



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

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

OFFICE USE ONLY

APPLICATION #: OSP-0057

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Siemens Industry, Inc.

Manufacturer's Technical Representative: Johnar Maneja

Mailing Address: 2 Gatehall Drive, Parsippany, NJ 07054

Telephone: (862) 222-3327 Email: johnar.maneja@siemens.com

Product Information

Product Name: FireFinder XLS, Desigo Fire Safety Modular, & Cerberus PRO Modular

Product Model Number(s): Various (See Attachment)

Product Category: Electrical Control Panels on Life Safety/Critical Branch

Product Sub-Category: Fire Alarm & Security Panels

General Description: Fire Control Panels with internal and external components as shown in the attachment.

Mounting Description: Wall Mounted Rigid

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: Pre Compliance

Contact Person: Galen Reid

Mailing Address: 324 NW Hill St., Bend, OR 97703

Telephone: (541) 241-2310 Email: galen@gp-pre.com

Title: Principal and Program Manager

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY



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

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

Company Name: PRE COMPLIANCE

Name: Andrew Coughlin California License Number: S6082

Mailing Address: 324 NW Hill St, Bend, OR 97703

Telephone: (415) 635-8461 Email: Andy@go-pre.com

Certification Method

GR-63-Core ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3

Other (Please Specify): _____

Testing Laboratory

Company Name: NATIONAL TECHNICAL SYSTEMS (NTS)

Contact Person: Clayton Forbes

Mailing Address: 1146 Massachusetts Avenue, Boxborough MA 01719

Telephone: (978) 266-1001 Email: clayton.forbes@nts.com

Company Name: NATIONAL TECHNICAL SYSTEMS (NTS)

Contact Person: Mike Shook

Mailing Address: 1536 East Valencia Drive, Fullerton CA 92831

Telephone: (714) 879-6110 Email: Mike.Shook@nts.com

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Contact Person: anuj Kumar

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Telephone: (510) 578-3500 Email: anuj.kumar@nts.com

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Seismic Parameters

Certified Response Spectral Acceleration Factors: (F_p/W_p)

Horizontal (A Flx-H), g= 3.20 (A Rig-H), g= 2.15

Vertical (A Flx-V), g= 1.34 (A Rig-V), g= 0.54

SDS (Design spectral response acceleration at short period, g) = 2.0

H_f (Force amplification height factor) = 1 @ z/h = 0; 3.5 @ z/h = 0

R_u (Structure ductility reduction factor) = 1 @ z/h = 0; 1.3 @ z/h = 0

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 0 and 1

HCAi Approval (For Office Use Only) - Approval Expires on 12/17/2031

Date: 12/17/2025

Name: Mohammad Karim

Title: Supervisor, Health Facilities

Condition of Approval (if applicable): _____



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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY



SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

Manufacturer: Siemens Industry, Inc.
Product Type: Fire Alarm & Security Panels
Model Line: Firefinder XLS, Designo Fire Safety Modular, & Cerberus PRO Modular

Seismic Parameters	Building Codes
$S_{DS} = 2.0g$ for $z/h=1, R_{\mu}=1.3, H_f=3.5$	$I_p=1.5$
$S_{DS} = 2.0g$ for $z/h=0, R_{\mu}=1.0, H_f=1.0$	CBC 2025

TABLE 1

Mounting Configuration: Wall Mounted - Rigid

Construction Summary

Painted, cold rolled carbon steel alarm cabinet
enclosures, NEMA Type 1

Options Summary

See Tables 2 & 3 for a complete listing of certified components and options.

Model Line	Model	Max. Dimensions (in)			Wt. (lb)	Notes	UUT
		D	W	H			
Firefinder XLS, Desigo Life Safety Modular, and Cerberus PRO Modular	CAB-1	8.3	26.1	27	70	16 gauge UUT11: 64 lbs. UUT14: 62 lbs.	3,11,14
	CAB-2	8.3	26.1	44.8	90.0	16 gauge UUT15: 72 lbs.	9,15
	CAB-3	8.3	26.1	62.5	173.0	16 gauge UUT16: 101 lbs.	6,10,16
	PAD-3	2.4	12.1	17	24	18 gauge	1
	PAD-4	2.4	12.1	17	27	18 gauge	2
	PAB-ENCL-R	3.8	16	24	28	Red enclosure	Interp.
	PAB-ENCL	3.8	16	24	28	Black enclosure	12
	PAB2-ENCL-R	5.5	16	40	49	Red enclosure	Interp.
	PAB2-ENCL	5.5	16	40	49	Black enclosure	13
	REMBOX4	5.0	24	19	33	16 gauge	4,5
	CAB-BATT	7.0	26	12	136	16 gauge UUT7: w/(2) - 100Ah UUT8: w/ (2) - 55Ah (84 lbs.)	7,8



