OFFICE USE ONLY APPLICATION FOR OSHPD SPECIAL SEISMIC **CERTIFICATION PREAPPROVAL (OSP) APPLICATION #:** OSP - 0058 **OSHPD Special Seismic Certification Preapproval (OSP)** ☐ New ☐ Renewal **Manufacturer Information** Manufacturer: Square D by Schneider Electric Manufacturer's Technical Representative: Scott Littler, Principal Technical Expert Mailing Address: 330 Weakley Lane, Smyrna, TN 37167 Telephone: 615-267-9407 Email: scott.littler@se.com **Product Information** Modular Panelboard System (MPS) Integrated Power and Control Solutions (IPaCS) Product Type: Product Model Number: Varies (see attachment) (List all unique product identification numbers and/or part numbers) Wall mounted distribution and control panelboard sections (modular). General Description: Mounting Description: Rigid – wall mounted **Applicant Information** Applicant Company Name: TRU Compliance, by Structural Integrity Associates, Inc Contact Person: Galen Reid Mailing Address: 233 SW Wilson Ave, Suite 101, Bend, OR 97702 Telephone: 844-TRU-0200 Email: greid@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: 12/30/2019 Title: Program Manager Company Name: TRU Compliance, by Structural Integrity Associates, Inc.

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





California Licens	sed Structural Engineer Responsible	e for the Engineering and Test Report(s)
Company Name:	TRU Compliance, by Structural Integrity	Associates, Inc
Name: Andy Cou	ghlin, SE	California License Number: S6082
Mailing Address: _	233 SW Wilson Ave, Suite 101, Bend, OR	97702
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Supports and At	tachments Preapproval	
(Separate appli	attachments are preapproved under OPM cation for OSHPD Preapproval of Manufacture attachments are not preapproved	r's Certification (OPM) of Supports and attachments is required)
Certification Met	thod (WE)	PD 4
☐ Testing in accordance☐ Other (Please	Specify): OSP-0	0058
	BY: VVIIIIam	Staehlin
Testing Laborato	DATE: 04/06	/2021
Company Name:	Applied Technical Services, Inc. (ATS)	200
Contact Name:	David Common	
Mailing Address:	1049 Triad Court, Marietta, GA 30062	3 600
Telephone: (678)	444-2908 ABU E	mail: DavidC@atslab.com
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Contact Name:	Greg Mason	
Mailing Address:	7800 Highway 20 West, Huntsville, AL 35	5806
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Company Name:	Qual Tech NP by Curtiss-Wright	
Contact Name:	Jason VonNida	
Mailing Address:	4600 Each Tech Drive, Cincinnati, OH 45	5245
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04/06/2021



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) = 1.43 (z/h=1.0), 0.88 (z/h=0.0)
S _{DS} (Design spectral response acceleration at short period, g) = 1.91 (z/h=1.0), 1.96 (z/h=0.0)
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 and 0
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 modificatio <mark>n coe</mark> fficient) =
Ω_0 (System overstrength factor) = $\frac{1}{100}$ William Staehlin
C _d (Deflection amplification factor) =
I_p (Importance factor) = 1.5 DATE: $04/06/2021$
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
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2025
Signature: Date: April 6, 2021
Print Name: William Staehlin Title: Senior Structural Engineer
Special Seismic Certification Valid Up to : S _{DS} (g) = See Above z/h = See Above
Condition of Approval (if applicable):

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 12/16/15)

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



1801106-CR-001 R0

Manufacturer: Square D by Schneider Electric
Model Line: Modular Panelboard System (MPS)

TABLE 1

Certified Product Construction Summary:

NEMA type 1 framed enclosure constructed of powder-coated carbon steel sheet.

Certified Options Summary:

MPS sections consist of a mix of pre-wired NQ, NF, and I-LINE panelboards . SPD is optional (see certified subcomponent tables).

