



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-0004

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: Tyco Fire & Security, GMBH

Manufacturer's Technical Representative: Sonya L'Italien

Mailing Address: 6 Technology Park Dr, Westford, MA 01886

Telephone: (978) 577-4074

Email: sonya.litalien@jci.com

Product Information

Product Name: Varies (see attachment)

Product Model Number(s): Varies (see attachment)

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

Product Sub-Category: Fire Alarm & Security Panels

General Description: Life Alarm (4005/A005); TrueAlert (4009/A009); Fire Alarm Controls (4010ES/A010ES); Fire Alarm Controls and Incident Commander (4100U/ES:4190, A100U/ES:A190); EZCare (5009); Fire Alarm Panel (4007ES/A007ES); Fire Alarm Control Unit (2250/A250, 2050/A050)

Mounting Description: Wall Mounted Rigid -

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: TRU Compliance, by Structural Integrity Associates

Contact Person: Daniel Zentner

Mailing Address: 233 SW Wilson Ave, Suite 101, Bend, OR 97702

Telephone: (541) 292-5839

Email: dzentner@structint.com

Title: Program Manager



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

Company Name: STRUCTURAL INTEGRITY ASSOCIATES, INC.

Name: LACHEZAR HANDZHIYSKI

California License Number: S6515

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

Telephone: (669) 437-0200

Email: Lhandzhiyski@StructInt.com

Certification Method

☐ GR-63-Core

☒ ICC-ES AC156

☐ IEEE 344

☐ IEEE 693

☐ NEBS 3

☐ Other (Please Specify):

Testing Laboratory

Company Name: ELEMENT (ELMT)

Contact Person: Don Bennet

Mailing Address: 1146 Massachusetts Ave., Boxborough MA 01719

Telephone: (978) 266-1001

Email: don.bennet@element.com

Company Name: ELEMENT MATERIALS TECHNOLOGY

Contact Person: David Gillen

Mailing Address: 9725 Girard Ave South, Minneapolis MN 55431

Telephone: (952) 888-7795

Email: david.gillen@element.com

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



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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.88

SDs (Design spectral response acceleration at short period, g) = 2.50

a_p (Amplification factor) = 2.5

R_p (Response modification factor) = 6.0

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 1

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

HCAI Approval (For Office Use Only) - Approval Expires on 04/10/2031

Date: 4/10/2025

Name: Mohammad Karim

Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDs (g) = 2.5

z/h = 1

Condition of Approval (if applicable):

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2001161-CR-001-R6



Manufacturer: Tyco, Inc.						TABLE 1	
Model Line: Simplex and Autocall Fire Alarm Systems							
Certified Product Construction Summary: 4009/A009 Power Supply Panel is constructed of cold rolled carbon steel 0.0598” thick. All other cabinets are constructed of cold rolled carbon steel 0.048” thick. Enclosures are NEMA 1 rated.							
Certified Options Summary: Color: Beige, red and platinum. Doors: Glass, glass plastic and metal.							
Mounting Configuration: Wall mounted - rigid Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code: CBC 2022		Seismic Certification Limits:				$S_{DS}= 2.5 g \quad z/h=1.0$ $S_{DS}= 2.5 g \quad z/h=0.0$	$I_p= 1.5$
Model Line	Model	Dimensions (in)			Weight (lbs.)	Notes	UUT
		Depth	Width	Height			
Life Alarm (4005/A005)	Fire Alarm Panel	4.4	23.4	24.0	62		2, 9
True Alert (4009/A009)	Power Supply	7.1	16.1	16.1	40		1
	Addressable Control	4.1	16.3	13.5	33		6
		4.3	16.3	13.5	39		12
	IDNET NAC Extender	4.3	16.3	13.5	39		7, 18
Fire Alarm Controls (4010ES/A010ES)	1-Bay Panel	12.0	24.0	22.0	101		3, 11
	2-Bay Panel	12.0	24.0	40.0	130		10
Fire Alarm Controls & Incident Commander (4100U/ES:4190 or A100U/ES:A190)	1-Bay Panel	12.0	24.0	22.0	120		Interp.
	2-Bay Panel	12.0	24.0	40.0	141		13
	3-Bay Panel	12.0	24.0	60.0	238		5, 14, 15, 16, 19
EZCare (5009)	1-Bay Panel	12.0	24.0	22.0	120		Extrap.
	2-Bay Panel	12.0	24.0	40.0	150		4, 17
Fire Alarm (4007ES/A007ES)	Fire Alarm Panel	4.4	21.1	20.4	53		20, 21
Fire Alarm Control Unit (FACU) (2250/A250) (2050/A050)	Addressable Control Panel (50 Points) - 2050/A050	4.9	15.8	19.3	46	2050/A050 is a depopulated version of 2250/A250	Interp.
	Addressable Control Panel (250 Points) - 2250/A250	4.9	15.8	19.3	46		22

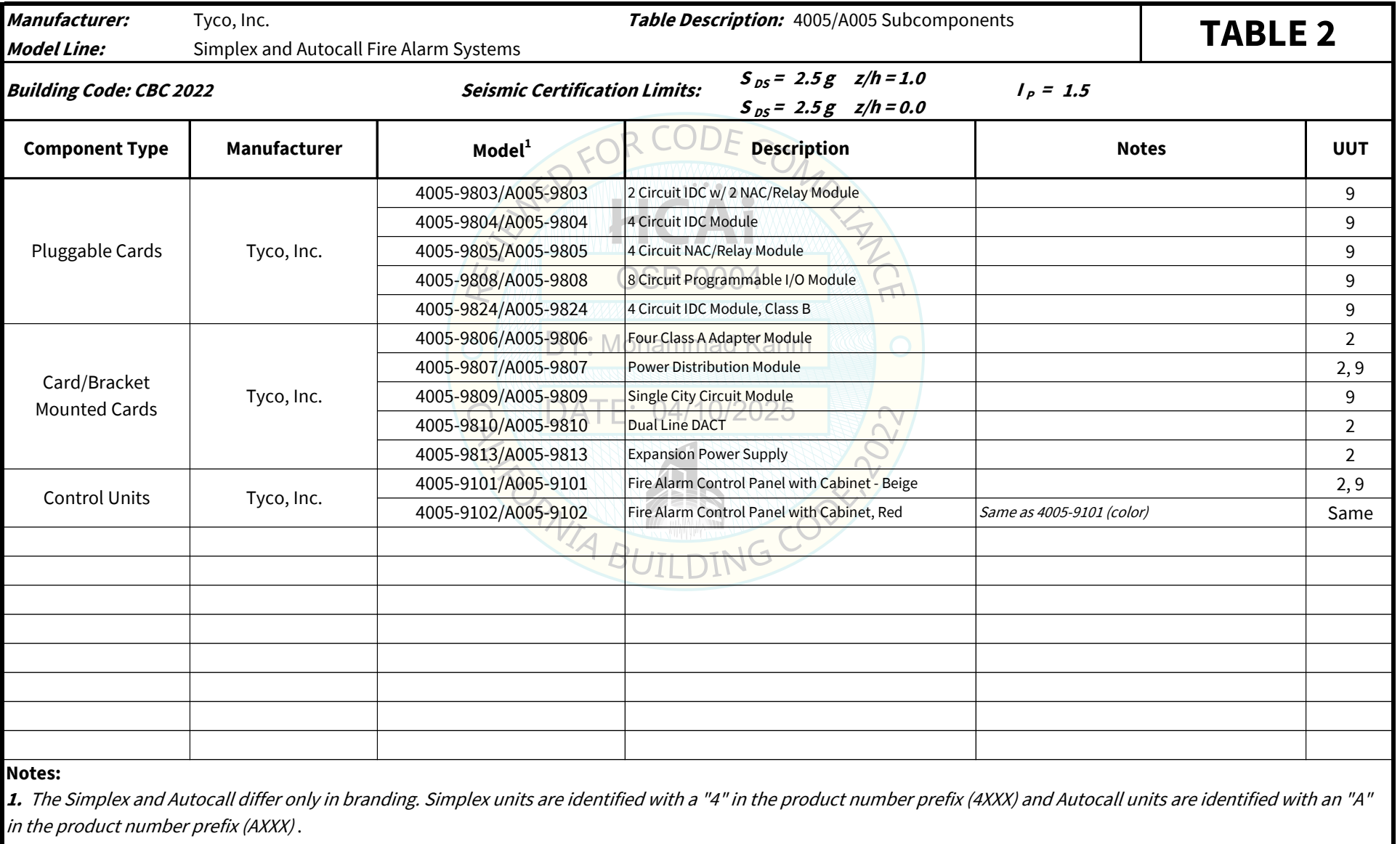
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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001161-CR-001-R6



Manufacturer: Tyco, Inc.		Table Description: 4009/A009 Subcomponents			TABLE 3
Model Line: Simplex and Autocall Fire Alarm Systems					
Building Code: CBC 2022		Seismic Certification Limits: $S_{DS} = 2.5 g \quad z/h = 1.0$ $S_{DS} = 2.5 g \quad z/h = 0.0$			$I_P = 1.5$
Component Type	Manufacturer	Model ¹	Description	Notes	UUT
Control Unit	Tyco, Inc.	4100-5120/A100-5120	TrueAlert Power Supply		1
		4100-5121/A100-5121	TrueAlert Power Supply Canadian	Same as 4100-5120 (Product labeling)	Same
		4009-9201/A009-9201	TrueAlert IDNet NAC Extender		7, 18
		4009-9401/A009-9401	TrueAlert Addressable Controller		6, 12
		4009-9701/A009-9701	Extender Plus, red		24
		4009-9702/A009-9702	Extender Plus, platinum	Same as 4009-9701 (cabinet color)	Same
		4009-9703/A009-9703	Extender Plus with IDNAC Card, red		25
		4009-9704/A009-9704	Extender Plus with IDNAC Card, platinum	Same as 4009-9703 (cabinet color)	Same
		4009-9705/A009-9705	IDNAC Extender, red	Same as 4009-9706 (cabinet color)	Same
		4009-9706/A009-9706	IDNAC Extender, platinum		23
Card/Bracket Mounted Cards	Tyco, Inc.	4009-9807/A009-9807	4 Point NAC Module		7
		4009-9808/A009-9808	Dual Class A Module		7
		4009-9809/A009-9809	IDNet Repeater, Class A or B		12
		4009-9810/A009-9810	Fiber Optic Rec, Class B	Same as 4009-9811 (depopulated)	Same
		4009-9811/A009-9811	Fiber Optic Rec, Class A (IDNet) X (Fiber)		18
		4009-9812/A009-9812	Three Channel Class A Adapter Module		6
		4009-9813/A009-9813	Transponder Interface Card		1
		4100-6311/A100-6311	MX Card		24
		4100-6312/A100-6312	MX Option Loop Card		24
Notes: 1. The Simplex and Autocall differ only in branding. Simplex units are identified with a "4" in the product number prefix (4XXX) and Autocall units are identified with an "A" in the product number prefix (AXXX).					

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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Manufacturer:	Tyco, Inc.	Table Description:	4010ES/A010ES Subcomponents	TABLE 4
Model Line:	Simplex and Autocall Fire Alarm Systems			

Building Code:	CBC 2022	Seismic Certification Limits:	$S_{DS} = 2.5g$ $z/h = 1.0$ $S_{DS} = 2.5g$ $z/h = 0.0$	$I_P = 1.5$
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Component Type	Manufacturer	Model ¹	Description	Notes	UUT
PDI Mounted Card	Tyco, Inc.	4010-6310/A010-6310	ES Network Interface Card (flat type)	Similar to 4010-9922	Interp.
		4010-6320/A010-6320	ES Network Bridge Card (flat type)	Similar to 4010-6310	Interp.
		4010-9901/A010-9901	VESDA HLI Module	Similar to 4010-9908/9918 and 4100-6046	Interp.
		4010-9907/A010-9907	IDNet+ w/Quad Isolator		10
		4010-9908/A010-9908	4 Point Relay Module		3
		4010-9914/A010-9914	Building Network Interface	Similar to 4010-9922	Interp.
		4010-9916/A010-9916	Voltage Regulator Module	Similar to 4010-9908	Interp.
		4010-9918/A010-9918	Dual RS-232 Module		10
		4010-9922/A010-9922	Modular Network Interface		10, 11
		4010-9923/A010-9923	SafeLINC Internet Interface	Similar to 4010-9922	Interp.
		4010-9924/A010-9924	Modem Physical Bridge Class B Style 4	Similar to 4010-9922	Interp.
		4010-9925/A010-9925	Modem Physical Bridge Class X Style X	Similar to 4010-9922	Interp.
		4010-9926/A010-9926	TCP/IP Physical Bridge Class B Style 4	Similar to 4010-9922	Interp.
		4010-9927/A010-9927	TCP/IP Physical Bridge Class X Style 7	Similar to 4010-9922	Interp.
		4010-9929/A010-9929	IDNet 2+2 Module	Similar to 4100-3110	Interp.
		4010-9930/A010-9930	Dual Class A IDNAC Isolator Module	Similar to 4007-9804	Interp.
		4010-9935/A010-9935	8 Point Relay Module	Similar to 4100-9908	Interp.
		4010-9936/A010-9936	4 Point I/O 2Amp Aux Relay Card	Similar to 4100-6074	Interp.
Motherboard Mounted Cards	Tyco, Inc.	4010-9920/A010-9920	8 Zone Class B IDC Module		3
		4010-9921/A010-9921	8 Zone Initiating Device Circuit Class A	Similar to 4010-9920	Interp.
		4010-9928/A010-9928	Dual Card Block Mounting Kit		10

Notes:
1. The Simplex and Autocall differ only in branding. Simplex units are identified with a "4" in the product number prefix (4XXX) and Autocall units are identified with an "A" in the product number prefix (AXXX).

