



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

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

OFFICE USE ONLY	
APPLICATION #:	OSP – 0179

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Hill-Rom Inc.

Manufacturer's Technical Representative: Phillip Maloney

Mailing Address: 1225 Crescent Green, Suite 300, Cary NC 27518

Telephone: (919) 854-3319 Email: Phillip.maloney1@hill-rom.com

Product Information

Product Name: Navicare Nurse Call Equipment, Control and Power

Product Type: Nurse Call System

Product Model Number: See Certified Product Listing Tables
(List all unique product identification numbers and/or part numbers)

General Description: Nurse call components in wall or floor mounted racks. Seismic enhancements made to the test units to address anomalies observed during the tests shall be incorporated into the production units.

Mounting Description: Base Mounted Rigid or Wall Mounted Rigid

Applicant Information

Applicant Company Name: TRU Compliance, by Structural Integrity Associates, Inc.

Contact Person: Galen Reid

Mailing Address: 5215 Hellyer Ave., Suite 210, San Jose, CA 95138

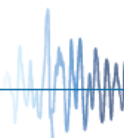
Telephone: (844) 878-0200 Email: g Reid@structint.com

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:  Date: 9/12/2019

Title: Senior Engineer Company Name: TRU Compliance, by Structural Integrity Associates, Inc.

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





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

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

Company Name: TRU Compliance, by Structural Integrity Associates, Inc.

Name: Andrew M. Coughlin SE California License Number: S6082

Mailing Address: 5215 Hellyer Ave., Suite 210, San Jose, CA 95138

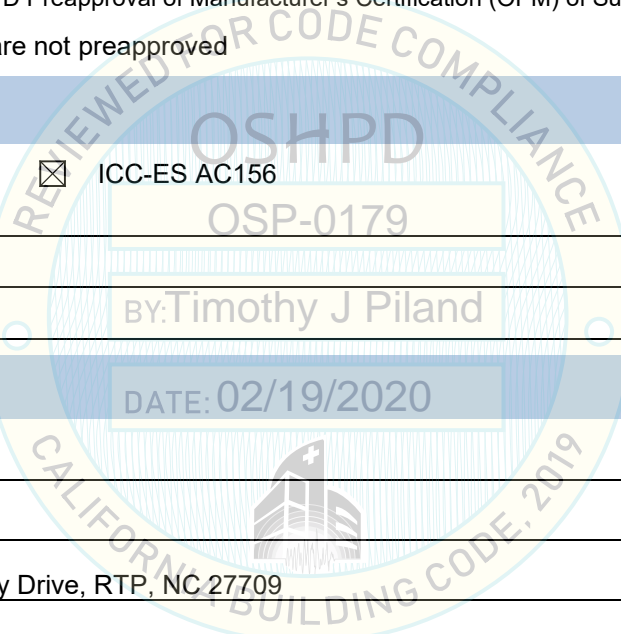
Telephone: (844) 878-0200 Email: acoughlin@structint.com

Supports and Attachments Preapproval

- Supports and attachments are preapproved under OPM- _____
(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): _____



Testing Laboratory

Company Name: UL LLC

Contact Name: Chris Rose

Mailing Address: 12 Laboratory Drive, RTP, NC 27709

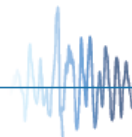
Telephone: (919) 549-1713 Email: Christopher.s.rose@us.ul.com

Company Name: NTS Fullerton

Contact Name: Ratish Rao

Mailing Address: 1536 East Valencia Dr., Fullerton, CA 92831

Telephone: (714) 879-6110 Email: Ratish.rao@nts.com





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

Seismic Parameters

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

Design Basis of Equipment or Components (F_p/W_p) = 1.71

S_{DS} (Design spectral response acceleration at short period, g) = 2.28

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

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): Attachment

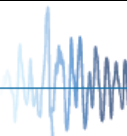
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2025

Signature: Date: February 19, 2021

Print Name: Timothy J. Piland Title: SSE

Special Seismic Certification Valid Up to: S_{DS} (g) = 2.28 z/h = 1

Condition of Approval (if applicable): _____



SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1900774-CR-001 R0

Hill-Rom



Manufacturer: Hill-Rom Inc. Model Line: Nurse Call Equipment, Control and Power						TABLE 1	
Certified Product Construction Summary: NEMA 1, 14ga. Carbon Steel with Aluminum rails and Carbon steel front door.							
Certified Options Summary: See table 3 for certified subcomponents.							
Mounting Configuration: Wall mounted - rigid Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code: CBC 2019		Seismic Certification Limits:				$S_{DS} = 2.0 g$ $z/h = 1.0$ $S_{DS} = 2.0 g$ $z/h = 0.0$	$I_p = 1.5$
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
NaviCare/Voalte Nurse Call Equipment, Control and Power	Rack - 26RU	30	24	48	403		1A,10
	Rack - 12RU	30	24	24	208		3,12
	Room Box Enclosure	4.3	12	12	8.5	Room Box Enclosure to P2599NNCX	1B,6
	Low Profile Enclosure for Room Control Boards Version 1 (RCB 1)	1.6	8	9	5		2B
	Low Profile Enclosure for Room Control Boards Version 2 (RCB 2)	1.6	8	9	5		5
	Low Profile Enclosure for Room Control Boards Version 3 (RCB 3)	1.6	8	9	2.1	Low Profile Wallmount	8

**SPECIAL SEISMIC CERTIFICATION
CERTIFIED COMPONENT MATRIX**

1900774-CR-001 R0



Manufacturer: Hill-Rom Inc.
Model Line: Nurse Call Equipment, Control and Power

TABLE 2

Certified Product Construction Summary:
 Carbon steel interior frame w/ aluminum outer frame and rails.

Certified Options Summary:
 See Table 4 for certified subcomponents.

Mounting Configuration:
 Floor mounted - rigid
 Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2019
Seismic Certification Limits: $S_{DS} = 2.0 g$ $z/h = 1.0$ $I_p = 1.5$
 $S_{DS} = 2.0 g$ $z/h = 0.0$

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
NaviCare/Voalte Nurse Call Equipment, Control and Power	Floor 4 Post Cabinet, Seismic Frame (CF) 43 RMU	36	27	84	735		2A,7,9,11
	Floor 2 Post Rack, Seismic Frame; 44 RMU	9.5	24	84	622		4

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1900774-CR-001 R0



Manufacturer: Hill-Rom Inc.		Table Description: Wall Mounted Components			TABLE 3	
Model Line: Nurse Call Equipment, Control and Power						
Building Code: CBC 2019		Seismic Certification Limits:				
		$S_{DS} = 2.0g \quad z/h = 1.0$			$I_p = 1.5$	
		$S_{DS} = 2.0g \quad z/h = 0.0$				
Component Type	Manufacturer	Model	Description	Notes	UUT	
PoE Switch	Hill-Rom	P2519NNC1A24	24 Port Code Blue PoE Switch		1A	
		P2519NNC2A24	24 Port Delta II PoE Switch		3	
		P2519NNC3A24	24 Port PoE Switch		10	
		P2519NNC3A00/UP920-R-0155G	Power Supply (max 2X)		10	
		PSGS-2626GT P2519NNC3	1RU 24 Port PoE Switch		12	
	Cisco	WS-C3850-24U	24 Port PoE Switch		3	
		WS-C3850-48U	48 Port PoE Switch		3	
	Extreme Networks	ERS 4950GTS-PWR+	1RU switch 48 port		12	
ERS 5928GTS-uPWR		1RU switch 24 port		12		
VOIP Server	Comark	P2576NNC1A01	VOIP server		1A	
UPS	APC	P2521A02	APC Smart UPS SMT15000RM2U		1A	
Power Unit	Middle Atlantic	PD-915-R-PL	Power Unit, 15A		3	
		PD-915R	Power Unit, 15A		1A	
Room Control Box	Hill-Rom	P2599NNC1A00	Room control box, w/ cover		2B	
		P2599NNC1B00	Room control box, no enclosure		1B	
		P2599NNC2A00	RCB2 WO ENCL-ENHCED, UPOE CMPT		5	
		P2599NNC2C00	RCB2 WO ENCL-ENHCED, UPOE CMPT		6	
		P2599NNC3	RCB3 w/o enclosure		8	

