

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC	OFFICE USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0699
OSHPD Special Seismic Certification Preapproval (OSP)	
Type: X New Renewal	
Manufacturer Information	
Manufacturer: Stanford Health Care and School of Medicine	
Manufacturer's Technical Representative: David Stoltz	
Mailing Address: 1830 Embarcadero Rd., Palo Alto, CA 94303	
Telephone: (408) 500-8284 Email: dstoltz@stanford	healthcare.org
FORCODECON	
Product Information	1p,
Product Name: Internal Communication Servers and Routers	T.
Product Type: Wireless Communication Systems	- CF
Product Model Number: See Certified Product List	
General Description: Servers, routers, UPS, PDU, switches J Pilan	d
Mounting Description: Rigid floor mounted within racks,	
Tested Seismic Enhancements: None DATE: 08/04/2021	
C .	61/6
Applicant Information	22
Applicant Company Name: Universal Structural Engineers, LLC	one
Contact Person: Kevin OKeefe	
Mailing Address: 1660 S. AmphItett Blvd., Suite 335, San Mateo, CA 94402	
Telephone: (650) 312-9233 Email: ktokeefe@universite	salstructuralengineers.com
Titles, Otrustural Engineer	

Title: Structural Engineer



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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: UNIVERSAL STRUCTURAL ENGINEERS
Name: Kevin O'Keefe California License Number: S4192
Mailing Address: 1660 Amphlett Blvd., Suite 335, San Mateo, CA 94402
Telephone: (650) 312-9233 Email: ktokeefe@UniversalStructuralEnginees.com
Certification Method
GR-63-Core X ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3
Other (Please Specify):
FOR CODE CO.
Testing Laboratory
Company Name: NATIONAL TECHNICAL SYSTEMS (NTS)
Contact Person: Rajnesh Nand
Mailing Address: 38995 Cherry Street, Newark CA 94560
Telephone: (510) 578-3500 Email: Rajnesh.Nand@nts.com
DATE: 08/04/2021
ST ST ST
FILLORNIA BUILDING CODE. 200
BUILDING

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





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Seismic Parameters					
Design Basis of Equipment or Component	s (Fp/Wp) = 1.31				
SDS (Design spectral response acceleration at short period, g) = 1.75					
ap (Amplification factor) =	2.5				
R_P (Response modification factor) =	6				
Ω_0 (System overstrength factor) =	2.0				
lp (Importance factor) =	1.5				
z/h (Height ratio factor) =	1				
Natural frequencies (Hz) =	See Attachment				
Overall dimensions and weight =	See Attachment CODE COMB	12			
OSHPD Approval (For Office Use Onl	,	5/			
Date: 8/4/2021	OSP-0699	m			
Name: Timothy Piland	av Timethy I Diland	Title:	Senior Structural Engineer		
Special Seismic Certification Valid Up to: S	SDS (g) = 1.75	z/h =	1		
Condition of Approval (if applicable):	DATE: 08/04/2021				
Ç	PELEOPNIA BUILDING CODE	6102			

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





STANFORD OSP ATTACHMENT 1

				ist in UUT1		
	OSHPD Special Sei	smic Certi	fication Sur	mmary of Ce	ertified Units	
Manufacturer: Vari	,					
	ipment (Equipment Configurat					
	n Tested: Mounted in Chatswo					
Manufacturer	Model #	Height	Width	Depth	Equipment	Unit
		(in.)	(in.)	(in.)	Weight (lbs.)	
Cisco	C9300-48U w/ PWR-C1-1100WAC	1.73	17.5	16.1	20	UUT1
Cisco	C9200L-48P-4X w/ PWR-C5-1KWAC	1.73	017.5	11.3	14	UUT1
Cisco	C2960-X (WS-C2960X- 24PS-L)	1.73	17.5	130	14	UUT1
APC	PDU AP7800B	10.2	17.3	28.4	4	UUT1
Eaton	PDU ePBZ79	1.7	17	5.1	4	UUT1
Cisco	C9410R chassis Access	005			C	
	Switch(Copper) w/	OSF	P-0699	////		
	C9400-PWR-3200AC,	22.61	17.3	16.3	<mark>17</mark> 8	UUT1
	C9400-SUP-1,	Timotk	nv J Pi	land		
		Timoth	IJ J FI	and		
Eaton	9PX UPS 6kW					
	(9PX6KTF5) w/	FF10.23/	1417.312	28.4	204	UUT1
	RK2PC, 9PXTFMR5, A 9PX6K					
	9FAOK)			/	5	
		D. 1.C				
			nter of Grav			
Center of Gravit	y for the whole rack including				ai wire manager =	32.2 inches from the
		bollom	of the rack	30		
			ILUNA			