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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Manufacturer: Tyco, Inc.		Table Description: 4010ES/A010ES Subcomponents			TABLE 4
Model Line: Simplex and Autocall Fire Alarm Systems					
Building Code: CBC 2022		Seismic Certification Limits: $S_{DS} = 2.5 g \quad z/h = 1.0$ $S_{DS} = 2.5 g \quad z/h = 0.0$			$I_P = 1.5$
Component Type	Manufacturer	Model ¹	Description	Notes	UUT
Main System Supply and CPU	Tyco, Inc.	4010-9401/A010-9401	English 2x40 Display, 120V , Single IDNet Chl (1-Bay Panel), Red		3
		4010-9402/A010-9402	English 2x40 Display, 120V , Single IDNet Chl (1-Bay Panel), Platinum	Same as 4010-9401 (color)	Same
		4010-9403/A010-9403	English 2x40 Display, 120V , Single IDNet Chl (1-Bay Panel w/48 LEDs), Red		11
		4010-9404/A010-9404	English 2x40 Display, 120V , Single IDNet Chl (1-Bay Panel w/48 LEDs), Platinum	Same as 4010-9403 (color)	Same
		4010-9421BA/A010-9421BA	English 2x40 Display, 120V , Two IDNet Chl (2-Bay Panel w/2x40 LCD), Red	Similar to 4010-9425BA	Interp.
		4010-9422/A010-9422	English 2x40 Display, 120V , Two IDNet Chl (2-Bay Panel w/2x40 LCD), Platinum	Similar to 4010-9425BA	Interp.
		4010-9423/A010-9423	English 2x40 Display, 120V , Two IDNet Chl (2-Bay Panel w/48 LEDs), Red	Similar to 4010-9422 w/o add'l 48 LED	Interp.
		4010-9425BA/A010-9425BA	English 2x40 Display, 120V , Single IDNet Chl (2-Bay Panel w/InfoAlarm LCD), Red		10
		4010-9435/A010-9435	4010ES w/TSD 2IDNet, RED 120VAC	Similar to 4010-9425	Interp.
		4010-9426BA/A010-9426BA	English 2x40 Display, 120V , Single IDNet Chl (2-Bay Panel w/InfoAlarm LCD), Platinum	Same as 4010-9425BA (color)	Same
Notes: 1. The Simplex and Autocall differ only in branding. Simplex units are identified with a "4" in the product number prefix (4XXX) and Autocall units are identified with an "A" in the product number prefix (AXXX).					

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001161-CR-001-R6



Manufacturer: Tyco, Inc.		Table Description: 4010ES/A010ES Subcomponents			TABLE 4
Model Line: Simplex and Autocall Fire Alarm Systems					
Building Code: CBC 2022		Seismic Certification Limits:		$S_{DS} = 2.5\text{ g}$ $z/h = 1.0$	$I_P = 1.5$
		$S_{DS} = 2.5\text{ g}$ $z/h = 0.0$			
Component Type	Manufacturer	Model ¹	Description	Notes	UUT
Main System Supply and CPU	Tyco, Inc.	4010-9428/A010-9428	English 2x40 Display, 120V , Two IDNet ChI (2-Bay Panel w/48 LEDs), Platinum	Same as 4010-9423 (color)	Same
		4010-9609/A010-9609	English 2x40 Display, 120V , Extra IDNet 2+2 Card (2-Bay Panel w/48 LEDs), Red	Similar to 4010-9422 w/ add'l 48 LED	Interp.
		4010-9610/A010-9610	English 2x40 Display, 120V , Extra IDNet 2+2 Card (2-Bay Panel w/48 LEDs), Platinum	Same as 4010-9609 (color)	Same
		4010-9621/A010-9621	English 2x40 Display, 120V , Extra IDNet 2+2 Card (2-Bay Panel), Red	Similar to 4010-9422 w/o add'l 48 LED	Interp.
		4010-9622/A010-9622	English 2x40 Display, 120V , Extra IDNet 2+2 Card (2-Bay Panel), Red	Same as 4010-9621 (color)	Same
		4010-9623/A010-9623	English 2x40 Display, 120V, Two IDNet ChI (2-Bay Panel), Platinum	Similar to 4010-9425BA	Interp.
		4010-9633/A010-9633	4010ES w/TSD, IDNAC 2 IDNET, RED 120VAC	Similar to 4010-9623	Interp.
		4010-9624/A010-9624	English 2x40 Display, 120V, Two IDNet ChI (2-Bay Panel), Platinum	Same as 4010-9623 (color)	Same
Notes:					
1. The Simplex and Autocall differ only in branding. Simplex units are identified with a "4" in the product number prefix (4XXX) and Autocall units are identified with an "A" in the product number prefix (AXXX).					

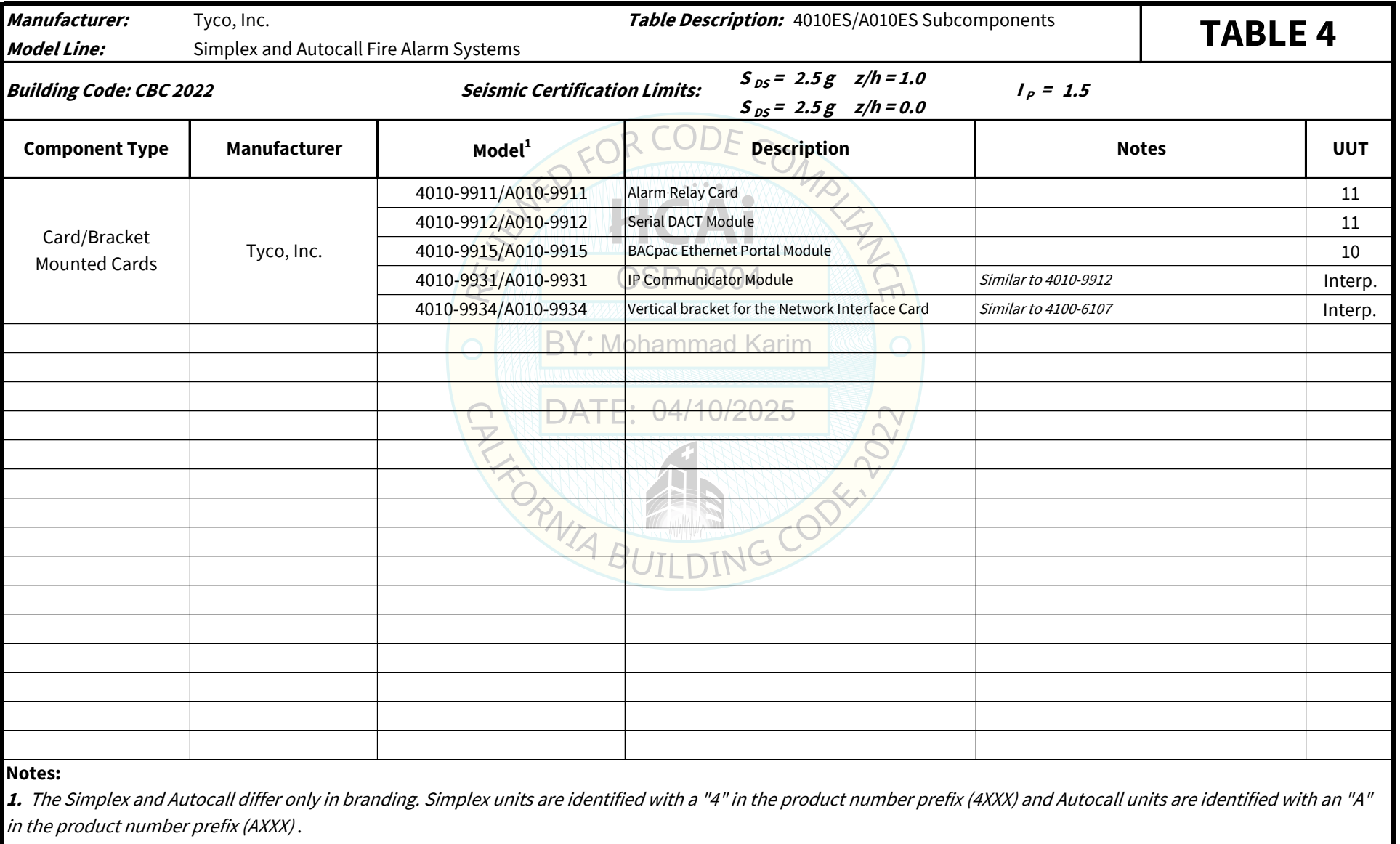
SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001161-CR-001-R6



Manufacturer: Tyco, Inc.		Table Description: 4010ES/A010ES Subcomponents			TABLE 4
Model Line: Simplex and Autocall Fire Alarm Systems					
Building Code: CBC 2022		Seismic Certification Limits: $S_{DS} = 2.5g \quad z/h = 1.0$ $S_{DS} = 2.5g \quad z/h = 0.0$			$I_P = 1.5$
Component Type	Manufacturer	Model ¹	Description	Notes	UUT
Card/Bracket Mounted Cards	Tyco, Inc.	4010-2500/A010-2500	Connected Services Gateway Module 4010ES	Similar to 4010-9931	Interp.
		4010-2501/A010-2501	Simple Power over Ethernet Switch kit for 4010ES	Similar to 4010-9931	Interp.
		4010-2504/A010-2504	Connected Services Gateway & IP Communicator Module 4010ES	Similar to 4010-9931	Interp.
		4010-6301/A010-6301	Network Media Card Fiber Optic	Similar to 4010-9818	Interp.
		4010-6302/A010-6302	Network Media Card Fiber Optic	Similar to 4010-9818	Interp.
		4010-6303/A010-6303	Network Media Card Fiber Optic	Similar to 4010-9818	Interp.
		4010-6304/A010-6304	Network Media Card Fiber Optic	Similar to 4010-9818	Interp.
		4010-6306/A010-6306	ES Net Dual Channel Ethernet Media Card	Similar to 4010-9818	Interp.
		4010-6307/A010-6307	ES Net Dual Channel DSL Media Card	Similar to 4010-9818	Interp.
		4010-6308/A010-6308	ES Net Dual Channel Single-Mode Fiber Media Card	Similar to 4010-6301	Interp.
		4010-6309/A010-6309	ES Net Dual Channel Multimode Fiber Media Card	Similar to 4010-6303	Interp.
		4010-6400/A010-6400	Verizon LTE module for the IP Communicator Module	Similar to 4010-9931	Interp.
		4010-6401/A010-6401	AT&T GSM module for the IP Communicator Module	Similar to 4010-9931	Interp.
		4010-6416/A010-6416	ATT GSM 4G/LTE Cellular Module Kit for Integral Installations for the 4010ES FACP	Similar to 4010-6401	Interp.
		4010-9818/A010-9818	Network Media Card Wired		10, 11
		4010-9819/A010-9819	Network Media Card Fiber Optic	Similar to 4010-9818	Interp.
		4010-9909/A010-9909	City Connect w/disconnect switches		10
		4010-9910/A010-9910	City Connect Module	Similar to 4010-9909	Interp.
Notes: 1. The Simplex and Autocall differ only in branding. Simplex units are identified with a "4" in the product number prefix (4XXX) and Autocall units are identified with an "A" in the product number prefix (AXXX).					

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001161-CR-001-R6



Manufacturer:	Tyco, Inc.	Table Description:	4100U/ES and 4190 Subcomponents	TABLE 5
Model Line:	Simplex and Autocall Fire Alarm Systems			

Building Code:	CBC 2022	Seismic Certification Limits:	$S_{DS} = 2.5g$ $z/h = 1.0$ $S_{DS} = 2.5g$ $z/h = 0.0$	$I_P = 1.5$
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Component Type	Manufacturer	Model ¹	Description	Notes	UUT
PDI Mounted Cards	Tyco, Inc.	4100-0620/A100-0620	Transponder Interface Module Basic		16
		4100-0621/A100-0621	Audio Riser Module Analog		16
		4100-0622/A100-0622	Audio Riser Module Digital		14
		4100-0623/A100-0623	Network Audio Riser Controller Module		14
		4100-0625/A100-0625	Transponder Interface Mod Local Mode		14
		4100-1210/A100-1210	Audio Controller - Analog		15
		4100-1240/A100-1240	Audio Auxiliary Input Module		15
		4100-1272/A100-1272	FF Telephone - Expansion Module		15
		4100-1274/A100-1274	Microphone Multiplex Module		15
		4100-1311/A100-1311	Audio Controller - Digital		13, 19
		4100-1341/A100-1341	MCC Audio Riser Module	Similar to 4100-3206	Interp.
		4100-1411/A100-1411	ES NET Audio Controller - Digital	Similar to 4100-1311	Interp.
		4100-3101/A100-3101	IDNet Module - 250 Point		14
		4100-3104/A100-3104	IDNet Module - 127 Point	Similar to 4100-3101	Interp.
		4100-3105/A100-3105	IDNet Module - 64 Point	Similar to 4100-3101	Interp.
		4100-3106/A100-3106	IDNet Quick Connect Module		15
		4100-3107/A100-3107	IDNet+ Module with Quad Isolator		15
		4100-3108/A100-3108	IDNet+		15
		4100-3109/A100-3109	IDNet 2 Module		16
		4100-3110/A100-3110	IDNet 2+2 Module		16
		4100-3204/A100-3204	Relay Module - 4 DPDT 2 A w/Feedback	Similar to 4100-3206	Interp.

Notes:

1. The Simplex and Autocall differ only in branding. Simplex units are identified with a "4" in the product number prefix (4XXX) and Autocall units are identified with an "A" in the product number prefix (AXXX).