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1900774-CR-001 R0



Manufacturer: Hill-Rom Inc.		Table Description: Floor Mounted Components			TABLE 4
Model Line: Nurse Call Equipment, Control and Power					
Building Code: CBC 2019		Seismic Certification Limits:			
		$S_{DS} = 2.0 g \quad z/h = 1.0$		$I_P = 1.5$	
		$S_{DS} = 2.0 g \quad z/h = 0.0$			
Component Type	Manufacturer	Model	Description	Notes	UUT
PoE Switch	Hill-Rom	P2519NNC1A24	1RU 24 Port Code Blue PoE Switch		2A
		P2519NNC2A24	1RU 24 Port Delta II PoE Switch		7
		P2519NNC3A24	1RU 24 Port PoE Switch		9
		P2519NNC3A00/UP920-R-0155G	Power Supply (max 2X)		9
		PSGS-2626GT P2519NNC3	1RU 24 Port PoE Switch		11
	Cisco	WS-C3850-24U	1RU 24 Port PoE Switch		7
		WS-C3850-48U	1RU 48 Port PoE Switch		7
		WS-C4503-E	7RU Switch		Interp.
		WS-C4506-E	10RU Switch		4
		WS-C4507R+E	11RU Switch		Interp.
		WS-C4510R+E	14RU Switch		4
		C9300-24T	24 Port PoE Swtich		13
		C9300-24U	24 Port PoE Swtich		Interp.
	C9300-48U	48 Port PoE Switch		13	
	Extreme Networks	ERS 4950GTS-PWR+	1RU switch 48 port		11
ERS 5928GTS-uPWR		1RU switch 24 port		11	
VOIP Server	Comark	P2576NNC1A01	VOIP server w/ mirroring		2A
	HP	DL360 Gen10 Performance	HPE ProLiant (Server Line)		11
UPS	APC	P2521A02	APC Smart UPS		2A
Power Unit	Middle Atlantic	PD-915R	Power Unit, 15A		2A
		PD-915-R-PL	Power Unit, 15A		4
Power Supply	Cisco	PWR-C45-1300ACV	Power supply		4
		PWR-C45-2800ACV	Power supply		Interp.

**SPECIAL SEISMIC CERTIFICATION
CERTIFIED SUBCOMPONENT MATRIX**

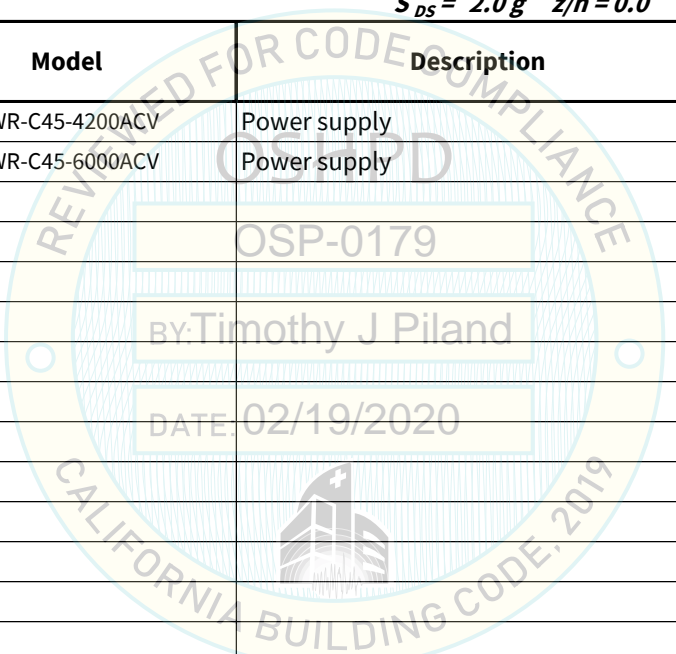
1900774-CR-001 R0



Manufacturer: Hill-Rom Inc.	Table Description: Floor Mounted Components	TABLE 4
Model Line: Nurse Call Equipment, Control and Power		

Building Code: CBC 2019 **Seismic Certification Limits:** $S_{DS} = 2.0g \quad z/h = 1.0$ $I_p = 1.5$
 $S_{DS} = 2.0g \quad z/h = 0.0$

Component Type	Manufacturer	Model	Description	Notes	UUT
Power Supply	Cisco	PWR-C45-4200ACV	Power supply		4
		PWR-C45-6000ACV	Power supply		4
			OSP-0179		
			By: Timothy J Piland		
			DATE: 02/19/2020		



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900774-CR-001 R0



Manufacturer: Hill-Rom Inc.
Model Line: Nurse Call Equipment, Control and Power

UUT	Unit Description	Report Number	Testing Laboratory	S _{DS}	z/h	I _p
1A	NaviCare Nurse Call Equipment, Control and Power:11996-748	103-1770	National Technical Systems - Fullerton	2.5	1	1.5
1B	NaviCare Nurse Call Equipment, Control and Power:P2549A03	103-1770	National Technical Systems - Fullerton	2.5	1	1.5
2A	NaviCare Nurse Call Equipment, Control and Power:11972-712	103-1770	National Technical Systems - Fullerton	2.5	1	1.5
2B	NaviCare Nurse Call Equipment, Control and Power:P2599NNC1	103-1770	National Technical Systems - Fullerton	2.5	1	1.5
3	NaviCare Nurse Call Equipment, Control and Power:11996-724	R11229904	UL LLC	2.28	1	1.5
4	NaviCare Nurse Call Equipment, Control and Power:13855-703	R11229904	UL LLC	2.28	1	1.5
5	NaviCare Nurse Call Equipment, Control and Power:P2599NNC2	R11229904	UL LLC	2.28	1	1.5
6	NaviCare Nurse Call Equipment, Control and Power:P2549A03	R11229904	UL LLC	2.28	1	1.5
7	NaviCare Nurse Call Equipment, Control and Power:11972-712	R11229904	UL LLC	2.28	1	1.5
8	NaviCare Nurse Call Equipment, Control and Power	R12184737	UL LLC	2.28	1	1.5
9	NaviCare Nurse Call Equipment, Control and Power	R12184737	UL LLC	2.28	1	1.5
10	NaviCare Nurse Call Equipment, Control and Power	R12184737	UL LLC	2.28	1	1.5
11	NaviCare Nurse Call Equipment, Control and Power	R12982635	UL LLC	2.28	1	1.5
12	NaviCare Nurse Call Equipment, Control and Power	R12982635	UL LLC	2.28	1	1.5
13	Catalyst 9000 Custom, Networking Equipment	18012TR1	NTS	2	1	1.5

Notes:

UNIT UNDER TEST (UUT) SUMMARY SHEET



1900774-CR-001 R0

Manufacturer: Hill-Rom Inc.	UUT 1A
Model Line: Nurse Call Equipment, Control and Power	
Model Number: Rack - 26RU Serial Number: N/A	

Product Construction Summary:
Chatsworth Cube-iT 11996-748. NEMA Type 1; 14 ga. Carbon steel cabinet with Aluminum rails

Options/Subcomponent Summary:
11996-748. P2577NNC1A00 MPC, P2519NNC1A24 PoE Switch (2), P2521A02 APC Smart UPS (3), UL# E204950 PD-915R Power Unit, P2576NNC1A01 VOIP Server, Chatsworth 12787 Rear Rail Kit, Hill-Rom P005503 20" Rack Mount Slides

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
403	30	24	48	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2018)	2.5	1.0	1.5	4.00	3.00	2.67	2.00

Test Mounting Details:



Rigid wall mounted using (4) 1/4" Lag screws.
Unit maintained structural integrity and remained functional per manufacturer requirement after the shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900774-CR-001 R0



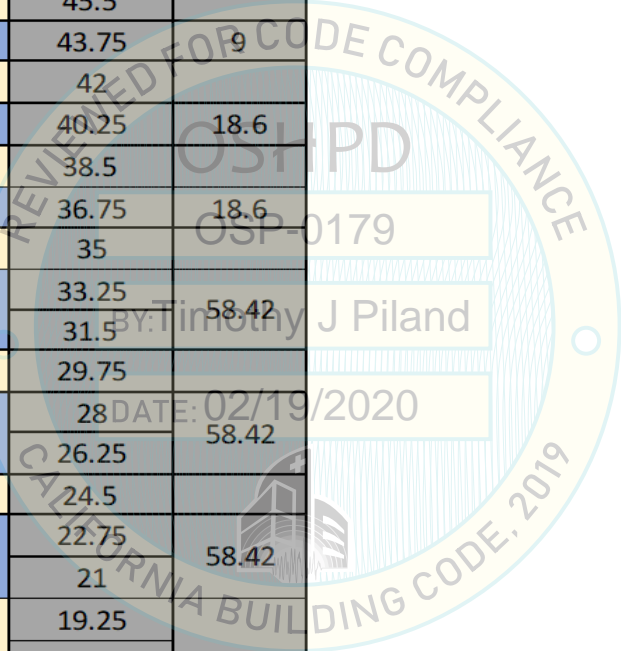
Manufacturer: Hill-Rom Inc.
Model Line: Nurse Call Equipment, Control and Power
Model Number: Rack - 26RU
Serial Number: N/A

UUT 1A

Rack Mounting Summary:

Chastworth Cube-iT 11996-748			
Position on Rack	Component	C.G. Height (in.)	Weight (lbs.)
26		45.5	
25	P2577NNC1A00	43.75	9
24		42	
23	P2519NNC1A24	40.25	18.6
22		38.5	
21	P2519NNC1A24	36.75	18.6
20		35	
19	P2521A02	33.25	58.42
18		31.5	
17		29.75	
16	P2521A02	28	58.42
15		26.25	
14		24.5	
13	P2521A02	22.75	58.42
12		21	
11		19.25	
10		17.5	
9		15.75	
8		14	
7		12.25	
6		10.5	
5	PD-915R	8.75	2
4	P2576NNC1A01	7	39
3		5.25	
2		3.5	
1		1.75	

UUT-1A Mounting Summary
 Configured Rack Total Weight: **403 lbs.**
 Max Rack CG: **24.3"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900774-CR-001 R0



Manufacturer: Hill-Rom Inc.	UUT 1B
Model Line: Nurse Call Equipment, Control and Power	
Model Number: Room Box Enclosure Serial Number: N/A	

Product Construction Summary:
Hill-Rom Enclosure P2549A03. Carbon steel enclosure.