				ist in UUT2		
	OSHPD Special Sei	smic Certi	fication Sur	nmary of Ce	ertified Units	
Manufacturer: Varie						
	pment (Equipment Configurat					
0	Tested: Mounted in B-LINE				1 1	
Manufacturer	Model #	Height (in.)	Width (in.)	Depth (in.)	Equipment Weight (lbs.)	Unit
Philips HP Engage Flex Pro CPU	866424 By HP	3.94	13.27	15.12	14	UUT2
Commscope	PSU-SR-AC 7693531-00 w/ 7663610-00, 7663468- 00	1.8		19.5	25	UUT2
Commscope	ION-E WCS4 (CAN) with mount rack 7635442-01 w/ 7642123-00,7680813, 7688866-00,7688867-00, 7642125-00	ÔS		17.7	38	UUT2
Commscope	PSU-SR-AC 7693531-00 w/ 7663610- 00, 7663468-00	OSF 1.8	2-0699 19	19.5	25	UUT2
Commscope	ION-E WCS2 (TEN)BY: 7635443-01 w/ 7642123-00,7680813-00, 7633228-01 DA 7688866-00, 7688867-00, 7688868-00	Timoth re: ³ 58/(ny J Pi 04/ 1 202	and 1 ^{17.7}	25	UUT2
Hall Research	KVMC-UH-8-UHD	1.65	17.64	22.84	27	UUT2
Philips	865346	1.75	17.5	8.1	5	UUT2
Philips	866212	/ 1.73	19	8.7	5	UUT2
Hall Research	ULTRA-4K-S	1.66 U	11.23	6.09	3	UUT2
Vertiv Geist	PDU-HORIZONTAL UI30024	1.72	17	9	12	UUT2
EATON UPS, L21-30P INPUT, (1) L21-30R OUTPUT Blade 8Kw	ZC0811108100000	10.3	17.4	26	312	UUT2
		Rack Cer	nter of Grav	ity		
Center of Gravity	for the whole rack including	equipment		nd the vertic	al wire manager = 2	34.6 inches from the

bottom of the rack.

1660 S. Amphlett Blvd., Suite 335 San Mateo, CA 94402 Phone 650-312-9233 ~ Fax 650-312-9229 e-mail: <u>ktokeefe@UniversalStructuralEngineers.com</u>



STANFORD OSP ATTACHMENT 2: UNIT UNDER TEST SUMMARIES Table 2a-UUT1 Product Summary-2 Post Rack

OSHPD Speci	al Seisn			Under Test Su	· · · · · · · · · · · · · · · · · · ·
- F	UUT		mponent		1 Marshall
Rack:	1		atsworth 2 Post	(13855-703)	
Equipment:			Table 2a	,	
Unit Function	Netw		quipment		
Unit Properties		6	<u> </u>		
Equipment			Dimensions (in))	
Weight (lbs)	De	pth	Width	Height	
725	1	5	24	DR 84DE	
	Lowest 1	Natural 1	Frequency (Hz)		
Front-Back		-Side	Vertical	45	TENIG
14.0	8.	.24	>33.3	8.46	
Unit	Bolted	to shak	e table with four		
Mounting:		diamete	er bolts.	OSP-0699	
Seismic Test Pa	arameters	s	~////		
Building Code:			nia Building Co	ode	
Test Criteria:	ICC	-ES AC	156 BY: 11	mothy J P	
Lab Report No.	FR-	13536 <mark>2.</mark>	01-ENV Rev 0		
Sds (g)	Ip		z/h	.08/04/20	
1.75	1.:		1.0		
$A_{RIG}(g)$	A_{FLX}		Arig (g)	$A_{FLX}(g)$	
(horizontal)	(horizo		(vertical)	(vertical)	
2.1	2.8	8	.47	1.17	
			TAN		COV
Construction	n: C	Carbon S	teel Rack	4 BUILDIN	0
Components	s: 1) C9300	-48U with CISC	CO (PWR-C1-11	00WAC)
•				CISCO (PWR-C	
	3) CISCO) C2960-X (WS	-C2960X-24PS-	L)
		/	DU (AP7800B)		
			N PDU (ePBZ		
					(Copper) with CISCO (C9400-PWR-3200AC
		CISCO (C9400-SUP-1), CISCO (C9400-LC-48U)			
					with EATON RK2PC, CISCO (C9400-SUP-1)
			C9400-LC-48U		DECUDE) w/o dooro
Center of Grav			es from the bott		PE2VD6) w/o doors
	5				
				0	ined function before and after the ICC-ES
AC156 test. T	he unit	maintai	ned integrity d	luring and after	the ICC-ES AC156 Test.