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001161-CR-001-R6



Manufacturer:	Tyco, Inc.	Table Description:	4100U/ES and 4190 Subcomponents	TABLE 5
Model Line:	Simplex and Autocall Fire Alarm Systems			

Building Code:	CBC 2022	Seismic Certification Limits:	$S_{DS} = 2.5 g$ $z/h = 1.0$ $S_{DS} = 2.5 g$ $z/h = 0.0$	$I_P = 1.5$
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Component Type	Manufacturer	Model ¹	Description	Notes	UUT
PDI Mounted Cards	Tyco, Inc.	4100-3206/A100-3206	Relay Module - 8 SPDT 3 A w/Feedback		16
		4100-3207/A100-3207	4 Point I/O 2Amp Auxiliary Relay Card	Similar to 4100-3204	Interp.
		4100-3209/A100-3209	8 Point I/O 3Amp Auxiliary Relay Card	Similar to 4100-3206	Interp.
		4100-5450/A100-5450	NAC Card for ES-PS	Similar to 4100-3109	Interp.
		4100-5451/A100-5451	IDNAC Card for ES-PS	Similar to 4100-3109	Interp.
		4100-6046/A100-6046	Dual Port RS-232 w/std Interface		15
		4100-6047/A100-6047	Building Network Interface		13
		4100-6055/A100-6055	Modem - Network Access Module		16, 19
		4100-6072/A100-6072	Fiber Modem Module - Single Mode L		14
		4100-6073/A100-6073	Fiber Modem Module - Single Mode R		14
		4100-6074/A100-6074	Fiber Modem Module - Multi-Mode L		14
		4100-6075/A100-6075	Fiber Modem Module - Multi-Mode R		14
		4100-6079/A100-6079	SafeLINC		16
		4100-6120/A100-6120	Fiber Modem Module - Single Mode L	Similar to 4100-6072	Interp.
		4100-6121/A100-6121	Fiber Modem Module - Single Mode R	Similar to 4100-6073	Interp.
		4100-6122/A100-6122	Fiber Modem Module - Multi-Mode L	Similar to 4100-6074	Interp.
		4100-6123/A100-6123	Fiber Modem Module - Multi-Mode R	Similar to 4100-6075	Interp.
		4100-9600/A100-9600	Miniplex Package - Basic	Similar to 4100-3101/3206	Interp.
		4100-9601/A100-9601	Miniplex Package - Local Mode	Similar to 4100-3101/3206	Interp.

Notes:
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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001161-CR-001-R6



Manufacturer:	Tyco, Inc.	Table Description:	4100U/ES and 4190 Subcomponents	TABLE 5
Model Line:	Simplex and Autocall Fire Alarm Systems			

Building Code:	CBC 2022	Seismic Certification Limits:	$S_{DS} = 2.5g$ $z/h = 1.0$ $S_{DS} = 2.5g$ $z/h = 0.0$	$I_p = 1.5$
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Component Type	Manufacturer	Model ¹	Description	Notes	UUT
PDI Mounted Cards w/ Microphone	Tyco, Inc.	4100-1412/A100-1412	ES NET Audio Controller - w/ Mic	Similar to 4100-9621	Interp.
		4100-9620/A100-9620	Audio Controller - Analog w/ Mic.	Similar to 4100-9621	Interp.
		4100-9621/A100-9621	Audio Controller - Digital w/ Mic.		19
Amplifiers	Tyco, Inc.	4100-1312/A100-1312	Amplifier Analog - Flex 50 25 VRMS		16
		4100-1313/A100-1313	Amplifier Analog - Flex 50 70 VRMS	Similar to 4100-1312	Interp.
		4100-1314/A100-1314	Amplifier Analog - 100 Watt 25 VRMS	Similar to 4100-1328	Interp.
		4100-1315/A100-1315	Amplifier Analog - 100 Watt 70 VRMS		16
		4100-1320/A100-1320	Amplifier Analog - 100 Watt 25 VRMS	Similar to 4100-1328	Interp.
		4100-1321/A100-1321	Amplifier Analog - 100 Watt 70 VRMS	Similar to 4100-1328	Interp.
		4100-1326/A100-1326	Amplifier Digital - Flex 50 25 VRMS	Similar to 4100-1312	Interp.
		4100-1327/A100-1327	Amplifier Digital - Flex 50 70 VRMS		14
		4100-1328/A100-1328	Amplifier Digital - 100 Watt 25 VRMS		19
		4100-1329/A100-1329	Amplifier Digital - 100 Watt 70 VRMS	Similar to 4100-1328	Interp.
		4100-1334/A100-1334	Amplifier Digital - 100 Watt 25 VRMS		19
		4100-1335/A100-1335	Amplifier Digital - 100 Watt 70 VRMS	Similar to 4100-1334	Interp.
		4100-1361/A100-1361	Amplifier Analog - Flex 35 25 VRMS	Similar to 4100-1312	Interp.
		4100-1362/A100-1362	Amplifier Analog - Flex 35 70 VRMS	Similar to 4100-1312	Interp.
		4100-1363/A100-1363	Amplifier Digital - Flex 35 25 VRMS	Similar to 4100-1312	Interp.
		4100-1364/A100-1364	Amplifier Digital - Flex 35 70 VRMS	Similar to 4100-1312	Interp.

Notes:
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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001161-CR-001-R6



Manufacturer:	Tyco, Inc.	Table Description:	4100U/ES and 4190 Subcomponents	TABLE 5
Model Line:	Simplex and Autocall Fire Alarm Systems			

Building Code:	CBC 2022	Seismic Certification Limits:	$S_{DS} = 2.5g$ $z/h = 1.0$ $S_{DS} = 2.5g$ $z/h = 0.0$	$I_P = 1.5$
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Component Type	Manufacturer	Model ¹	Description	Notes	UUT
Motherboard Mounted Cards	Tyco, Inc.	4100-1290/A100-1290	24 Point I/O Module		13
		4100-1291/A100-1291	Remote Unit Interface Module		16
		4100-3102/A100-3102	Magnet II Module - 127 Point Capacity		13
		4100-3103/A100-3103	Isolator Module For Magnet II or IDNet		13
		4100-3202/A100-3202	Relay Mod - 4 DPDT 10 A w/Feedback		14
		4100-3208/A100-3208	4 Point I/O 10A Auxiliary Relay Card	Similar to 4100-6074	Interp.
		4100-5005/A100-5005	8 Zone Initiating Device Circuits Class B	Similar to 4100-5105	Interp.
		4100-5013/A100-5013	8 Zone I/o Card	Similar to 4100-5015	Interp.
		4100-5015/A100-5015	8 Zone IDC - Class A Module		15
		4100-6014/A100-6014	Modular Network Interface Module		19
		4100-6038/A100-6038	Dual Port RS-232 w/ 2120 Module	Similar to 4100-6061	Interp.
		4100-6048/A100-6048	VESDA Interface Module	Similar to 4100-6061	Interp.
		4100-6061/A100-6061	Modular Network Interface Module		5
		4100-6078/A100-6078	Modular Network Interface Module		5, 13, 15
		4100-6101/A100-6101	Physical Bridge Class B Module		16, 19
		4100-6102/A100-6102	Physical Bridge Class X Module	Similar to 4100-6061	Interp.
		4100-6103/A100-6103	Dual Class A IDNAC Isolator Module	Similar to 4007-9804	Interp.
		4100-6104/A100-6104	ES Network Interface Card (slot type)	Similar to 4100-6014	Interp.
		4100-6310/A100-6310	ES Network Interface Card (flat type)	Similar to 4010-9922	Interp.
		4100-6320/A100-6320	ES Network Bridge Card (flat type)	Similar to 4010-6310	Interp.
		4100-9863/A100-9863	Physical Bridge TCP/IP Interface Style 4	Similar to 4100-6061	Interp.
		4100-9864/A100-9864	Physical Bridge TCP/IP Interface Style 7	Similar to 4100-6061	Interp.

Notes:
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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001161-CR-001-R6



Manufacturer:	Tyco, Inc.	Table Description:	4100U/ES and 4190 Subcomponents	TABLE 5
Model Line:	Simplex and Autocall Fire Alarm Systems			

Building Code:	CBC 2022	Seismic Certification Limits:	$S_{DS} = 2.5g$ $z/h = 1.0$ $S_{DS} = 2.5g$ $z/h = 0.0$	$I_P = 1.5$
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Component Type	Manufacturer	Model ¹	Description	Notes	UUT
Card/Bracketed Mounted Cards	Tyco, Inc.	4100-0156/A100-0156	8 VDC Power Option		13
		4100-0640/A100-0640	Display Memory Expansion Module		15
		4100-1241/A100-1241	Audio 8 Min. Message Expansion Mod		19
		4100-1242/A100-1242	Audio 32 Min. Message Expansion Mod		13
		4100-1245/A100-1245	Audio Expansion Flex NAC Module		16
		4100-1246/A100-1246	Audio Class A Flex Module	Similar to 4100-1248	Interp.
		4100-1248/A100-1248	Audio Expansion NAC Module		19
		4100-1249/A100-1249	Audio Class A Module	Similar to 4100-1248	Interp.
		4100-1259/A100-1259	Constant Supervision Module - 25 VRMS		16
		4100-1260/A100-1260	Constant Supervision Module - 70 VRMS		14
		4100-1266/A100-1266	Expansion Signal Mod - 3 to 6	Similar to 4100-1248	Interp.
		4100-1267/A100-1267	Expansion Signal Mod - 3 NAC to Class A	Similar to 4100-1248	Interp.
		4100-1268/A100-1268	Expansion Signal Mod - Const Supervis.	Similar to 4100-1260	Interp.
		4100-2500/A100-2500	Connected Services Gateway Module 4100ES Side Mount		Interp.
		4100-2501/A100-2501	Simple Power over Ethernet Switch kit for 4100ES	Similar to 4100-6107	Interp.
		4100-2502/A100-2502	Connected Services Gateway Module 4100ES Vertical Mount		Interp.
		4100-2504/A100-2504	Connected Services Gateway Module & IP Communicator Module 4100ES Side Mount		Interp.
		4100-2506/A100-2506	Connected Services Gateway Module & IP Communicator Module 4100ES Vertical Mount		Interp.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001161-CR-001-R6



Manufacturer:	Tyco, Inc.	Table Description:	4100U/ES and 4190 Subcomponents	TABLE 5
Model Line:	Simplex and Autocall Fire Alarm Systems			

Building Code:	CBC 2022	Seismic Certification Limits:	$S_{DS} = 2.5g$ $z/h = 1.0$ $S_{DS} = 2.5g$ $z/h = 0.0$	$I_P = 1.5$
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Component Type	Manufacturer	Model ¹	Description	Notes	UUT
Card/Bracketed Mounted Cards	Tyco, Inc.	4100-3111/A100-3111	IDNet 2 Loop Module		16
		4100-5115/A100-5115	NAC Expansion Module		16
		4100-5116/A100-5116	Expansion Signal Module 1 to 3		16
		4100-5124/A100-5124	TrueAlert Class A Adapter Module	Similar to 4009-9812 (UUT6)	Interp.
		4100-5152/A100-5152	12 VDC Power Option		Interp.
		4100-5156/A100-5156	9 VDC Power Option		Interp.
		4100-6030/A100-6030	Modem - Service Port Module		13
		4100-6031/A100-6031	City Circuit Mod w/disconnect Switch		15
		4100-6032/A100-6032	City Circuit Mod w/o disconnect Switch	Similar to 4100-6031	Interp.
		4100-6033/A100-6033	Alarm Relay, 3 Form C relays		Interp.
		4100-6052/A100-6052	DACT Module		5
		4100-6056/A100-6056	Media Card - Wired Module		13, 15, 16, 19
		4100-6057/A100-6057	Media Card - Fiber Module		5, 19
		4100-6069/A100-6069	BACnet Ethernet Module		15
		4100-6105/A100-6105	IP Communicator Module -Side Mount	Similar to 4100-6052	Interp.
		4100-6107/A100-6107	IP Communicator Module -Vertical Mount	Similar to 4100-6052	Interp.
		4100-6110/A100-6110	BACnet Ethernet Module with 5K Point Capacity	Same as 4100-6069	Same
		4100-6111/A100-6111	BACnet Ethernet Module with 15K Point Capacity	Same as 4100-6069	Same
		4100-6301/A100-6301	Media Card - Fiber Module	Similar to 4100-6057	Interp.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001161-CR-001-R6



Manufacturer:	Tyco, Inc.	Table Description:	4100U/ES and 4190 Subcomponents	TABLE 5
Model Line:	Simplex and Autocall Fire Alarm Systems			

