951	9 1,765	1,900	NOE	1,900	180	965	1,265	2,000	0	2,000	213	
800 X 1200 FAMILY	N <mark>822XX</mark> BY	:1 ,755 11e	7 2,130 Ki	cu 1,900	0	1,900	216	1,155	1,533	2,000	0	2,000	260	
	N852XX	1,590 TE:08	/ 1,990 / 1,4/2.0	1,900	09	1,900	201	1,030	1,430	2,000	0	2,000	240	
	N882XX	1,450	1,865	1,900	0	1,900	190	915	1,330	2,000	0	2,000	225	

NOTES:

- 1. WHEN z = 0, THE DESIGN IS GOVERNED BY THE CAPACITY OF THE EXPANSION ANCHORS INTO CONCRETE.
- 2. WHEN z ≤ 1, THE DESIGN IS GOVERNED BY THE CAPACITY OF THE BOLTS CONNECTING THE ANGLES TO THE CROSS BRACE
- 3. THE LOAD RATING IS IN ADDITION OF THE SELF-WEIGHT SHOWN ON PAGE 4; Wp = LOAD RATING + SELF-WEIGHT
- 4. Tult, q AND Vult SHOWN ON THE TABLE ARE THE DESIGN FORCES AT STRENGTH LEVEL AND HAVE NOT BEEN AMPLIFIED BY Ω0. FOR ANCHORAGE TO CONCRETE FORCES ARE REQUIRED TO BE AMPLIFIED BY Ωo.
- PER FORCE DIAGRAM ON THIS SHEET, NOTE THAT Tult IS THE TENSION FORCE APPLIED TO TWO ANCHORS AND Vult IS THE SHEAR FORCE APPLIED 5. TO EACH ANCHOR.
- 6. PROVIDE A STEEL PLATE ATTACHED TO THE CABINET THAT CLEARLY SHOWS THE DESIGN LOAD RATING THAT THE SUPPORT AND ATTACHMENT IS DESIGNED TO.
- 7. SEE NOTE 5 ON PAGE 4 OF 6



PAGE 3 OF 6



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

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OPM - 0119 - 13

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	PART NUMBER	DEPTH "D"	WIDTH "W"	Ly MIN	HEIGHT "H"	C.G. HEIGHT "H"	MAX. SELF-WEIGHT		.EVELIN
		(IN)	(IN)	(IN)	(IN)	(IN)	(LBS)	F	
	N8212B, N8219B, N8212BC, N8219BC, N8212BE, N8219BG, N8219BS, N8219BQ, N8219BL	38.9	20.5	30.9	78.8	39.4	320 F O R	CODE	
800 X 1070 FAMILY	N8512B, N8519B, N8512BC, N8519BC, N8512BE, N8519BG, N8519BS, N8519BQ, N8519BL	38.9	20.5	30.9	84.0	42.0	335 S	Tpd 44	ğ
	N8812B,N8819B, N8812BC, N8819BC, N8812BE, N8819BG,N8819BS, N8819BQ, N8819BL	38.9	20.5	30.9	89.3	44.65 24	OPM-01	19- F 13	
	N8222*, N8229*, N8229*C, N8222*C, N8222*E, N8229*E, N8222*S, N8229*S,N8222*U, N8229*U, N8222*J, N8229*J, N8222*M, N8229*M	47.1	20.5	39.1	78.8	0 39.4	BY: Jeff: 375 DATE: 08	8/14/2017	EQ
800 X 1200	N8522*, N8529*, N8529*C, N8522*C, N8522*E, N8529*E, N8522*S, N8529*S, N8522*U, N8529*U, N8522*J, N8529*J, N8522*M, N8529*M	47.1	20.5	39.1	84.0	42.0	RN 400 BII		_
FAMILY	N8822*, N8829*, N8829*C, N8822*C, N8822*E, N8829*E, N8822*S, N8829*S, N8822*U, N8829*U, N8822*J, N8829*J, N8822*M, N8829*M	47.1	20.5	39.1	89.3	44.65	415	CABINET ISOMETRIC VIEW	

