



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

**APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

APPLICATION #: OSP-0699

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Stanford Health Care and School of Medicine

Manufacturer's Technical Representative: Phil Nakamura

Mailing Address: 1830 Embarcadero Rd., Palo Alto, CA 94303

Telephone: (415) 879-5722

Email: PhilNakamura@stanfordhealthcare.org

Product Information

Product Name: See Certified Product List

Product Model Number(s): See Certified Product List

Product Category: Internal Communication Servers and Routers

Product Sub-Category: Wireless Communication Systems

General Description: Servers, routers, UPS, PDU, switches

Mounting Description: Several - See Certified Product Tables and UUT Sheet

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: Universal Structural Engineers, LLC

Contact Person: Kevin OKeefe

Mailing Address: 1660 S. Amphlett Blvd., Suite 335, San Mateo, CA 94402

Telephone: (650) 504-5691

Email: ktokeefe@universalstructuralengineers.com

Title: Structural Engineer



**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT**

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@universalstructuralengineers.com

Certification Method

- GR-63-Core
- ICC-ES AC156
- IEEE 344
- IEEE 693
- NEBS 3
- Other (Please Specify): _____

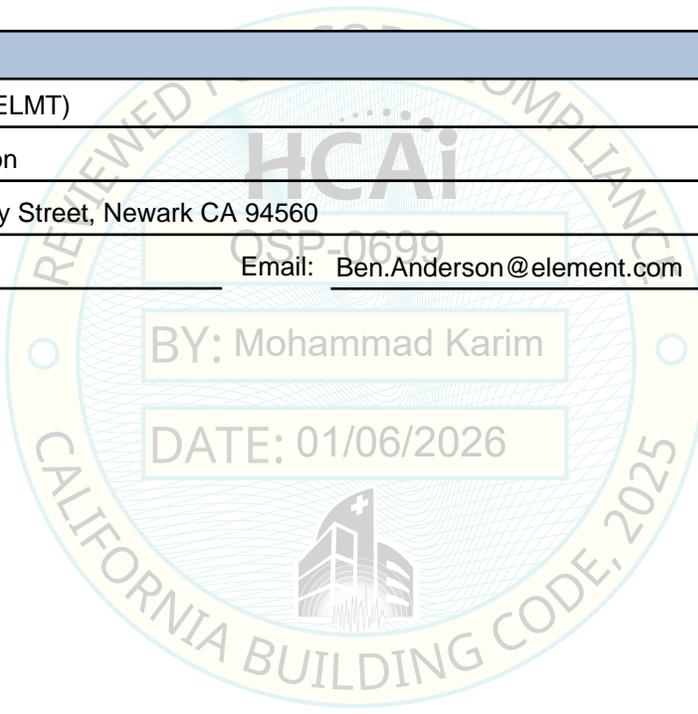
Testing Laboratory

Company Name: ELEMENT (ELMT)

Contact Person: Ben Anderson

Mailing Address: 38995 Cherry Street, Newark CA 94560

Telephone: (510) 578-3500 Email: Ben.Anderson@element.com





**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
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Seismic Parameters

Certified Response Spectral Acceleration Factors:(F_p/W_p)