Building Code:	CBC 2022	Seismic Certification Limits:	$S_{DS} = 2.5 g$ $z/h = 1.0$ $S_{DS} = 2.5 g$ $z/h = 0.0$	$I_P = 1.5$
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Component Type	Manufacturer	Model ¹	Description	Notes	UUT
Card/Bracketed Mounted Cards	Tyco, Inc.	4100-6302/A100-6302	Media Card - Fiber Module	Similar to 4100-6057	Interp.
		4100-6303/A100-6303	Media Card - Fiber Module	Similar to 4100-6057	Interp.
		4100-6304/A100-6304	Media Card - Fiber Module	Similar to 4100-6057	Interp.
		4100-6306/A100-6306	ES Net Dual Channel Ethernet Media Card	Similar to 4100-6056	Interp.
		4100-6307/A100-6307	ES Net Dual Channel DSL Media Card	Similar to 4100-6056	Interp.
		4100-6308/A100-6308	ES Net Dual Channel Single-Mode Fiber Media Card	Similar to 4100-6301	Interp.
		4100-6309/A100-6309	ES Net Dual Channel Multimode Fiber Media Card	Similar to 4100-6303	Interp.
		4100-6400/A100-6400	Verizon LTE module for the IP Communicator Module	Similar to 4100-6107	Interp.
		4100-6401/A100-6401	AT&T GSM module for the IP Communicator Module	Similar to 4100-6107	Interp.
		4100-6416/A100-6416	ATT GSM 4G/LTE Cellular Module Kit for Internal Installations for the 4100ES FACP	Similar to 4100-6401	Interp.
		4100-9834/A100-9834	Vertical bracket for the Network Interface Card	Similar to 4100-6107	Interp.
		4190-6010/A190-6010	LAN Suppressor		5
		4190-6034/A190-6034	Quad RS232 Port PCI Card		5
		4190-6036/A190-6036	Media Card - Wired Module		5
		4190-6037/A190-6037	Media Card - Fiber Module	Similar to 4190-6036	Interp.
		4190-6060/A190-6060	Network Inter. Card (fixed RS-485)		5
		4190-6061/A190-6061	Network Inter. Card for Media Card Use		Interp.
		4190-6104/A190-6104	TrueInsight Remote Gateway		15
		4190-6301/A190-6301	Media Card - Fiber Module	Similar to 4190-6036	Interp.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001161-CR-001-R6



Manufacturer: Tyco, Inc.		Table Description: 4100U/ES and 4190 Subcomponents			TABLE 5
Model Line: Simplex and Autocall Fire Alarm Systems					
Building Code: CBC 2022		Seismic Certification Limits: $S_{DS} = 2.5 g \quad z/h = 1.0$ $S_{DS} = 2.5 g \quad z/h = 0.0$			$I_P = 1.5$
Component Type	Manufacturer	Model ¹	Description	Notes	UUT
Card/Bracketed Mounted Cards	Tyco, Inc.	4190-6302/A190-6302	Media Card - Fiber Module	Similar to 4190-6036	Interp.
		4190-6303/A190-6303	Media Card - Fiber Module	Similar to 4190-6036	Interp.
		4190-6304/A190-6304	Media Card - Fiber Module	Similar to 4190-6036	Interp.
		4190-8404/A190-8404	Incident Commander	Same as 4190-8405 (Diff. Software)	Same
		4190-8405/A190-8405	Incident Commander Supervising Sta		5
		4190-8411/A190-8411	Incident Commander Remote Client	Same as 4190-8405 (Diff. Software)	Same
		4190-9822/A190-9822	Media Card - Wired Module Aftermkt		5
		4190-9823/A190-9823	Media Card - Fiber Module Aftermkt	Similar to 4190-6036	Interp.
		4190-9828/A190-9828	Network Inter. Card Module Aftermkt		Interp.
		4190-9829/A190-9829	Network Inter. Card Module Aftermkt		5
Power Supplies & Distribution	Tyco, Inc.	4100-0634/A100-0634	Power Distribution Module - 120 VAC		5, 13-16
		4100-0650/A100-0650	Battery Shelf		5,14-16,19
		4100-5101/A100-5101	Expansion Power Supply (XPS)		14, 16
		4100-5111/A100-5111	System Power Supply		5
		4100-5120/A100-5120	TrueAlert Power Supply		1
		4100-5125/A100-5125	Remote Power Supply	Similar to 4100-5111	Interp.
		4100-5128/A100-5128	Battery Distribution Terminal Block		5
		4100-5311/A100-5311	EPS+ - Power Supply, NAC IDNet+		15
		4100-5325/A100-5325	EPS - Power Supply, NAC	Similar to 4100-9314	Interp.
		4100-5401/A100-5401	ES Power Supply only	Similar to 4100-5311	Interp.
4100-5402/A100-5402	ES-XPS Expansion Supply	Similar to 4100-5101	Interp.		
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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001161-CR-001-R6



Manufacturer:	Tyco, Inc.	Table Description:	4100U/ES and 4190 Subcomponents	TABLE 5
Model Line:	Simplex and Autocall Fire Alarm Systems			

Building Code:	CBC 2022	Seismic Certification Limits:	$S_{DS} = 2.5g$ $z/h = 1.0$ $S_{DS} = 2.5g$ $z/h = 0.0$	$I_P = 1.5$
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Component Type	Manufacturer	Model ¹	Description	Notes	UUT
Door Mounted Cards & Modules	Tyco, Inc.	4100-1252/A100-1252	LED/SW Module - Audio 1 Channel		15
		4100-1253/A100-1253	LED/SW Module - Audio 1.5 Channel	Similar to 4100-1255	Interp.
		4100-1254/A100-1254	LED/SW Module - Audio 2 Channel	Similar to 4100-1255	Interp.
		4100-1255/A100-1255	LED/SW Module - Audio 3-8 Channel		19
		4100-1275/A100-1275	HOA G-R-W Module - Labeled	Similar to 4100-1286	Interp.
		4100-1276/A100-1276	LED Module - Plugable 8 Red	Similar to 4100-1255	Interp.
		4100-1277/A100-1277	LED Module - Plugable 16 Red - Yellow	Similar to 4100-1300	Interp.
		4100-1278/A100-1278	LED/SW Module - Red-Yellow/16	Similar to 4100-1300	Interp.
		4100-1279/A100-1279	Blank Display Module		5,13,15,19
		4100-1280/A100-1280	LED/SW Module - Red/8	Similar to 4100-1300	Interp.
		4100-1281/A100-1281	LED/SW Module - Yellow/8	Similar to 4100-1300	Interp.
		4100-1282/A100-1282	LED/SW Module - Red-Yellow/16		15
		4100-1283/A100-1283	LED/SW Module - Yellow-Yellow/16	Similar to 4100-1255	Interp.
		4100-1284/A100-1284	LED/SW Module - Red-Green/16	Similar to 4100-1255	Interp.
		4100-1285/A100-1285	LED/SW Module - 16 Red/16	Similar to 4100-1255	Interp.
		4100-1286/A100-1286	HOA G-R-G Module - Labeled		15
		4100-1287/A100-1287	LED/SW Module - 24 Red/24	Similar to 4100-1286	Interp.
		4100-1288/A100-1288	64/64 Controller Module w/Mtg plate		15, 19
		4100-1289/A100-1289	64/64 Controller Module w/o Mtg Plate	Similar to 4100-1288	Interp.
		4100-1295/A100-1295	HOA G-R-G Module - Un-labeled	Similar to 4100-1286	Interp.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001161-CR-001-R6



Manufacturer:	Tyco, Inc.	Table Description:	4100U/ES and 4190 Subcomponents	TABLE 5
Model Line:	Simplex and Autocall Fire Alarm Systems			

Building Code:	CBC 2022	Seismic Certification Limits:	$S_{DS} = 2.5g$ $z/h = 1.0$ $S_{DS} = 2.5g$ $z/h = 0.0$	$I_P = 1.5$
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Component Type	Manufacturer	Model ¹	Description	Notes	UUT
Door Mounted Cards & Modules	Tyco, Inc.	4100-1296/A100-1296	LED/SW Module - Green-Yellow/16	Similar to 4100-1255	Interp.
		4100-1299/A100-1299	HOA G-R-W Module - Un-labeled	Similar to 4100-1286	Interp.
		4100-1300/A100-1300	LED/SW Module - Plugable/16		15
		4100-1301/A100-1301	HOA G-Y-G Module - Un-labeled	Similar to 4100-1286	Interp.
		4100-1302/A100-1302	HOA G-Y-G Module - Labeled	Similar to 4100-1286	Interp.
		4190-7013/A190-7013	CPU/Monitor 4100ES Cabinet Mount		5
Door Mounted Cards & Comm Device	Tyco, Inc.	4100-1243/A100-1243	Microphone (local)		15, 19
		4100-1244/A100-1244	Microphone (remote)	Similar to 4100-1243	Interp.
		4100-1270/A100-1270	FF Telephone - Master Module		15, 19
		4100-1271/A100-1271	FF Telephone - Remote Master Module	Similar to 4100-1270	Interp.
		4100-1273/A100-1273	FF Telephone - Class A Module		15
Misc. Components	Tyco, Inc.	4100-2300/A100-2300	Expansion Bay Assembly		5,14-16,19
		4100-2303/A100-2303	Stabilizer bracket - Legacy		13-16, 19
		4100-2320/A100-2320	Expansion Bay Assembly - Audio Harness		19
		4100-5431/A100-5431	ES Power Supply Optional Fan Module		Interp.
		4100-6034/A100-6034	Tamper switch with IAM		13
Preconfigured Systems	Tyco, Inc.	4100-9610/A100-9610	Remote Annunciator Package	Similar to 4100-9314	Interp.
		4100-9611/A100-9611	Remote Annunciator - Basic	Similar to 4100-9314	Interp.
		4100-9615/A100-9615	Remote Annunciator - Incident Cmdr	Similar to 4100-9314	Interp.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001161-CR-001-R6



Manufacturer:	Tyco, Inc.	Table Description:	4100U/ES and 4190 Subcomponents	TABLE 5
Model Line:	Simplex and Autocall Fire Alarm Systems			

Building Code:	CBC 2022	Seismic Certification Limits:	$S_{DS} = 2.5 g$ $z/h = 1.0$ $S_{DS} = 2.5 g$ $z/h = 0.0$	$I_P = 1.5$
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Component Type	Manufacturer	Model ¹	Description	Notes	UUT
Main System Supply & CPU	Tyco, Inc.	4100-7153/A100-7153	Master Ctrlr w/InfoAlarm Upgrade	Similar to 4100-9314	Interp.
		4100-9111/A100-9111	Master Ctrlr w/ 2x40 Display		19
		4100-9114/A100-9114	Master Ctrlr w/ InfoAlarm	Similar to 4100-9314	Interp.
		4100-9121/A100-9121	Master Ctrlr	Similar to 4100-9111	Interp.
		4100-9122/A100-9122	Master Ctrlr w/ InfoAlarm	Similar to 4100-9314	Interp.
		4100-9131/A100-9131	Master Ctrlr No Display	Similar to 4100-9111	Interp.
		4100-9141/A100-9141	4100-9111 w/ NDU non-voice	Similar to 4100-9111	Interp.
		4100-9142/A100-9142	4100-9111 w/ NDU w/voice	Similar to 4100-9111	Interp.
		4100-9151/4100-9151	4100-9314 w/NDU non-voice 2x40 Displ.	Similar to 4100-9314	Interp.
		4100-9152/4100-9152	4100-9314 w/ NDU w/voice InfoAlarm Display	Similar to 4100-9314	Interp.
		4100-9157/A100-9157	ES Net NDU w/2x40 LCD Display	Similar to 4100-9141	Interp.
		4100-9158/A100-9158	ES Net NDU w/2x40 LCD Display & w/voice	Similar to 4100-9142	Interp.
		4100-9163/A100-9163	NDU w/ Flexible User Interface	Similar to 4100-9151	Interp.
		4100-9168/A100-9168	NDU w/VOICE and Flexible User Interface	Similar to 4100-9152	Interp.
		4100-9311/A100-9311	EPS Master Ctrlr w/ Display		13
		4100-9314/A100-9314	EPS Master Ctrlr w/InfoAlarm		15
		4100-9331/A100-9331	EPS Master Ctrlr No Display	Similar to 4100-9314	Interp.
		4100-9342/4100-9342	EPS Network display w/ Voice 2x40	Similar to 4100-9314	Interp.
		4100-9352/4100-9352	EPS Network display w/ Voice InfoAlarm	Similar to 4100-9314	Interp.
		4100-9357/A100-9357	EPS Net NDU w/2x40 LCD Display & W/Voice	Similar to 4100-9342	Interp.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001161-CR-001-R6



Manufacturer: Tyco, Inc.		Table Description: 4100U/ES and 4190 Subcomponents			TABLE 5
Model Line: Simplex and Autocall Fire Alarm Systems					
Building Code: CBC 2022		Seismic Certification Limits: $S_{DS} = 2.5g$ $z/h = 1.0$ $S_{DS} = 2.5g$ $z/h = 0.0$			$I_P = 1.5$
Component Type	Manufacturer	Model ¹	Description	Notes	UUT
Main System Supply & CPU	Tyco, Inc.	4100-9358/A100-9358	EPS Net NDU W/Voice and Flexible User Interface	Similar to 4100-9352	Interp.
		4100-9701/A100-9701	ES-Power Supply Master Controller CPU with 2x40 display - English	Similar to 4100-9111	Interp.
		4100-9703/A100-9703	ES-PS Master Controller CPU with InfoAlarm display - English, Raised Keys	Similar to 4100-9111	Interp.
		4100-9705/A100-9705	ES-PS Master Controller CPU with InfoAlarm display - English, Flat Keys	Similar to 4100-9111	Interp.
		4100-9706/A100-9706	ES-PS Master Controller w/ ES Touchscreen	Similar to 4100-9703	Interp.
		4100-9709/A100-9709	ES-PS Master Controller CPU without display	Similar to 4100-9111	Interp.
		4100-9720/A100-9720	4120 Network Card, with ES-PS,CPU,2x40 Display - English	Similar to 4100-9314	Interp.
		4100-9722/A100-9722	4120 Network Card, with ES-PS,CPU, InfoAlarm Display with Raised Keys, InfoAlarm Memory Expansion Card, English	Similar to 4100-9314	Interp.
		4100-9724/A100-9724	4120 Network Card, with ES-PS, CPU, InfoAlarm Display with Flat Keys, InfoAlarm Memory Expansion Card, English	Similar to 4100-9314	Interp.
		4100-9725/A100-9725	4120 NDU w/ ES-PS and Touchscreen	Similar to 4100-9722	Interp.
		4100-9730/A100-9730	4120 Network Cardx2, with ES-PSx2, CPUx2, Voice, 2x40 Display,(2 Bays)- English Card, English	Similar to 4100-9314	Interp.
		4100-9732/A100-9732	4120 Network Cardx2, with ES-PSx2,CPUx2,Voice, InfoAlarm Display with Raised Keys, InfoAlarm Memory Expansion Card, (2 Bay), English	Similar to 4100-9314	Interp.
Notes: 1. The Simplex and Autocall differ only in branding. Simplex units are identified with a "4" in the product number prefix (4XXX) and Autocall units are identified with an "A" in the product number prefix (AXXX).					