Options/Subcomponent Summary:
P2549A03. P2599NNC1B00.

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
8.5	4.3	8	9	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2018)	2.5	1.0	1.5	4.00	3.00	2.67	2.00

Test Mounting Details:



Rigid wall mounted using (4) #8 screws.
Unit maintained structural integrity and remained functional per manufacturer requirement after the shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900774-CR-001 R0



Manufacturer: Hill-Rom Inc.	UUT 2A
Model Line: Nurse Call Equipment, Control and Power	
Model Number: Floor 4 Post Cabinet, Seismic Frame (CF) 43 RMU Serial Number: N/A	

Product Construction Summary:
Chatsworth 11972-712. Carbon steel frame with Aluminum side panels.

Options/Subcomponent Summary:
11972-712. P2577NNC1A00 MPC, P2519NNC1A24 PoE Switch (2), P2576NNC1A01 VOIP Server, P2521A02 APC Smart UPS (3), UL# E204950 PD-915R Power Unit, P005504 30" Rack Mount Slides

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
623	36	19	84	12.0	7.5	28.9

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2018)	2.5	1.0	1.5	4.00	3.00	2.67	2.00

Test Mounting Details:



Rigid floor mounted using (4) 1/2" grade 5 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after the shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900774-CR-001 R0



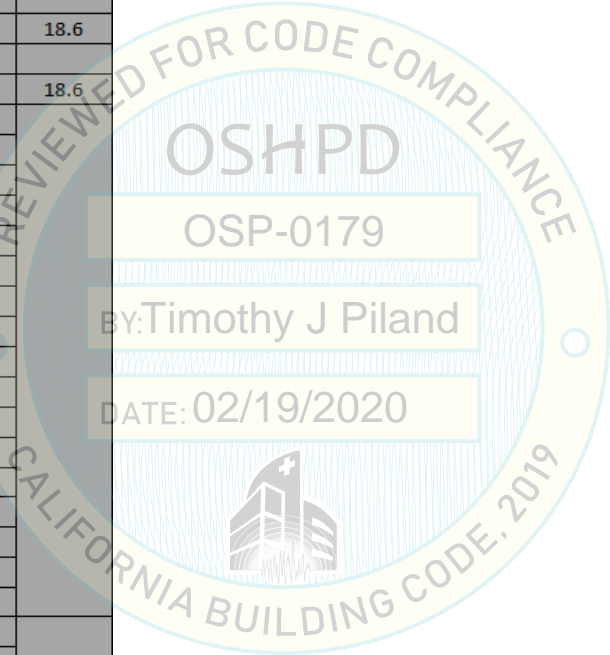
Manufacturer: Hill-Rom Inc.
Model Line: Nurse Call Equipment, Control and Power
Model Number: Floor 4 Post Cabinet, Seismic Frame (CF) 43 RMU **Serial Number:** N/A

UUT 2A

Rack Mounting Summary:

Chastworth 11972-712			
Position on Rack	Component	C.G. Height (in.)	Weight (lbs.)
43		75.25	
42	P2577NNC1A00	73.5	9
41		71.75	
40	P2519NNC1A24	70	18.6
39		68.25	
38	P2519NNC1A24	66.5	18.6
37		64.75	
36		63	
35		61.25	
34		59.5	
33		57.75	
32		56	
31		54.25	
30		52.5	
29		50.75	
28		49	
27		47.25	
26		45.5	
25		43.75	
24		42	
23		40.25	
22		38.5	
21		36.75	
20		35	
19	P2576NNC1A01	33.25	39
18		31.5	
17		29.75	
16		28	
15		26.25	
14		24.5	
13		22.75	
12	P2521A02	21	46.75
11		19.25	
10	PD-915R	17.5	2
9		15.75	
8	P2521A02	14	46.75
7		12.25	
6		10.5	
5	P2521A02	8.75	46.75
4		7	
3		5.25	
2		3.5	
1		1.75	

UUT-2A Mounting Summary
 Configured Rack Total Weight: **623 lbs.**
 Max Rack CG: **34.6"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900774-CR-001 R0



Manufacturer: Hill-Rom Inc.	UUT 2B
Model Line: Nurse Call Equipment, Control and Power	
Model Number: Low Profile Enclosure for Room Control Boards Version 1 (RCB 1) Serial Number: N/A	

Product Construction Summary:
Carbon steel frame.

Options/Subcomponent Summary:
P2599NNC1A00 Room Control Box

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
5	1.6	8	9	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2018)	2.5	1.0	1.5	4.00	3.00	2.67	2.00

Test Mounting Details:



Rigid wall mounted using (4) #8 screws.
Unit maintained structural integrity and remained functional per manufacturer requirement after the shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900774-CR-001 R0



Manufacturer: Hill-Rom Inc.	UUT 3
Model Line: Nurse Call Equipment, Control and Power	
Model Number: Rack - 12RU Serial Number: N/A	

Product Construction Summary:
Chatsworth 11996-724. Carbon steel construction



Options/Subcomponent Summary:
11996-724. P2519NNC1A24 Code Blue PoE switch (3), Cisco WS-C3850-24U24 24 Port, WS-C3850-48U 48 Port, Middle Atlantic 15A Power Unit (2), Chatsworth 12787-524 L-shaped threaded 12RMU wall mounting rails, C3850 4PT Kit 20" - 30" Rack Mount Slides

Tested with 26 lbs. of simulated weight. Weight below is the total.

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
208	30	24	24	N/A	N/A	N/A

<i>UUT Highest Passed Seismic Run Information</i>								
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2018)	2.28	1.0	1.5	3.65	2.74	1.52	0.61

Test Mounting Details:

Rigid wall mounted using (8) 1/4" Lag screws.
Unit maintained structural integrity and remained functional per manufacturer requirement after the shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900774-CR-001 R0



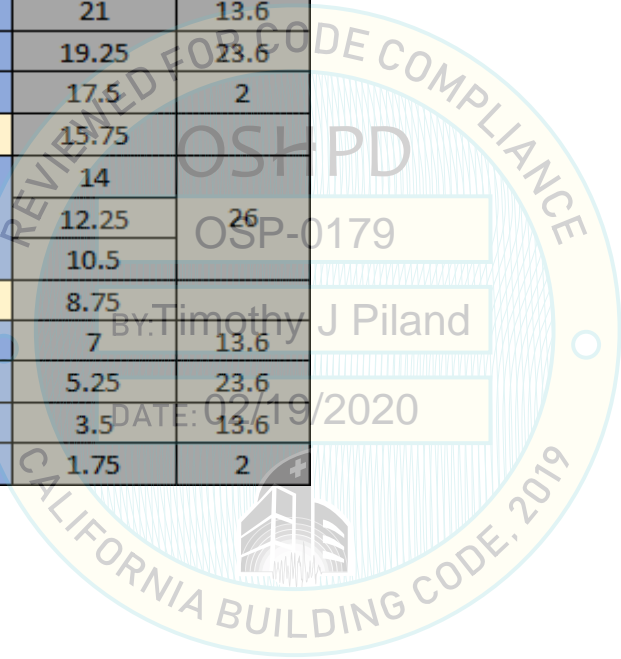
Manufacturer: Hill-Rom Inc.
Model Line: Nurse Call Equipment, Control and Power
Model Number: Rack - 12RU **Serial Number:** N/A

UUT 3

Rack Mounting Summary:

Chastworth 11996-724			
Position on Rack	Component	C.G. Height (in.)	Weight (lbs.)
12	P2519NNC1A24	21	13.6
11	WS-3850-24U	19.25	23.6
10	PD-915-R-PL	17.5	2
9		15.75	
8	Added Weight	14	
7		12.25	26
6		10.5	
5		8.75	
4	P2519NNC1A24	7	13.6
3	WS-C3850-48U	5.25	23.6
2	P2519NNC1A24	3.5	13.6
1	PD-915-R-PL	1.75	2

UUT-3 Mounting Summary
 Configured Rack Total Weight: **208 lbs.**
 Max Rack CG: **11.1"**



UNIT UNDER TEST (UUT) SUMMARY SHEET



1900774-CR-001 R0

Manufacturer: Hill-Rom Inc.	UUT 4
Model Line: Nurse Call Equipment, Control and Power	
Model Number: 13855-703 Serial Number: N/A	

Product Construction Summary:
Chatsworth 13855-703. Welded carbon steel construction

Options/Subcomponent Summary:
13855-703. WS-C4510R+E (14RU Switch), WS-C4506-E (10RU Switch). Cisco PWR-C45-1300ACV power supply, PWR-C45-4200ACV power supply, PWR-C45-6000ACV Power supply.