Pre No. CC251799-01-R0

SPECIAL SEISMIC CERTIFICATION

CERTIFIED SUBCOMPONENTS

Manufacturer: Siemens Industry, Inc.
Product Type: Fire Alarm & Security Panels
Model Line: Firefinder XLS, Design Fire Safety Modular, & Cerberus PRO Modular

Seismic Parameters

$S_{DS} = 2.0g$ for $z/h=1, R_{\mu}=1.3, H_f=3.5$ $I_p=1.5$

$S_{DS} = 2.0g$ for $z/h=0, R_{\mu}=1.0, H_f=1.0$

Building Codes

CBC 2025

TABLE 2

Table Description: Enclosure Parts

Component (Manufacturer)	Model	Description	Notes	UUT
Enclosure (Siemens)	CAB1	Cabinet (Doors and Back Box)		3,14
	CAB1R	Cabinet (Doors and Back Box), Red	Same as CAB1 (color)	Interp.
	CAB2	Cabinet (Doors and Back Box)		9,15
	CAB2-BB	Back Box	Part of CAB2	9
	CAB2R	Cabinet (Doors and Back Box), Red	Same as CAB2 (color)	Interp.
	CAB2-RB	Back Box, Red	Part of CAB2R	Interp.
	CAB2-X	CAB2 with Transponder Door	CAB2 with CAB2-XBD	Interp.
	CAB3	Cabinet		6,10,16
	CAB3-BB	Back Box	Part of CAB3	6,10
	CAB3R	Cabinet	Same as CAB3 (color)	Interp.
	CAB3-RB	Back Box	Part of CAB3R	Interp.
	CAB3-X	CAB3 with Transponder Door	Similar to CAB3 (w/out inner door)	Interp.
	CAB-BATT	Enclosure for Batteries		7,8
	CAB-BATT/R	Enclosure for Batteries	Same as CAB-BATT (color)	Interp.
	EN-PAD	Enclosure for PAD-3		1
	EN-PADR	Enclosure for PAD-3	Same as EN-PAD (color)	Interp.
	PAD-3	Enclosure		1
	PAD-3R	Enclosure	Same as PAD-3 (color)	Interp.
	PAD-4	Enclosure		2
	REMBOX2	Enclosure	Similar to REMBOX4 (smaller size)	Interp.
	REMBOX4	Enclosure		4,5
	PAB-ENCL	Pad & AMP Booster ENCL 1HU Black	Part of Smaller PAD-5	12
	PAB-ENCL-R	Pad & AMP Booster ENCL 1HU Red	Same as PAB-ENCL (color)	Interp.
	PAB2-ENCL	Pad & AMP Booster ENCL 2HU Black	Part of Larger PAD-5	13
	PAB2-ENCL-R	Pad & AMP Booster ENCL 2HU Red	Same as PAB2-ENCL (color)	Interp.
Bracket (Siemens)	PAD3-BATT-BRKT	Battery Hold Down Bracket		1
	PAD4-BATT-BRKT	Battery Hold Down Bracket		2
	CAB-55-BRKT	Battery Hold Down Bracket		8,9
	CAB-100-BRKT	Battery Hold Down Bracket		7,10
	COM-BRK	Bracket for Fiber Modules		9,10,14

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENTS

Manufacturer: Siemens Industry, Inc.
Product Type: Fire Alarm & Security Panels
Model Line: Firefinder XLS, Design Fire Safety Modular, & Cerberus PRO Modular

Seismic Parameters	Building Codes
$S_{DS} = 2.0g$ for $z/h=1, R_{\mu}=1.3, H_f=3.5$	$I_p=1.5$ CBC 2025
$S_{DS} = 2.0g$ for $z/h=0, R_{\mu}=1.0, H_f=1.0$	