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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Manufacturer: Tyco, Inc.		Table Description: 4100U/ES and 4190 Subcomponents			TABLE 5
Model Line: Simplex and Autocall Fire Alarm Systems					
Building Code: CBC 2022		Seismic Certification Limits: $S_{DS} = 2.5 g$ $z/h = 1.0$ $S_{DS} = 2.5 g$ $z/h = 0.0$			$I_P = 1.5$
Component Type	Manufacturer	Model ¹	Description	Notes	UUT
Main System Supply & CPU	Tyco, Inc.	4100-9734/A100-9734	4120 Network Cardx2, with ES-PSx2, CPUx2, Voice, InfoAlarm Display with Flat Keys, (2 Bays), English	Similar to 4100-9314	Interp.
		4100-9735/A100-9735	4120 Voice NDU w/ES-PS and Touchscreen	Similar to 4100-9732	Interp.
		4100-9750/A100-9750	ES-PS, 2x40 Display, CPU, ES Network Interface Card, English	Similar to 4100-9314	Interp.
		4100-9755/A100-9755	ES Net NDU w/ES-PS and Touchscreen	Similar to 4100-9754	Interp.
		4100-9760/A100-9760	ES-PSx2, 2x40 Display, CPUx2, ES Network Interface Cardx2, Voice, (2 Bays), English	Similar to 4100-9314	Interp.
		4100-9762/A100-9762	ES-PSx2, InfoAlarm Display with Raised Keys, CPUx2, ES Network Interface Cardx2, InfoAlarm Memory Expansion Card, Voice, (2 Bays),English	Similar to 4100-9314	Interp.
		4100-9764/A100-9764	ES-PSx2, InfoAlarm Display with Flat Keys, CPUx2, ES Network Interface Cardx2, InfoAlarm Memory Expansion Card (2 Bays), English	Similar to 4100-9314	Interp.
		4100-9765/A100-9765	ES Net Voice NDU w/ES-PS and Touchscreen	Similar to 4100-9762	Interp.
Notes: 1. The Simplex and Autocall differ only in branding. Simplex units are identified with a "4" in the product number prefix (4XXX) and Autocall units are identified with an "A" in the product number prefix (AXXX).					

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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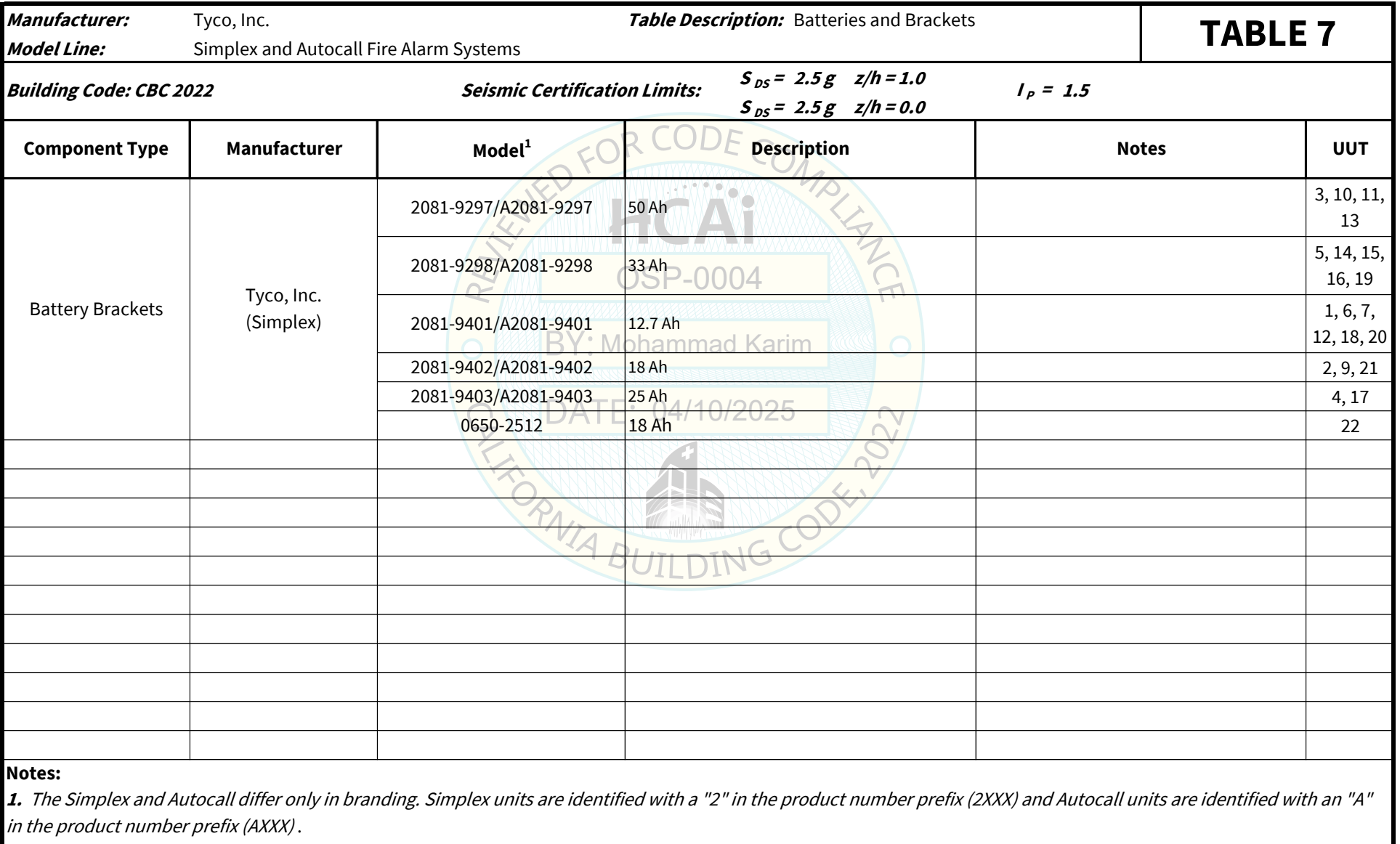
Manufacturer:	Tyco, Inc.	Table Description:	Batteries and Brackets	TABLE 7
Model Line:	Simplex and Autocall Fire Alarm Systems			

Building Code:	CBC 2022	Seismic Certification Limits:	$S_{DS} = 2.5g$ $z/h = 1.0$ $S_{DS} = 2.5g$ $z/h = 0.0$	$I_p = 1.5$
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Component Type	Manufacturer	Model ¹	Description	Notes	UUT
Batteries	FirstPower Technology Company, LTD	FP1212	1.2 Ah, SLA		Extrap.
		FPXXXX	...		Extrap.
		FP12120	12.7 Ah, SLA	2081-9288	1, 6, 7, 12, 18, 20
		FPXXXX	...		Interp.
		FP12180	18 Ah, SLA	2081-9275	2, 9, 21, 22
		FPXXXX	...		Interp.
		FP12250A	25 Ah, SLA	2081-9287	4, 17
	CASIL	CA420	2 Ah, SLA		Extrap.
		CAXXXX	...		Extrap.
		CA12330	33 Ah, SLA	2081-9276	3, 10, 11, 13
		CAXXXX	...		Interp.
		CA1250	50 Ah, SLA	2081-9296	5, 14, 15, 16, 19

Notes:
1. The Simplex and Autocall differ only in branding. Simplex units are identified with a "2" in the product number prefix (2XXX) and Autocall units are identified with an "A" in the product number prefix (AXXX).

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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Manufacturer: Tyco, Inc.		Table Description: Cabinets and Doors			TABLE 8
Model Line: Simplex and Autocall Fire Alarm Systems					
Building Code: CBC 2022		Seismic Certification Limits: $S_{DS} = 2.5\text{ g}$ $z/h = 1.0$ $S_{DS} = 2.5\text{ g}$ $z/h = 0.0$			$I_p = 1.5$
Component Type	Manufacturer	Model ¹	Description	Notes	UUT
Life Alarm (4005/A005) - Fire Alarm Panel					
Cabinet	Tyco, Inc.	2975-9209/A975-9209	Cabinet Assembly - Beige		2, 9
		2975-9210/A975-9210	Cabinet Assembly - Red		Interp.
Door	Tyco, Inc.	4005-9857/A005-9857	Door - Beige		2, 9
		4005-9858/A005-9858	Door - Red		Interp.
Bracket	Tyco, Inc.	4005-9860/A005-9860			2
Fire Alarm Panel (4010ES/4100ES/4190 or A010ES/A100ES/A190) - BOX ONLY / BOX WITH DOOR AND DRESS PANEL					
Box Only	Tyco, Inc.	2975-9407/A975-9407	Red - 1 Bay		3, 11
		2975-9408/A975-9408	Red - 2 Bay		10, 13
		2975-9409/A975-9409	Red - 3 Bay		15
		2975-9410/A975-9410	Beige - 1 Bay		Interp.
		2975-9411/A975-9411	Beige - 2 Bay		Interp.
		2975-9412/A975-9412	Beige - 3 Bay		19
		2975-9438/A975-9438	Platinum - 1 Bay		Interp.
		2975-9439/A975-9439	Platinum - 2 Bay		Interp.
		2975-9440/A975-9440	Platinum - 3 Bay		5, 14, 16
Box w/ Solid Metal Door	Tyco, Inc.	2975-9427/A975-9427	Red - 1 Bay		Interp.
		2975-9428/A975-9428	Red - 2 Bay		Interp.
		2975-9429/A975-9429	Red - 3 Bay		Interp.
		2975-9430/A975-9430	Beige - 1 Bay		Interp.
		2975-9431/A975-9431	Beige - 2 Bay		Interp.
		2975-9432/A975-9432	Beige - 3 Bay		Interp.
Notes: 1. The Simplex and Autocall differ only in branding. Simplex units are identified with a "4" in the product number prefix (4XXX) and Autocall units are identified with an "A" in the product number prefix (AXXX).					

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001161-CR-001-R6



Manufacturer: Tyco, Inc.		Table Description: Cabinets and Doors			TABLE 8
Model Line: Simplex and Autocall Fire Alarm Systems					
Building Code: CBC 2022		Seismic Certification Limits:		$S_{DS} = 2.5 g \quad z/h = 1.0$ $S_{DS} = 2.5 g \quad z/h = 0.0$	$I_p = 1.5$
Component Type	Manufacturer	Model ¹	Description	Notes	UUT
Box w/ Solid Plastic Door	Tyco, Inc.	2975-9447/A975-9447	Red - 1 Bay		Interp.
		2975-9448/A975-9448	Red - 2 Bay		Interp.
		2975-9449/A975-9449	Red - 3 Bay		Interp.
		2975-9450/A975-9450	Platinum - 1 Bay		Interp.
		2975-9451/A975-9451	Platinum - 2 Bay		Interp.
		2975-9452/A975-9452	Platinum - 3 Bay		Interp.
Box w/ Glass & Metal Door and Dress Panel	Tyco, Inc.	2975-9421/A975-9421	Red - 1 Bay		Interp.
		2975-9422/A975-9422	Red - 2 Bay		Interp.
		2975-9423/A975-9423	Red - 3 Bay		Interp.
		2975-9424/A975-9424	Beige - 1 Bay		Interp.
		2975-9425/A975-9425	Beige - 2 Bay		Interp.
		2975-9426/A975-9426	Beige - 3 Bay		19
Box w/ Glass & Plastic Door and Dress Panel	Tyco, Inc.	2975-9441/A975-9441	Red - 1 Bay		3, 11
		2975-9442/A975-9442	Red - 2 Bay		10, 13
		2975-9443/A975-9443	Red - 3 Bay		Interp.
		2975-9444/A975-9444	Platinum - 1 Bay		Interp.
		2975-9445/A975-9445	Platinum - 2 Bay		Interp.
		2975-9446/A975-9446	Platinum - 3 Bay		5
Box w/ Glass & Plastic Door and Custom Dress Panel	Tyco, Inc.	2975-9457/A975-9457	Platinum - 3 Bay		Interp.
		2975-9458/A975-9458	Red - 3 Bay		Interp.
		2975-9459/A975-9459	Platinum - 2 Bay		Interp.
		2975-9460/A975-9460	Red - 2 Bay		Interp.
Notes:					
1. The Simplex and Autocall differ only in branding. Simplex units are identified with a "4" in the product number prefix (4XXX) and Autocall units are identified with an "A" in the product number prefix (AXXX).					

