OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)	**OFFICE USE ONLY**
	APPLICATION #: OSP – 0207 – 10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: ☐ New   ☒ Renewal

Manufacturer Information

Manufacturer: Ascom Wireless Solutions

Manufacturer's Technical Representative: Michael Potvin

Mailing Address: 9024 Town Center Parkway, Suite 100, Bradenton, FL 34202

Telephone: 941-724-8200   Email: Michael.potvin@ascom.com

Product Information

Product Name: Telligence

Product Type: Nurse Call System

Product Model Number: See attached Ascom Seismic Products OSHPD
(List all unique product identification numbers and/or part numbers)

General Description: The Telligence system patient-staff communications network is a distributed network-centric, Internet protocol-based architecture system. ***Approval is limited to maximum C.G. and weights, listed within tested units in OSP and for installations within wall or floor mounted racks, as listed at the end of OSP.***

Mounting Description: Units mounted, within both floor and wall racks, rigidly to structure.

Applicant Information

Applicant Company Name: Ascom Wireless Solutions

Contact Person: Michael Potvin

Mailing Address: 9024 Town Center Parkway, Suite 100, Bradenton, FL 34202

Telephone: 941-724-8200   Email: Michael.potvin@ascom.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

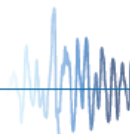Signature of Applicant: *Michael Potvin*   Date: 5/10/2019

Title: Regulatory Affairs Engineer   Company Name: Ascom Wireless Solutions

"Access to Safe, Quality Healthcare Environments that Meet California's

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY
OSH-FD-759 (REV 12/16/15)
"Equitable Healthcare Accessibility for California"
Page 1 of 3

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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: MRH Structural Engineers, Inc.

Name: Mohammad R. Hariri   California License Number: 3545

Mailing Address: 3400 Irvine Ave., Suite 101, Newport, CA 92660

Telephone: 714-633-6302   Email: Mrh_se@sbcglobal.net

Supports and Attachments Preapproval

☒   Supports and attachments are preapproved under OPM-   0249-13 (*Two-Post Floor Rack*: **Model 1385Y-X03**)
0196-13 (*Wall-Rack:* **Model 11840-X24**)
0196-13 (*Wall-Rack:* **Model 11890-X24**)

(Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)

☐   Supports and attachments are not preapproved

Certification Method

☒   Testing in accordance with: ☒   ICC-ES AC156

☐   Other (Please Specify):   _____

REVIEWED FOR CODE COMPLIANCE
OSHPD
OSP-0207-10
BY: Timothy J. Piland
DATE: 08/26/2019

Testing Laboratory

Company Name: Applied Technical Services, Inc.

Contact Name: David Common

Mailing Address: 1049 Triad Court, Marietta, Georgia 30062

Telephone: 770-423-1400   Email: davidc@atslab.com

Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: ☒ Yes ☐ No

Design Basis of Equipment or Components (F_p/W_p) = __1.70__

S_{DS} (Design spectral response acceleration at short period, g) = __2.27__

a_p (In-structure equipment or component amplification factor) = __2.5__

R_p (Equipment or component response modification factor) = __6.0__

Ω_0 (System overstrength factor) = __2.0__

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = __1__

Equipment or Component Natural Frequencies (Hz) = __See attachment__

Overall dimensions and weight (or range thereof) = __See attachment__

Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: ☐ Yes ☒ No

Design Basis of Equipment or Components (V/W) = _____

S_{DS} (Design spectral response acceleration at short period, g) = _____

S_{D1} (Design spectral response acceleration at 1 second period, g) = _____

R (Response modification coefficient) = _____

Ω_0 (System overstrength factor) = _____

C_d (Deflection amplification factor) = _____

I_p (Importance factor) = 1.5

Height to Center of Gravity above base = _____

Equipment or Component Natural Frequencies (Hz) = _____

Overall dimensions and weight (or range thereof) = _____

Tank(s) designed in accordance with ASME BPVC, 2015: ☐ Yes ☒ No

List of Attachments Supporting Special Seismic Certification

☒ Test Report(s)   ☐ Drawings   ☐ Calculations   ☒ Manufacturer's Catalog

☐ Other(s) (Please Specify): _____

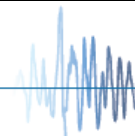**OSHPD Approval** (For Office Use Only) – **Approval Expires on December 31, 2022**

Signature: _____   Date: __August 26, 2019__

Print Name: __Timothy J. Piland__   Title: __SSE__

Special Seismic Certification Valid Up to : S_{DS} (g) = __2.27__ z/h = __1__

Condition of Approval (if applicable): _____

Approval is limited to maximum C.G. and weights, listed within tested units in OSP and for installations within wall or floor mounted racks, as listed at the end of OSP.

"Access to Safe, Quality Healthcare Environments that Meet California's

Ascom - Telligence Patient-Staff Communication Systems

Floor-Mounted Racks

Subcomponents	Manufacturer	Part #	Max. Loaded Weight (lbs)	S_{DS}	F_p/W_p	Testing Status
Seismic Frame Two-Post Rack	Chatsworth Products, Inc. (CPI)	13853-703	836	2.27	1.70	NTS Rpt. PR033240 ENV 1
Power Switch	Ascom	HC-IPSWITCH8		2.27	1.70	NTS Rpt. PR033240 ENV 1
Station Gateway	Ascom	NGGTWY2-H		2.27	1.70	NTS Rpt. PR033240 ENV 1
Smart-UPS 1500 VA	APC	SMT1500RM2UC		2.27	1.70	NTS Rpt. PR033240 ENV 1
Equipment Tie-Down Bracket	Chatsworth Products, Inc. (CPI)	11349-19		2.27	1.70	NTS Rpt. PR033240 ENV 1
20-Outlet Surge Power Strip	Chatsworth Products, Inc. (CPI)	12851-02		2.27	1.70	NTS Rpt. PR033240 ENV 1