Tested with 206 lbs. of simulated weight. Weight below is the total.

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
622	9.5	24	84	15.0	9.5	> 33.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2018)	2.28	1.0	1.5	3.65	2.74	1.52	0.61

Test Mounting Details:



Rigid floor mounted using (4) 1/2" Grade 5 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after the shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900774-CR-001 R0



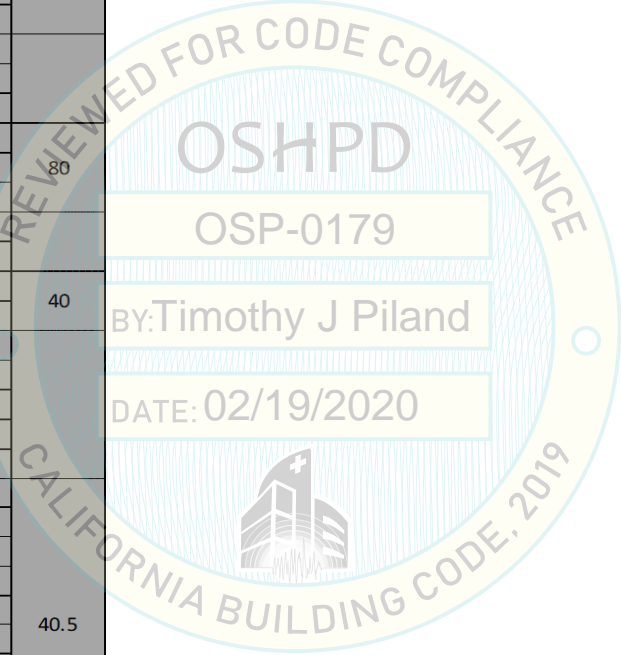
Manufacturer: Hill-Rom Inc.
Model Line: Nurse Call Equipment, Control and Power
Model Number: 13855-703 **Serial Number:** N/A

UUT 4

Rack Mounting Summary:

UUT-4 Mounting Summary
 Configured Rack Total Weight: **622 lbs.**
 Max Rack CG: **43.3"**

Chastworth 13855-703			
Position on Rack	Component	C.G. Height (in.)	Weight (lbs.)
44		77	
43		75.25	
42	Added Weight	73.5	80
41		71.75	
40		70	
39		68.25	
38		66.5	
37		64.75	
36	Added Weight	63	80
35		61.25	
34		59.5	
33		57.75	
32	Added Weight	56	40
31		54.25	
30		52.5	
29		50.75	
28		49	
27		47.25	
26		45.5	
25		43.75	
24		42	
23		40.25	
22		38.5	
21	Catalyst 4506-E Switch	36.75	40.5
20		35	
19		33.25	
18		31.5	
17		29.75	
16		28	
15		26.25	
14		24.5	
13		22.75	
12		21	
11		19.25	
10		17.5	
9		15.75	
8	Catalyst 4510R+E Switch	14	54.5
7		12.25	
6		10.5	
5		8.75	
4		7	
3		5.25	
2		3.5	
1		1.75	



UNIT UNDER TEST (UUT) SUMMARY SHEET



1900774-CR-001 R0

Manufacturer: Hill-Rom Inc.	UUT 5
Model Line: Nurse Call Equipment, Control and Power	
Model Number: Low Profile Enclosure for Room Control Boards Version 2 (RCB 2) Serial Number: N/A	

Product Construction Summary:
Carbon steel frame.

Options/Subcomponent Summary:
P2599NNC2A00 RCB2 WO ENCL-ENHCED, UPOE CMPTP

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
2.2	1.5	7.5	8.8	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2018)	2.28	1.0	1.5	3.65	2.74	1.52	0.61

Test Mounting Details:



Rigid wall mounted using (4) #8 screws.
Unit maintained structural integrity and remained functional per manufacturer requirement after the shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900774-CR-001 R0



Manufacturer: Hill-Rom Inc.	UUT 6
Model Line: Nurse Call Equipment, Control and Power	
Model Number: Room Box Enclosure Serial Number: N/A	

Product Construction Summary:
Hill-Rom Enclosure P2549A03. Carbon steel enclosure.

Options/Subcomponent Summary:
P2549A03. P2599NNC2C00 RCB2 WO ENCL-ENHCED, UPOE CMPT

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
8.3	4.3	12	12	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2018)	2.28	1.0	1.5	3.65	2.74	1.52	0.61

Test Mounting Details:



Rigid wall mounted using (4) #8 screws.
Unit maintained structural integrity and remained functional per manufacturer requirement after the shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900774-CR-001 R0



Manufacturer: Hill-Rom Inc.	UUT 7
Model Line: Nurse Call Equipment, Control and Power	
Model Number: Floor 4 Post Cabinet, Seismic Frame (CF) 43 RMU Serial Number: N/A	

Product Construction Summary:
Chatsworth 11972-712. Carbon steel frame with Aluminum side panels.

Options/Subcomponent Summary:
11972-712. WS-C3850-24U (1RU 24 Port PoE Switch), WS-C3850-48U (1RU 48 Port PoE Switch), PD-915-R-PL, P2519NNC2A24, Cisco C3850 4PT Kit 20" - 30" Rack Mount Slides

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
416	36	27	84	17.9	9.8	> 33.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2018)	2.28	1.0	1.5	3.65	2.74	1.52	0.61

Test Mounting Details:



Rigid floor mounted using (4) 1/2" Grade 5 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after the shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900774-CR-001 R0



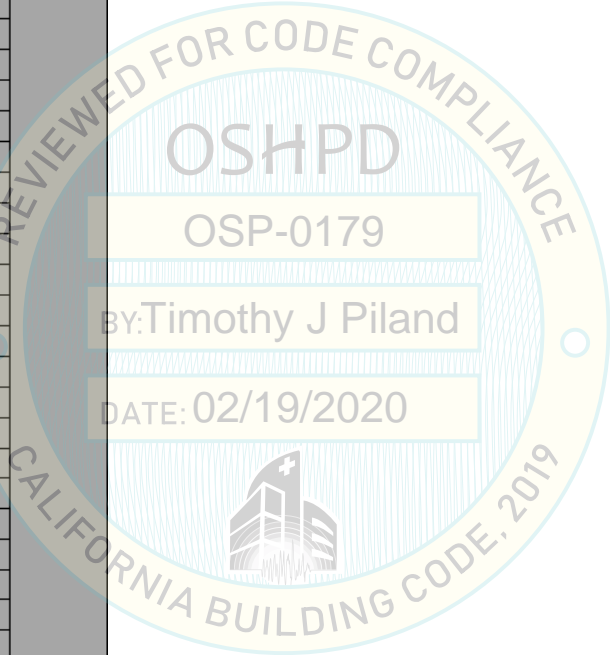
Manufacturer: Hill-Rom Inc.
Model Line: Nurse Call Equipment, Control and Power
Model Number: Floor 4 Post Cabinet, Seismic Frame (CF) 43 RMU **Serial Number:** N/A

UUT 7

Rack Mounting Summary:

Chastworth 11972-712			
Position on Rack	Component	C.G. Height (in.)	Weight (lbs.)
42		73.5	
41		71.75	
40		70	
39		68.25	
38		66.5	
37		64.75	
36		63	
35		61.25	
34		59.5	
33		57.75	
32		56	
31		54.25	
30		52.5	
29		50.75	
28		49	
27		47.25	
26		45.5	
25		43.75	
24		42	
23		40.25	
22		38.5	
21		36.75	
20		35	
19		33.25	
18		31.5	
17		29.75	
16		28	
15		26.25	
14		24.5	
13	WS-C3850-24U	22.75	23.6
12	P2519NNC2A24	21	19.6
11	PD-915R	19.25	2
10		17.5	
9		15.75	
8		14	
7		12.25	
6	WS-C3850-48U	10.5	23.6
5	PD-915R	8.75	2
4		7	
3		5.25	
2		3.5	
1		1.75	