#	2 POST CHATSWORTH RACK 1A/1C	Total Equip Weight(lb)	Sub-Component	Height (COG) (in)	Component Mounting
44					
43	00000 1011	20	CISCO (PWR-C1-1100WAC)	70.005	
42 41	C9300-48U C9200L-48P-4X	14	CISCO (PWR-C5-1KWAC)	76.625 74.875	(4) # 10 SCREWS (4) # 10 SCREWS
41	CISCO C2960-X (WS-C2960X-24P S-L)	14		73.125	(4) # 10 SCREWS
39	0.000 02000 X (NO 02000 X 24 0 2)	п		10.20	
38					
37					
36					
35		ORCOD	Fra		
34		FUT			
33		EV			
32		- OCH			
31	DUMMY WEIGHT	54		57.375	
30			The second secon		
29		OSP-06	99		
28		001-00	33		
27 26	APC PDU (AP7800B)	4		48.625	(4) # 10 SCREWS
25	EATON PDU (ePBZ79)	py Timothy	Diland	46.875	(4) # 10 SCREWS
24		Br. Himoury J			(.),,,
23					
22	WINN	DATE 08/01/	021		
21		DATE: 00/04/2	021		
20			2		
19	CR		0		
18			, v		
17		0			
16	CISCO C9410R chassis Access Switch	7	CISCO (C9400-PWR-3200AC)		
15	(Copper)	A RIII D	CISCO (C9400-SUP-1) CISCO (C9400-LC-48U)	27.625	(6) # 10 SCREWS
14		SUILD	CI3CO (C9400-LC-460)		
13 12					
⊯ 11					
10					
9					
8	SPACE FOR AIR CIRCULATION				
7					9PX6KWITH(10)#10
6			EATON RK2PC		Strapped back of units
5	EATON 9PX UPS 6kW (9PX6KTF5)		EATON 9PXTFMR5		to mount rail
4	(incl. 8.8# 4-post rail kit 2-post kit is 5#)	204	EATON 9PX6K	9.25	
3					MOUNT RACK RAILS WIT
2					(2) # 10 SCREWS PER SIDE
1	PANDUIT 6" Vertical Wire Manager (PE2VD6) w/o doors	48		43.7	(2) 3/8" Bolts Top & Bot
0				-	
0	Chatsworth 2 Post (13855-703)	185		43.7	(4) 1⁄2" Diameter Bolts
	Total Weight=	725			
	Total Equipment Weight r= Total Equipment Weight with Vertical Wire Manage=	492 540			

Table 2a-UUT1 Components and Subcomponents

Total Equipment Weight with Vertical Wire Manage= 540 Note: The Panduit 6 Vertical Wire Manager (PE2VD6) is to be attached to the 2 post rack as part of this OSP.