Wall-Mounted Racks

Subcomponents	Manufacturer	Part #	Max. Weight (lbs)	S_{DS}	F_p/W_p	Testing Status
CUBE-iT Plus 24"Wx24"Hx24"D rack	Chatsworth Products, Inc. (CPI)	11840-724	139	2.27	1.70	NTS Rpt. PR033240 ENV 3
Power Switch	Ascom	HC-IPSWITCH8		2.27	1.70	NTS Rpt. PR033240 ENV 3
Station Gateway	Ascom	NGGTWY2-H		2.27	1.70	NTS Rpt. PR033240 ENV 3
Smart-UPS 1500 VA	APC	SMT1500RM2UC		2.27	1.70	NTS Rpt. PR033240 ENV 3
Equipment Tie-Down Bracket	Chatsworth Products, Inc. (CPI)	11349-19		2.27	1.70	NTS Rpt. PR033240 ENV 3
Horiz. Cable Management Bar	Chatsworth Products, Inc. (CPI)	11837-01		2.27	1.70	NTS Rpt. PR033240 ENV 3
12-RMU Mounting Rails	Chatsworth Products, Inc. (CPI)	12787-524		2.27	1.70	NTS Rpt. PR033240 ENV 3
8-Outlet 15A Surge Power Strip	Chatsworth Products, Inc. (CPI)	12848-02		2.27	1.70	NTS Rpt. PR033240 ENV 3
CUBE-iT Plus 24"Wx24"Hx18"D rack	Chatsworth Products, Inc. (CPI)	11890-724	151	2.27	1.70	ATS Rpt. 309082 ENV2
Station Gateway	Ascom	NGGTWY2-H		2.27	1.70	ATS Rpt. 309082 ENV2
Power Switch	Ascom	HC-IPSWITCH8		2.27	1.70	ATS Rpt. 309082 ENV2
Smart-UPS SC 450VA	APC	SC450RM1UC		2.27	1.70	ATS Rpt. 309082 ENV2
PoE Switch	Cisco	WS-3560CX-8PC-S		2.27	1.70	ATS Rpt. 309082 ENV2
8-Outlet 15A Surge Power Strip	Chatsworth Products, Inc. (CPI)	12820-701		2.27	1.70	ATS Rpt. 309082 ENV2

Ascom Telligence Patient -Staff Communication Systems

Floor-Mounted Racks

Sub- Components	Manufacturer	Part#	Max. Loaded Weights(lbs)	SDS	Fp/Wp	Testing Status
Seismic Frame Two-Post Rack	Chatsworth Products	13853-703	836	2.27	1.70	NTS Rpt. PR033240 ENV1
Power Switch	Ascom	HC-IPSWITCH8		2.27	1.70	NTS Rpt. PR033240 ENV1
Station Gateway	Ascom	NGGTWY2-H		2.27	1.70	NTS Rpt. PR033240 ENV1
Smart-UPS 1500VA	APC	SMT1500RM2UC		2.27	1.70	NTS Rpt. PR033240 ENV1
Equipment Tie-Down Bracket	Chatsworth Products	11349-19		2.27	1.70	NTS Rpt. PR033240 ENV1
20-Outlet Surge Power Strip	Chatsworth Products	12851-02		2.27	1.70	NTS Rpt. PR033240 ENV1

Test Report PR033240 Rev. 1 – ENV 1
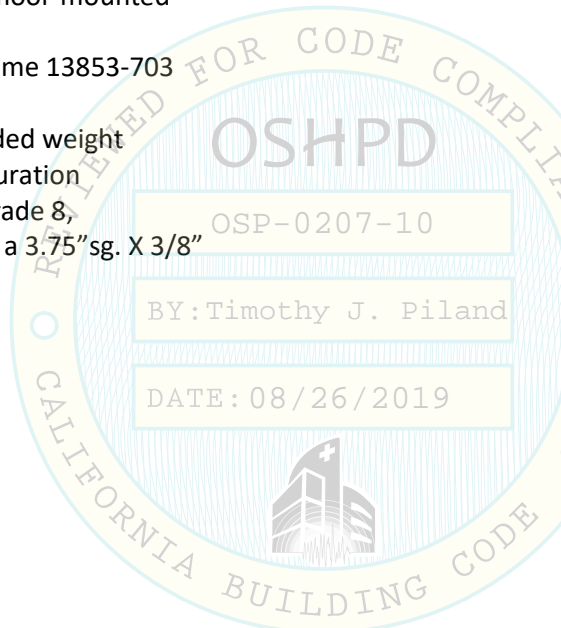Ascom Telligence Nurse Call System, floor-mounted rack
Chatsworth Products, Inc. Seismic Frame 13853-703
Two-Post Rack: 24"W x 15"D x 84"H
Weight: 836 lbs, including 711 lbs added weight
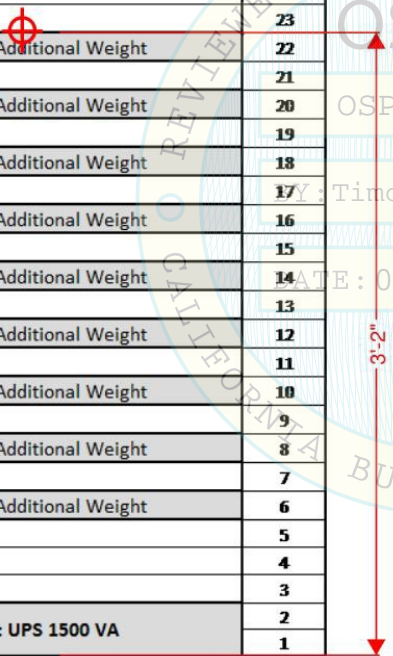See following page for loading configuration
Floor Mounted with (4) – ½" bolts, Grade 8,
2" sq. X 3/8" (A36) plate washer atop a 3.75"sg. X 3/8"
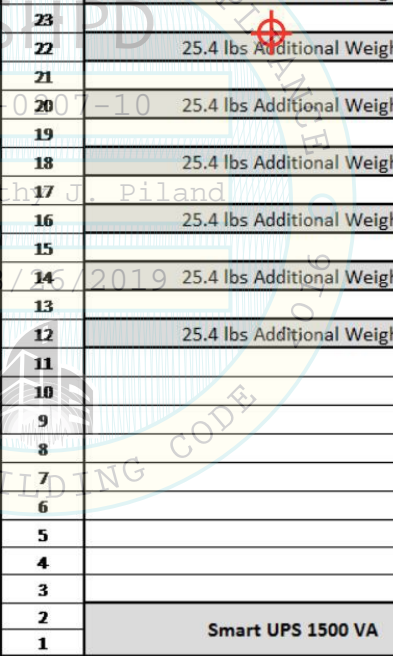(ASTM 1018, 20KSI) plate washer.

Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal		Vertical	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	ICC-ES AC 156	2.27	1	3.63	2.72	1.51	0.61

Natural Frequencies			Test Results				
F-B	S-S	V	The UUT maintained structural integrity and functionality after the AC156 test. Unit full of contents.				
9.5 Hz	6.8 Hz	> 33 Hz					

Test Configuration – ENV 1

Front View (rack units 1–47):

U	Front View
47–46	Power Switch
45–44	Station Gateway
43	
42	25.4 lbs Additional Weight
41	
40	25.4 lbs Additional Weight
39	
38	25.4 lbs Additional Weight
37	
36	25.4 lbs Additional Weight
35	
34	
33	
32	
31	
30	
29	
28	
27	
26	
25	
24	
23	
22	25.4 lbs Additional Weight
21	
20	25.4 lbs Additional Weight
19	
18	25.4 lbs Additional Weight
17	
16	25.4 lbs Additional Weight
15	
14	25.4 lbs Additional Weight
13	
12	25.4 lbs Additional Weight
11	
10	25.4 lbs Additional Weight
9	
8	25.4 lbs Additional Weight
7	
6	25.4 lbs Additional Weight
5	
4	
3	
2–1	Smart UPS 1500 VA

Front View

Back View (rack units 1–47):

U	Back View
47–46	Power Switch
45–44	Station Gateway
43	
42	25.4 lbs Additional Weight
41	
40	25.4 lbs Additional Weight
39	
38	
37	
36	25.4 lbs Additional Weight
35	
34	25.4 lbs Additional Weight
33	
32	25.4 lbs Additional Weight
31	
30	25.4 lbs Additional Weight
29	
28	25.4 lbs Additional Weight
27	
26	25.4 lbs Additional Weight
25	
24	25.4 lbs Additional Weight
23	
22	25.4 lbs Additional Weight
21	
20	25.4 lbs Additional Weight
19	
18	25.4 lbs Additional Weight
17	
16	25.4 lbs Additional Weight
15	
14	25.4 lbs Additional Weight
13	
12	25.4 lbs Additional Weight
11	
10	
9	
8	
7	
6	
5	
4	
3	
2–1	Smart UPS 1500 VA

Back View

Center of gravity dimension shown: 3'-2"

Center of gravity is approximately located at 38" from the base.
Certified Components are to be positioned as shown.

Protecting your technology investment.

See following pages for certified rack model number & fasteners

SeismicFrame® Two-Post Rack

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

California
OSHPD
OPM-0112-13

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

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
Equipment Space	Height: 44U
	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
	Includes 50 each mounting screws or cage nuts and mounting screws
Load Capacity	1000 lb (453.6 kg) of equipment in seismic areas
Bonding and Grounding	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

US & Canada
+1-800-834-4969
Toronto, Ontario, Canada
+905-850-7770
chatsworth.com
techsupport@chatsworth.com

Latin America
+52-55-5203-7525
Toll Free within Mexico
01-800-01-7592
chatsworth.com.co

Europe
+44-1628-524-834
chatsworthproducts.co.uk

Middle East & Africa
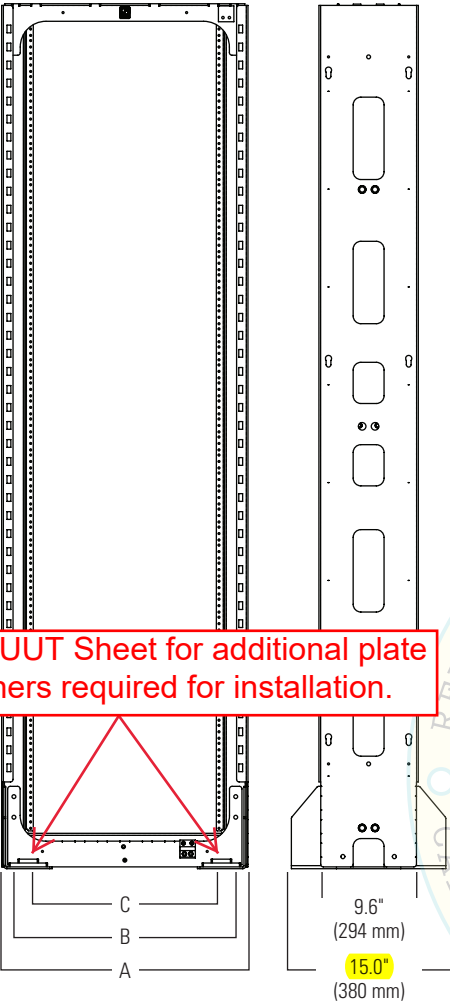Dubai, UAE
+971-4-2602125
chatsworth.ae

Asia Pacific
+86 21 6880-0266
chatsworth.com.cn

CPI
CHATSWORTH PRODUCTS

DIMENSIONS

See UUT Sheet for additional plate washers required for installation.