TABLE 2

Table Description: Enclosure Parts

Component (Manufacturer)	Model	Description	Notes	UUT
Door (Siemens)	CAB2-BD	CAB2 Door Set		9
	CAB2-RD	CAB2R Door Set, Red	Same as CAB2-BD (color)	Interp.
	CAB2-XBD	CAB2 Transponder Door	Similar to CAB2-BD (w/out inner door)	Interp.
	CAB2-XRD	CAB2 Transponder Door, Red	Same as CAB2-XBD (color)	Interp.
	CAB3-BD	CAB3 Door Set	Part of CAB3	6,10
	CAB3-RD	CAB3R Door Set, Red	Same as CAB3-BD (color)	Interp.
	CAB3-XBD	CAB3 Transponder Door	Similar to CAB3-BD (w/out inner door)	Interp.
	CAB3-XRD	CAB3 Transponder Door, Red	Same as CAB3-XBD (color)	Interp.
Plate (Siemens)	ID-SP	Mounting Plate		3,6
	REMBOX2-MP	Mounting Plate	Similar to REMBOX4-MP (smaller size)	Interp.
	REMBOX4-MP	Mounting Plate	Part of REMBOX4	5
	BCM	Blank Control Plate		3
	OD-BP	Blank Plate		6,9,10
	OD-BP-R	Blank Plate	Same as OD-BP (color)	Interp.
	OD-GP	Grill Plate	Similar to OD-BP (louver)	Interp.
	OD-GP-R	Grill Plate	Same as OD-GP (color)	Interp.
	OD-LP	Lens Plate		3,6,9,10
	CAB-MP	Cabinet Mounting Plate		9,10
	PAD-5 ADAPTER PLATE	Adapter Plate		12,13
Trim Kit (Siemens)	CAB1R-TK	Trim Kit Cabinet	Same as CAB1-TK (color)	Interp.
	CAB1-TK	Trim Kit Cabinet	Part of CAB1	3
	CAB2R-TK	Trim Kit Cabinet	Same as CAB2-TK (color)	Interp.
	CAB2-TK	Trim Kit Cabinet	Part of CAB2	Interp.
	CAB3R-TK	Trim Kit Cabinet	Same as CAB3-TK (color)	Interp.
	CAB3-TK	Trim Kit Cabinet	Part of CAB3	6,10

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENTS

Manufacturer: Siemens Industry, Inc.
Product Type: Fire Alarm & Security Panels
Model Line: Firefinder XLS, Design Fire Safety Modular, & Cerberus PRO Modular

Seismic Parameters	Building Codes
$S_{DS} = 2.0g$ for $z/h=1, R_\mu=1.3, H_f=3.5$	$I_p=1.5$ CBC 2025
$S_{DS} = 2.0g$ for $z/h=0, R_\mu=1.0, H_f=1.0$	

TABLE 3

Table Description: Electrical Components

Component (Manufacturer)	Model	Description	Notes	UUT
Circuit Board (Siemens)	AIC	Audio Input Card		6
	CC-2	Card Cage-2 slot	Similar to CC-5 (fewer slots)	Interp.
	CC-5	Card Cage-5 slot		3,6,9, 10,16
	CDC-4	Detector Card	Same as NIC-C (label)	Interp.
	CRC-6	Detector Card	Same as NIC-C (label)	Interp.
	CSB	Sounder Board		6
	DAC-NET	Digital Audio Card		6,9
	DLC	Device Loop Card		3
	FN2006	Fiber Optic Interface		9,10
	FN2007	Fiber Optic Interface		9,10
	FMT-A-ADPT	Wiring Adapter		6
	LPB	Local Page Board		6,9
	MLC	MXL Line Card Loop		10
	NIC-C	Network Interface Card		6,10,14
	NRC	Network Ring Card		9,10
	OCM-16	Output Control Module		5
	PFSA	AC Input Module		14,15, 16
	PTB	Power Termination Board		3,6,9, 10
	RNI	Remote Network Interface		4, 5
	TZC-8B	FF Telephone Card		6
	VESDA-NET-HLI	High Level Interface for Vesda		10
	VPM	Vesda Peripheral Module		10
	X200	Cloud Gateway Connection		16
	XDLC	Device Loop Card		11,15
	XNLC	Device Loop Card	Same as XDLC	Interp.
	XDMC	Digital Message Card		9
	XINC	Network Ring Card		15,16
	LDC	Long Distance Copper Module	Used with XINC	15,16
	FN2016-U1	Ethernet Module	Used with XINC	15,16
	FN2017-U1	Multi-Mode Fiber Module	Used with XINC	15,16

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENTS

Manufacturer: Siemens Industry, Inc.
Product Type: Fire Alarm & Security Panels
Model Line: Firefinder XLS, Design Fire Safety Modular, & Cerberus PRO Modular