OSHPD Special Seismic Certification: Unit Under Test Summary-UUT 2 UUT# Component Rack: 2 B-Line 4-Post (E2Z48424301924B) Equipment: See Table 2b Unit Function Networking equipment
Rack:2B-Line 4-Post (E2Z48424301924B)Equipment:See Table 2bUnit FunctionNetworking equipment
Rack:2B-Line 4-Post (E2Z48424301924B)Equipment:See Table 2bUnit FunctionNetworking equipment
Equipment: See Table 2b Unit Function Networking equipment
Unit Function Networking equipment
Unit Properties
Equipment Dimensions (in)
Weight (lbs) Depth Width Height
1002 30 24 OR 84 DE OB 100 100 100 100 100 100 100 100 100 10
Lowest Natural Frequency (Hz)
Front-Back Side-Side Vertical 45
22.0 6.41 24.4 6.30
Unit Bolted to shake table with four
Mounting: (4) ¹ / ₂ " diameter bolts. OSP-069
Seismic Test Parameters
Building Code: 2019 California Building Code
Test Criteria: ICC-ES AC 156
Lab Report No. FR-135362.01-ENV Rev 0
Sds (g) Ip z/h parte 08/04/20
1.75 1.5 1.0
A _{RIG} (g) A _{FLX} (g) A _{FLX} (g)
(horizontal) (horizontal) (vertical) (vertical)
2.1 2.8 .47 1.17
Construction: Carbon Steel Rack
Components: 1) Philips HP Engage Flex Pro CPU (866424) By HP 2) COMMSCOPE PSU-SR-AC (7693531-00) with 7663610-00,7663468-00
3) COMMSCOPE ION-E WCS4 (CAN) with mount rack (7635442-01), 7642123-00, 7680813,
7688866-00,7688867-00, 7642125-00
4) COMMSCOPE PSU-SR-AC (7693531-00) with 7663610-00,7663468-00
5) COMMSCOPE ION-E WCS2 (TEN) (7635443-01) with 7642123-00,7680813-00, 7633228-01
7688866-00, 7688867-00,7688868-00
6) HALL RESEARCH(KVMC-UH-8-UHD)
7) PHILIPS(865346)
8) PHILIPS(866212) 9) HALL RESEARCH (ULTRA-4K-S)
10) VERTIV GEIST PDU-HORIZONTAL(UI30024)
11) EATON UPS, L21-30P INPUT, (1) L21-30R OUTPUT Blade 8Kw (ZC0811108100000)
13) PANDUIT 12" Vertical Wire Manager(PE2VD12) w/o doors
Center of Gravity 34.6 inches from the bottom of the rack.
Note: The unit was full of contents during testing and remained function before and after the ICC-ES
AC156 test. The unit maintained integrity during and after the ICC-ES AC156 Test.



Table 2b-UUT2 Components and Subcomponents

#	B-LINE E2Z4 RACK 1A/1C	Total Equip Weight(lb)	Sub-components	Height (COG) (in)	Component Mounting
45 44	Philips HP Engage Flex Pro CPU (866424) By HP	14		75.75	Trey: (4)# 12 Screws in front & 4 in back with strap for Philip
43		25	7000000 00 7000 000 00	71075	(1) #0.0
42	COMMSCOPEPSU-SR-AC (769353100)	25	7663610-00,7663468-00	71.375	(4) # 12 Screws
41		38	7642123-00,7680813	07	(1) # 0 0
40 39	COM M SCOPE ION-E WCS4 (CAN) with mount rack (7635442-01)	50	7688866-00,7688867-00 7642125-00	67	(4) # 12 Screws
38			7642 23-00		
37	COMMSCOPEPSU-SR-AC (7693531-00)	25	7663610-00,7663468-00	64.625	(4) # 12 Screws
36	COM M SCOP E ION-E WCS2 (TEN) (7635443-01)	25 0 0	7642123-00,7680813-00,7633228-01	60	
35		FUNCE	7688866-00,7688867-00,7688868-00		
34	HALL RESEARCH(KVM C-UH-8-UHD)	27	40	57.375	(4) # 12 Screws
33	PHILIPS(865346)	5		55.625	(4) # 12 Screws
32		5		53.875	(4) # 12 Screws
31	HALL RESEARCH (ULTRA-4K-S)	3		52.125	(4) # 12 Screws
30 29	141				
29 28	2	OSP-0	699 MAM		
27					
26					
25		By Timothy	J Piland		
24		<u> </u>			
23	VERTIV GEIST PDU-HORIZONTAL(UI30024)	12		48.625	(4) # 12 Screws
22		DATE 08/04	2021		
21		DATE. 00/01	2021	/	
20	DUM M Y WEIGHT	179	\sim	32.875	
19	T,		0'/		
18					
17		O	State Stri		
16			COV		
15 14		ARIIII	DING		
13		SOIL			
12					
10					
9					
8					(6) # 12 Screws in Front
7	EATON UPS, L2130P INPUT, (1) L2130R OUTPUT Blade				(6) # 12 Screws in Back
6	8Kw (ZC0811108100000)	312		9.25	
5					
4					
3					
2					
0	PANDUIT 12" Vertical Wire Manager(PE2VD12) w/o doors	68		43.7	(3) M 12 BOLTS PER RACK
0	B-LINE(E2Z48424301924B)	264		43.7	(4) 1⁄2" Diameter Bolts
	Total Weight=	1002.00	I		

Note: The Panduit 12 Vertical Wire Manager (PE2VD12) is to be attached to the 4 post rack as part of this OSP.

CHATSWORTH 2-POST 13855-703 SeismicFrame® Two-Post Rac

Support rack-mount network equipment in data centers and premise networks where seismic activity exists.