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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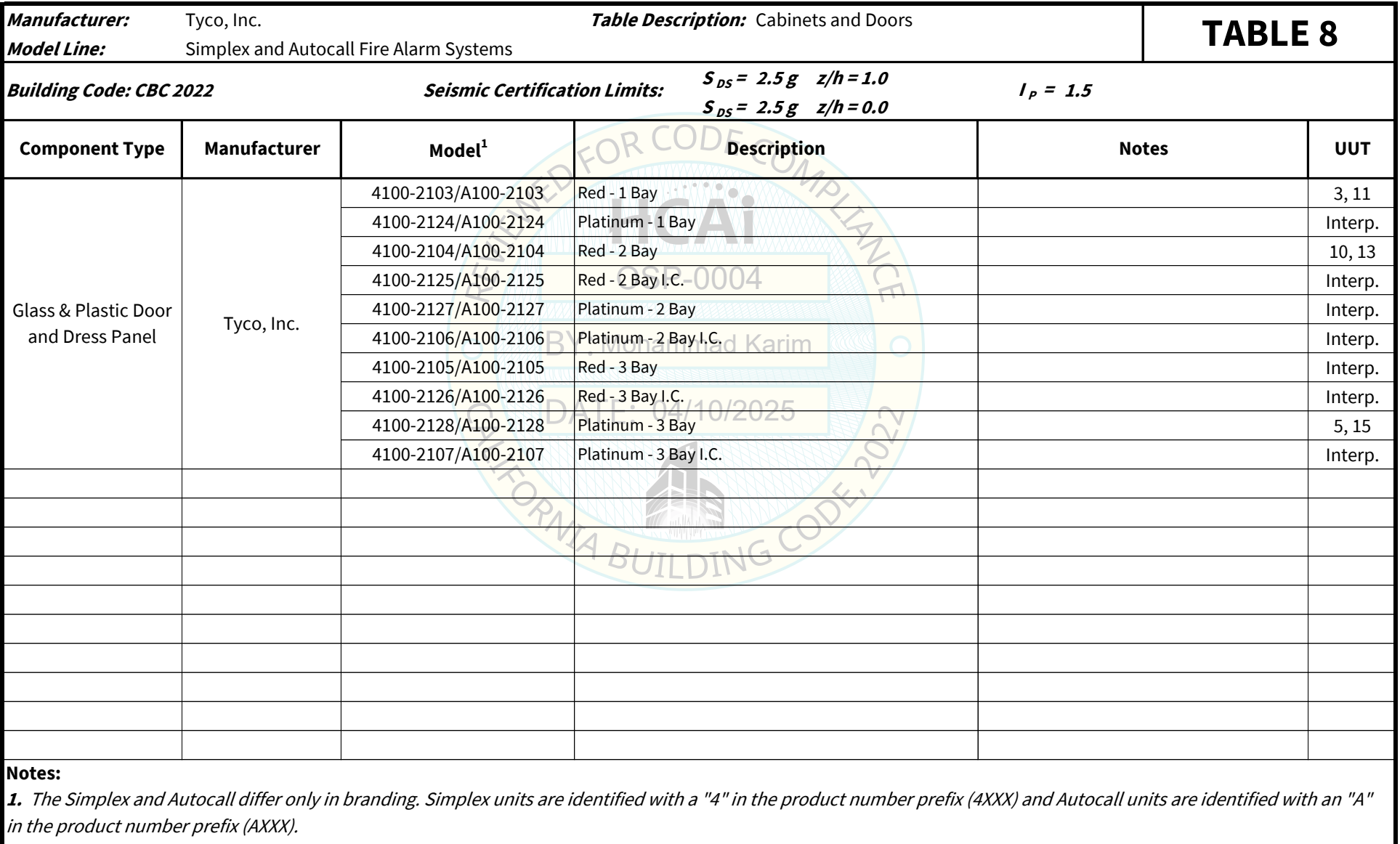
Manufacturer: Tyco, Inc.		Table Description: Cabinets and Doors			TABLE 8
Model Line: Simplex and Autocall Fire Alarm Systems					
Building Code: CBC 2022		Seismic Certification Limits: $S_{DS} = 2.5\text{ g}$ $z/h = 1.0$ $S_{DS} = 2.5\text{ g}$ $z/h = 0.0$			$I_p = 1.5$
Component Type	Manufacturer	Model ¹	Description	Notes	UUT
Fire Alarm Panel (4010ES/4100ES/4190 or A010ES/A100ES/A190) - DOORS					
Solid Metal Door	Tyco, Inc.	4100-2111/A100-2111	Beige - 1 Bay		Interp.
		4100-2112/A100-2112	Beige - 2 Bay		Interp.
		4100-2113/A100-2113	Beige - 3 Bay		Interp.
		4100-2131/A100-2131	Red - 1 Bay		Interp.
		4100-2132/A100-2132	Red - 2 Bay		Interp.
		4100-2133/A100-2133	Red - 3 Bay		16
Solid Plastic Door	Tyco, Inc.	4100-2134/A100-2134	Red - 1 Bay		Interp.
		4100-2114/A100-2114	Platinum - 1 Bay		Interp.
		4100-2135/A100-2135	Red - 2 Bay		Interp.
		4100-2131/A100-2131	Platinum - 2 Bay		Interp.
		4100-2111/A100-2111	Red - 3 Bay		14
		4100-2132/A100-2132	Platinum - 3 Bay		Interp.
Glass & Metal Door and Dress Panel	Tyco, Inc.	4100-2116/A100-2116	Red - 1 Bay		Interp.
		4100-2121/A100-2121	Beige - 1 Bay		Interp.
		4100-2101/A100-2101	Red - 2 Bay		Interp.
		4100-2122/A100-2122	Beige - 2 Bay		Interp.
		4100-2102/A100-2102	Red - 3 Bay		Interp.
		4100-2123/A100-2123	Beige - 3 Bay		19
Notes: 1. The Simplex and Autocall differ only in branding. Simplex units are identified with a "4" in the product number prefix (4XXX) and Autocall units are identified with an "A" in the product number prefix (AXXX).					

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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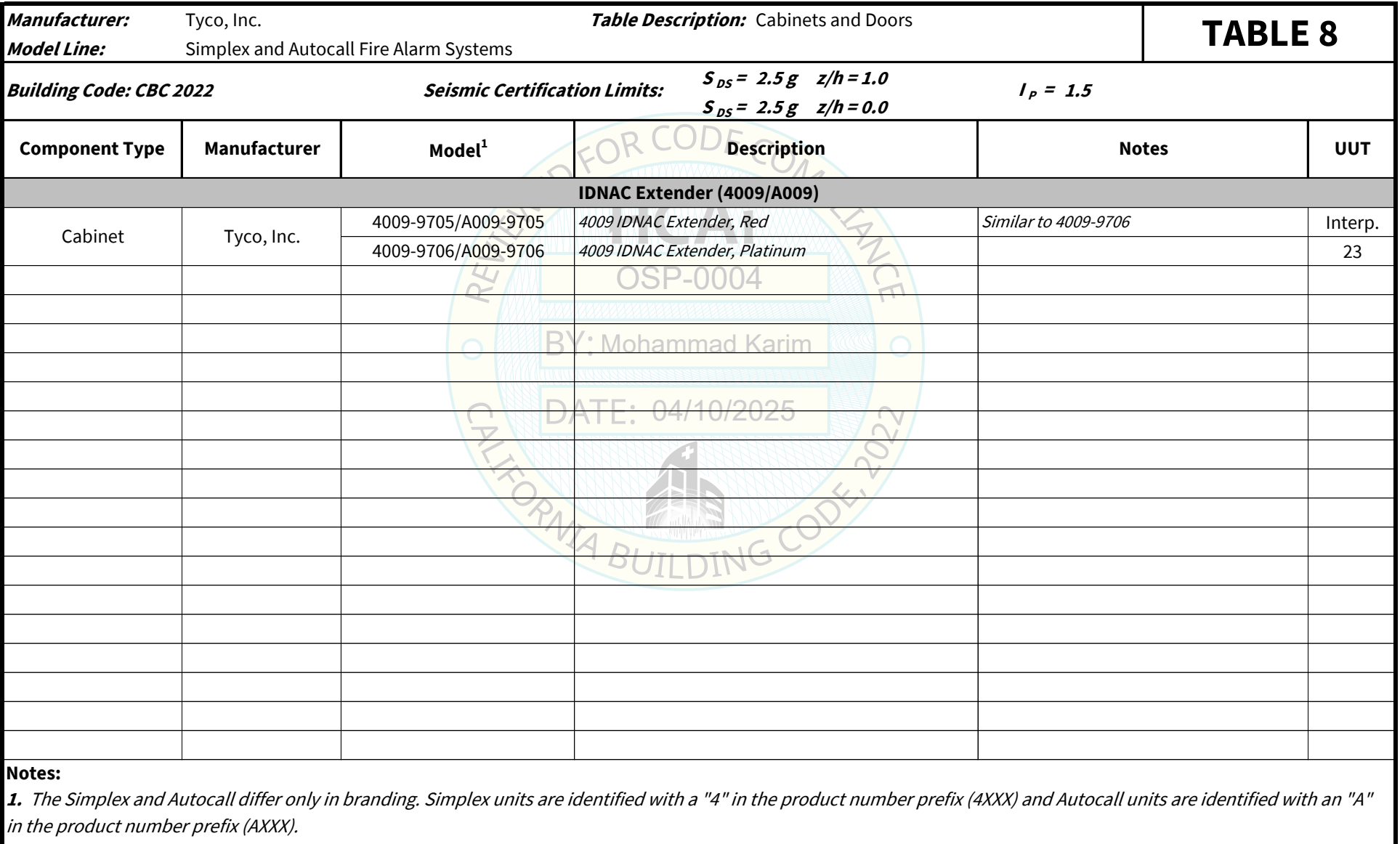


Manufacturer: Tyco, Inc.		Table Description: Cabinets and Doors			TABLE 8
Model Line: Simplex and Autocall Fire Alarm Systems					
Building Code: CBC 2022		Seismic Certification Limits:		$S_{DS} = 2.5g \quad z/h = 1.0$ $S_{DS} = 2.5g \quad z/h = 0.0$	$I_p = 1.5$
Component Type	Manufacturer	Model ¹	Description	Notes	UUT
EZCare (5009/A009)					
Cabinet	Tyco, Inc.	5009-9720/A009-9720	Box w/ Solid Metal Door - Platinum - 1 Bay		Extrap.
		5009-9724/A009-9724	Box w/ Solid Metal Door - Platinum - 2 Bay		4, 17
TrueAlert (4009/A009) - ADDRESSABLE NOTIFICATION POWER SUPPLY					
Cabinet	Tyco, Inc.	2975-9229/A975-9229	Cabinet Assembly - Red		1
		2975-9230/A975-9230	Cabinet Assembly - Beige		Interp.
TrueAlert (4009/A009) - ADDRESSABLE CONTROL					
Cabinet	Tyco, Inc.	4009-9401/A009-9401	Cabinet - Beige		6, 12
TrueAlert (4009/A009) - IDNET NAC EXTENDER					
Cabinet	Tyco, Inc.	4009-9201/A009-9201	Cabinet - Beige		7, 18
		4009-9601/A009-9601	4009 IDNAC Repeater, Platinum	Similar to 4009-9201	Interp.
		4009-9601BA/A009-9601BA	4009 IDNAC Repeater, Platinum, Built in America	Similar to 4009-9201	Interp.
		4009-9602/A009-9602	4009 IDNAC Repeater, Red	Similar to 4009-9201	Interp.
		4009-9602BA/A009-9602BA	4009 IDNAC Repeater, Red, Built in America	Similar to 4009-9201	Interp.
Daughter Card	Tyco, Inc.	4009-9814/A009-9814	4009 Repeater, Adapter daughter card	Similar to 4009-9809	Interp.
Extender Plus (4009/A009)					
Cabinet	Tyco, Inc.	4009-9701/A009-9701	4009 Extender Plus, Red		24
		4009-9702/A009-9702	4009 Extender Plus, Platinum	Similar to 4009-9701	Interp.
		4009-9703/A009-9703	4009 Extender Plus w/ IDNAC Card, Red		25
		4009-9704/A009-9704	4009 Extender Plus w/ IDNAC Card, Platinum	Similar to 4009-9703	Interp.
Notes:					
1. The Simplex and Autocall differ only in branding. Simplex units are identified with a "4" in the product number prefix (4XXX) and Autocall units are identified with an "A" in the product number prefix (AXXX).					

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001161-CR-001-R6



Manufacturer: Tyco, Inc.		Table Description: 4007ES/A007ES Subcomponents			TABLE 9
Model Line: Simplex and Autocall Fire Alarm Systems					
Building Code: CBC 2022		Seismic Certification Limits: $S_{DS} = 2.5 g \quad z/h = 1.0$ $S_{DS} = 2.5 g \quad z/h = 0.0$			$I_P = 1.5$
Component Type	Manufacturer	Model ¹	Description	Notes	UUT
Card/Bracket Mounted Cards	Tyco, Inc.	4007-2500/A007-2500	Connected Services Gateway Module 4007ES	Similar to 4007-9818	Interp.
		4007-2501/A007-2501	Simple Power over Ethernet Switch kit for 4007ES	Similar to 4007-9818	Interp.
		4007-2504/A007-2504	Connected Services Gateway & IP Communicator Module 4007ES	Similar to 4007-9818	Interp.
		4007-6301/A007-6301	Fiber Media Module	Same as 4010-9819 (branding)	Same
		4007-6302/A007-6302	Fiber Media Module	Same as 4010-9819 (branding)	Same
		4007-6303/A007-6303	Fiber Media Module	Same as 4010-9819 (branding)	Same
		4007-6304/A007-6304	Fiber Media Module	Same as 4010-9819 (branding)	Same
		4007-6306/A007-6306	ES Net NIC Dual Ch. Ethernet Media Card	Same as 4007-9813	Same
		4007-6307/A007-6307	ES Net NIC Dual Ch. DSL Media Card	Same as 4007-9813	Same
		4007-6308/A007-6308	ES Net NIC Dual Ch. Single-mode Fiber Media Card	Same as 4007-6301	Same
		4007-6309/A007-6309	ES Net NIC Dual Ch. Multi-mode Fiber Media Card	Same as 4007-6303	Same
		4007-6400/A007-6400	Verizon LTE module for the IP Communicator Module	Similar to 4007-9818	Interp.
		4007-6401/A007-6401	AT&T GSM module for the IP Communicator Module	Similar to 4007-9818	Interp.
		4007-6416/A007-6416	ATT GSM 4G/LTE Cellular Module Kit for Internal Installations for the 4007ES FACP	Similar to 4007-6401	Interp.
		4007-9801/A007-9801	Zone/Relay Module		21
		4007-9802/A007-9802	25V Regulator Module		21
		4007-9803/A007-9803	IDNet+ Loop Expansion Module		21
		4007-9804/A007-9804	Dual Class A Isolator Module		20
		4007-9806/A007-9806	SDACT Module		20
Notes: 1. The Simplex and Autocall differ only in branding. Simplex units are identified with a "4" in the product number prefix (4XXX) and Autocall units are identified with an "A" in the product number prefix (AXXX).					