Horizontal (A Flx-H), $g=$ 2.8 (A Rig-H), $g=$ 1.88

Vertical (A Flx-V), $g=$ 1.17 (A Rig-V), $g=$.47

SDS (Design spectral response acceleration at short period, g) = 1.75

H_f (Force amplification height factor) = 3.5

R_u (Structure ductility reduction factor) = 1.3

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 1

HCAI Approval (For Office Use Only) - Approval Expires on 01/06/2032

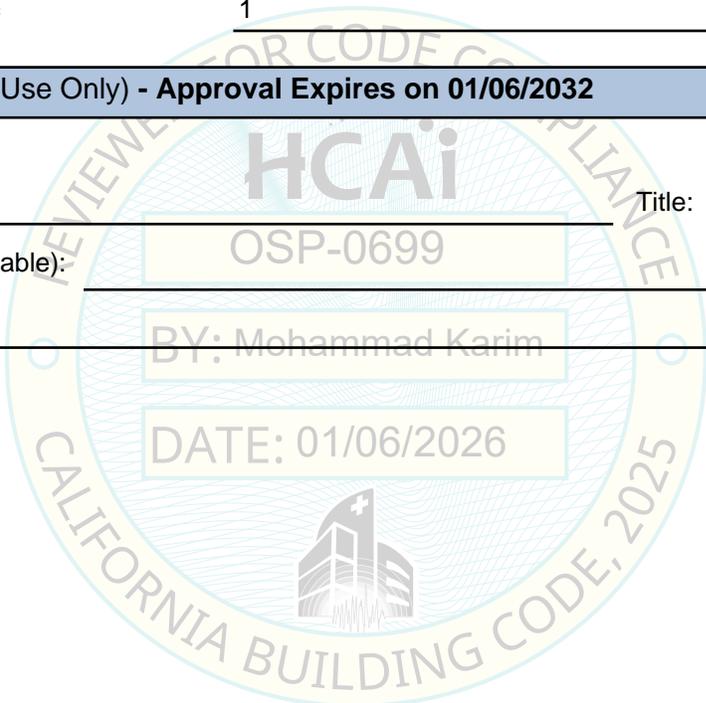
Date: 1/6/2026

Name: Mohammad Karim Title: Supervisor, Health Facilities

Condition of Approval (if applicable): OSP-0699

BY: Mohammad Karim

DATE: 01/06/2026



Universal Structural Engineers, LLC



STANFORD OSP ATTACHMENT 1

Table 1-Certified Product List

OSHPD Special Seismic Certification Summary of Certified Units								
Manufacturer: Varies, See below								
Equipment: IT Equipment and Racks (Equipment Configuration Varies)								
Mounting Condition Tested: Base Mounted, Rigidly Bolted to shake table with (4) ½” diameter bolts.								
Rock Manufacturer (Model #)		Equipment Configuration	Depth (in.)	Width (in.)	Height (in.)	Equipment Weight (lbs.)	Center of Gravity (in.)	Unit
Chatsworth (13855-703)		2-Post Rack	15	24	84	725	32.2	UUT1
B-Line 4-Post (E2Z48424301924B)		4-Post Rack	30	24	84	1002	34.6	UUT2
Seismic Test Parameters								
Building Code:	2025 California Building Code							
Test Criteria:	ICC-ES AC 156							
Sds (g)	Ip	R _μ	H _f	A _{RIG} (g) (horizontal)	A _{FLX} (g) (horizontal)	A _{RIG} (g) (vertical)	A _{FLX} (g) (vertical)	
1.75	1.5	1.3	3.5	1.9	2.8	.47	1.17	
Notes	<p>The Eaton 4 post rack does not have doors or panels.</p> <p>The equipment in Table 2 may be interchanged between the two racks since they were all tested to the same level. The same attachment to the rack or better used during the test must be used regardless of rack the equipment is installed it.</p>							



Table 2a-UUT1 Components and Subcomponents

OSHPD Special Seismic Certification: Unit Under Test Summary: Components and Subcomponent					
#	2 POST CHATSWORTH RACK 1A/1C	Total Equip Weight(lb)	Sub-Component	Height (COG) (in)	Component Mounting
44					
43					
42	C9300-48U	20	CISCO (PWR-C1-1100WAC)	76.625	(4) # 10 SCREWS
41	C9200L-48P-4X	14	CISCO (PWR-C5-1KWAC)	74.875	(4) # 10 SCREWS
40	CISCO C2960-X (WS-C2960X-24PS-L)	14		73.125	(4) # 10 SCREWS
39					
38					
37					
36					
35					
34					
33					
32					
31	DUMMY WEIGHT	54		57.375	
30					
29					
28					
27					
26	APC PDU (AP7800B)	4		48.625	(4) # 10 SCREWS
25	EATON PDU (ePBZ79)	4		46.875	(4) # 10 SCREWS
24					
23					
22					
21					
20					
19					
18					
17					
16					
15	CISCO C9410R chassis		CISCO (C9400-PWR-3200AC)		
14	Access Switch	178	CISCO (C9400-SUP-1)	27.625	(6) # 10 SCREWS
13	(Copper)		CISCO (C9400-LC-48U)		
12					
11					
10					
9					
8	SPACE FOR AIR CIRCULATION				
7					
6			EATON RK2PC		9PX6K WITH (10) # 10
5	EATON 9PX UPS 6kW (9PX6KTF5)		EATON 9PXTFMR5		Strapped back of units
4	(incl. 8.8# 4-post rail kit... 2-post kit is 5#)	204	EATON 9PX6K	9.25	to mount rail
3					
2					MOUNT RACK RAILS WITH
1					(2) # 10 SCREWS PER SIDE.
	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=	492			
	Total Equipment Weight with Vertical Wire Manager=	540			