KEY FEATURES

- Welded, steel network equipment rack engineered specifically to protect equipment in areas with seismic activity
- Independently coshic-tested and perified meets industri-recognic conclusion Technologies, Inc. oR-63-CONE Network Equipment Building Systems (NEBS) Zone 4 requirements
- 1,000 lb (453.6 kg) load rating for seismic areas
- Supports 19" EIA-310-D compliant rackmount equipment like patch panels and network switches; 23" W version also available
- 19" W rack fits within a 24" (610 mm) raised access floor tile
- Available with #12-24 threaded or squarepunched adjustable-depth equipment mounting rails
- Equipment mounting rails have marked and numbered rack-mount spaces (U); numbering can start at the top or bottom of the rack
- Fully bonded rack has two masked grounding locations and includes a Two Mounting Hole Ground Terminal Block for easy connection to the Telecommunications Grounding Busbar
- Vertical Power Strips and T-shaped Cable Management Fingers attach directly to the rack channel to provide power and cable distribution for equipment

	SeismicFrame® Two-Post Rack
	ADVANTAGES California OSHPD OPM
	Adjustable Depth Mounting Rails Set 6" (150 mm) or 3" (80 mm) apart
	Cable Management Built-in locations on rack
	Two Mounting Hole Ground Terminal Block Included for easy connection to the Teleccommunications Grounding Busbar
BY:TIMOT SPECIFICATIONS	
DATE: U8/	Welded, steel frame Equipment mounting rails, two pairs 50 each equipment mounting screws/cage nuts
1	1 each Two Mounting Hole Ground Terminal Block Height: 7' (2.1 m)
Available Sizes	Widths: 24" (610 mm) and 28" (710 mm) Depth: 15" (380 mm) at base; 9.6" (244 mm) vertical channels Height: 440
Equipment Space	Width: 19" EIA or 23" Rail depths: 6" (150 mm) or 3" (80 mm)
Equipment Support	Two pairs of L-shaped equipment mounting rails fixed in place at 6"D (150 mm) or 3"D (80 mm) 19" W EIA-310-D compliant or 23" W Universal Hole Pattern, 5/8"-5/8"-1/2" alternating vertical mounting hole spacing Threaded #12-24 or square-punched equipment mounting holes
Load Capacity	Includes 50 each mounting screws or cage nuts and mounting screws
Load Capacity	(1000 lb (453.6 kg) of equipment in seismic areas Rack components are bonded through welds
Bonding and Grounding	Hack components are bonded through welds Mounting rails are bonded to the rack through attachment hardware; optional zinc-plated mounting rails provide direct metal contact with rack-mount equipment Includes two masked ground connection points located at the top and base of the rack
	Includes one Two Mounting Hole Ground Terminal; Block for connection to the Telecommunications; Grounding Busbar

Availability: Global

United States Agoura Hills, CA 800-834-4969 Canada

Canada Toronto, Ontario, Canada <u>+905-</u>850-7770 Europe Buckinghamshire, UK +441628524834 Middle East & Africa Dubai, UAE +971-4-2602125

Doha, Qatar +974-4-267422 Latin America +52-55-5203-7525 Toll Free within Mexico 800-201-7592 chatsworth.com.co Asia Pacific +86 21 6880-0266 chatsworth.com.cr



www.chat98/04/2021 techsupport@chatsworth.com

CHATSWORTH 2-POST 13855-703

DIMENSIONS



	EIA-310-D compliant; UL Listed NVVIN per UL 60950, File E227626
	OSHPD OPM-0249-13, California, Office of Statewide Health Planning and Development
Certifications:	(<u>(OSHPD), Preapproval of Manufacturer's Certification (OPM)</u>
	GR-63-CORE, NEBS, Zone 4
	US Patent Number: 8,424,691
Material	Steel
Construction	Welded
CONSTRUCTION	Mounting rails attach with hardware
Finish	Epoxy-polyester hybrid powder coat paint in black, gray or computer beige
FIIIISII	Mounting rails are painted or zinc-plated
	Each rack must be secured to the structural floor
	Order a seismic-rated, concrete anchor kit separately
Installation	Use a 3/4" x 5-1/2" L seismic-rated, concrete anchor
	When bayed in a continuous row, the spacing between racks should be determined by a licensed structural engineer familiar with seismic applications and codes. Each installation requirement varies.
Environment	For indoor use only, in environmentally controlled areas; may not be used outdoors, in industrial or harsh environments, or in plenum spaces
FFD	

Design Features CPI's SeismicFrame® Two-Post Rack is designed specifically to support network equipment in areas with seismic activity. When earthquakes occur, equipment racks move back-and-forth with the building causing violent vibration through racks and equipment. An earthquake can easily damage or destroy non-seismic racks and equipment that are not carefully braced. The welded, steel SeismicFrame Two-Post Rack resists the swaying motion caused by earthquakes to reduce the amount of vibration transferred through the rack to equipment and is less likely to be

damaged during a seismic event, which means faster network recovery.