Seismic Parameters

$S_{DS} = 2.0g$ for $z/h=1, R_{\mu}=1.3, H_f=3.5$ $I_p=1.5$

$S_{DS} = 2.0g$ for $z/h=0, R_{\mu}=1.0, H_f=1.0$

Building Codes

CBC 2025

TABLE 3

Table Description: Electrical Components

Component (Manufacturer)	Model	Description	Notes	UUT
Circuit Board (Siemens)	FN2018-U1	Single-Mode Fiber Module	Used with XINC	Interp.
	XVCC	Voice Control Card		16
	ZAC-40	Zone Amplifier Card		6,9,16
	ZAM-180	Zone Amplifier Module		6
	ZIC-2C	Zone Adapter Card		3
	ZIC-4A	Zone Indicating Card		3,10,14 15,16
	ZIC-8B	Zone Indicating Card		3
Cable (Siemens)	CCL	CAN-CABLE		6
Control Panel (Siemens)	FCM-6	Fan Control Module		6
	LCM-8	LED Annunciator Module		6
	PMI	Operator Interface		3,4,6
	PMI-2	Personal Machine Interface		9,10
	FCM2041-U2	Personal Machine Interface		11,16
	FCM2041-U3	Personal Machine Interface		11,16
Mounting Plate (Siemens)	ID-MP	Door Mounting Plate		5,6
	VPM-MP	Mounting Plate for VPM		10
Battery (Siemens)	BT-33	7AH Battery		1,2
	BTX-2	55 AH Battery		8,9
	BTX-3	100 AH Battery		7,10
Battery Charger (Siemens)	PSC-12	Power Supply & Battery Charger		3,6,9, 10
	PSX-12	Power Supply & Battery Charger		6
	PSC-12M	Power Supply & Battery Charger		14,15, 16
	PSX-12M	Power Supply & Battery Charger	Similar to PSC-12M	Interp.
PA Microphone (Siemens)	LVM	Live Voice Module		4,6,9
Telephone (Siemens)	FMT	Fireman's Telephone		4,6
Power Supply (Siemens)	PAD-4-MB	Aux. Power Supply		2
	PAD-3-MB	Aux. Power Supply		1

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENTS

Manufacturer: Siemens Industry, Inc.
Product Type: Fire Alarm & Security Panels
Model Line: Firefinder XLS, Design Fire Safety Modular, & Cerberus PRO Modular

Seismic Parameters

$S_{DS} = 2.0g$ for $z/h=1, R_\mu=1.3, H_f=3.5$ $I_p=1.5$

$S_{DS} = 2.0g$ for $z/h=0, R_\mu=1.0, H_f=1.0$

Building Codes

CBC 2025

TABLE 3

Table Description: Electrical Components

Component (Manufacturer)	Model	Description	Notes	UUT
Power Supply (Siemens)	PAD-5-MB	Aux. Power Supply		12,13
	PAD-5-CLSA	Aux. Power Supply		12,13
	PAD-5-CDC	Aux. Power Supply		12,13
Switch (Siemens)	SCM-8	Switch Module		5,6
	SIM-16	Switch Module		5
	FN2013-U1	Fiber Switch		14
	FN2014-U1 ¹	Fiber Switch	Similar to FN2013-U1	Interp.
	FN2006-U1 ¹	Fiber Switch	Similar to FN2013-U1	Interp.
	FN2007-U1 ¹	Fiber Switch	Similar to FN2013-U1	Interp.

Notes:

¹Construction of the fiber switches are identical to FN2013-U1, units differ in software only.



SPECIAL SEISMIC CERTIFICATION TESTING SUMMARY

Pre No. CC251799-01-RO

UUT	Model	Test Report	Test Date	Test Laboratory	S _{DS}	z/h	R _μ	H _f	I _p
1	PAD-3	Q9026.0 R1	12/15/2009	Qual Tech	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
2	PAD-4	Q9026.0 R1	12/15/2009	Qual Tech	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
3	CAB-1	Q9026.0 R1	12/15/2009	Qual Tech	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
4	REMBOX4 (Config #1)	Q9026.0 R1	12/15/2009	Qual Tech	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
5	REMBOX4 (Config #2)	Q9026.0 R1	12/15/2009	Qual Tech	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
6	CAB-3	Q9026.0 R1	12/15/2009	Qual Tech	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
7	CAB-BATT (2-100Ah)	Q9026.0 R1	12/15/2009	Qual Tech	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
8	CAB-BATT (2-55Ah)	Q9026.0 R1	12/15/2009	Qual Tech	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
9	CAB-2	PR032091 R4	10/14/2014	NTS Fullerton	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
10	CAB-3	PR032091 R4	10/14/2014	NTS Fullerton	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
11	CAB-1	PR069604.03	N/A	NTS Silicon Valley	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
12	PAB-ENCL	PR069604.03	N/A	NTS Silicon Valley	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
13	PAB2-ENCL	PR069604.03	N/A	NTS Silicon Valley	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
14	CAB-1	PR163923 R2 (EUT 1)	N/A	NTS Boxborough	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
15	CAB-2	PR163923 R2 (EUT 2)	N/A	NTS Boxborough	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5
16	CAB-3 w/X200, XVCC	PR163923 R2 (EUT 3)	N/A	NTS Boxborough	2.0 2.0	1 0	1.3 1.0	3.5 1.0	1.5

Notes:

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 1

Test Report# Q9026.0 R1

Manufacturer: Siemens Industry, Inc.
Model Line: Firefinder XLS, Designo Fire Safety Modular, & Cerberus PRO Modular
Model Number: PAD-3

Highest Passed Test Level									
S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}	
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54	
2.00	0.0	1.0	1.0						

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
24	12.1	17	24

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Painted, cold rolled carbon steel alarm cabinet enclosures, NEMA Type 1

UUT Mounting Details:

List of Included Subcomponents

List of Included Subcomponents	
Description ¹	Model
Enclosure	EN-PAD, PAD-3
Bracket	PAD3-BATT-BRKT
Battery	BT-33
Power Supply	PAD-3-MB

UUT was rigid wall mounted using (4) Grade 2 or less #14x1" Type A bolts.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

¹All Subcomponents manufactured by Siemens Industry, Inc.