9.6" (294 mm)

15.0" (380 mm)

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 M12 x 5-1/8" Hilti HSL-3-G Heavy Duty Sleeve Anchors or equivalent
	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.
	Minimum recommended thickness of the concrete slab on the ground floor is 5-1/2" (140 mm)
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

13853-703 for UUT-1 is the only floor mounted rack certified for use within OSP-0207-10

ORDERING INFORMATION

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
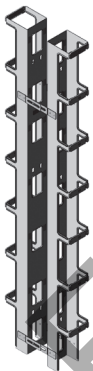*- Evolution® Cable Management and MCS-EFX Master Cabling Section with Extended Fingers will also attach to the side of the rack*
Shelves:
- Use CPI Heavy Duty Equipment Shelf for 6" (150 mm) Channel with the rack's mounting rails set 6" (150 mm) apart
- When rails are set 3" W (80 mm) apart, the maximum 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

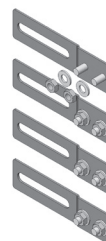**SeismicFrame Two-Post Rack Vertical Cabling Section**
Provide a double-sided, front and rear cable pathway next to SeismicFrame Two-Post Rack.
• Separate front and rear 6"W x 6.38"D (150 mm x 162 mm) cable managers attach with included offset brackets to align with the front and rear of the rack
• 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

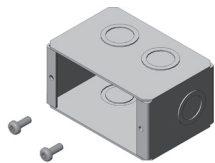| SeismicFrame® Two-Post Rack Accessories		
Part Number	Description	Shipping Weight lb (kg)
13704-X03	VCS Vertical Cabling Section	35 (15.9)
13696-001	Cable Management Fingers Kit, Single-Sided, Black	7 (3.2)
13696-002	Cable Management Fingers Kit, Double-Sided, Black	14 (6.4)
13699-701	VCS Offset Mounting 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

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

SeismicFrame Two-Post Rack Concrete Floor Anchor Kit

Attach SeismicFrame Two-Post Rack to a concrete slab floor.

- Includes four M12 x 5-1/8" Hilti HSL-3-G Heavy Duty Sleeve Anchors
- When bayed in a continuous row, spacing between racks should be determined by a licensed engineer familiar with seismic applications and codes.
- Minimum recommended thickness of the concrete slab on the ground floor is 5-1/2" (140 mm)

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

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

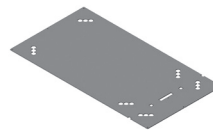| SeismicFrame® Two-Post Rack Accessories		
Part Number	**Description**	**Shipping Weight lb (kg)**
13697-001	Vertical Power Strip Mounting Kit, Clear	1 (0.5)
13698-001	Duplex Electrical Outlet Box, Zinc	1 (0.5)
13702-001	Concrete Floor Anchor Kit, Zinc-Plated	3 (1.4)
13703-701	Floor Drilling Template, 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.

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

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.

CHATSWORTH PRODUCTS

Wall - Mount Rack – ENV2						
Sub- Components	Manufacturer	Part#	Max. Loaded Weights(lbs)	SDS	Fp/Wp	Testing Status
Cube-iT Plus 24"Wx24"Hx18"D Rack	Chatsworth Products	11890-724	151	2.27	1.70	ATS Rpt. 309082 ENV2
Station Gateway	Ascom	NGGTWY2-H		2.27	1.70	ATS Rpt. 309082 ENV2
Power Switch	Ascom	HC-IPSWITCH8		2.27	1.70	ATS Rpt. 309082 ENV2
PoE Switch	Cisco	WS-3560CX-8PC-S		2.27	1.70	ATS Rpt. 309082 ENV2
Smart-UPS 450VA	APC	SC450RM1U		2.27	1.70	ATS Rpt. 309082 ENV2
8-Outlet 15A Surge Power Strip	Chatsworth Products	12820-701		2.27	1.70	ATS Rpt. 309082 ENV2

Test Report 309082 – ENV 2

Ascom Telligence Nurse Call System, wall-mounted rack
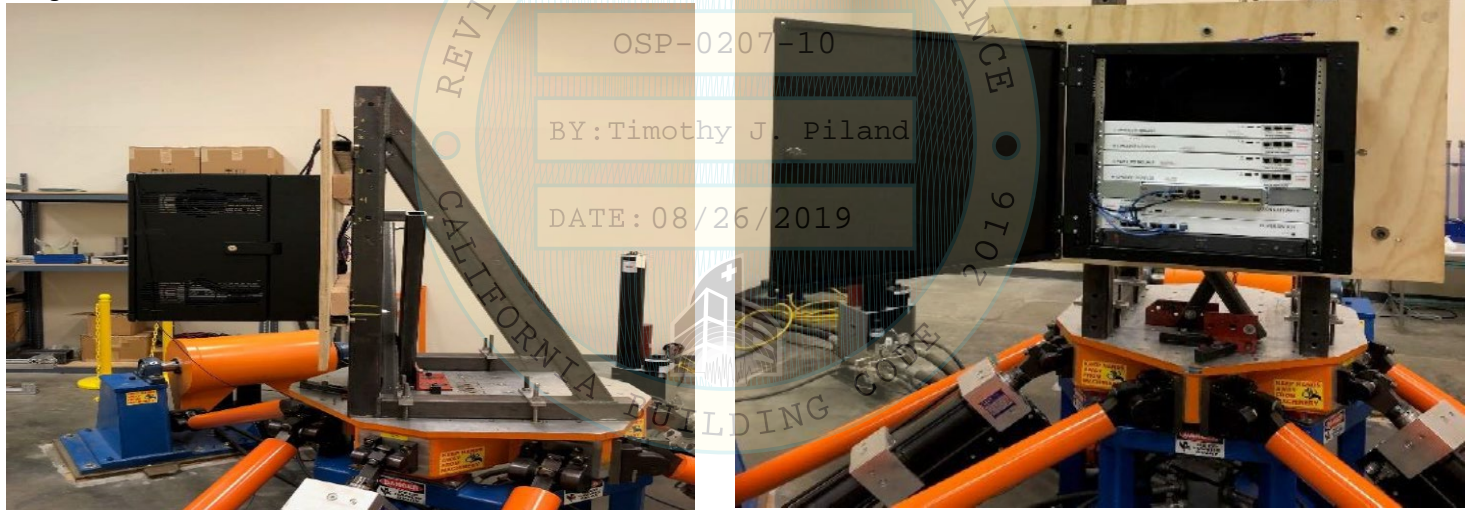Chatsworth Products, Inc. Cube-iT 11890-724
Wall-mtd. cabinet: 24"W x 18"D x 24"H
Qty. (6) – 5/16"x1.5" long Lag screws- ¾", Plywood Backboard
Per CUBE-iT_WALL_IIS-Cut sheet –IIS-740900
Wall mounted with Mounting kit shipped with Rack/Cabinet
Weight 151 lbs