Universal Structural Engineers, LLC



Table 2b-UUT2 Components and Subcomponents

OSHPD Special Seismic Certification: Unit Under Test Summary: Components and Subcomponents					
#	B-LINE E2Z4 RACK 1A/1C	Total Equip Weight(lb)	Sub-components	Height (COG) (in)	Component Mounting
45	Philips HP Engage Flex Pro CPU (866424) By HP	14		75.75	Trey: (4) # 12 Screws in front & 4 in back with strap for Philips
44					
43					
42	COMMSCOPE PSU-SR-AC (769353100)	25	7663610-00,7663468-00	71.375	(4) # 12 Screws
41	COMMSCOPE ION-E WCS4 (CAN) with mount rack (7635442-01)	38	7642123-00,7680813	67	(4) # 12 Screws
40			7688866-00,7688867-00		
39			7642125-00		
38					
37	COMMSCOPE PSU-SR-AC (769353100)	25	7663610-00,7663468-00	64.625	(4) # 12 Screws
36	COMMSCOPE ION-E WCS2 (TEN) (7635443-01)	25	7642123-00,7680813-00,7633228-01	60	
35			7688866-00,7688867-00,7688868-00		
34	HALL RESEARCH(KVMC-UH-8-UHD)	27		57.375	(4) # 12 Screws
33	PHILIPS(865346)	5		55.625	(4) # 12 Screws
32	PHILIPS(866212)	5		53.875	(4) # 12 Screws
31	HALL RESEARCH (ULTRA-4K-S)	3		52.125	(4) # 12 Screws
30					
29					
28					
27					
26					
25					
24					
23	VERTIV GEIST PDU-HORIZONTAL(UI30024)	12		48.625	(4) # 12 Screws
22					
21					
20	DUMMY WEIGHT	179		32.875	
19					
18					
17					
16					
15					
14					
13					
12					
11					
10					
9	EATON UPS, L2130P INPUT, (1) L2130R OUTPUT Blade 8Kw (ZC081108100000)	32		9.25	(6) # 12 Screws in Front
8					(6) # 12 Screws in Back
7					
6					
5					
4					
3					
2					
1					
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			
	Total Equipment Weight r=	670.00			
	Total Equipment Weight with Vertical Wire Manage=	670.00			

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Universal Structural Engineers, LLC



STANFORD OSP ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

Table 1a-UUT1 Product Summary-2 Post Rack

OSHPD Special Seismic Certification: Unit Under Test Summary-UUT 1

	UUT#	Component		
Rack:	1	Chatsworth 2 Post (13855-703)		
Equipment:		See Table 2a		
Unit Function	Networking equipment			
Unit Properties				
Equipment Weight (lbs)	Dimensions (in)			
	Depth	Width	Height	
725	15	24	84	
Lowest Natural Frequency (Hz)				
Front-Back	Side-Side	Vertical	45	
14.0	8.24	6.06	8.46	
Unit Mounting:	Bolted to shake table with four (4) ½" diameter bolts.			
Seismic Test Parameters				
Building Code:	2025 California Building Code			
Test Criteria:	ICC-ES AC 156			
Lab Report No.	FR-135362.01-ENV Rev 0			
S _{ds} (g)	I _p	R _μ	H _f	
1.75	1.5	1.3	3.5	
A _{RIG} (g) (horizontal)	A _{FLX} (g) (horizontal)	A _{RIG} (g) (vertical)	A _{FLX} (g) (vertical)	
1.9	2.8	.47	1.17	
Construction:	Carbon Steel Rack			
Subcomponents:	<ol style="list-style-type: none"> 1) C9300-48U with CISCO (PWR-C1-1100WAC) 2) C9200L-48P-4X with CISCO (PWR-C5-1KWAC) 3) CISCO C2960-X (WS-C2960X-24PS-L) 4) APC PDU (AP7800B) 5) EATON PDU (ePBZ79) 6) CISCO C9410R chassis Access Switch (Copper) with CISCO (C9400-PWR-3200AC), CISCO (C9400-SUP-1), CISCO (C9400-LC-48U) 7) EATON 9PX UPS 6kW (9PX6KTF5) with EATON RK2PC, CISCO (C9400-SUP-1), CISCO (C9400-LC-48U) 8) PANDUIT 6" Vertical Wire Manager (PE2VD6) w/o doors 			
Center of Gravity	32.2 inches from the bottom of the rack.			