UUT-7 Mounting Summary
 Configured Rack Total Weight: **416 lbs.**
 Max Rack CG: **33.7"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900774-CR-001 R0



Manufacturer: Hill-Rom Inc.	UUT 8
Model Line: Nurse Call Equipment, Control and Power	
Model Number: Low Profile Enclosure for Room Control Boards Version 3 (RCB 3) Serial Number: N/A	

Product Construction Summary:
Carbon steel frame

Options/Subcomponent Summary:
Kit low profile wall mount RCB3, WO enclosures enhanced UPOE CMPT

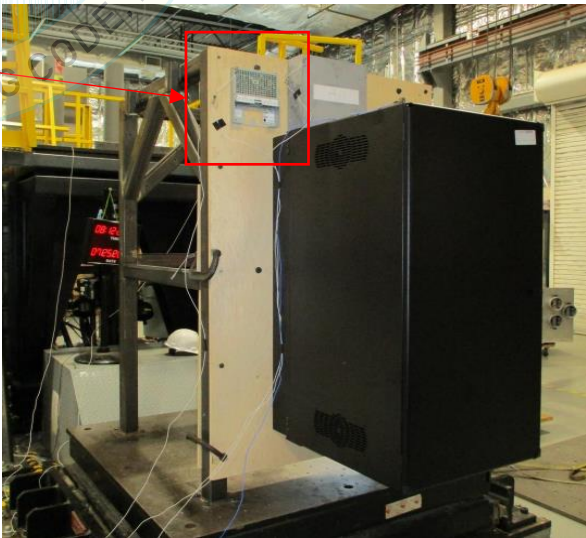
UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
2.1	1.6	8	8	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2018)	2.28	1.0	1.5	3.65	2.74	1.52	0.61

Test Mounting Details:



Wall mounted with (4) #8 screws.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1900774-CR-001 R0

Manufacturer: Hill-Rom Inc.	UUT 9
Model Line: Nurse Call Equipment, Control and Power	
Model Number: Floor 4 Post Cabinet, Seismic Frame (CF) 43 RMU Serial Number: 2518022WIS/F8DC7A164854	

Product Construction Summary:
Chatsworth 4 Post Floor Cabinet-carbon steel frame with aluminum side panels

Options/Subcomponent Summary:
Ruby Tech Poe (PN: P2519NNC3YXX, SN: 2818006RUB/0014B8D27087), Ruby Tech Poe (PN: P2519NNC3YXX, SN: 2818006RUB/0014B8D2701B), Ruby Rech Power Supply x2(PN: P2519NNC3A00, SN: 281800RUB & 2818007RUB), Ruby Rech Power Supply x2(PN: P2519NNC3A00, SN: 281800RUB & 2818011RUB)

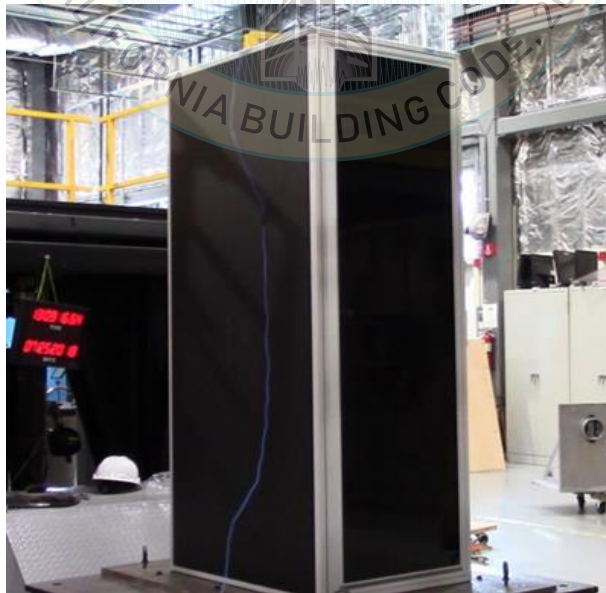
UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
367	36	27	84	13.7	10.2	>33.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2018)	2.28	1.0	1.5	3.65	2.74	1.52	0.61

Test Mounting Details:



Base mounted-rigid with (4) Grade 5, 1/2" x 13 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900774-CR-001 R0



Manufacturer: Hill-Rom Inc.
Model Line: Nurse Call Equipment, Control and Power
Model Number: Floor 4 Post Cabinet, Seismic Frame (CF) 43 RMU

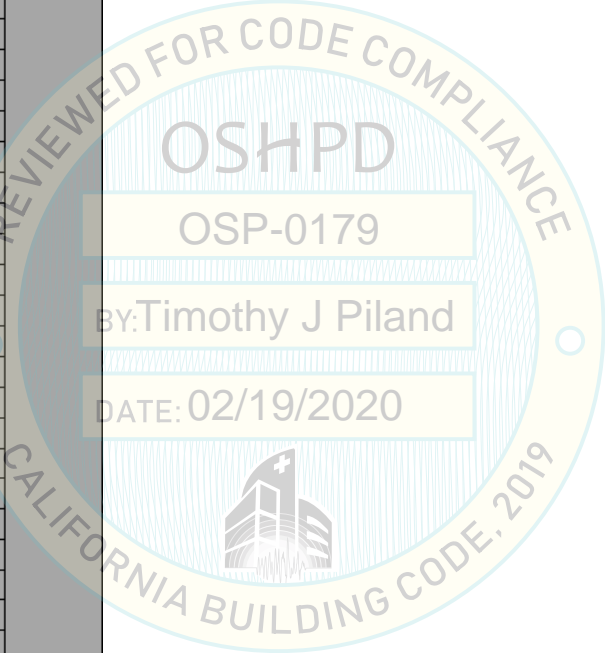
Serial Number: 2518022WIS/F8DC7A164854

UUT 9

Rack Mounting Summary:

Chastworth 11972-712			
Position on Rack	Component	C.G. Height (in.)	Weight (lbs.)
42		73.5	
41		71.75	
40		70	
39		68.25	
38		66.5	
37		64.75	
36		63	
35		61.25	
34		59.5	
33		57.75	
32		56	
31		54.25	
30		52.5	
29		50.75	
28		49	
27		47.25	
26		45.5	
25		43.75	
24		42	
23		40.25	
22		38.5	
21		36.75	
20		35	
19		33.25	
18		31.5	
17		29.75	
16	P2519NNC3A24	28	12.35
15	P2519NNC3A24	26.25	12.35
14		24.5	
13		22.75	
12		21	
11		19.25	
10		17.5	
9		15.75	
8		14	
7		12.25	
6		10.5	
5		8.75	
4		7	
3		5.25	
2		3.5	
1		1.75	

UUT-9 Mounting Summary
 Configured Rack Total Weight: **367 lbs.**
 Max Rack CG: **36.3"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900774-CR-001 R0



Manufacturer: Hill-Rom Inc.	UUT 10
Model Line: Nurse Call Equipment, Control and Power	
Model Number: Rack - 26RU Serial Number: N/A	

Product Construction Summary:
Chatsworth Cube-iT 11996-748. NEMA Type 1; 14 ga. Carbon steel cabinet with Aluminum rails

Options/Subcomponent Summary:
Ruby Tech Poe (PN: P2519NNC3YXX, SN: 2818006RUB/0014B8D27087), Ruby Tech Poe (PN: P2519NNC3YXX, SN: 2818006RUB/0014B8D2701B), Ruby Rech Power Supply x2(PN: P2519NNC3A00, SN: 281800RUB & 2818007RUB), Ruby Rech Power Supply x2(PN: P2519NNC3A00, SN: 281800RUB & 2818011RUB)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
157	24	30	48	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2018)	2.28	1.0	1.5	3.65	2.74	1.52	0.61

Test Mounting Details:



Wall mounted with (4) 1/4" lag bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900774-CR-001 R0