				Horizontal		Vertical	
Building Code	**Test Criteria**	**S$_{DS}$ (g)**	**z/h**	**A$_{FLX-H}$**	**A$_{RIG-H}$**	**A$_{FLX-V}$**	**A$_{RIG-V}$**
CBC 2016	ICC-ES AC 156	2.27	1	3.64	2.73	1.53	0.62

Natural Frequencies			**Test Results**
F-B	**S-S**	**V**	The UUT maintained structural integrity and functionality after the AC156 test. Unit full of contents.
n/a	n/a	n/a	

Note: components are at bottom of the rack.

Z_{CG} = 9.9"

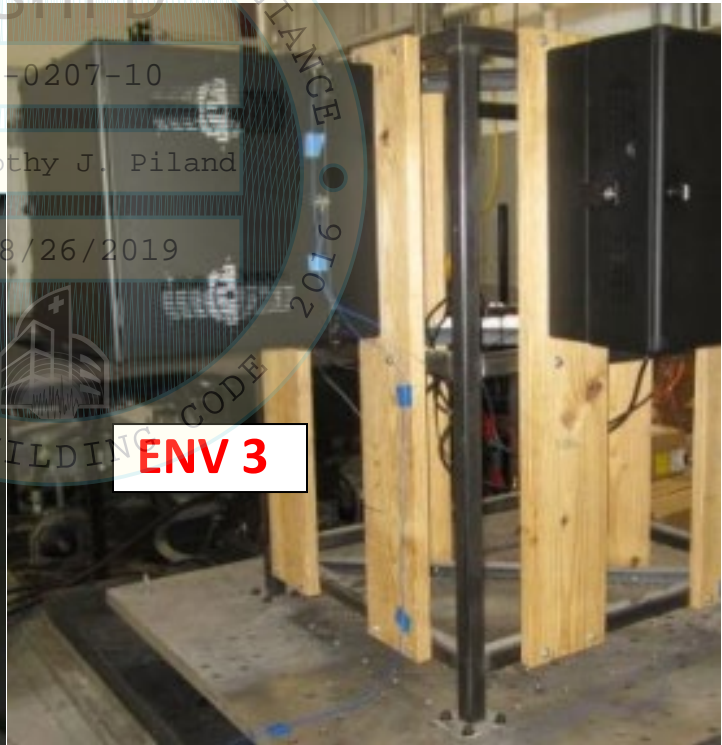|		Wall - Mount Rack-ENV3				
Sub- Components	Manufacturer	Part#	Max. Loaded Weights(lbs)	SDS	Fp/Wp	Testing Status
Cube-iT Plus 24"Wx24"Hx24"D Rack	Chatsworth Products	11840-724	139	2.27	1.70	NTS Rpt. PR033240 ENV3
Power Switch	Ascom	HC-IPSWITCH8		2.27	1.70	NTS Rpt. PR033240 ENV3
Station Gateway	Ascom	NGGTWY2-H		2.27	1.70	NTS Rpt. PR033240 ENV3
Smart-UPS 1500VA	APC	SMT1500RM2UC		2.27	1.70	NTS Rpt. PR033240 ENV3
Equipment Tie-Down Bracket	Chatsworth Products	11349-19		2.27	1.70	NTS Rpt. PR033240 ENV3
Horiz. Cable Management Bar	Chatsworth Products	11837-01		2.27	1.70	NTS Rpt. PR033240 ENV3
12-RMU Mounting Rails	Chatsworth Products	12787-524		2.27	1.70	NTS Rpt. PR033240 ENV3
8-Outlet 15A Surge Power Strip	Chatsworth Products	12848-02		2.27	1.70	NTS Rpt. PR033240 ENV3

Test Report PR033240 Rev. 1 – ENV 3
Ascom Telligence Nurse Call System, wall-mounted rack
Chatsworth Products, Inc. Cube-iT 11840-724
Wall-mtd. cabinet: 24"W x 24"D x 24"H
Wall Mounted with (6) – ¼", 2.5"-long lag bolts
Weight: 139 lbs, including 60 lbs added weight

ENV 3

Note: components are at bottom of the rack.
Weights are mounted mid-height.
Z_{CG} = 11.5"

Wall Mounted with (6) – ¼", 2.5"-long lag bolts

Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal		Vertical	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	ICC-ES AC 156	2.27	1	3.63	2.72	1.51	0.61

Natural Frequencies			Test Results
F-B	S-S	V	
n/a	n/a	n/a	The UUT maintained structural integrity and functionality after the AC156 test. Unit full of contents.