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Table 2a-UUT1 Components and Subcomponents

OSHPD Special Seismic Certification: Unit Under Test Summary: Components and Subcomponent				
#	2 POST CHATSWORTH RACK 1A/1C	Total Equip Weight(lb)	Sub-Component	COG (in)
44				
43				
42	C9300-48U	20	CISCO (PWR-C+100WAC)	76.625
41	C9200L-48P-4X	14	CISCO (PWR-C5-1KWAC)	74.875
40	CISCO C2960-X (WS-C2960X-24PS-L)	14		73.125
39				
38				
37				
36				
35				
34				
33				
32				
31	DUMMY WEIGHT	54		57.375
30				
29				
28				
27				
26	APC PDU(AP7800B)	4		48.625
25	EATON PDU (ePBZ79)	4		46.875
24				
23				
22				
21				
20				
19				
18				
17				
16				
15	CISCO C9410R chassis Access Switch (Copper)	178	CISCO (C9400-PWR-3200AC) CISCO (C9400-SUP-1) CISCO (C9400-LC-48U)	27.625
14				
13				
12				
11				
10				
9				
8	SPACE FOR AIR CIRCULATION			
7				
6			EATON RK2PC	
5	EATON 9PX UPS 6kW (9PX6KTF5) (incl. 8.8# 4-post rail kit... 2-post kit is 5#)	204	EATON 9PXTFMR5 EATON 9PX6K	9.25
4				
3				
2				
1				
0	PANDUIT 6" Vertical Wire Manager (PE2VD6) w/o doors	48		43.7
0				
0	Chatsworth 2 Post (0855-703)	85		43.7



Universal Structural Engineers, LLC



Table 1a-UUT2 Product Summary-4 Post Rack

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		
Unit Properties			
Equipment	Dimensions (in)		
Weight (lbs)	Depth	Width	Height
1002	30	24	84
Lowest Natural Frequency (Hz)			
Front-Back	Side-Side	Vertical	45
22.0	6.41	24.4	6.30
Unit Mounting:	Bolted to shake table with four (4) ½" diameter bolts.		
Seismic Test Parameters			
Building Code:	2025 California Building Code		
Test Criteria:	ICC-ES AC 156		
Lab Report No.	FR-135362.01-ENV Rev 0		
Sds (g)	Ip	R _μ	H _f
1.75	1.5	1.3	3.5
A _{RI} G (g) (horizontal)	A _{FL} X (g) (horizontal)	A _{RI} G (g) (vertical)	A _{FL} X (g) (vertical)
1.9	2.8	.47	1.17
Construction:	Carbon Steel Rack		
Subcomponents:	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.		



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pg. 3



Table 2b-UUT2 Components and Subcomponents

OSHPD Special Seismic Certification: Unit Under Test Summary: Components and Subcomponents				
#	B-LINE E2Z4 RACK 1A/1C	Total Equip Weight(lb)	Sub-components	COG (in)
45	Philips HP Engage Flex Pro CPU (866424) By HP	4		75.75
44				
43				
42	COMM SCOPE PSU-SR-AC (769353100)	25	7663610-00,7663468-00	71.375
41			7642123-00,7680813	
40	COMM SCOPE ION-E WCS4 (CAN) with mount rack (763544201)	38	7688866-00,7688867-00	67
39			7642125-00	
38				
37	COMM SCOPE PSU-SR-AC (769353100)	25	7663610-00,7663468-00	64.625
36		25	7642123-00,7680813-00,7633228-01	60
35	SCOPE ION-E WCS2 (TEN) (763544201)		7688866-00,7688867-00,7688868-00	
34	ALL RESEARCH(KVM C-UH-8-UH)	27		57.375
33	PHILIPS(865346)	5		55.625
32	PHILIPS(866212)	5		53.875
31	HALL RESEARCH (ULTRA-4KS)	3		52.125
30				
29				
28				
27				
26				
25				
24				
23	VERTIV GEIST PDU-HORIZONTAL(U130024)	12		48.625
22				
21				
20	DUMMY WEIGHT	179		32.875
19				
18				
17				
16				
15				
14				
13				
12				
11				
10				
9				
8				
7	EATON UPS, L21-30P INPUT, (1) L21-30R OUTPUT Blade 8Kw (ZC08110810000)	312		9.25
6				
5				
4				
3				
2				
1				
02	Vertical Wire Manager(PE2VD1)	68		43.7
0	B-LINE(E2Z48424301924B)	264		43.7



1.2" VERTICAL WIRE MANAGER

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CHATSWORTH 2-POST 13855-703

SeismicFrame® Two-Post Rack

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 seismic-tested and certified; meets industry-recognized Telcordia® Technologies, Inc. GR-63-CORE 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 rack-mount 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 square-punched 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



ADVANTAGES

- ➔ **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 Telecommunications Grounding Busbar