SPECIAL SEISMIC CERTIFICATION

UUT SUMMARY

UUT 2

Test Report# Q9026.0 R1

Manufacturer: Siemens Industry, Inc.
Model Line: Firefinder XLS, Desigo Fire Safety Modular, & Cerberus PRO Modular
Model Number: PAD-4

Highest Passed Test Level								
S_{DS}	z/h	R_p	H_f	I_p	A_{flex-h}	A_{rig-h}	A_{flex-v}	A_{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
2.4	12.1	17	27

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

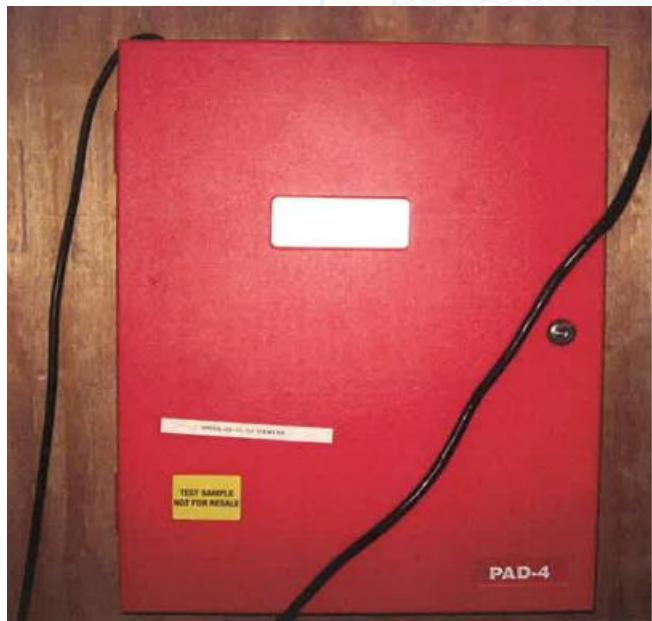
CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Painted, cold rolled carbon steel alarm cabinet enclosures, NEMA Type 1

UUT Mounting Details:**List of Included Subcomponents**

Description ¹	Model
Enclosure	PAD-4
Bracket	PAD4-BATT-BRKT
Battery	BT-33
Power Supply	PAD-4-MB

UUT was rigid wall mounted using (4) Grade 2 or less #14x1" Type A bolts.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

¹All Subcomponents manufactured by Siemens Industry, Inc.

SPECIAL SEISMIC CERTIFICATION

UUT SUMMARY

UUT 3

Test Report# Q9026.0 R1

Manufacturer: Siemens Industry, Inc.
Model Line: Firefinder XLS, Desigo Fire Safety Modular, & Cerberus PRO Modular
Model Number: CAB-1

Highest Passed Test Level								
S_{DS}	z/h	R_p	H_f	I_p	A_{flex-h}	A_{rig-h}	A_{flex-v}	A_{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
8.3	26.1	27	70

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

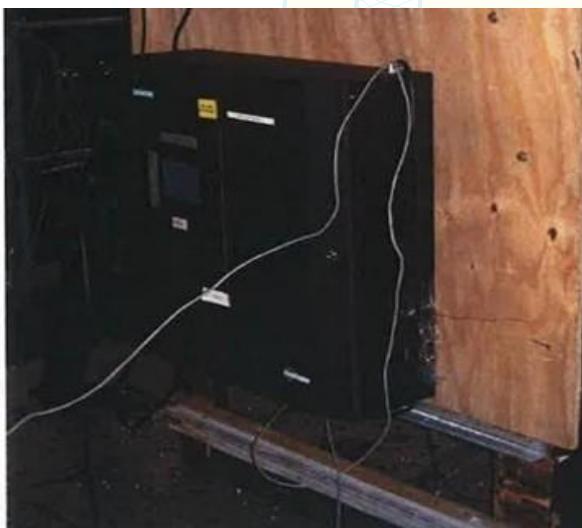
CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Painted, cold rolled carbon steel alarm cabinet enclosures, NEMA Type 1

UUT Mounting Details:

List of Included Subcomponents	
Description ¹	Model
Enclosure	CAB1
Plate	ID-SP
Plate	BCM
Plate	OD-LP
Trim Kit	CAB1-TK
Circuit Board	CC-5
Circuit Board	DLC
Circuit Board	PTB
Circuit Board	ZIC-2C
Circuit Board	ZIC-4A
Circuit Board	ZIC-8B
Battery Charger	PSC-12
Control Panel	PMI

UUT was rigid wall mounted using (3) Grade 2 or less 5/16" bolts.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

¹All Subcomponents manufactured by Siemens Industry, Inc.