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: $S_{DS} = 1.91 \, \text{g} \quad \text{z/h} = 1.0 \, \text{J}_{P} = 1.5 \, \text{J}_{P} = 1.5$

Madallina		Dia	mensions	(in)58	Weight	Mata:	
Model Line	Model	Depth	Width	Height	(lb)	Notes	UUT
		R\6.0/\/	i_20 ₀	Sta l ehl	in 97	UUT:120V, 225A	1
		9.5	20	43	191	O	Interp.
		9.5	106	20861	200		Interp.
Modular Panelboard	Distribution and	9.5	14	86	250	208-600V, up to 1200A	Interp.
System (MPS)	Control Se <mark>ction</mark>	9.5	20	86	382	200-600V, up to 1200A	Interp.
		9.5	26	86	748		Interp.
		9.5	44	86	848		Interp.
		9.5/	44	86 C	848	UUT:600V, 1200A	2, 6
			BUILI)[[4]			

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

Schneider TRU COMPLIANCE

1801106-CR-001 R0

 Manufacturer:
 Square D by Schneider Electric
 Table Description: Circuit Breakers

 Model Line:
 Modular Panelboard System (MPS)

Building Code: CBC 2019 Seismic Certification Limits: $S_{DS} = 1.91 \text{ g} \quad z/h = 1.0$ $S_{DS} = 1.91 \text{ g} \quad z/h = 0.0$

Component Type	Manufacturer	Model	Description	Notes	UUT
		FA36100	600V, 100A, 6 lbs.		2
		B*	208-600V, 15-125A, 4 lbs.		Interp.
		F*	208-600V, 15-150A, 6 lbs.		Interp.
		QH*/	208-600V, 15-150A, 5 lbs.		Interp.
Molded Case Circuit		Q*	120-240V, 70-250A, 5 lbs.		Interp.
Breakers	Square D	J* By. \/	208-600V, 150-250A, 5 lbs.		Interp.
(2 Pole and 3 Pole)	Square D	OL*	208-600V, 250-600A, 14 lbs.		Interp.
(21 ote and 31 ote)		M*	208-600V, 300-800A, 29 lbs.		Interp.
		P* DATE	208-600V, 250-1200A, 36 lbs.		Interp.
		PGA36120	600V, 1200A, 36 lbs.		2
		R*	208-600V, 1000-1200A, 52 lbs.		Interp.
		RJA36120	600V, 1200A, 52 lbs.		2,6
		Q0*	120-240V, 15-20A, 1 lb.		Extrap.
		QOB130	120V, 30A, 1 lb.		1
Miniature Circuit		QO*	120-240V, 20-150A, 1 lb.		Interp.
Breakers	Square D	E*	120-480V, 15A, 2 lbs.		Interp.
(2 Pole and 3 Pole)		EDB14020	480V, 20A, 2 lbs.		3
		E*	120-480V, 20-125A, 4 lbs.		Interp.
		EDB34125	480V, 125A, 4 lbs.		3

^{*} The sub-components listed here include part numbers which provided identify configuration, manufacturer, and materials. Tested sub-components and interpolated/extrapolated items have the same manufacturer and materials and have similar configuration and construction as the tested units.

TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

Square D by Schneider Electric

Schneider TRU COMPLIANCE

TABLE 3

1801106-CR-001 R0

Manufacturer:

Modular Panelboard System (MPS) Model Line: $S_{DS} = 1.91 g z/h = 1.0$ Building Code: CBC 2019 Seismic Certification Limits: $I_{P} = 1.5$ $S_{DS} = 1.96 g z/h = 0.0$ Description **Component Type** Manufacturer UUT Model **Notes** 240V, 225A, 97 lbs. NQ430L2 1 240V, 100-800A, 300 lbs. NQ* Interp. NF* 600V, 100-800A, 300 lbs. Interp. 600V, 800A, 300 lbs. **Panelboards** Square D NF442L8C 4 HCP50864 600V, 400A, I-Line Family, 540 lbs. 5 HC* 600V, 400-1200A, I-Line Family, 540-826 lbs. Interp. 600V, 1200A, I-Line Family, 826 lbs. HCRU548612U 2

Table Description: Panelboards

^{*} The sub-components listed here include part numbers which provided identify configuration, manufacturer, and materials. Tested sub-components and interpolated/extrapolated items have the same manufacturer and materials and have similar configuration and construction as the tested units.