The SeismicFrame Two-Post Rack supports 19" W EIA-310-D compliant or 23" W equipment with two pairs of mounting rails that can be spaced 6" (150 mm) or 3" (80 mm) apart. The mounting rails are marked and numbered with rack-mount spaces (U) and can be attached so that numbering starts at the bottom or top of the rack mount space. Choose threaded or square-punched mounting rails with a painted or zinc-plated finish. The mounting holes in threaded mounting rails are tapped with #12-24 threads to speed installation of panel-mount equipment with #12-24 screws. The square-punched rails accept cage nut hardware allowing you to change threads at each U to match equipment mounting requirements.

Description	19 in (mm)	23 in (mm)
Overall Width (A)	24.0 (610)	28.0 (710)
Frame Opening (B)	19.3 (490)	23.3 (592)
Rail Clearance (C)	17.75 (450)	21.75 (552)

CPI's SeismicFrame Two-Post Rack ships fully assembled and includes a Two Mounting Hole Ground Terminal Block for bonding the rack to the Telecommunications Grounding Busbar and 50 each equipment mounting screws or cage nuts and screws. The rack is rated for a 1000 lb (453.6 kg) seismic Zone 4 load per Section 4.4 of the Telcordia® Technologies, Inc. GR-63-CORE Network Equipment Building Systems (NEBS) requirements.

See reverse for product details. Contact CPI Technical Support, or visit the CPI website (www.chatsworth.com/ seismic) for configuration assistance.

USE WITH

- SeismicFrame Two-Post Rack Vertical Cabling Section
- Top-Mount Cable Waterfall Tray
- Cable Management Fingers Kit
- SeismicFrame Two-Post Rack Concrete Floor Anchor Kit

RELATED PRODUCTS

- Heavy Duty Equipment Shelf for 6" (150 mm) Channel
- Vertical Cabling Section Offset Mounting Bracket Kit for Single-Sided Wide Vertical Cabling Section
- 3" (80 mm) Channel Rack-To-Runway Mounting Plate
- Cable Runway J-Bolt Kit

CHATSWORTH 2-POST 13855-703

ORDERING INFORMATION

	SeismicFrame® Two-Post Rack					
Part Number	Description H x W ft (m)	Shipping Weight Ib (kg)				
13853-X03	7 (2.1) x 19", 44U, Tapped #12-24 Zinc Rails	180 (81.6)				
13854-X03	7 (2.1) x 19", 44U, Square-Punched Zinc Rails	178 (80.7)				
13855-X03	7 (2.1) x 19", 44U, Tapped #12-24 Painted Rails	180 (81.6)				
13856-X03	7 (2.1) x 19", 44U, Square-Punched Painted Rails					
13883-X03	7 (2.1) x 23", 44U, Tapped #12-24 Zinc Rails	185 (83.9)				
13884-X03	7 (2.1) x 23", 44U, Square-Punched Zinc Rails	183 (83.0)				
13885-X03	7 (2.1) x 23", 44U, Tapped #12-24 Painted Rails	185 (83.9)				
13886-X03	7 (2.1) x 23″, 44U, Square-Punched Painted Rails	183 (83.0)				

Manage The top of the rack is punched with attachment points for the CPI Top-Mount Cable Waterfall Tray and Cable Runwav

Attach 9" W (230 mm), 12" W (300 mm), 15" W (380 mm) and 18" W (460 mm) Cable Runway to racks in perpendicular (front-te-back) orientation with the Cable Runway J-Bolt Kit; 23" W racks will also support 20" W (510 mm) Cable Runway Attach 12" W (300 mm) to 24" W (610 mm) Cable Runway in parallel (side-to-side) orientation with the 3"

W (80 mm) Channel Rack-To-Runway Mounting Plate.