NOTES

1. * DENOTES COLOR "B" = BLACK, "W" = WHITE

2. Ly DENOTES THE DISTANCE FROM THE LEVELING LEG TO THE ANCHOR BOLT CENTER OF GRAVITY

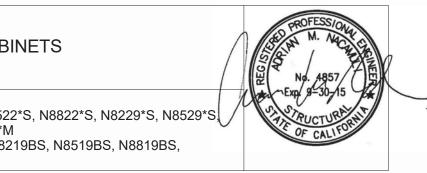
3. W AND D REPRESENT THE WIDTH AND DEPTH DISTANCE BETWEEN LEVELING LEGS

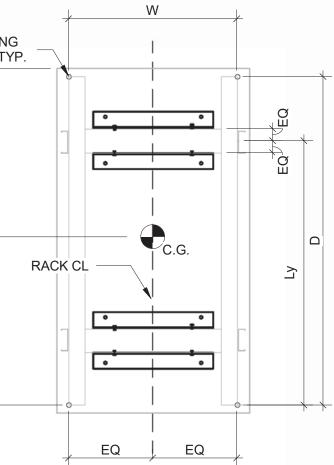
4. H IS THE HEIGHT FROM THE TOP OF THE STRUCTURAL SLAB TO THE TOP OF THE CABINET. IT CAN VARY BY ± 1" DUE TO ADJUSTMENTS TO LEVELING LEGS.

5. BOLTS THROUGH CONCRETE ON METAL DECK

A. BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUTS AFTER THE SNUG TIGHT (THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQUIRED TO BRING THE CONNECTED PLIES INTO FIRM CONTACT) CONDITION IS ACHIEVED.

B. THROUGH BOLTS IN CONCRETE SHALL RECEIVE SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH REQUIREMENTS FOR POST-INSTALLED ANCHORS.