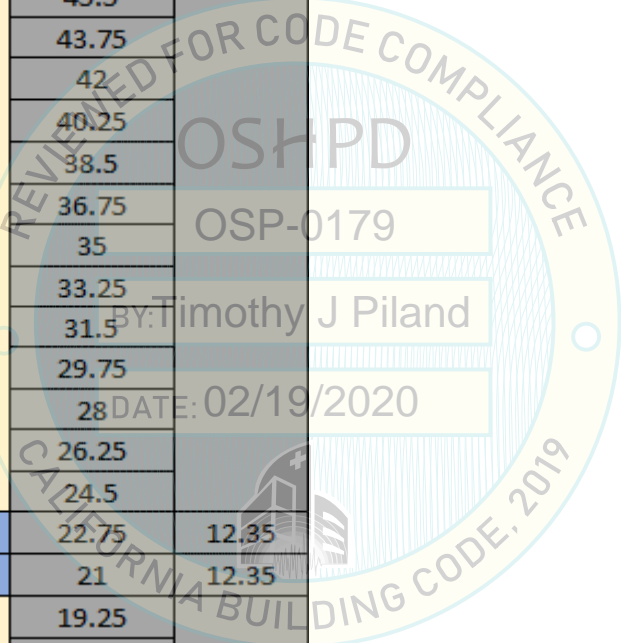
Manufacturer: Hill-Rom Inc.
Model Line: Nurse Call Equipment, Control and Power
Model Number: Rack - 26RU **Serial Number:** N/A

UUT 10

Rack Mounting Summary:

Chastworth Cube-iT 11996-748			
Position on Rack	Component	C.G. Height (in.)	Weight (lbs.)
26		45.5	
25		43.75	
24		42	
23		40.25	
22		38.5	
21		36.75	
20		35	
19		33.25	
18		31.5	
17		29.75	
16		28	
15		26.25	
14		24.5	
13	P2519NNC3A24	22.75	12.35
12	P2519NNC3A24	21	12.35
11		19.25	
10		17.5	
9		15.75	
8		14	
7		12.25	
6		10.5	
5		8.75	
4		7	
3		5.25	
2		3.5	
1		1.75	

UUT-10 Mounting Summary
 Configured Rack Total Weight: **157 lbs.**
 Max Rack CG: **22.6"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900774-CR-001 R0



Manufacturer: Hill-Rom Inc.	UUT 11
Model Line: Nurse Call Equipment, Control and Power	
Model Number: Floor 4 Post Cabinet, Seismic Frame (CF) 43 RMU Serial Number: 578038-GT-16152	

Product Construction Summary:
Chatsworth 11972-712. Carbon steel frame with Aluminum side panels.

Options/Subcomponent Summary:
PSGS-2626GT P2519NNC3, ERS 4950GTS-PWR+, ERS 5928GTS-uPWR, DL360 Gen10 Performance, (2) Extreme Networks AL5911001-E6 20" Rack Mount Slides, 728440-002 HP Rail Kit, (2) PD-915-R-PL

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
735	36	27	84	7.4	7.2	>33.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2018)	2.28	1.0	1.5	3.65	2.74	1.52	0.61

Test Mounting Details:



UUT mounted to table using (4) 1/2" Grade 5 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900774-CR-001 R0



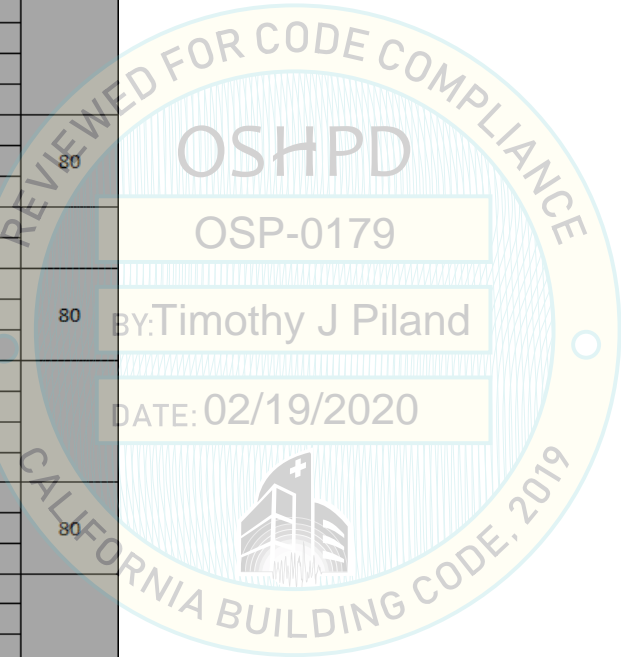
Manufacturer: Hill-Rom Inc.
Model Line: Nurse Call Equipment, Control and Power
Model Number: Floor 4 Post Cabinet, Seismic Frame (CF) 43 RMU
Serial Number: 578038-GT-16152

UUT 11

Rack Mounting Summary:

Chastworth 11972-712			
Position on Rack	Component	C.G. Height (in.)	Weight (lbs.)
42		73.5	
41		71.75	
40		70	
39		68.25	
38		66.5	
37		64.75	
36		63	
35	Added Weight	61.25	80
34		59.5	
33		57.75	
32		56	
31		54.25	
30	Added Weight	52.5	80
29		50.75	
28		49	
27		47.25	
26		45.5	
25		43.75	
24		42	
23	Added Weight	40.25	80
22		38.5	
21		36.75	
20		35	
19		33.25	
18	PD-915R	31.5	2
17	ERS 4950GTS-PWR+	29.75	17.6
16	P2519NNC3A24	28	12.4
15	ERS 5928GTS-UPWR	26.25	17.4
14	HPE DL360 Gen10	24.5	43.6
13	PD-915R	22.75	2
12		21	
11		19.25	
10		17.5	
9		15.75	
8		14	
7		12.25	
6		10.5	
5		8.75	
4		7	
3	Added Weight	5.25	80
2		3.5	
1		1.75	

UUT-11 Mounting Summary
 Configured Rack Total Weight: **735 lbs.**
 Max Rack CG: **36.9"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900774-CR-001 R0



Manufacturer: Hill-Rom Inc.	UUT 12
Model Line: Nurse Call Equipment, Control and Power	
Model Number: Rack - 12RU	
Serial Number: 929700-NB-19235	

Product Construction Summary:
Chatsworth 11996-724. Carbon steel construction

Options/Subcomponent Summary:
ERS 4950GTS-PWR+, ERS 5928GTS-uPWR, PSGS-2626GT P2519NNC3, (2) AL5911001-E6, (2) PD-915-R-PL, Extreme Networks AL5911001-E6 20" Rack Mount Slides

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
160	30	24	24	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2018)	2.28	1.0	1.5	3.65	2.74	1.52	0.61

Test Mounting Details:



UUT mounted to wall fixture using (8) M50 x 40 lag bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900774-CR-001 R0



Manufacturer: Hill-Rom Inc.
Model Line: Nurse Call Equipment, Control and Power
Model Number: Rack - 12RU

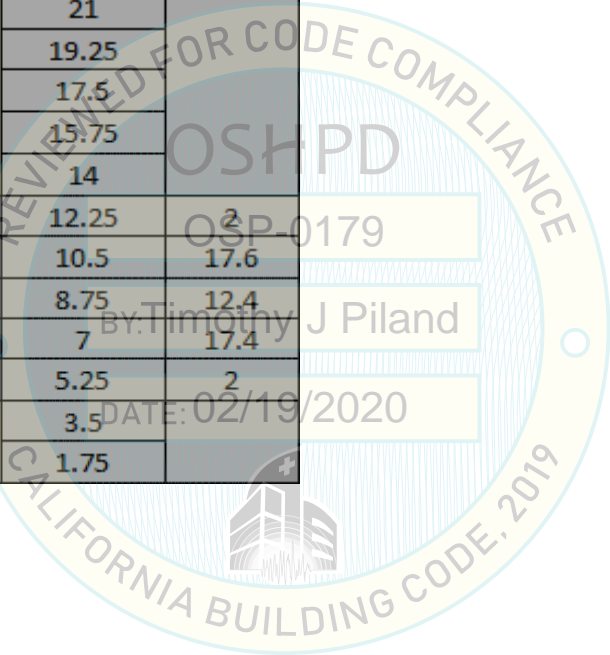
UUT 12

Serial Number: 929700-NB-19235

Rack Mounting Summary:

Chastworth 11996-724			
Position on Rack	Component	C.G. Height (in.)	Weight (lbs.)
12		21	
11		19.25	
10		17.5	
9		15.75	
8		14	
7	PD-915-R-PL	12.25	2
6	ERS 4950GTS-PWR+	10.5	17.6
5	P2519NNC3A24	8.75	12.4
4	ERS 5928GTS-UPWR	7	17.4
3	PD-915-R-PL	5.25	2
2		3.5	
1		1.75	

UUT-12 Mounting Summary
 Configured Rack Total Weight: **160 lbs.**
 Max Rack CG: **9.9"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900774-CR-001 R0



Manufacturer: Hill-Rom Inc.	UUT 13
Model Line: Nurse Call Equipment, Control and Power	
Model Number: Catalyst 9000 Custom Serial Number: N/A	

Product Construction Summary:
Carbon steel rack

Options/Subcomponent Summary:
Telect Four Post Rack (DR1250-84436), Cisco - Catalyst 9300-24T (C9300-24T, PWR-C1-350WAC, C9300-NM-4G, GLC-SX-MM-RGD, FAN-T2), Cisco - Catalyst 9300-48U (C9300-48U, PWR-C1-1100WAC, C9300-NM-8X, SFP-10G-SR, FAN-T2).
Additional components included in the weight of this UUT are not considered for this certification.