SPECIAL SEISMIC CERTIFICATION

UUT SUMMARY

UUT 4

Test Report# Q9026.0 R1

Manufacturer: Siemens Industry, Inc.
Model Line: Firefinder XLS, Desigo Fire Safety Modular, & Cerberus PRO Modular
Model Number: REMBOX4 (Config #1)

Highest Passed Test Level								
S_{DS}	z/h	R_p	H_f	I_p	A_{flex-h}	A_{rig-h}	A_{flex-v}	A_{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
5	24	19	33

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Painted, cold rolled carbon steel alarm cabinet enclosures, NEMA Type 1

UUT Mounting Details:



List of Included Subcomponents

Description ¹	Model
Enclosure	REMBOX4
Circuit Board	RNI
Control Panel	PMI
PA Microphone	LVM
Telephone	FMT

UUT was rigid wall mounted using (4) Grade 2 or less #14x1" Type A bolts.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

¹All Subcomponents manufactured by Siemens Industry, Inc.

SPECIAL SEISMIC CERTIFICATION

UUT SUMMARY

UUT 5
Test Report# Q9026.0 R1

Manufacturer: Siemens Industry, Inc.
Model Line: Firefinder XLS, Desigo Fire Safety Modular, & Cerberus PRO Modular
Model Number: REMBOX4 (Config #2)

Highest Passed Test Level								
S_{DS}	z/h	R_p	H_f	I_p	A_{flex-h}	A_{rig-h}	A_{flex-v}	A_{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
5	24	19	33

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Painted, cold rolled carbon steel alarm cabinet enclosures, NEMA Type 1

UUT Mounting Details:

List of Included Subcomponents

Description ¹	Model
Enclosure	REMBOX4
Plate	REMBOX4-MP
Circuit Board	OCM-16
Circuit Board	RNI
Mounting Plate	ID-MP
Switch	SCM-8
Switch	SIM-16

UUT was rigid wall mounted using (4) Grade 2 or less #14x1" Type A bolts.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

¹All Subcomponents manufactured by Siemens Industry, Inc.

SPECIAL SEISMIC CERTIFICATION

UUT SUMMARY

UUT 6
Test Report# Q9026.0 R1

Manufacturer: Siemens Industry, Inc.
Model Line: Firefinder XLS, Desigo Fire Safety Modular, & Cerberus PRO Modular
Model Number: CAB-3

Highest Passed Test Level								
S_{DS}	z/h	R_p	H_f	I_p	A_{flex-h}	A_{rig-h}	A_{flex-v}	A_{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
8.3	26.1	62.5	173

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Painted, cold rolled carbon steel alarm cabinet enclosures, NEMA Type 1

UUT Mounting Details:


UUT was rigid wall mounted using (6) Grade 2 or less #14x1" Type A bolts.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents	
Description ¹	Model
Enclosure	CAB3
Enclosure	CAB3-BB
Door	CAB3-BD
Plate	ID-SP
Plate	OD-BP
Plate	OD-LP
Trim Kit	CAB3-TK
Battery Charger	PSC-12
Battery Charger	PSX-12
Cable	CCL
Circuit Boards	AIC / CC-5 / CSB
Circuit Board	DAC-NET
Circuit Board	FMT-A-ADPT
Circuit Boards	LPB / NIC-C
Circuit Boards	PTB / TZC-8B
Circuit Board	ZAC-40
Circuit Board	ZAM-180
Control Panel	FCM-6
Control Panel	LCM-8
Control Panel	PMI
Mounting Plate	ID-MP
PA Microphone	LVM
Switch	SCM-8
Telephone	FMT

¹All Subcomponents manufactured by Siemens Industry, Inc.

UUT 7

Test Report# Q9026.0 R1

Manufacturer: Siemens Industry, Inc.
Model Line: Firefinder XLS, Design Fire Safety Modular, & Cerberus PRO Modular
Model Number: CAB-BATT (2-100Ah)

Highest Passed Test Level									
S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}	
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54	
2.00	0.0	1.0	1.0						

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
7	26	12	136

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Painted, cold rolled carbon steel battery cabinet
(2-100Ah)

UUT Mounting Details:



List of Included Subcomponents

Description ¹	Model
Enclosure	CAB-BATT
Bracket	CAB-100-BRKT
Battery	BTX-3

UUT was rigid wall mounted using (5) Grade 2 or less #14x1" Type A bolts.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

¹All Subcomponents manufactured by Siemens Industry, Inc.