California OSHPD OPM

SPECIFICATIONS

Includes	Welded, steel frame
	Equipment mounting rails, two pairs 50 each equipment mounting screws/cage nuts 1 each Two Mounting Hole Ground Terminal Block
Available Sizes	Height: 7' (2.1 m) Widths: 24" (610 mm) and 28" (710 mm) Depth: 15" (380 mm) at base; 9.6" (244 mm) vertical channels Height: 44U
	Equipment Space
Equipment Support	Width: 19" EIA or 23" Rail depths: 6" (150 mm) or 3" (80 mm) 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
Bonding and Grounding	Includes 50 each mounting screws or cage nuts and mounting screws 1000 lb (453.6 kg) of equipment in seismic areas
	Rack 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

Toronto, Ontario, Canada
+905-850-7770

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

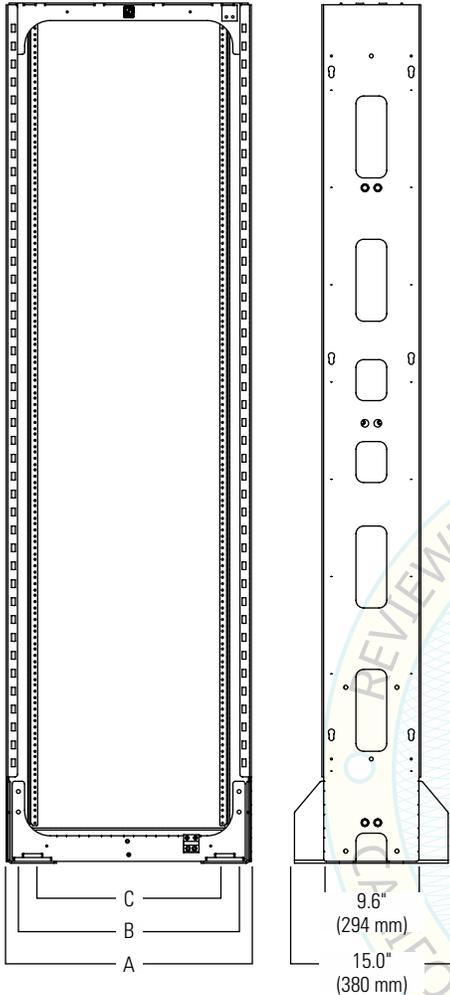
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CHATSWORTH
PRODUCTS

CHATSWORTH 2-POST 13855-703

DIMENSIONS



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)

Certifications:	EIA-310-D compliant; UL Listed NWIN per UL 60950, File E227626 OSHPD OPM-0249-13, California, Office of Statewide Health Planning and Development (OSHPD), Preapproval of Manufacturer's Certification (OPM) GR-63-CORE, NEBS, Zone 4 US Patent Number: 8,424,691
Material	Steel
Construction	Welded Mounting rails attach with hardware
Finish	Epoxy-polyester hybrid powder coat paint in black, gray or computer beige Mounting rails are painted or zinc-plated
Installation	Each rack must be secured to the structural floor Order a seismic-rated, concrete anchor kit separately 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

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.

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

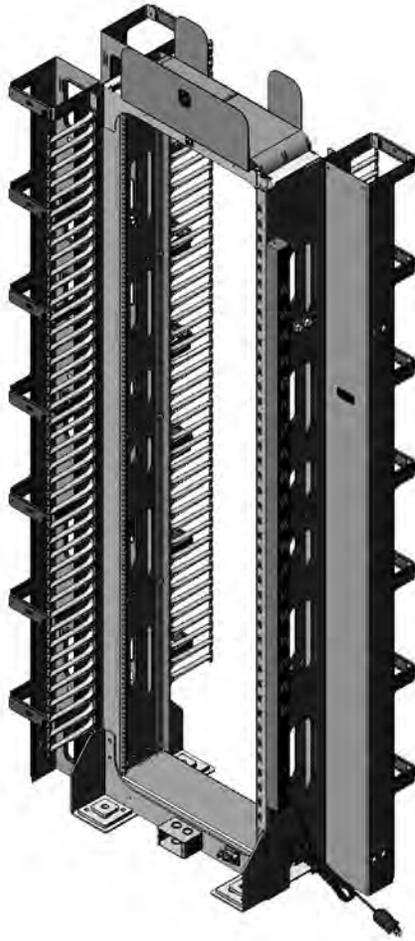
- SeismicFrame Two-Post Rack Vertical Cabling Section
- Top-Mount Cable Waterfall Tray
- Cable Management Fingers Kit
- SeismicFrame Two-Post Rack Concrete Floor Anchor Kit

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 lb (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	178 (80.7)
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)

Notes: X=Color; 1=Gray, 2=Computer Beige, 7=Black.
Install using (4) seismic-rated concrete anchors (sold separately).