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

Schneider TRU COMPLIANCE

1801106-CR-001 R0

Manufacturer: Model Line:	Square D by Schneider E Modular Panelboard Sys		Table Description: Surge Pro	otective Devices (SPD)	TA	BLE 4
Building Code: CBC 2		Seismic Certificat	tion Limits: $S_{DS} = 1.91 g$ $S_{DS} = 1.96 g$	$I_{P} = 1.3$		
Component Type	Manufacturer	Model	OR CODE Description		Notes	UUT
SurgeLoc	Square D	SSP02BIA24PBQ1	208V/120V, 80kA-240kA			1
			USMPU M	7		
		4		6		
		Q /	OSP-0058			
		BY: \	William Staehlin			
			AAA IAAA AAA AA YA WAXAA AA			
			- 04/06/2021			
		DAT	E:U4/U6/2U21			
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1801106-CR-001 R0

e: Modular Panelboard S Unit Description	ystem (MF3)				
o int best in parent	Report Number	Testing Laboratory	S _{DS}	z/h	I _P
Panelboard – NQ (UUT1 in test report))	D202932 Rev1	Applied Technical Services, Inc. (ATS)	1.91 1.96	1 0	1.5
Panelboard – I–Line (UUT 1 in test report)	51551-4	NTS - Huntsville (Formerly Wyle Labs)	2.11 3.59	1 0	1.5
Panelboard – NF (0Q016–02–01–01 in test report)	0Q016.0	Curtiss-Wright (Formerly Trentec, Inc.)	2.34 2.70	1 0	1.5
Panelboard – NF (2Q007–02–01–01 in test report)	2Q007.00DEC	Curtiss-Wright (Formerly Trentec, Inc.)	2.33 3.43	1 0	1.5
Panelboard – I-Line (UUT2 in test report)	71437R13	NTS - Huntsville (Formerly Wyle Labs)	2.25 2.55	1 0	1.5
Panelboard – I-Line (UUT1 in test report)	58514R11-1	NTS - Huntsville (Formerly Wyle Labs)	2.17 3.26	1 0	1.5
/ / / /	pv. William Stae	blin			
0	www.www.miairi Stae				
C	DATE: 04/06/202	100			
X,		DE.			
	A BUILDING	COL			
		I	I		
	(UUT1 in test report)) Panelboard – I–Line (UUT 1 in test report) Panelboard – NF (0Q016–02–01–01 in test report) Panelboard – NF (2Q007–02–01–01 in test report) Panelboard – I-Line (UUT2 in test report) Panelboard – I-Line (UUT1 in test report)	(UUT1 in test report)) Panelboard – I–Line (UUT 1 in test report) Panelboard – NF (0Q016-02-01-01 in test report) Panelboard – NF (2Q007-02-01-01 in test report) Panelboard – I-Line (UUT2 in test report) Panelboard – I-Line (UUT1 in test report)	(UUT1 in test report)) Panelboard – I-Line (UUT1 in test report) Panelboard – NF (0Q016-02-01-01 in test report) Panelboard – NF (2Q007-02-01-01 in test report) Panelboard – I-Line (UUT2 in test report) Panelboard – I-Line (UUT2 in test report) Panelboard – I-Line (UUT1 in test report)	Services, Inc. (ATS) 1.96	Services, Inc. (ATS) 1.96 0



UUT 1

1801106-CR-001 R0

Manufacturer: Square D by Schneider Electric

Model Line: Modular Panelboard System (MPS)

Model Number: Panelboard – NQ Serial Number: 12335800420030000

Product Construction Summary:

NEMA type 1 framed enclosure constructed of powder–coated carbon steel sheet.

Options/Subcomponent Summary:

Square D panelboard (NQ430L2), Square D molded case circuit breaker (JGP36250U31X), Square D miniature circuit breaker(QOB330), Square D miniature circuit breaker(QOB130), Square D SurgeLogic surge protection device (SSP02BIA24PBQ1).