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001161-CR-001-R6



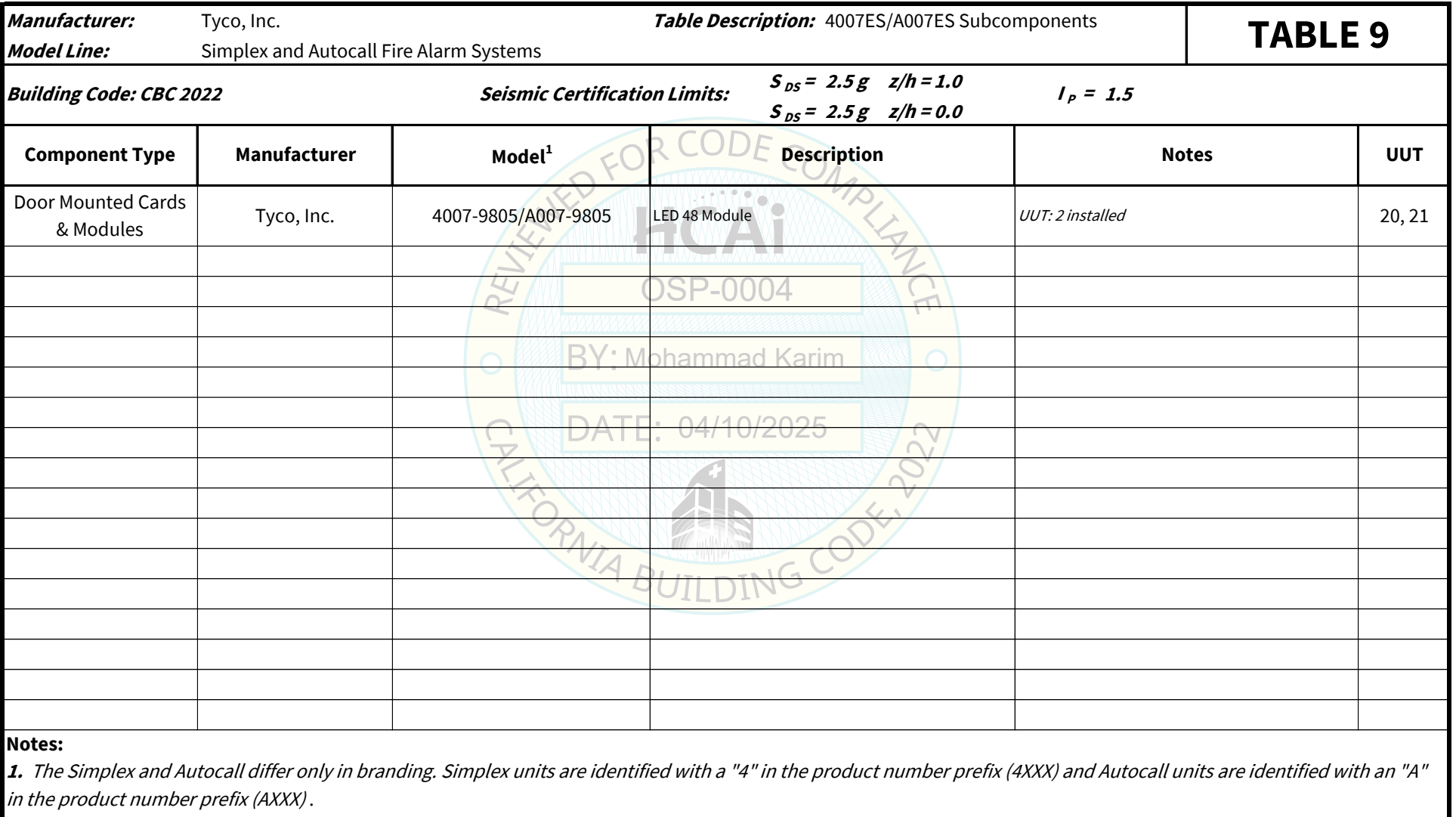
Manufacturer:	Tyco, Inc.	Table Description:	4007ES/A007ES Subcomponents	TABLE 9
Model Line:	Simplex and Autocall Fire Alarm Systems			

Building Code:	CBC 2022	Seismic Certification Limits:	$S_{DS} = 2.5 g$ $z/h = 1.0$ $S_{DS} = 2.5 g$ $z/h = 0.0$	$I_P = 1.5$
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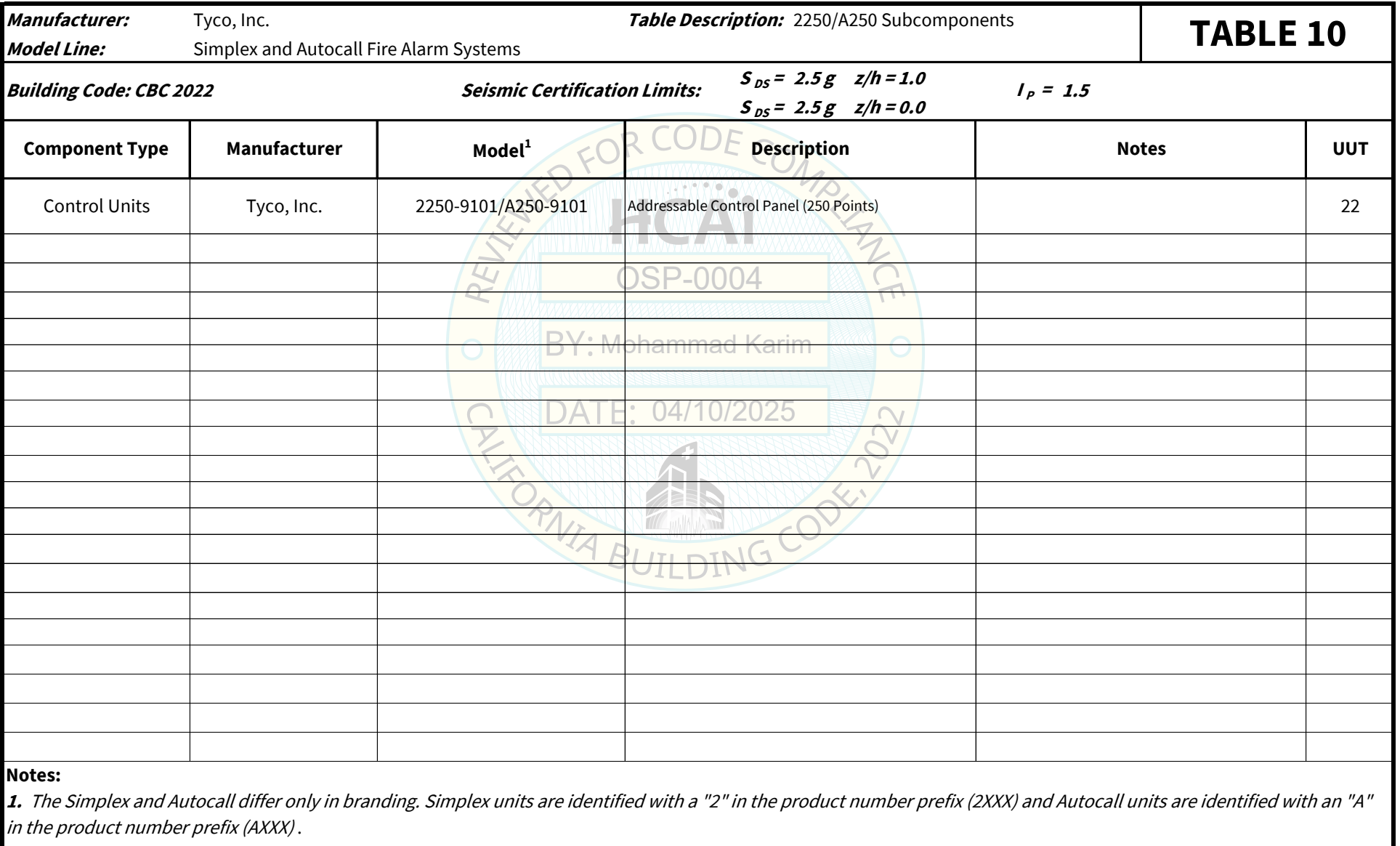
Component Type	Manufacturer	Model ¹	Description	Notes	UUT
Card/Bracket Mounted Cards	Tyco, Inc.	4007-9807/A007-9807	City Circuit w/ Disconnect Module		20
		4007-9808/A007-9808	City Circuit w/o Disconnect Module	Similar to 4007-9807	Extrap.
		4007-9809/A007-9809	Alarm Relay Module		21
		4007-9810/A007-9810	Flat Network module	Same as 4010-9922 (branding)	Same
		4007-9812/A007-9812	RS232 Module	Same as 4010-9918 (branding)	Same
		4007-9813/A007-9813	Wired Media Module	Same as card in 4010-9924 (branding)	Same
		4007-9814/A007-9814	Fiber Media Module	Same as 4010-9819 (branding)	Same
		4007-9817/A007-9817	ES Net Network Card-Flat	Same as 4007-9810	Same
		4007-9818/A007-9818	IP Communicator Module	Similar to 4007-9806	Interp.
		4190-6106/A190-6106	TrueInsight Remote Service Gateway		21
		2250-9800/A2250-9800	Connected Service Gateway	Similar to 4007-9806	Interp.
		2050-9909/A2050-9909	City Circuit with Disconnect Switch	Similar to 4007-9807	Interp.
Control Units	Tyco, Inc.	4007-9101/A007-9101	FACP with Cabinet Assembly – Red	Addressable & Conventional	Interp.
		4007-9101AR/A007-9101AR	FACP with Cabinet Assembly – Red	Same as 4007-9101 (rebranded as Autopulse Z-20)	Same
		4007-9102/A007-9102	FACP with Cabinet Assembly – Platinum	Same as 4007-9101 (color)	21
		4007-9201/A007-9201	FACP with Cabinet Assembly – Red	Addressable only	20
		4007-9202/A007-9202	FACP with Cabinet Assembly – Platinum	Same as 4007-9201 (color)	Same
		4190-9836/A190-9836	NSI-4120 Network , Red	Same as 4007-9101	Same
		4190-9837/A190-9837	NSI-4120 Network, Platinum	Same as 4007-9101	Same
		4190-9838/A190-9838	NSI-ES Net Network, Red	Same as 4007-9101	Same
		4190-9839/A190-9839	NSI-ES Net Network, Platinum	Same as 4007-9101	Same

Notes:
1. The Simplex and Autocall differ only in branding. Simplex units are identified with a "4" in the product number prefix (4XXX) and Autocall units are identified with an "A" in the product number prefix (AXXX).

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2001161-CR-001-R6



UNIT UNDER TEST (UUT) SUMMARY SHEET

2001161-CR-001-R6



Manufacturer: Tyco, Inc.

Model Line: Simplex and Autocall Fire Alarm Systems

UUT	Unit Description	Report Number	Testing Lab	Year Tested	ISO 17025 Accredited?	S _{DS}	z/h	I _p
1	TrueAlert (4009) - Power Supply	45286-1, Rev.2 (UUT1)	Element - Minneapolis	2011	Yes	2.5 2.5	1.0 0.0	1.5
2	Life Alarm (4005) - Fire Alarm Panel	45286-1, Rev.2 (UUT2)	Element - Minneapolis	2011	Yes	2.5 2.5	1.0 0.0	1.5
3	Fire Alarm Controls (4010ES) - 1-Bay Panel	45286-1, Rev.2 (UUT3)	Element - Minneapolis	2011	Yes	2.5 2.5	1.0 0.0	1.5
4	EZCare (5009) - 2-Bay Panel	45286-1, Rev.2 (UUT4)	Element - Minneapolis	2011	Yes	2.5 2.5	1.0 0.0	1.5
5	Fire Alarm Controls & Incident Commander (4100U/ES:4190) - 3 Bay Panel	45286-1, Rev.2 (UUT5)	Element - Minneapolis	2011	Yes	2.5 2.5	1.0 0.0	1.5
6	TrueAlert (4009) - Addressable Control	45286-1, Rev.2 (UUT6)	Element - Minneapolis	2011	Yes	2.5 2.5	1.0 0.0	1.5
7	TrueAlert (4009) - IDNET NAC Extender	45286-1, Rev.2 (UUT7)	Element - Minneapolis	2011	Yes	2.5 2.5	1.0 0.0	1.5
8	NOT USED							
9	Life Alarm (4005) - Fire Alarm Panel	TR028495-SEI, Rev.1 (UUT9)	Element - Acton	2014	Yes	2.5 2.5	1.0 0.0	1.5
10	Fire Alarm Controls (4010ES) - 2-Bay Panel	TR028495-SEI, Rev.1 (UUT10)	Element - Acton	2014	Yes	2.5 2.5	1.0 0.0	1.5
11	Fire Alarm Controls (4010ES) - 1-Bay Panel	TR028495-SEI, Rev.1 (UUT11)	Element - Acton	2014	Yes	2.5 2.5	1.0 0.0	1.5

Notes:

UNIT UNDER TEST (UUT) SUMMARY SHEET

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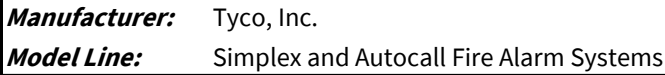
Manufacturer: Tyco, Inc.