CUBE-iT™ Wall-Mount Cabinet

CUBE-iT™ Wall-Mount Cabinet provides a secure, easy-to-install, swing-out storage solution for information and communications technology (ICT) equipment. Attractive design, security features and range of optional fan kits make it ideal for public areas or equipment rooms with limited floor space.

See following pages for certified wall rack model numbers & fasteners

KEY FEATURES

- Three-part, swing-out design allows access and service to the front and rear of equipment

- A single lock and key (CH751) on the front door provides access to the entire cabinet

- Rear panel includes 1" (25.4 mm) and 3" (76 mm) knockouts, and can accept 3/4" (19 mm) and 2.5" (63.5 mm) conduit. The 3" (76 mm) knockouts include edge-protection grommets

- Rear panel features cable tie and attachment points for accessory rack-mount brackets

- UL® 2416 Listed, 300 lb (136 kg) load rating

- Internal latch mechanism secures the rear panel; slim-profile does not impact cabling space

- Hinge design allows the installer to remove the rear panel for easier installation on the wall

- Cabinet body includes one pair of adjustable depth 19" EIA threaded equipment mounting rails

- Cable pass-through knockout with optional brush seal makes it ideal for retrofit installations

- Optional low-decibel (31 dB), dual-fan kit provides quiet operation while cooling equipment

- Factory-prepped bonding feature provides convenience and reduces installation time

- Ships fully assembled

ADVANTAGES

Easy Access to Equipment
- Three-part, swing-out design enables easy access to the front and rear of installed equipment

Modern, Sleek Design
- Attractive design with multiple door styles and colors make it suitable for use in public areas outside of telecommunications rooms
- Low-decibel, dual-fan kit option provides quiet operation while keeping active equipment cool

Retrofit Capability
- Removable top and bottom rear panels with a rectangular knockout are perfect for retrofit deployments over existing equipment and cabling

Increased Security
- A single lock and key on the front door provides access to the cabinet; the rear section is only accessible via an internal latch inside the front door

High Load Rating
- 300 lb (136 kg) UL 2416 Listed load rating supports heavier equipment

Cable Management Features and Options
- A host of optional cable management accessories help keep cables neat and organized

SPECIFICATIONS

Description	Wall-mount enclosure with lockable front door and swing-out rear access to equipment
Use	For indoor use only, in environmentally controlled areas; may not be used outdoors, in harsh environments, or in air-handling spaces
Available Sizes	• Heights: 24" (610 mm), 36" (910 mm) and 48" (1220 mm) • Widths: 24" (610 mm); 19" EIA rack-mount • Depths: 18" (460 mm), 24" (610 mm), 30" (760 mm)
Usable Interior Space	• Heights: 12U, 19U, 26U • Widths: 19" EIA rack-mount • Depths: refer to dimensional drawings on page 2
Cable Access	• (8) 1" (25.4 mm) and 3" (76 mm) knockouts, 4 top/4 bottom. Knockouts can accept 3/4" (19 mm) or 2.5" (63.5 mm) conduit • (4) Edge-protection grommets are included for the 3" (76 mm) knockouts • Removable top/bottom panel on rear panel *Can't remove while under load; must remove center chassis • (1) Rectangular knockout, 9"W x 2.2"D (230 mm x 55 mm)
Equipment Support	(1) Pair L-shaped equipment mounting rails in the main cabinet body • 19"W, EIA-310-D compliant • Universal hole pattern, 5/8"-5/8"-1/2" vertical hole spacing • Threaded #12-24 equipment mounting holes • 5"D (130 mm) rear panel punched to accept accessory equipment mounting brackets, see dimensional drawings on page 2 • Includes 50 each #12-24 equipment mounting screw

Global Availability

US & Canada
+1-800-834-4969
Toronto, Ontario, Canada
+1-905-850-7770
chatsworth.com
techsupport@chatsworth.com

Latin America
+52-55-5203-7525
Toll Free within Mexico
01-800-01-7592
chatsworth.com.co

Europe
+44-1628-524-834
chatsworth.com

Middle East & Africa
Dubai, UAE
+971-4-2602125
chatsworth.ae

Asia Pacific
+86 21 6880-0266
chatsworth.com.cn

CPI
CHATSWORTH PRODUCTS

ORDERING INFORMATION:

CUBE-iT Wall-Mount Cabinets
- Attaches to the wall with included installation hardware
- Available in 12U, 19U and 26U heights, with solid metal or tempered glass door
- All cabinet styles are 24"W (610 mm)
- Includes CH751 keyed lock

11890-724 for UUT-2 & 11840-724 for UUT-3 are the only two (2) wall racks certified for use within OSP-0207-10

Part Number	Cabinet Depth	Door Style	Shipping Weight lb (kg)
24"H (610 mm) CUBE-iT Cabinet			
11890-X24	18" (460 mm)	Solid	90 (40.9)
11901-X24	18" (460 mm)	Tempered Glass	90 (40.9)
11840-X24	24" (610 mm)	Solid	101 (45.9)
11900-X24	24" (610 mm)	Tempered Glass	101 (45.9)
11996-X24	30" (760 mm)	Solid	112 (50.9)
12419-X24	30" (760 mm)	Tempered Glass	112 (50.9)
36"H (910 mm) CUBE-iT Cabinet			
11890-X36	18" (460 mm)	Solid	114 (51.8)
11901-X36	18" (460 mm)	Tempered Glass	114 (51.8)
11840-X36	24" (610 mm)	Solid	128 (58.2)
11900-X36	24" (610 mm)	Tempered Glass	128 (58.2)
11996-X36	30" (760 mm)	Solid	142 (64.5)
12419-X36	30" (760 mm)	Tempered Glass	142 (64.5)
48"H (1220 mm) CUBE-iT Cabinet			
11890-X48	18" (460 mm)	Solid	139 (63.2)
11901-X48	18" (460 mm)	Tempered Glass	139 (63.2)
11840-X48	24" (610 mm)	Solid	155 (70.5)
11900-X48	24" (610 mm)	Tempered Glass	155 (70.5)
11996-X48	30" (760 mm)	Solid	171 (77.7)
12419-X48	30" (760 mm)	Tempered Glass	171 (77.7)