CABINET BASE FRAME PLAN

PAGE 4 OF 6

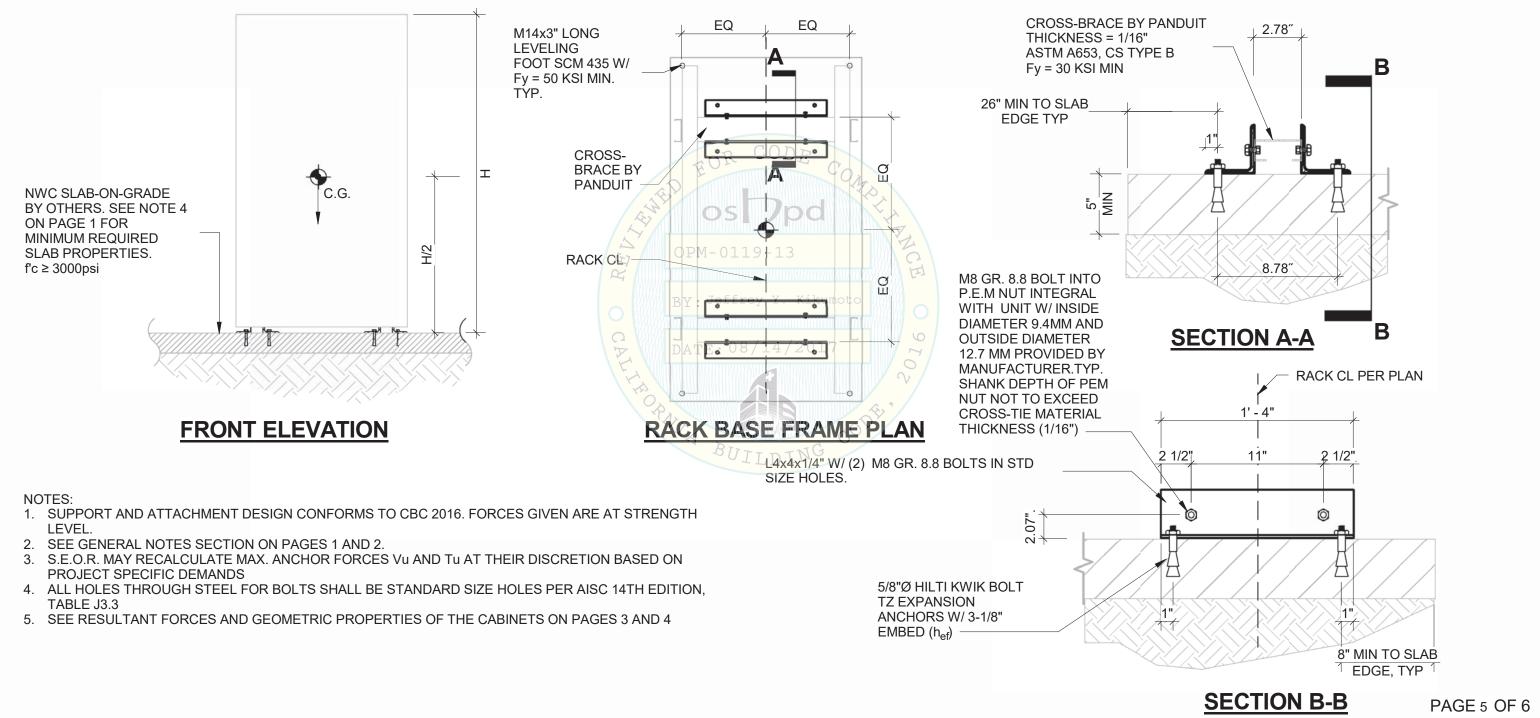


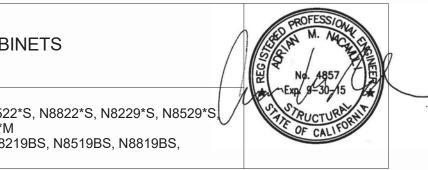
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PANDUIT NET-ACCESS N-TYPE CABINETS

MODELS (* DENOTES COLOR "B" = BLACK, "W" = WHITE)

N8222*, N8522*, N8822*, N8829*, N8529*, N8529*, N8229*C, N8529*C, N8529*C, N8522*C, N8522*C, N8522*C, N8222*E, N8522*E, N8522*E, N8522*E, N8529*E, N8529*E, N8529*E, N8522*S, N8522*S, N8522*S, N8529*S, N8829*S, N8229*S, N8222*U, N8522*U, N8522*U, N8529*U, N8529*U, N8529*U, N8522*J, N8522*J, N8522*J, N8529*J, N8529*J, N8529*J, N8522*M, N8522*M, N8522*M, N8529*M, N8529*M, N8529*M N8212B, N8512B, N8512B, N8512B, N8512B, N8519B, N8519B, N8512BC, N8512BC, N8519BC, N8519BC, N8519BC, N8519BC, N8512BE, N8512BE, N8512BE, N8512BE, N8519BG, N8519BG, N8519BS, N8519BS, N8519BS, N8519BQ, N8519BQ, N8519BQ, N8519BL, N8519BL, N8519BL







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PANDUIT NET-ACCESS N-TYPE CABINETS

OPM - 0119 - 13

MODELS (* DENOTES COLOR "B" = BLACK, "W" = WHITE)

N8222*, N8522*, N8822*, N8229*, N8529*, N8529*, N8529*C, N8529*C, N8529*C, N8522*C, N8522*C, N8522*C, N8522*E, N8522*E, N8522*E, N8529*E, N8529*E, N8529*E, N8529*E, N8522*S, N8522*S, N8522*S, N8522*S, N8529*S, N8829*S, N8222*U, N8522*U, N8822*U, N8229*U, N8529*U, N8529*U, N8222*J, N8522*J, N8522*J, N8529*J, N8529*J, N8529*J, N8522*M, N8522*M, N8522*M, N8529*M, N8529*M N8212B, N8512B, N8512B, N8519B, N8519B, N8519B, N8212BC, N8512BC, N8512BC, N8519BC, N8519BC, N8519BC, N8512BE, N8512BE, N8512BE, N8512BE, N8519BG, N8519BG, N8519BS, N8219BQ, N8519BQ, N8819BQ, N8219BL, N8519BL, N8819BL