Cable Management:

- The top of the rack is punched with attachment points for the CPI Top-Mount Cable Waterfall Tray and Cable Runway
 - 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-to-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
- Shelves:
- 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.

- 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; spin-open 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

SeismicFrame® Two-Post Rack Accessories		
Part Number	Description	Shipping Weight lb (kg)
13704-X03	VCS Vertical Cabling Section	35 (15.9)
13696-001	Cable Management Fingers Kit, Single-Sided, Black	7 (3.2)
13696-002	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.



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



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

ACCESSORIES



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



Duplex Electrical Outlet Box

Provides a location for a power connection at the base of the rack.

- Includes a single-gang electrical outlet box for a single duplex receptacle and two self-tapping Torx head T25 installation screws
- Outlet box is welded steel, 3-3/4"H x 1-13/16"W x 2-1/2"D (95 mm x 46 mm x 64 mm) with a 15.5 in³ (250 cm³) wiring capacity, has eight (four accessible) concentric knockouts for 1/2" or 3/4" conduit, and is zinc galvanized for corrosion protection
- UL Listed



Tool-less Bend Radius Kit for Fiber Patch Cords

Tool-less Bend Radius Kit for Fiber Patch Cords ensures proper bend radius support for fiber optic patch cords when transitioning through T-shaped cable guides. It snaps onto the finger manager without any tools, and can be used for new or retrofit applications.

- Provides proper bend radius support for fiber optic patch cords
- Tool-less installation
- May be installed in upward or downward orientations on either side of a T-shaped cable guide
- Available in packs of 10 or 50



SeismicFrame Two-Post Rack Floor Drilling Template

Quickly and easily locate and drill holes for SeismicFrame 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

SeismicFrame® Two-Post Rack Accessories		
Part Number	Description	Shipping Weight lb (kg)
13697-001	Vertical Power Strip Mounting Kit, Clear	1 (0.5)
13698-001	Duplex Electrical Outlet Box, Zinc	1 (0.5)
13703-701	Floor Drilling Template, Black	6 (2.7)

Additional Accessories		
Part Number	Description	Shipping Weight lb (kg)
15275-X01	Top-Mount Cable Waterfall Tray	14 (6.4)
40605-001	#12-24 Screws, Pack of 50, Zinc	1 (0.5)
40605-005	#12-24 Screws, Pack of 50, Black	1 (0.5)
12637-001	M6 Cage Nuts and Screws, pack of 25, Gold	1 (0.5)
12638-001	#10-32 Cage Nuts and Screws, Pack of 25, Zinc	1 (0.5)
12639-001	#12-24 Cage Nuts and Screws, Pack of 25, Black	1 (0.5)
12293-X19	Heavy Duty Shelf for 6" (150 mm) Channel, For 19" Rack	10 (4.5)
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)
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)
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)
32697-001	Tool-less Bend Radius Kit for Fiber Patch Cords, Pack of 10, Black	1 (0.5)
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 12409-X24 include hat-shaped mounting plate that adds 1.25" to the height of the rack.