			UUT Pr	operties		V.					
Weight		Dimension (in)		Lowest Natural Frequency (Hz)						
(lb)	(lb) Depth Width			OS Height 58		Front-Back		-Side	Vertical		
97	6	6 20		44		/A	N	/A	N/A		
		UUT Highes	st Passed Se	eismic Run	Informa	ation					
Buildi	ng Code	Test Crit	eria	S _{DS} (g)	z/h	I _P O	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CPC	CBC 2019		ICC-ES AC156 (2012)		1.0	1.5	3.06	2.29	1.31	0.52	
CBC	2019	ICC-E3 ACIS	0 (2012)	1.96	0.0	1.5	3.00	2.29	1.51	0.52	

Test Mounting Details:



(4) 3/8–16 grade 5 bolts and flat washers at 30 ft–lbs torque. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



UUT 2

1801106-CR-001 R0

Manufacturer: Square D by Schneider Electric

Model Line: Modular Panelboard System (MPS)

Model Number: Panelboard – I–Line **Serial Number:** 12196293900010001

Product Construction Summary:

NEMA type 1 framed enclosure constructed of powder–coated carbon steel sheet.

Options/Subcomponent Summary:

Square D panelboard (HCRU548612U), Square D molded case circuit breaker (RGA36120CU31A), Square D molded case circuit breaker (PGA36120), Square D molded case circuit breaker (KCA36250), Square D molded case circuit breaker (FA36100).

			UUT PI	operties		7				
Weight		Dimension (in)			Lowes	t Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	OSRe	ight 58	Front	t-Back	Side	-Side	Vertical	
826	9.5	44		86	//////////////////////////////////////	I/A	N	/A	N	/A
		UUT Highes	st Passed S	eismic Rur	Inform.	ation			,	
Buildi	ng Code	Test Crit	eria	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 AC15	ert2604/0	6/2,140	1.0	1.5	3.59	2.53	2.39	0.96
СВС	. 2019	ICC-ES ACIS	o <u>t</u> zw4)/ ()	3.59	0.0	1.5	3.39	2.55	2.39	0.96

Test Mounting Details:



(2) 3/8–16 grade 5 bolts and flat washers at 30 ft–lbs torque located at bottom and standard wall mount at top using (4) 3/8–16 grade 5 bolts at 30 ft–lb torque. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

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UUT3

1801106-CR-001 R0

Manufacturer: Square D by Schneider Electric

Model Line: Modular Panelboard System (MPS)

Model Number: Panelboard – NF **Serial Number:** 012788399–002–01

Product Construction Summary:

NEMA type 1 framed enclosure constructed of powder–coated carbon steel sheet.

Options/Subcomponent Summary:

Square D panelboard (012788399–002), Square D molded case circuit breaker (LCL36600), Square D miniature circuit breaker(EDB34125), Square D miniature circuit breaker(EDB14020).

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			UUT Pr	operties		7					
Weight		Dimension (in)			Lowest Natural Frequency (Hz)						
(lb)	Depth	/ Width	OS Height 58		Front	Front-Back		-Side	Vertical		
243	8	26	8	30	//////////////////////////////////////	I/A	N	/A	N	/A	
		UUT Highes	t Passed S	eismic Run	Inform.	ation			,		
Buildi	ing Code	Test Crite	eria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CD	C 2019	ICC-ES AC156	1260d\()	2,34	1.0	1.5	3.74	2.01	1 00	0.72	
CBC	C 2019	ICC-ES AC156	H\$000)/\(\)	2.70	0.0	1.5	3.74	2.81	1.80	0.72	

Test Mounting Details:



(4) 5/16–18 grade 2 bolts and flat washers at 150 in–lb torque. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

TRU Compliance, by Structural Integrity Associates, Inc.

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UUT 4

1801106-CR-001 R0

Manufacturer: Square D by Schneider Electric

Model Line: Modular Panelboard System (MPS)

Model Number: Panelboard – NF Serial Number: P000697-002-M2

Product Construction Summary:

NEMA type 1 framed enclosure constructed of powder–coated carbon steel sheet.