Note: X=Color; 7=Black and E=Glacier White

P/N 11900-724 shown

See next page for fasteners

ACCESSORIES:

Standard Fan and Filter Kit for CUBE-iT Wall-Mount Cabinet
- Pressurizes interior of the cabinet, forcing warm air out of open vents
- Assembly Includes 1 fan, 1 filter, and 1 vent cover
- Noise Level: 39 dB (measured at 3' (1 m) distance)
- Airflow: 115 CFM (170 CMH)
- 6'L (1.8 m) NEMA 5-15P/6-15P Power Cord

Part Number	Description	Shipping Weight lb (kg)
40972-001	115 Volt, 50/60 Hz, 5-15P power cord	2 (0.8)
40972-002	230 Volt, 50/60 Hz, 6-15P Power cord	2 (0.8)
40973-001	Replacement Filter Kit, Pack of 5	2 (0.8)

Vertical Cabling Section for CUBE-iT Wall-Mount Cabinet
- Attaches to the outside edge of equipment mounting rails
- 4U height; openings align with rack-mount unit spaces on equipment mounting rails
- Sold in pairs
- Order additional kits as-needed per cable management requirements

Part Number	Description	Shipping Weight lb (kg)
40970-704	4U, 7"H x 0.5"D (178 mm x 13 mm)	3 (1.4)
40970-707	7U, 12.3"H x 0.5"D (311 mm x 13 mm)	3 (1.4)
40970-711	11U, 19.3"H x 0.5"D (489 mm x 13 mm)	4 (1.8)

Color is black.

Low-Decibel Dual-Fan and Filter Kit for CUBE-iT Wall-Mount Cabinet
- Pressurizes interior of the cabinet, forcing warm air out of open vents
- Assembly Includes 2 fans and 2 filters
- Noise Level: 31 dB (measured at 3' (1 m) distance)
- Recommended placement on bottom right and left sides of the cabinet
- Airflow: 120 CFM (204 CMH)
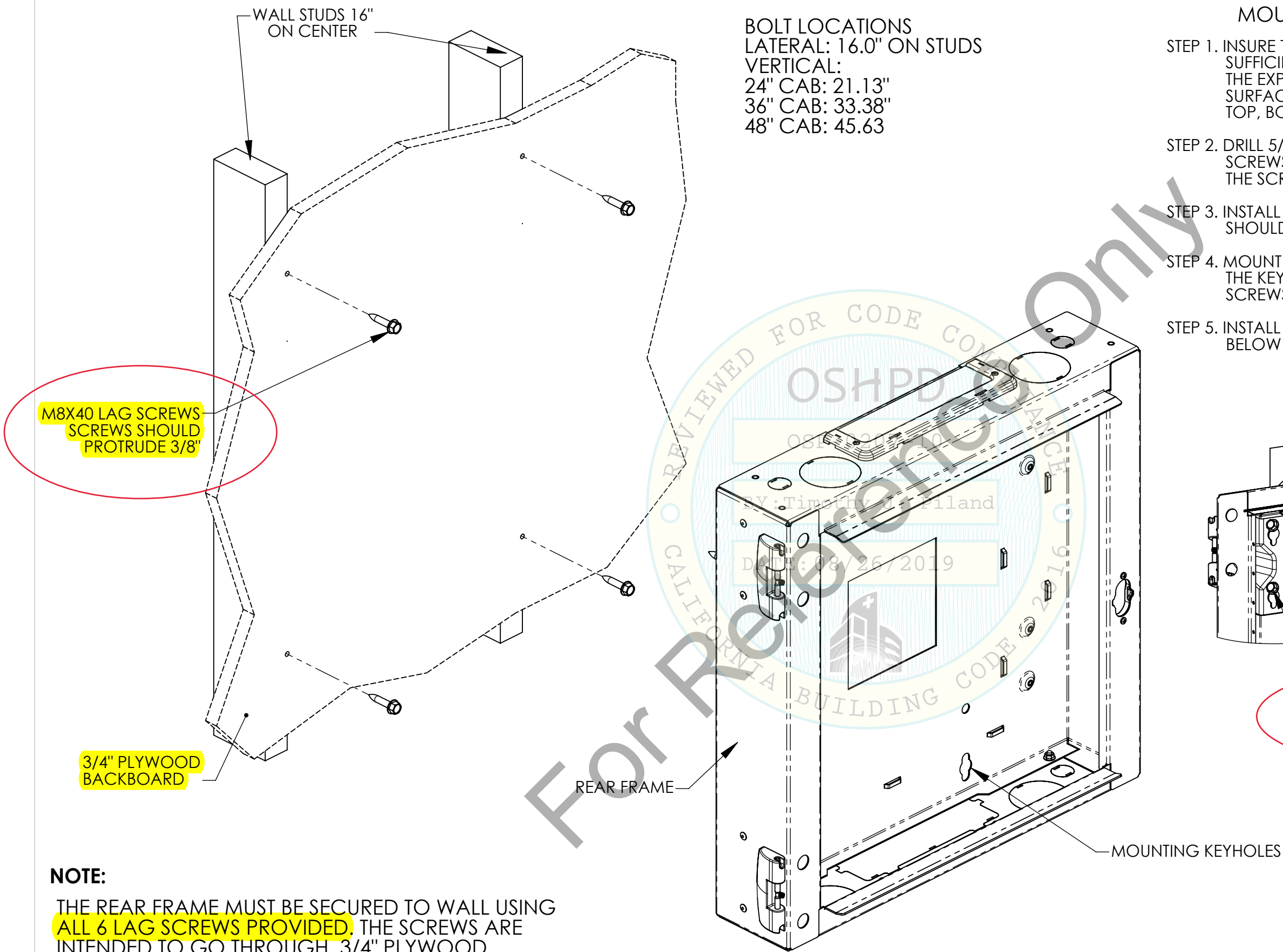- 6'L (1.8 m) NEMA 5-15P/6-15P Power Cord