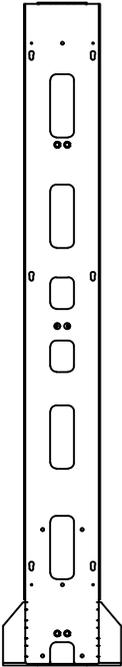
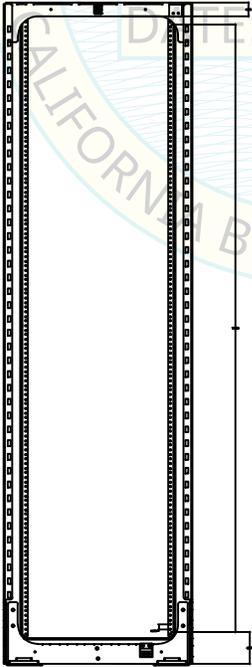
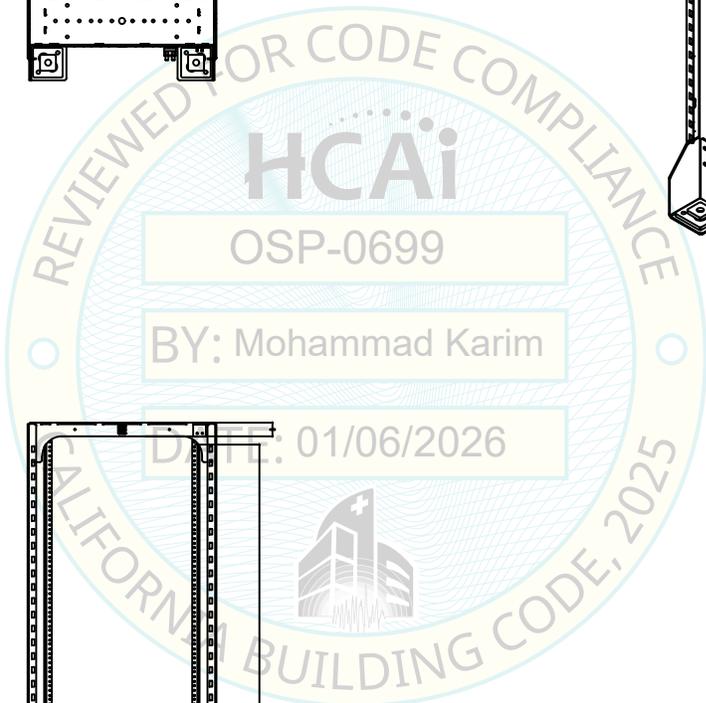
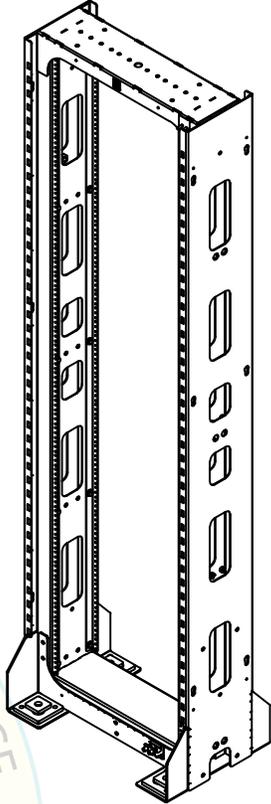
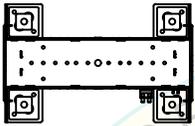


CPI now offers Extended Limited Warranties on CPI-Branded Electronic products, available for two additional years beyond the expiration of the Original Warranty Period (3 years).

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

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

CHATSWORTH 2-POST 13855-703



13853-X03
RACK,2P,SEI,19"W,12-24 MTG HOLES, 7'

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
- 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 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
- 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

Server & Network Enclosures

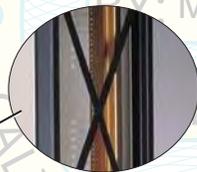
E2 Zone 4 Enclosure

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

E2Z48424301924B

Product	Cabinet Dimensions			EIA Mounting	Hole Style	Color
	Height	Width *	Depth			
E2Z4 Cabinet	60" (1524mm)	24" (609mm)	24" (609mm)	19" (482mm)	24 = #12-24 Tapped Holes SQ = Square Pierced Rails	A = Gray B = Black
	72" (1829mm)	29" (736mm)	26" (660mm)	23" (584mm)		
	78" (1981mm)		28" (711mm)			
	84" (2133mm)		30" (762mm)			

* 24" only available for 19" EIA
29" available for 19" or 23" EIA



Lateral Cross Bracing
Adds rigidity to cabinet in seismic situations.



Top Panel
Perforated for better ventilation and fan mounting. 3" (76mm) cable access holes provided in every cabinet. Solid and louvered styles are available.



#12-24 Tapped or Square Pierced Mounting Rail Options
Improves installment flexibility.



Heavy-Duty Side Panel Compression Latch
Ergonomic design is rugged and built to last.



Heavy Duty Corner Construction
Extra welded gusset plates maintain cabinet integrity in seismic situations.