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
791	36	24	84	12.7	4.9	24.2

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2018)	2.0	1	1.5	3.20	2.40	1.68	0.68
		2.5	0					

Test Mounting Details:



Rigid base mounted using (4) 1/2" Grade 8 bolts
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900774-CR-001 R0



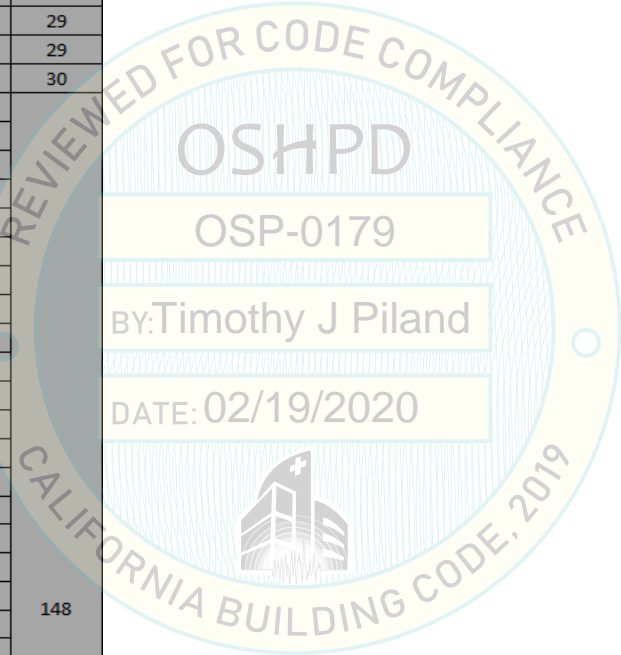
Manufacturer: Hill-Rom Inc.
Model Line: Nurse Call Equipment, Control and Power
Model Number: Catalyst 9000 Custom **Serial Number:** N/A

UUT 13

Rack Mounting Summary:

Telco DR1250-84436			
Position on Rack	Component	C.G. Height (in.)	Weight (lbs.)
45		78.75	
44	Catalyst 9300-24T	77	19
43	Catalyst 9300-48U	75.25	22
42	Catalyst 9300-40X	73.5	29
41	Catalyst 9300-40X	71.75	29
40	Catalyst 9300-24Q	70	30
39		68.25	
38		66.5	
37		64.75	
36		63	
35		61.25	
34		59.5	
33		57.75	
32		56	
31		54.25	
30		52.5	
29		50.75	
28		49	
27		47.25	
26		45.5	
25		43.75	
24		42	
23		40.25	
22		38.5	
21	Catalyst C9407	36.75	148
20		35	
19		33.25	
18		31.5	
17		29.75	
16		28	
15		26.25	
14		24.5	
13		22.75	
12		21	
11		19.25	
10	Catalyst C9410	17.5	180
9		15.75	
8		14	
7		12.25	
6		10.5	
5		8.75	
4		7	
3		5.25	
2		3.5	
1		1.75	

UUT-13 Mounting Summary
 Configured Rack Total Weight: **791 lbs.**
 Max Rack CG: **41.6"**



Product Information Sheet

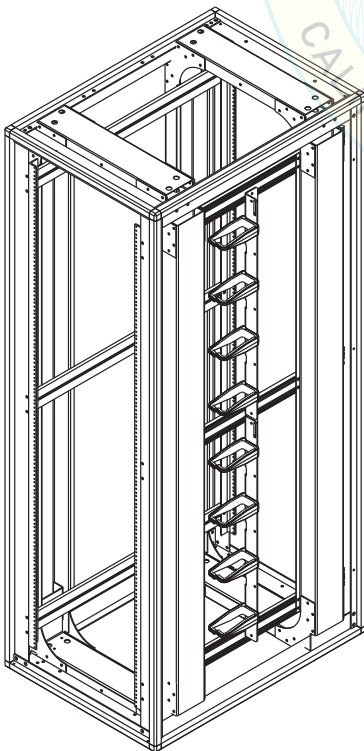
SEISMIC FRAME™ CABINET SYSTEM

Rated Zone 4 compliant to Bellcore GR-63-CORE for Network Equipment Building Systems (NEBS), Section 4.4.1.1, the Seismic Frame Cabinet System is able to withstand the seismic stress of an 8.3 Richter scale earthquake.

Offered in a 19"W x 36"D x 84"H cabinet solution, the aluminum outer frame provides the sound structural environment necessary for sensitive Information Technology (IT) hardware components.

With Multi-Mount™ square-punched rails, the cabinet fulfills various rack-mounting requirements. A reinforced inner frame provides increased structural rigidity.

- Standard 19" EIA Rack Width
- Reinforced inner frame provides structural rigidity
- Certified to an 800 lb distributed equipment load
- Aluminum outer frame with steel inner frame delivers maximum strength with minimum weight
- Seismic bracing kits and a full line of structural enhancement products are available to support site specific structural requirements
- Internal cable management provides flexibility for wire routing and fits on-site customization
- Adjustable front to rear vertical mounting rails, allow use as a standard 4-post cabinet or 2-channel rack
- Static load rating: 1600 lb overall, 800 lb in seismic environments



19" W x 36" D x 84" H Seismic Cabinet		
Part Number	Cabinet Door Style	
	Front	Rear
11972-X02	UUTs 2A, 7, 9, & 11	No Rear
11972-X12	Plexiglass	Metal
11972-X22	Metal	Metal
11972-X32	Vented Plexiglass	Perforated Metal
11972-X42	Perforated Metal	Perforated Metal

19" W x 36" D x 84" H without side panels		
Part Number	Cabinet Door Style	
	Front	Rear
11973-X02	No Front	No Rear
11973-X12	Plexiglass	Metal
11973-X22	Metal	Metal
11973-X32	Vented Plexiglass	Perforated Metal
11973-X42	Perforated Metal	Perforated Metal

19" W x 36" D x 84" H Frame Only**	
Part Number	Cabinet Door Style
11974-X02	Frame Only

800-834-4969 in U.S. & Canada • www.chatsworth.com



CHATSWORTH PRODUCTS, INC.

02/19/2021

OSP-0179

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Page 35 of 38

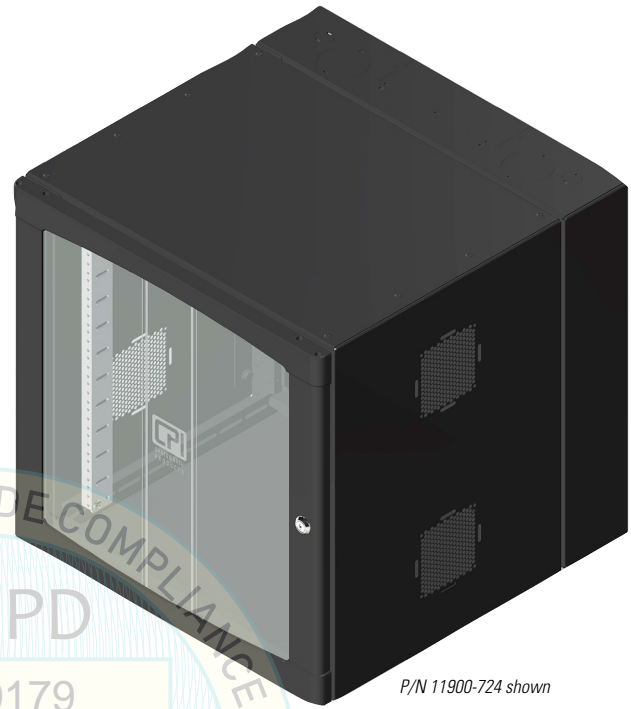
ORDERING INFORMATION:

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 options
- All cabinet styles are 24"W (610 mm)
- Includes CH751 keyed lock

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

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)

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 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)

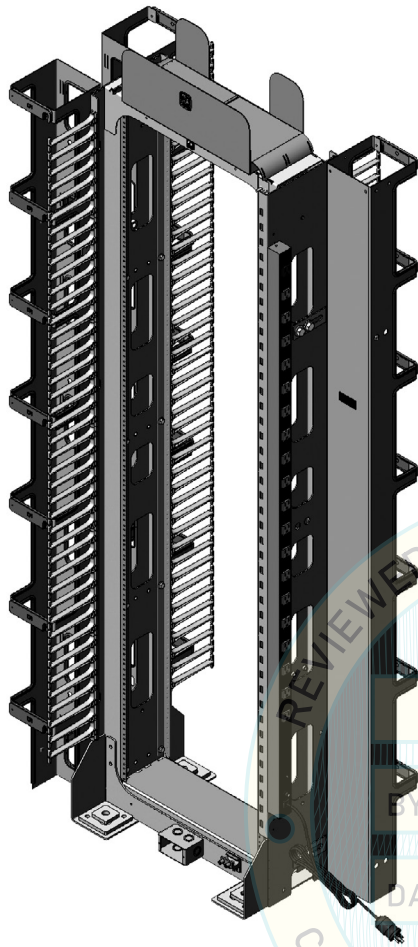
Color is black.