The front of the rack is punched with attachment points for the CPI Cable Management Fingers Kits

The sides of the rack are punched with three pairs of centered, 1/2-20 threaded attachment points for CPI SeismicFrame Two-Post Rack Vertical Cabling Section Attach a CPI Single-Sided Wide Vertical Cabling Section to the side of the rack with the CPI Vertical

Cabling Section Offset Mounting Bracket Kit

Evolution® Cable Management and MCS-EFX Master Cabling Section with Extended Fingers will also attach to the side of the rack

elves. Use CPI Heavy Duty Equipment Shelf for 6" (150 mm) Channel with the rack's mounting rails set 6" (150 mm) apart When rails are set 3" W (80 mm) apart, the maximum shelf width on 19" W racks is 19,3" W (490 mm)

and the maximum shelf width on 23" W racks is 23.3" W (592 mm)

ACCESSORIES



SeismicFrame Two-Post Rack **Vertical Cabling Section**

Provide a double-sided, front and rear cable pathway next to SeismicFrame Two-Post Rack.

F

- Separate front and rear 6"W x 6.38"D (150 mm x 162 mm) cable managers attach with included offset brackets to align with the front and rear of the rack
- Large cable pass-through ports on the back of each manager align with ports in the side of the frame; spinopen plastic latches secure cables inside the managers
- Includes one Single-Sided Cable Management Fingers Kit to organize cables by U
- Made of aluminum
- Includes installation hardware

Cable Management Fingers Kit

Organize patch cords and jumper cables by U.

- 7U T-shaped plastic cable guides snap onto the front and rear of the rack frame
- Openings between the T-shaped guides align with each U on the rack
- Single-Sided Kit includes 12 cable guides for one side (front or rear) of the rack
- · Double-Sided Kit includes 24 cable guides for both sides (front and rear) of the rack

SeismicFrame® Two-Post Rack Accessories				
Part Number	Description	Shipping Weight Ib (kg)		
13704-X03	VCS Vertical Cabling Section 35 (
13696-001	Cable Management Fingers Kit, Single-Sided, Black 7 (3.2			
13696-002	002 Cable Management Fingers Kit, Double-Sided, Black 14 (6.4)			
13699-701	VCS Offset Mounting Bracket Kit, Black	2 (0.9)		

Notes: X=color; 1=Gray, 2=Computer Beige, 7=Black.



Vertical Cabling Section (VCS) Offset Mounting **Bracket Kit**

Attach a CPI Single-Sided Wide Vertical Cabling Section to the side of the SeismicFrame Two-Post Rack so that it aligns with the front of the rack.

- Kit includes four Offset Mounting Brackets
- Use two brackets per side to attach the Vertical
- Cabling Section · Brackets are slotted allowing front-to-rear adjustment
- Made of steel

CHATSWORTH 2-POST 13855-703

0⁻² 0⁻² 0⁻² 0⁻²

Vertical Power Strip Mounting Hardware Kit Attach CPI 33"L (711 mm) Vertical Power Strips and PDUs directly to the side of SeismicFrame Two-Post Rack or the back of the SeismicFrame Two-Post Rack Vertical Cabling Section

- · Includes mounting hardware that allows tool-less attachment of two CPI 33"L (711 mm) Vertical Power Strips or PDUs to the keyholes on the sides of the SeismicFrame Two-Post Rack
- Top/Bottom keyholes are spaced 64.75" (1645 mm) apart, matches CPI eConnect PDUs
- Top/Middle keyholes are spaced 28" (711 mm) apart; matches CPI 33"L (838 mm) Vertical Power Strips

the rack



	Additional Accessories		
Duplex Electrical Outlet Box Provides a location for a power connection at the base of	Part Number	Description	Shipping Weight Ib (kg)
he rack. • Includes a single-gang electrical outlet box for a single, 0	15275-X01	Top-Mount Cable Waterfall Tray	14 (6.4)
duplex receptacle and two self-tapping Torx head T25	40605-001	#12-24 Screws, Pack of 50, Zinc	1 (0.5)
• Outlet box is welded steel, 3-3/4"H x 1-13/16"W	40605-005	#12-24 Screws, Pack of 50, Black	1 (0.5)
x 2-1/2"D (95 mm x 46 mm x 64 mm) with a 15.5 in ³	12637-001	M6 Cage Nuts and Screws, pack of 25, Gold	1 (0.5)
(250 cm ³) wiring capacity, has eight (four accessible) concentric knockouts for 1/2" or 3/4" conduit, and is	12638-001	#10-32 Cage Nuts and Screws, Pack of 25, Zinc	1 (0.5)
zinc galvanized for corrosion protection	12639-001	#12-24 Cage Nuts and Screws, Pack of 25, Black	1 (0.5)
• UL Listed Q- OSP-0	12293-X19	Heavy Duty Shelf for 6" (150 mm) Channel, For 19" Rack	10 (4.5)
Tool-less Bend Radius Kit for Fiber Patch Cords	10595-X12	3" (80 mm) Channel Rack-To-Runway Mounting Plate Using J-Bolts 9 to 12" W (230 mm to 300 mm) Runway, Steel	5 (2.3)
ensures proper bend radius support for fiber optic match cords when transitioning through T-shaped mable guides. It snaps onto the finger manager 8/04/	10595-X18	3" (80 mm) Channel Rack-To-Runway Mounting Plate Using J-Bolts 15 to 18" W (380 mm to 460 mm) Runway, Steel	7 (3.2)
 vithout any tools, and can be used for new or etrofit applications. Provides proper bend radius support for fiber optic patch cords 	12408-X24*	3" (80 mm) Channel Rack-To-Runway Mounting Plate Using J-Bolts 20 to 24" W (510 mm to 610 mm) Runway, Aluminum	4 (1.8)
 Tool-less installation May be installed in upward or downward 	32697-001	Tool-less Bend Radius Kit for Fiber Patch Cords, Pack of 10, Black	1 (0.5)
orientations on either side of a T-shaped cable guide • Available in packs of 10 or 50	32697-002	Tool-less Bend Radius Kit for Fiber Patch Cords, Pack of 50, Black	3 (1.4)