Part Number	Description	Shipping Weight lb (kg)
40975-001	115 Volt, 50/60 Hz, 5-15P power cord	4 (1.8)
40975-002	230 Volt, 50/60 Hz, 6-15P Power cord	4 (1.8)
40973-001	Replacement Filter Kit, Pack of 5	2 (0.8)

Vertical Lashing Bracket for CUBE-iT Wall-Mount Cabinet
- Provides multiple lashing points for premise cables
- Attaches to center chassis with included hardware
- Adjustable front-to-rear

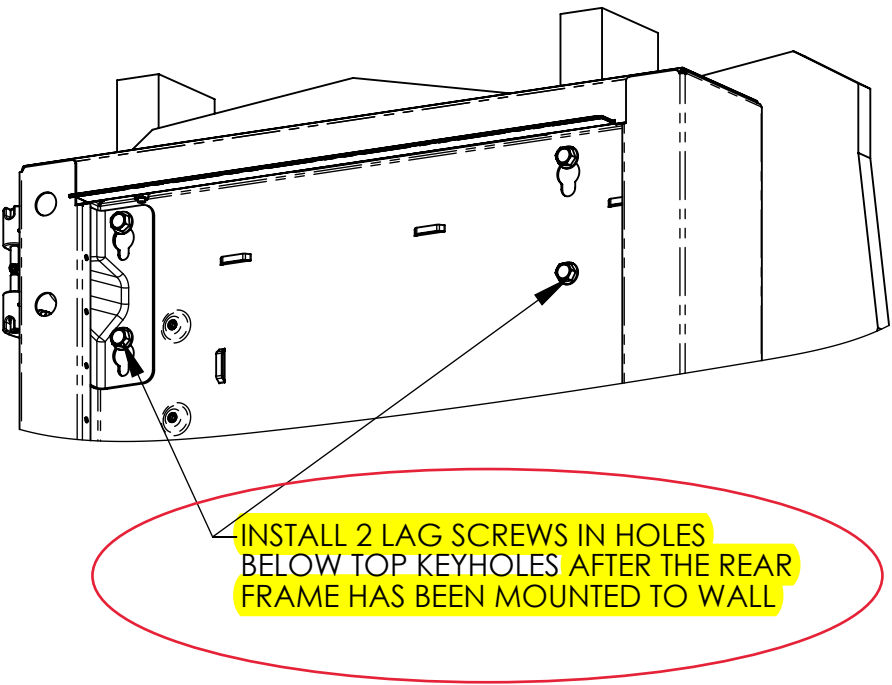| Part Number	Description	Shipping Weight lb (kg)
40971-X24	24"H x 4"W (610 mm x 100 mm)	4 (1.8)
40971-X36	36"H x 4"W (910 mm x 100 mm)	6 (2.7)
40971-X48	48"H x 4"W (1220 mm x 100 mm)	8 (3.6)

Note: X=Color; 7=Black and E=Glacier White

WALL STUDS 16"
ON CENTER

BOLT LOCATIONS
LATERAL: 16.0" ON STUDS
VERTICAL:
24" CAB: 21.13"
36" CAB: 33.38"
48" CAB: 45.63"

MOUNTING REAR PANEL TO WALL

STEP 1. INSURE THAT THE WALL OR MOUNTING SURFACE HAS
SUFFICIENT STRENGTH TO SUPPORT THE CABINET AND
THE EXPECTED CABINET PAYLOAD. THE MOUNTING
SURFACE MUST ALSO BE FLAT AND EXTEND BEYOND THE
TOP, BOTTOM, LEFT, AND RIGHT EDGES OF THE REAR PANEL.

STEP 2. DRILL 5/32" PILOT HOLES FOR THE FOUR M5X40mm LAG
SCREWS TO THE DIMENSIONS SHOWN ON THE DRAWING.
THE SCREWS SHOULD GO DIRECTLY INTO THE WALL STUDS.

STEP 3. INSTALL THE LAG SCREWS INTO THE HOLES. THE SCREW HEAD
SHOULD PROTRUDE ABOUT 3/8" FROM THE WALL.

STEP 4. MOUNT THE REAR FRAME TO THE WALL BY HOOKING
THE KEYHOLES OVER THE SCREWS. TIGHTEN THE
SCREWS SECURELY.

STEP 5. INSTALL THE REMAINING 2 LAG SCREWS IN THE HOLES
BELOW THE TOP TWO KEYHOLES.

M8X40 LAG SCREWS
SCREWS SHOULD
PROTRUDE 3/8"

3/4" PLYWOOD
BACKBOARD

REAR FRAME

INSTALL 2 LAG SCREWS IN HOLES
BELOW TOP KEYHOLES AFTER THE REAR
FRAME HAS BEEN MOUNTED TO WALL

MOUNTING KEYHOLES

NOTE:

THE REAR FRAME MUST BE SECURED TO WALL USING
ALL 6 LAG SCREWS PROVIDED. THE SCREWS ARE
INTENDED TO GO THROUGH 3/4" PLYWOOD
BACK-BOARD AND THEN INTO WOOD WALL STUDS.
FOR MASONRY SURFACE, THE INSTALLER MUST
PROVIDE APPROPRIATE HARDWARE.

SHEET 2