UUT 8

Test Report# Q9026.0 R1

Manufacturer: Siemens Industry, Inc.
Model Line: Firefinder XLS, Designo Fire Safety Modular, & Cerberus PRO Modular
Model Number: CAB-BATT (2-55Ah)

Highest Passed Test Level									
S_{DS}	z/h	R_μ	H_f	I_p	A_{flx-h}	A_{rig-h}	A_{flx-v}	A_{rig-v}	
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54	
2.00	0.0	1.0	1.0						

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
7	26	12	84

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Painted, cold rolled carbon steel battery cabinet
(2-55Ah)

UUT Mounting Details:



List of Included Subcomponents

Description ¹	Model
Enclosure	CAB-BATT
Bracket	CAB-55-BRKT
Battery	BTX-2

UUT was rigid wall mounted using (6) Grade 2 or less #14x1" Type A bolts.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

¹All Subcomponents manufactured by Siemens Industry, Inc.

SPECIAL SEISMIC CERTIFICATION

UUT SUMMARY

UUT 9
Test Report# PR032091 R4

Manufacturer: Siemens Industry, Inc.
Model Line: Firefinder XLS, Design Fire Safety Modular, & Cerberus PRO Modular
Model Number: CAB-2

Highest Passed Test Level								
S_{DS}	z/h	R_p	H_f	I_p	A_{flex-h}	A_{rig-h}	A_{flex-v}	A_{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
8.3	26.1	44.8	90

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Painted, cold rolled carbon steel alarm cabinet enclosures, NEMA Type 1

UUT Mounting Details:


List of Included Subcomponents	
Description ¹	Model
Enclosure	CAB2
Enclosure	CAB2-BB
Bracket	CAB-55-BRKT
Bracket	COM-BRK
Door	CAB2-BD
Plate	OD-BP
Plate	OD-LP
Plate	CAB-MP
Battery	BTX-2
Battery Charger	PSC-12
Circuit Board	CC-5
Circuit Board	DAC-NET
Circuit Board	FN2006
Circuit Board	FN2007
Circuit Board	LPB
Circuit Board	NRC
Circuit Board	PTB
Circuit Board	XDMC
Circuit Board	ZAC-40
Control Panel	PMI-2
PA Microphone	LVM

¹All Subcomponents manufactured by Siemens Industry, Inc.

UUT was rigid wall mounted using (4) 5/16" Grade 8 bolts.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

SPECIAL SEISMIC CERTIFICATION

UUT SUMMARY

UUT 10

Test Report# PR032091 R4

Manufacturer: Siemens Industry, Inc.
Model Line: Firefinder XLS, Design Fire Safety Modular, & Cerberus PRO Modular
Model Number: CAB-3

Highest Passed Test Level								
S_{DS}	z/h	R_p	H_f	I_p	A_{flex-h}	A_{rig-h}	A_{flex-v}	A_{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
8.3	26.1	62.5	173

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Painted, cold rolled carbon steel alarm cabinet enclosures, NEMA Type 1

UUT Mounting Details:



UUT was rigid wall mounted using (6) 5/16" Grade 8 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents	
Description ¹	Model
Enclosure	CAB3
Enclosure	CAB3-BB
Bracket	CAB-100-BRKT
Bracket	COM-BRK
Door	CAB3-BD
Plate	OD-BP
Plate	OD-LP
Plate	CAB-MP
Battery	BTX-3
Battery Charger	PSC-12
Circuit Board	CC-5
Circuit Board	MLC
Circuit Board	FN2006
Circuit Board	FN2007
Circuit Board	NIC-C
Circuit Board	NRC
Circuit Board	PTB
Circuit Board	VESDA-NET-HLI
Circuit Board	VPM
Circuit Board	ZIC-4A
Control Panel	PMI-2
Mounting Plate	VPM-MP
Trim Kit	CAB3-TK

¹All Subcomponents manufactured by Siemens Industry, Inc.

UUT 11

Test Report# PR069604.03

Manufacturer: Siemens Industry, Inc.
Model Line: Firefinder XLS, Designo Fire Safety Modular, & Cerberus PRO Modular
Model Number: CAB-1

Highest Passed Test Level									
S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}	
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54	
2.00	0.0	1.0	1.0						

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
8.3	26.1	27	64

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Painted, cold rolled carbon steel alarm cabinet enclosures, NEMA Type 1

UUT Mounting Details:

List of Included Subcomponents	
Description¹	Model
Enclosure	CAB1
Circuit Board	XDLC
Control Panel	FCM2041-U2
Control Panel	FCM2041-U3



UUT was rigid wall mounted using (4) 3/8" x 1.25" lag screws.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

¹All Subcomponents manufactured by Siemens Industry, Inc.

UUT 12

Test Report# PR069604.03

Manufacturer: Siemens Industry, Inc.
Model Line: Firefinder XLS, Designo Fire Safety Modular, & Cerberus PRO Modular
Model Number: PAB-ENCL

Highest Passed Test Level									
S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}	
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54	
2.00	0.0	1.0	1.0						

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
3.8	16	24	28

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Painted, cold rolled carbon steel alarm cabinet enclosures, NEMA Type 1

UUT Mounting Details:



List of Included Subcomponents

Description ¹	Model
Enclosure	PAB-ENCL
Plate	PAD-5 ADAPTER PLATE
Power Supply	PAD-5-MB
Power Supply	PAD-5-CLSA
Power Supply	PAD-5-CDC

UUT was rigid wall mounted using (4) 1/4" x 1" lag screws.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

¹All Subcomponents manufactured by Siemens Industry, Inc.