Options/Subcomponent Summary:

Square D panelboard - factory assembled only (NF442L8C), Square D miniature circuit breaker(EDB34100), Square D miniature circuit breaker(EDB14020), Square D molded case circuit breaker (LAL36400).

			UUT Pi	operties		7				
Weight		Dimension (in)				Lowes	t Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	OSF	ight 58	Front	t-Back	Side	-Side	Vertical	
300	8.75	26		92	//////////////////////////////////////	I/A	N	/A	N	/A
		UUT Highes	t Passed S	eismic Rur	Inform.	ation			,	
Buildi	ng Code	Test Crite	eria	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	31200A/O	2,33	1.0	1.5	3.73	2.80	2.29	0.92
СВС	. 2019	ICC-ES ACISC	54200 4) / O	3.43	0.0	1.5	3.13	2.00	2.29	0.92

Test Mounting Details:



(4) 3/8–16 grade 2 bolts and flat washers at 9 ft–lb torque. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

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UUT5

1801106-CR-001 R0

Manufacturer:Square D by Schneider ElectricModel Line:Modular Panelboard System (MPS)

Serial Number: 2013SEISMIC002

Model Number: Panelboard – I–Line

Product Construction Summary:

NEMA type 1 framed enclosure constructed of powder–coated carbon steel sheet.

Options/Subcomponent Summary:

Square D panelboard (HCP50864), Square D molded case circuit breaker (QDA221004), Square D molded case circuit breaker (QDA32200), Square D molded case circuit breaker (HDA36030), Square D molded case circuit breaker (JDA36200), Square D molded case circuit breaker (LA36400), Square D molded case circuit breaker (PGA36080CU31A), Square D molded case circuit breaker (PGA36100).

			UUT PI	roperties		7			,	
Weight		Dimension (in				Lowes	t Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	OSR	eight 58	Front	t-Back	Side	-Side	Ver	tical
540	9.5	42		86	N/A		N/A		N/A	
		UUT Highe.	st Passed S	eismic Rur	Inform	ation			,	
Buildi	ng Code	Test Crit	teria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CPC	2019	ICC-ES AC15	E12004/0	2,25	1.0	1.5	3.60	2.70	1.70	0.68
CBC	. 2019	ICC-ES ACIS	012004)/ O	2.55	0.0	1.5	3.60	2.70	1.70	0.00

Test Mounting Details:



(8) 3/8–16 grade 5 bolts and flat washers at 25 ft–lbs torque. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

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UUT 6

1801106-CR-001 R0

Manufacturer: Square D by Schneider Electric

Model Line: Modular Panelboard System (MPS)

Model Number: Panelboard – I–Line Serial Number: HCR548612U

Product Construction Summary:

NEMA Type 1 constructed of carbon steel sheet with a powder coated finish.

Options/Subcomponent Summary:

Side extension, I-line Interior (HCRU548612U), Square D molded case circuit breaker (RJA36120), Square D molded case circuit breaker (JLA36250U54X), Square D molded case circuit breaker (HJA26150), Square D molded case circuit breaker (LLA36600U54X), Square D molded case circuit breaker (PJA36800), Square D molded case circuit breaker (HLA36150U54X)

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			UUT Pr	operties		7					
Weight		Dimension (in)		Lowest Natural Frequency (Hz)						
(lb)	Depth	Depth Width OSH			Front-Back		Side	-Side	Vertical		
848	9.5	44	8	36	//////////////////////////////////////	/A	N	/A	N	/A	
		UUT Highes	st Passed Se	eismic Rur	Inform	ation					
Buildi	ng Code	Test Crit	eria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CDC	2019	ICC-ES AC15	c (2000) / ()	s/2,170	1.0	1.5	3.47	2.6	2.17	0.87	
CBC	, 2013	ICC-ES ACIS	075000)	3.26	0.0	1.5	3.47	2.0	2.17	0.87	

Test Mounting Details:



Rigid wall mounted using (8) 3/8"-16 grade 5 bolts and flat washers in the main enclosure, and (8) 3/8"-16 grade 5 bolts and flat washers in the side extension, all torqued to 30 ft-lbs.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

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