

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD PREAPPROVAL	OFFICE USE ONLY					
OF MANUFACTURER'S CERTIFICATION (OPM)	APPLICATION #: OPM-0200-13					
OSHPD Preapproval of Manufacturer's Certification (OPM)						
Type: 🛛 New 🗌 Renewal 🗌 Update to Pre-CBC 2013 C	PA Number:					
Manufacturer Information						
Manufacturer: Pentair Equipment Protection						
Manufacturer's Technical Representative: <u>Nate Westby</u>						
Mailing Address: 2100 Hoffman Way, Anoka, MN. 55303						
Telephone: (763) 422-2660 Email: DNate.	westby@pentair.com					
Product Information	OMA					
Product Name: Cabinet Rack	F_1					
Product Type: Communication Equipment OPM-0200-13	E					
Product Model Number: ENC2178S, ENC2189S, ENC21710S, ENC2	1712S					
Hoffman Pentair Cabinet Closed frame LAN rac	k is designed to hold electronic equipment in					
General Description: communication data centers and telecommunication rooms.						
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Applicant Information						
	CODI					
Applicant Company Name: EASE Co.	/					
Contact Person: Jonathan Roberson, S.E.						
Mailing Address:5877 Pine Ave. Suite 210, Chino Hills, CA. 91709						
Telephone: (909) 606-7622 Email: J.Rob	erson@EASECo.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:	Date: 3/12/15					
Title: Principal Engineer Company Name: EASE	 Co.					
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"	os Dpd					
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY						
OSH-FD-700 (REV 1/24/13)	Page 1 of 2					



## OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professional Preparing Engineering Recommendations
Company Name: EASE Co.
Name: Jonathan Roberson, S.E. California License Number: S4197
Mailing Address: _ 5877 Pine Ave. Suite 210, Chino Hills, CA. 91709
Telephone: 909-606-7667 Email: J.Roberson@EASECo.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 1950-10       Other*     (Please Specify):
*Use of test 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.
List of Attachments Supporting the Manufacturer's Certification
Test Report       Image: Drawings       Image: Calculations       Image: Manufacturer's Catalog         Other(s)       (Please Specify):       Image: Calculations       Image: Manufacturer's Catalog
OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2013 ONLY
Signature:
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 1/24/13) Page 2 of 2

		EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING Office of Statewide Health Planning and Development PREAPPROVAL OF MANUFACTURER'S CERTIFICATION ODM_0200_12	5877 Pine Ave, Ste. 210 Chino Hills, CA. 91709 Phn: (909) 606-7622							
	<b>OPM-0200-13</b> THIS PREAPPROVAL CONFORMS TO THE 2013 CALIFORNIA BUILDING CODE									
MA	MANUFACTURER: PENTAIR Sheet: 1 of 8									
EQ	UIPI	MENT NAME: CABINET	Date: 7/7/15							
GE	NE	RAL NOTES								
1.		IS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2013 CBC. THE ESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2013 CBC	DEMANDS							
2.		IS DOCUMENT MAY ONLY BE USED WITH THE EXPRESS WRITTEN CONSENT OF THE MANUFACTURER LIS ECIFIC PROJECT SITE AND INSTALLATION LOCATION. THIS DOCUMENT IS INVALID WITHOUT SUCH CONS								
3.		IS PREAPPROVAL CONFORMS TO THE 2013 CALIFORNIA BUILDING CODE WHERE SDS IS NOT GREATER T E DETAILS FOR APPLICABILITY.	HAN 1.35, 1.90 & 2.20:							
4.	FO	RCES PER ASCE 7-10 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3,								
	WH	HERE SDS = 1.35, $a_p = 2.5$ , $I_p = 1.5$ , $R_p = 6.0$ , z/h = 0 AT CONCRETE SLAB. SEE FOLLOWING SHEETS FOR Ω ₀								
	WH	HERE SDS = 1.90, $a_p = 2.5$ , $I_p = 1.5$ , $R_p = 6.0$ , z/h = 0 AT CONCRETE SLAB. SEE FOLLOWING SHEETS FOR Ω ₀								
	WH	IERE SDS = 2.20, ap = 2.5, lp = 1.5, Rp = 6.0, z/h ≤ 1 AT CONCRETE SLAB ON METAL DECK. SEE FOLLOWING	SHEETS FOR Ω.							
5.	TH	IS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRL	JCTURE.							
6.	ALI	L DESIGN FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STREI	NGTH DESIGN.							
7.		NCRETE SLAB ON METAL DECK DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION IN THE BUILDI	· _ /							
8.	CO	NCRETE SLAB ON GRADE DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION BELOW GRADE. (i.e.	z/h = 0)							
9.	RE	SPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD OF THE BUILDING								
	A.	PROVIDE SUPPORTING STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN IN ADDITION TO ALI	L OTHER LOADS.							
	B.	VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2013 CBC AND WITH THE DETAILS, MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION PREAPPROVAL DOCUMENTS.	SHOWN ON THE							
	C.	VERIFY THAT PROJECT SPECIFIC VALUES OF SDS & z/h RESULT IN SEISMIC FORCES (Eh, Ev ) THAT DO N EXCEED THE VALUES ON THE DETAILS.	ЮТ							
	D.	VERIFY THAT THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ANCHORED MEETS THE REQUIREMENTS OF THE APPLICABLE ICC ESR.								
	E.	VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPENINGS (SEE TYPICAL DETAIL ON SHEET 2).								
	F.	VERIFY THAT ALL NEW OR EXISTING ANCHORS ARE AN ADEQUATE DISTANCE FROM THE UNIT ATTACHMENTS AND CHECK FOR INTERACTION WHERE OTHER ANCHORS ARE WITHIN 18" OR 6hef FROM THIS UNIT'S ANCHORS.	No. 4197							
	G.	EQUIPMENT MANUFACTURER MUST DESIGN UNIT TO MAKE C.G. <= THAN THE C.G. HEIGHT DIMENSION SHOWN ON DRAWINGS.	EXP. 6-30-2016							
	H.	ALL HOLES THRU STEEL FOR BOLTS SHALL BE STANDARD HOLE SIZE PER ANSI/AISC 360-10 TABLE J3.3.	PUCTURE OF CALIFORN							

EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING											
	IJ,		F	PENTAIR	I			DES.	J. ROBE	RSON	
							јов	NO. 11-1	461	2	
	CABINET								= 7/7/	of 8 sheets	
10. EXPANSION ANCHORS:											
A. ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.											
	Anchor Diameter	Concrete Type	Min. f'c (psi)	Anchor Type	ICC Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Thickness	Torque Test	Direct Tension
	3/8"	Sand Light Weight	3000	Hilti Kwik Bolt TZ	ESR-1917	2"	N/A	N/A	See Sheet 8 of 8	25 FT-LB	1186 lb
	5/8"	Normal Weight	3000	Hilti Kwik Bolt TZ	ESR-1917	3-1/8"	12"	24"	5"	60 FT-LB	3135 lb
	5/8"	Normal Weight	3000	Hilti Kwik Bolt TZ	ESR-1917	4"	12"	24"	6"	60 FT-LB	4540 lb
<ul> <li>B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 24" AWAY MINIMUM (i.e CORNER). SEE ADJACENT DETAIL FOR ADDITIONAL MINIMUM ALLOWABLE CONCRETE EDGE DISTANCES.</li> <li>C. TESTING OF EXPANSION ANCHORS PER 2013 CBC, 1913A.7: TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO OSHPD <ul> <li>(i) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, DIRECT PULL TENSION TEST OR TORQUE TEST AT LEAST 50% OF THE ANCHORS.</li> <li>(ii) ACCEPTANCE CRITERIA:</li> <li>DIRECT TENSION TEST: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE TEST LOAD. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER BECOMES LOOSE.</li> <li>TORQUE TEST: THE APPLICABLE TORQUE MUST BE ACHIEVED WITHIN THE FOLLOWING LIMITS: WEDGE TYPE : 1/2 TURN OF THE NUT</li> <li>(iii) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.</li> </ul></li></ul>								(MIN)			
				I METAL DECK							
A	tight Requii	(THE SNUG- RED TO BRII	TIGHT C NG THE (	) by 3/4 turn of Ondition IS def Connected Plie Inless otherw	INED AS TH	E TIGHTN M CONTA	NESS	i	$\geq$	Anathe	
B				ALL BE 1/16" LAR I/16) FOR CONCR		BOLT SIZ	E				HAN ROP TE
с	AND TE TENSIO	ESTING (THF ON DO NOT I	ROUGH E REQUIRE	RETE SHALL REC OLTS WITH STEE TENSION TESTII -INSTALLED ANC	EL TO STEEL NG) IN ACCO		CTION IN				No. 4197 XP. 6-30-2016 7/7/15 PUCIVENT OF CALIFORM