Seismic Anchor Kit

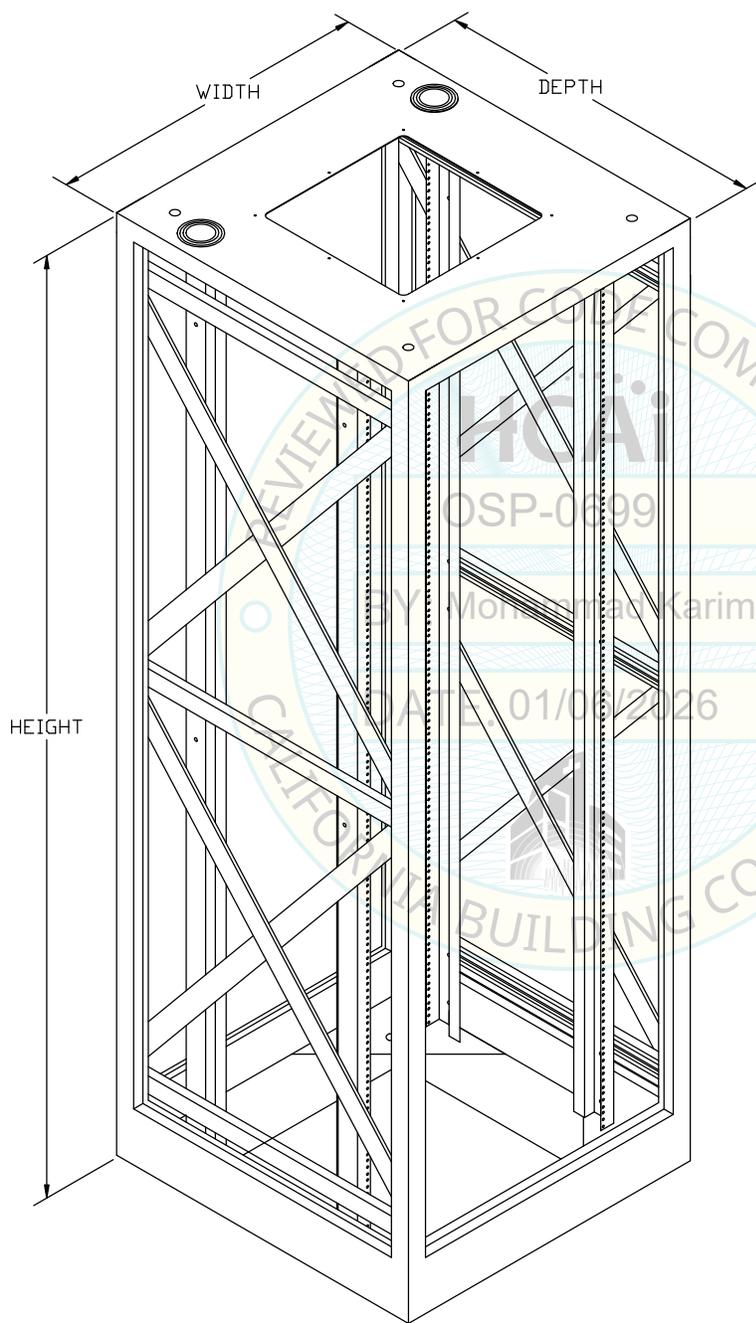


Server & network enclosures

E2Z48424301924B

E2-Z4-FD-722936-19-SQ-B

PRODUCT	CABINET DIMENSIONS			EIA MOUNTING	TAP	COLOR
Z4 = SEISMIC ZONE 4 HD = HEAVY DUTY FRAME ONLY	HEIGHT	WIDTH	DEPTH	19" 23"	SQ = IEC SQUARE HOLES 24 = #12-24 TAPPED HOLES	A = GRAY B = BLACK
	60" 72" 76" 84"	24" 29"	24" 26" 28" 30" 32" 36" 40" 42" 46"			

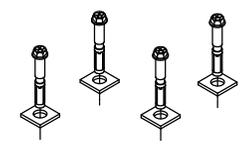


INCLUDES:

- (1) SEISMIC CABINET FRAME
- (4) ADJUSTABLE MOUNTING RAILS
- (1) SEISMIC ZONE 4 ANCHORING HARDWARE KIT

FEATURES:

- CONFORMS TO EIA-310-D
- TESTED IN ACCORDANCE WITH NEBS GR-63-CORE AND ANSI-TI.329. COMPLETE BELLCORE RESULTS AVAILABLE UPON REQUEST.
- TESTED TO 850 lbs. TOTAL SYSTEM WEIGHT.
- 5/8"-11 THREADS IN TOP CORNERS FOR LIFTING LUGS AND OVERHEAD EQUIPMENT ATTACHMENT
- TWO (2) PAIR OF HEAVY-DUTY "S" SHAPED #12-24 TAPPED OR (2) PAIR OF HEAVY-DUTY "L" SHAPED UNTAPPED MOUNTING RAILS.



 21000 EAST 32ND PARKWAY AURORA, COLORADO 80011 OFFICE: (303) 375-8000 FAX: (303) 375-8015	DWG. NO.	E2Z4FD		TITLE	E2 ZONE 4 SEISMIC FRAME ONLY CABINET		
	DRAWN BY	M. MCRAE		PROJECT	-		
	MATERIAL	12 GA CR STEEL FRAME		FINISH	SEE NOTES		
	DATE	03/16/99	SCALE	NTS	REVISION	A	SHEET 1 OF 1
	DWG. NO.	E2-Z4-FD-XXXXXX-XX-XX_S					

01/06/2026