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



ORDERING INFORMATION

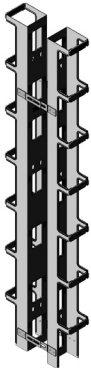
SeismicFrame® Two-Post Rack		
Part Number	Description H x W ft (m)	Shipping Weight lb (kg)
13853-X03	7 (2.1) x 19", 44U, Tapped #12-24 Zinc Rails	180 (81.6)
13854-X03	7 (2.1) x 19", 44 UUT-4 Unchained Zinc Rails	178 (80.7)
13855-X03	7 (2.1) x 19", 44U, Tapped #12-24 Painted Rails	180 (81.6)
13856-X03	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

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 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.



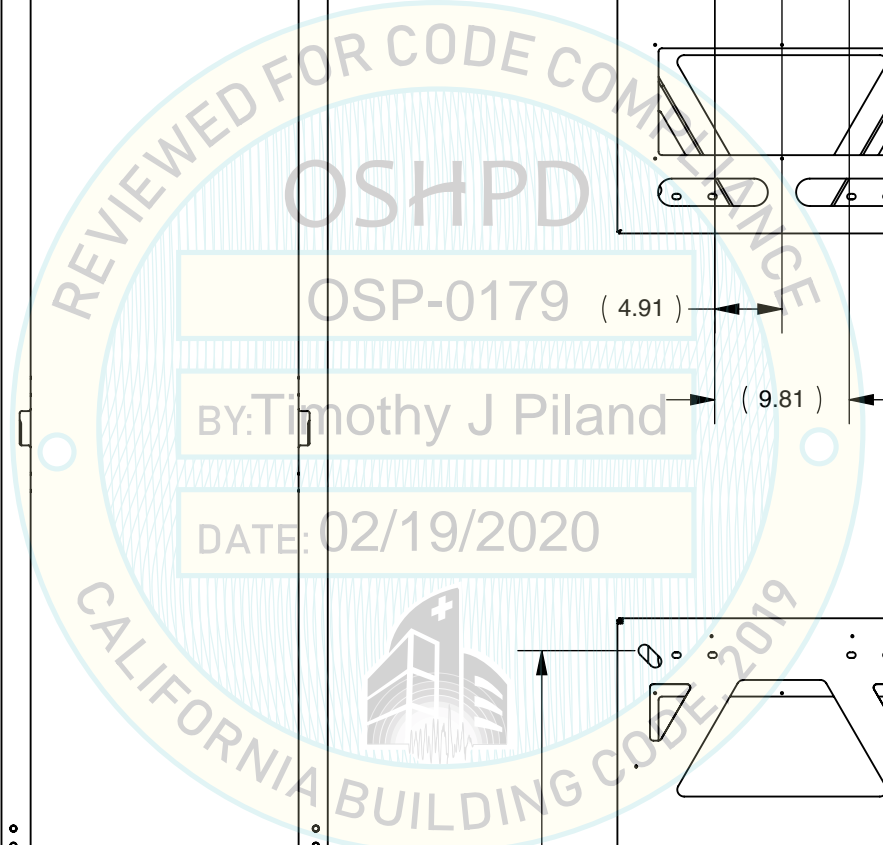
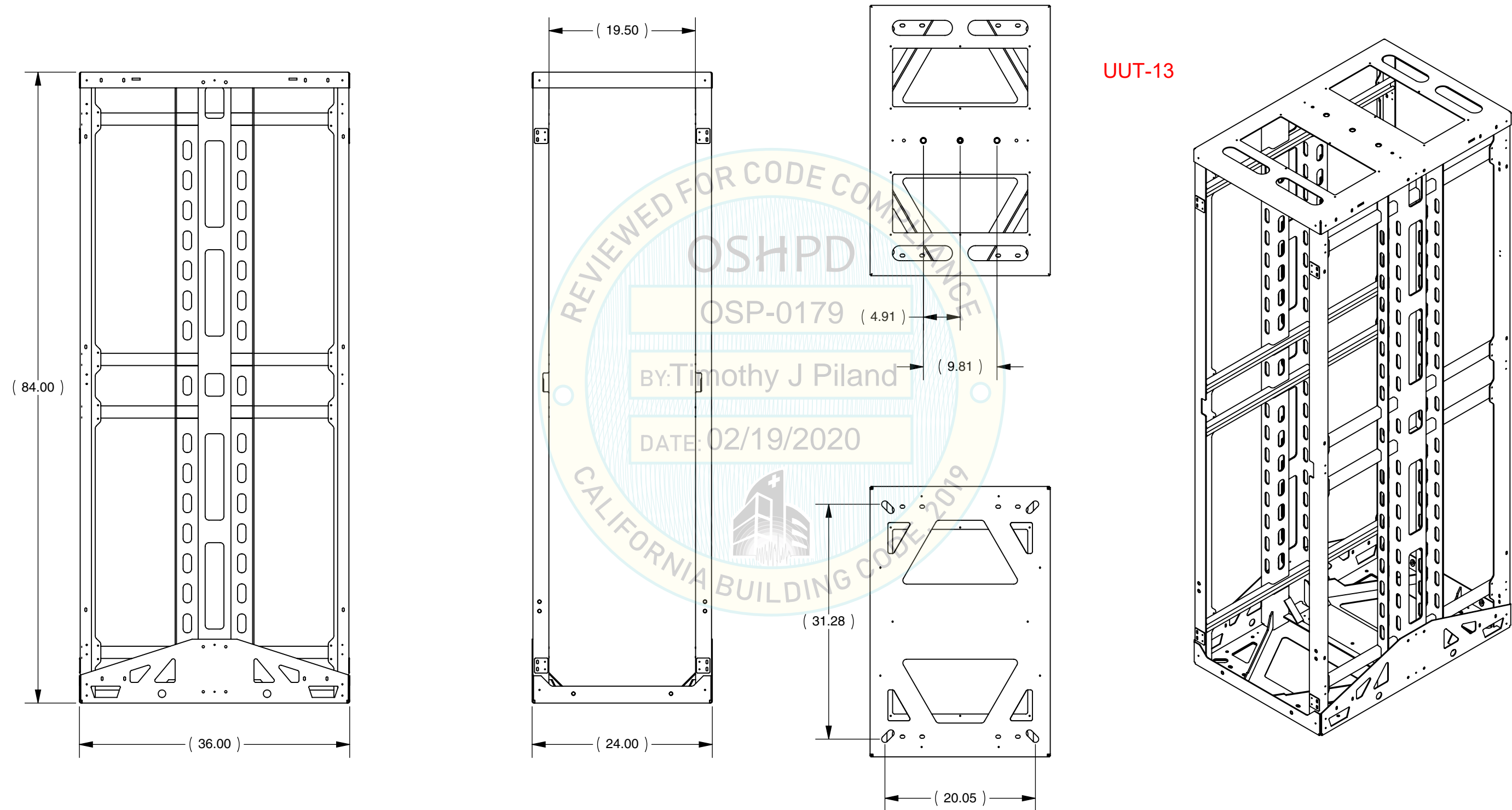
Vertical Cabling Section (VCS) Offset Mounting Bracket Kit

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

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. DIMENSIONS ARE FOR REFERENCE ONLY.
2. DIMENSIONS ARE IN INCHES.
3. MOUNTING RAILS NOT SHOWN.



A0	---	INITIAL RELEASE	4/25/2012	GTH									
REV	ECO	DESCRIPTION	DATE	BY									
drawing no	customer drawing	rev	units	designed by	date	tolerances (unless otherwise specified)	sheet	sheet size	scale	project	projection		
DR1250-84436	RACK: SEISMIC, DATA CENTER, 1250 LB, 24X36	A0	inch	S. SITTON	2/17/2012	.X ±.060 .XX ±.020 .XXX ±.010	1 of 1	B	NTS	R118			
				drawn by	date	hole size: ±.005 angularity: ±1°							
				G. HILBERT	4/25/2012								