UUT 13

Test Report# PR069604.03

Manufacturer: Siemens Industry, Inc.
Model Line: Firefinder XLS, Designo Fire Safety Modular, & Cerberus PRO Modular
Model Number: PAB2-ENCL

Highest Passed Test Level									
S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}	
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54	
2.00	0.0	1.0	1.0						

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
5.5	16	40	49

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Painted, cold rolled carbon steel alarm cabinet enclosures, NEMA Type 1

UUT Mounting Details:



List of Included Subcomponents

Description ¹	Model
Enclosure	PAB2-ENCL
Plate	PAD-5 ADAPTER PLATE
Power Supply	PAD-5-MB
Power Supply	PAD-5-CLSA
Power Supply	PAD-5-CDC

UUT was rigid wall mounted using (6) 1/4" x 1" lag screws.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

¹All Subcomponents manufactured by Siemens Industry, Inc.

SPECIAL SEISMIC CERTIFICATION

UUT SUMMARY

UUT 14

 Test Report# PR163923 R2
(EUT 1)

Manufacturer: Siemens Industry, Inc.
Model Line: Firefinder XLS, Desigo Fire Safety Modular, & Cerberus PRO Modular
Model Number: CAB-1

Highest Passed Test Level								
S_{DS}	z/h	R_p	H_f	I_p	A_{flex-h}	A_{rig-h}	A_{flex-v}	A_{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
8.3	26.1	27	62

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Painted, cold rolled carbon steel alarm cabinet enclosures, NEMA Type 1

UUT Mounting Details:



List of Included Subcomponents

Description ¹	Model
Enclosure	CAB1
Bracket	COM-BRK
Circuit Board	NIC-C
Circuit Board	ZIC-4A
Circuit Board	PFSA
Switch	FN2013-U1
Battery Charger	PSC-12M

UUT was rigid wall mounted using (4) 5/16" Grade 5 bolts.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

¹All Subcomponents manufactured by Siemens Industry, Inc.

SPECIAL SEISMIC CERTIFICATION

UUT SUMMARY

UUT 15

Test Report#

 PR163923 R2
(EUT2)

Manufacturer: Siemens Industry, Inc.
Model Line: Firefinder XLS, Desigo Fire Safety Modular, & Cerberus PRO Modular
Model Number: CAB-2

Highest Passed Test Level								
S_{DS}	z/h	R_p	H_f	I_p	A_{flex-h}	A_{rig-h}	A_{flex-v}	A_{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
6.9	26.1	44.8	72

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Painted, cold rolled carbon steel alarm cabinet enclosures, NEMA Type 1

UUT Mounting Details:



List of Included Subcomponents

Description ¹	Model
Enclosure	CAB2
Circuit Board	PFSA
Circuit Board	XDLC
Circuit Board	XINC
Circuit Board	LDC
Circuit Board	FN2016-U1
Circuit Board	FN2017-U1
Circuit Board	ZIC-4A
Battery Charger	PSC-12M

UUT was rigid wall mounted using (4) 5/16" Grade 5 bolts.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

¹All Subcomponents manufactured by Siemens Industry, Inc.

SPECIAL SEISMIC CERTIFICATION

UUT SUMMARY

UUT 16

Test Report#

 PR163923 R2
(EUT 3)

Manufacturer: Siemens Industry, Inc.
Model Line: Firefinder XLS, Desigo Fire Safety Modular, & Cerberus PRO Modular
Model Number: CAB-3 w/X200, XVCC

Highest Passed Test Level								
S_{DS}	z/h	R_p	H_f	I_p	A_{flex-h}	A_{rig-h}	A_{flex-v}	A_{rig-v}
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.34	0.54
2.00	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
6.9	26.1	62.5	101

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Painted, cold rolled carbon steel alarm cabinet enclosures, NEMA Type 1

UUT Mounting Details:



List of Included Subcomponents

Description ¹	Model
Enclosure	CAB3
Circuit Board	PFSA
Circuit Board	CC-5
Circuit Board	XINC
Circuit Board	LDC
Circuit Board	FN2016-U1
Circuit Board	FN2017-U1
Circuit Board	ZIC-4A
Circuit Board	X200
Circuit Board	ZAC-40
Battery Charger	PSC-12M
Control Panel	FCM2041-U2
Control Panel	FCM2041-U3

UUT was rigid wall mounted using (6) 5/16" Grade 5 bolts.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

¹All Subcomponents manufactured by Siemens Industry, Inc.