X=Color; 1=Gray, 2=Computer Beige, 7=Black, E=Glacier White. 10595 is available in (-0) for Gold Finish color. Kits include gold color hardware; gray and black kits include black color hardware. *P/N 12408-X24 and



seis nic ram Two Post Rack Floor Drilli olate d early locate and d Two-Post Rack floor anchors.

- Durable 28"W x 15"D (710 mm x 380 mm) aluminum template locates floor mounting holes for 19"W and 23"W SeismicFrame Two-Post Racks
- Notched to indicate outside width of the 19"W rack for easy alignment when installing multiple racks

Interested in learning more about our Cable Managers? Call us at 800-834-4969, or email Technical Support at techsupport@chatsworth.com.



CPI now offers Extended Limited Warranties on CPI-Branded Electronic products, available for two additional years beyond the expiration of the Original Warranty Period (3 years).

Contact CPI Customer Service, or visit www.chatsworth.com/warranty for more information



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Server & Network Enclosures

E2 Zone 4 Enclosure

E2Z4 Enclosure Features

- Tested in accordance with NEBS GR-63-CORE and ANSI T1.329. Complete Bellcore test results available upon request on cabinets up to 30" (762mm) deep
- Seismic anchor kits. Kit includes seismic rated anchor bolts, leveling shims, and anchor plates
- Reinforced cabinet frame for added rigidity
- Heavy duty 12 ga. (2.6mm) steel welded frame
- Lift-off locking solid side panels with compression latches. (Other type/style patterns available.)
- Smoked plexiglass removable front locking door. (Other type/style patterns available)
- Louvered top/bottom removable rear locking door. Other type/style patterns available
- Two (2) pair of heavy-duty adjustable mounting rails available with #12-24 tapped holes or square pierced holes (for cage nuts)
- Load Capacity in non-seismic applications is 2500 lbs. (1134kg)
- Load Capacity 850 lbs. (386kg), [450 lbs. (204kg) equipment weight] in accordance with NEBS GR-63-CORE and ANSI T1.329
- Lift lugs (4) in corners of top frame threaded 5/8" engaged 11
 threads
 OSP-0699
- Open base for floor-routed cable access
- Perforated top panel for ventilation and optional fan mounting
 Quick-release hinge design permits fast and easy removal of front and and rear doors
- Two (2) 3" (76mm) diameter holes with snap in bushings to protect cables
- Fifty (50) #12-24 mounting screws for tapped rails or fifty (50) #12-24 screws and fifty (50) #12-24 cage nuts for square pierced rails

PNIA BI

See page ii for link to OPM approvals

Select from the following options:

- Two (2) standard colors (custom colors available upon request)
- Four (4) heights, two (2) widths and nine (9) depths. Depths up to 30" (762mm) are seismically qualified
- 19" (482mm) or 23" (584mm) EIA mounting options.



Mounting Rails Usable "U" space chart 1U = 1.75" (44mm)

Cabinet Height		Mounting Units U
60"	(1524mm)	29
72"	(1829mm)	36
78"	(1981mm)	39
84"	(2133mm)	42

FOR REFERENCE ONLY

E2 Zone 4 Enclosure



Use the following matrix to build the part number for your desired E2 Zone 4 seismic enclosure

255 Page 16 of 17



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