Model Line: Simplex and Autocall Fire Alarm Systems

UUT	Unit Description	Report Number	Testing Lab	Year Tested	ISO 17025 Accredited?	S _{DS}	z/h	I _p
12	TrueAlert (4009) - Addressable Control	TR028495-SEI, Rev.1 (UUT12)	Element - Acton	2014	Yes	2.5 2.5	1.0 0.0	1.5
13	Fire Alarm Controls & Incident Commander (4100U/ES:4190) - 2 Bay Panel	TR032183, Rev.0 (UUT13)	Element - Boxborough	2014	Yes	2.5 2.5	1.0 0.0	1.5
14	Fire Alarm Controls & Incident Commander (4100U/ES:4190) - 3 Bay Panel	TR028495-SEI, Rev.1 (UUT14)	Element - Acton	2014	Yes	2.5 2.5	1.0 0.0	1.5
15	Fire Alarm Controls & Incident Commander (4100U/ES:4190) - 3 Bay Panel	TR028495-SEI, Rev.1 (UUT15)	Element - Acton	2014	Yes	2.5 2.5	1.0 0.0	1.5
16	Fire Alarm Controls & Incident Commander (4100U/ES:4190) - 3 Bay Panel	TR032183, Rev.0 (UUT16)	Element - Boxborough	2014	Yes	2.5 2.5	1.0 0.0	1.5
17	EZCare (5009) - 2 Bay Panel	TR028495-SEI, Rev.1 (UUT17)	Element - Acton	2014	Yes	2.5 2.5	1.0 0.0	1.5
18	TrueAlert (4009) - IDNET NAC Extender	TR028495-SEI, Rev.1 (UUT18)	Element - Acton	2014	Yes	2.5 2.5	1.0 0.0	1.5
19	Fire Alarm Controls & Incident Commander (4100U/ES:4190) - 3 Bay Panel	TR028495-SEI, Rev.1 (UUT19)	Element - Acton	2014	Yes	2.5 2.5	1.0 0.0	1.5
20	Fire Alarm Control Panel (4007ES)	TR-PR035446-15 (UUT20)	Element - Boxborough	2015	Yes	2.5 2.5	1.0 0.0	1.5
21	Fire Alarm Control Panel (4007ES)	TR-PR035446-15 (UUT21)	Element - Boxborough	2015	Yes	2.5 2.5	1.0 0.0	1.5
22	Fire Alarm Control Unit (FACU) - Addressable Control, 250 points	TR-PR174411-2 (EUT1)	Element - Boxborough	2023	Yes	2.5 2.5	1.0 0.0	1.5

Notes:

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Notes:

UNIT UNDER TEST (UUT) SUMMARY SHEET

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Manufacturer:	Tyco, Inc.	UUT 1
Model Line:	Simplex and Autocall Fire Alarm Systems	
Model Number:	TrueAlert (4009) - Power Supply	
Serial Number:	11221	
		Test Report: 45286-1, Rev. 2

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
40	7.1	16.1	16.0	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 2022	ICC-ES AC156	2.5	1.0	1.5	4.00	3.00	1.67	0.67	
		2.5	0.0						

Product Construction Summary:	Test Mounting Details:
Unit comprised of cold rolled carbon steel 0.0598" thick powder coated box and door, with internal electronics. Enclosure is NEMA 1 rated.	

Options/Subcomponent Summary:		
Description	Mfr.	Part Number
Battery	First Power Technology Company	2081-9288 [FP12120]
Battery Bracket	Tyco - Simplex	2081-9401
Cabinet Assembly	Tyco	2975-9229
Transponder Interface Card	Tyco	4009-9813
TrueAlert Power Supply	Tyco	4100-5120

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UNIT UNDER TEST (UUT) SUMMARY SHEET

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Manufacturer:	Tyco, Inc.	UUT 3
Model Line:	Simplex and Autocall Fire Alarm Systems	
Model Number:	Fire Alarm Controls (4010ES) - 1 Bay Panel	
Serial Number:	0014962411	
		Test Report: 45286-1, Rev. 2

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
100	12.0	24.0	22.0	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 2022	ICC-ES AC156	2.5	1.0	1.5	4.00	3.00	1.67	0.67	
		2.5	0.0						

Product Construction Summary:			Test Mounting Details:
Unit comprised of cold rolled carbon steel 0.048" thick powder coated box and door, with internal electronics and user interface. Enclosure is NEMA 1 rated.			
Options/Subcomponent Summary:			
Description	Mfr.	Part Number	
Battery	CASIL	2081-9276 [CA12330]	
Battery Brackets	Tyco - Simplex	2081-9297	
Box Only (Red - 1 Bay)	Tyco	2975-9407	
Box w/ Glass & Plastic Door and Dress Panel (Red - 1 Bay)	Tyco	2975-9441	
Glass/Plastic Door & Dress Panel (Red - 1 Bay)	Tyco	4100-2103	
Main System Supply & CPU	Tyco	4010-9401	
Motherboard Mounted Cards	Tyco	4010-9920	
PDI Mounted Card	Tyco	4010-9908	
			UUT3 was wall mounted - rigid using four (4) 1/4"-20 Grade 5 machine bolts with nuts utilizing the existing holes in the back of the back-box.
			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

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Manufacturer:	<i>Tyco, Inc.</i>	UUT 4
Model Line:	<i>Simplex and Autocall Fire Alarm Systems</i>	
Model Number:	<i>Ecare (5009) - 2 Bay Panel</i>	
Serial Number:	<i>H870162</i>	
		Test Report: <i>45286-1, Rev. 2</i>

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
150	12.0	24.0	40.0	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 2022	ICC-ES AC156	2.5	1.0	1.5	4.00	3.00	1.67	0.67	
		2.5	0.0						

Product Construction Summary:			Test Mounting Details:
Unit comprised of cold rolled carbon steel 0.048" thick powder coated box and door, with internal electronics and user interface. Enclosure is NEMA 1 rated.			
Options/Subcomponent Summary:			
Description	Mfr.	Part Number	
Battery	FirstPower Technology Company	2081-9287 [FP12250A]	
Battery Brackets	Tyco - Simplex	2081-9403	
Cabinet (Box w/ Solid Metal Door - Platinum-2 Bay)	Tyco	5009-9724	
Card/Bracket Mounted Cards	Tyco - Simplex	5009-9719, 130.8000, 130.8100	
Main System Panel	Tyco - Simplex	5009-9721, 5009-9723	

UNIT UNDER TEST (UUT) SUMMARY SHEET

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Manufacturer:	Tyco, Inc.	UUT 5
Model Line:	Simplex and Autocall Fire Alarm Systems	
Model Number:	Fire Alarm Controls & Incident Commander (4100U/ES & 4190) - 3 Bay Panel	
Serial Number:	030237051 & 010422710	
Test Report:		45286-1, Rev. 2

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
175	12.0	24.0	60.0	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 2022	ICC-ES AC156	2.5	1.0	1.5	4.00	3.00	1.67	0.67	
		2.5	0.0						

Product Construction Summary:			Test Mounting Details:
Unit comprised of cold rolled carbon steel 0.048" thick powder coated box and door, with internal electronics and user interface. Enclosure is NEMA 1 rated.			
Options/Subcomponent Summary:			
Description	Mfr.	Part Number	
Battery	CASIL	2081-9296 [CA1250]	
Battery Bracket	Tyco-Simplex	2081-9298	
Box Only (Platinum - 3 Bay)	Tyco	2975-9440	
Box w/ Glass & Plastic Door and Dress Panel (Platinum - 3 Bay)	Tyco	2975-9446	
Card/Bracket Mounted Cards	Tyco	4100-6052, 4100-6057, 4190-6010, 4190-6034, 4190-6036, 4190-6060, 4190-8405, 4190-9822, 4190-9829	
Door Mounted Cards & Modules	Tyco	4100-1279, 4190-7013	
Glass/Plastic Door and Dress Panel (Platinum - 3 Bay)	Tyco	4100-2128	
Motherboard Mounted Cards	Tyco	4100-6061, 4100-6078	
Misc. Comp	Tyco	4100-2300	
Power Supplies & Distribution	Tyco	4100-0634, 4100-0650, 4100-5111, 4100-5128	
			UUT5 was wall mounted - rigid using four (4) 1/4"-20 Grade 5 machine bolts with nuts utilizing the existing holes in the back of the back-box.
			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

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Manufacturer:	Tyco, Inc.	UUT 6
Model Line:	Simplex and Autocall Fire Alarm Systems	
Model Number:	TrueAlert (4009) - Addressable Control	
Serial Number:	H98707	
		Test Report: 45286-1, Rev. 2

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
33	4.1	16.3	13.5	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 2022	ICC-ES AC156	2.5	1.0	1.5	4.00	3.00	1.67	0.67	
		2.5	0.0						

Product Construction Summary:			Test Mounting Details:
Unit comprised of cold rolled carbon steel 0.048" thick powder coated box and door, with internal electronics and user interface. Enclosure is NEMA 1 rated.			
Options/Subcomponent Summary:			
Description	Mfr.	Part Number	
Battery	FirstPower Technology Company	2081-9288 [FP12120]	
Battery Brackets	Tyco-Simplex	2081-9401	
Cabinet (Beige)	Tyco	4009-9401	
Card/Bracket Mounted Cards	Tyco	4009-9812	
Control Units	Tyco	4009-9401	

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UNIT UNDER TEST (UUT) SUMMARY SHEET

2001161-CR-001-R6



Manufacturer:	<i>Tyco, Inc.</i>	UUT 9
Model Line:	<i>Simplex and Autocall Fire Alarm Systems</i>	
Model Number:	<i>Life Alarm (4005) - Fire Alarm Panel</i>	
Serial Number:	<i>N/A</i>	
		Test Report: <i>TR028495-SEI, Rev.1</i>

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
61	4.3	23.4	24.0	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 2022	ICC-ES AC156	2.5	1.0	1.5	4.00	3.00	1.67	0.67	
		2.5	0.0						

Product Construction Summary: Test Mounting Details:

Unit comprised of cold rolled carbon steel 0.048" thick powder coated box and door, with internal electronics and user interface. Enclosure is NEMA 1 rated.

Options/Subcomponent Summary:

Description	Mfr.	Part Number
Battery	FirstPower Technology Company	2081-9275 [FP12180]
Battery Bracket	Tyco	2081-9402
Cabinet (Beige)	Tyco	2975-9209
Card/Bracket Mounted Cards	Tyco	4005-9809, 4005-9810, 4005-9807
Control Units	Tyco	4005-9101
Door (Beige)	Tyco	4005-9857
Pluggable Cards	Tyco	4005-9803, 4005-9804, 4005-9805, 4005-9808, 4005-9824



UUT9 was wall mounted - rigid with four (4) 1/4" Grade 5 bolts with lock washers and nuts with torque of 10 ft/lbs.
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

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Manufacturer:	Tyco, Inc.	UUT 10
Model Line:	Simplex and Autocall Fire Alarm Systems	
Model Number:	Fire Alarm Controls (4010ES) - 2 Bay Panel	
Serial Number:	N/A	
		Test Report: TR028495-SEI, Rev.1

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
130	12.0	24.0	40.0	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 2022	ICC-ES AC156	2.5	1.0	1.5	4.00	3.00	1.67	0.67	
		2.5	0.0						

Product Construction Summary: Test Mounting Details:

Unit comprised of cold rolled carbon steel 0.048" thick powder coated box and door, with internal electronics and user interface. Enclosure is NEMA 1 rated.

Options/Subcomponent Summary:

Description	Mfr.	Part Number
Battery	CASIL	2081-9276 [CA12330]
Battery Bracket	Tyco-Simplex	2081-9297
Box Only (Red - 2 Bay)	Tyco	2975-9408
BOX w/ Glass & Plastic Door and Dress Panel (Red - 2 Bay)	Tyco	2975-9442
Card/Bracket Mounted Cards	Tyco	4010-9818, 4010-9909, 4010-9915
Glass/Plastic Door and Dress Panel (Red - 2 Bay)	Tyco	4100-2104
Main System Supply & CPU	Tyco	4010-9425BA
Motherboard Mounted Cards	Tyco	4010-9928
PDI Mounted Card	Tyco	4010-9907, 4010-9918, 4010-9922



UUT10 was wall mounted - rigid with four (4) 3/8" Grade 5 bolts with lock washers and nuts with torque of 16.6 ft/lbs. 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.

844-TRU-0200 | info@trucompliance.com

UNIT UNDER TEST (UUT) SUMMARY SHEET

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Manufacturer:	Tyco, Inc.	UUT 11
Model Line:	Simplex and Autocall Fire Alarm Systems	
Model Number:	Fire Alarm Controls (4010ES) - 1 Bay Panel	
Serial Number:	N/A	
		Test Report: TR028495-SEI, Rev.1

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
101	12.0	24.0	22.0	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 2022	ICC-ES AC156	2.5	1.0	1.5	4.00	3.00	1.67	0.67	
		2.5	0.0						

Product Construction Summary:	Test Mounting Details:
Unit comprised of cold rolled carbon steel 0.048" thick powder coated box and door, with internal electronics and user interface. Enclosure is NEMA 1 rated.	

Options/Subcomponent Summary:			
Description	Mfr.	Part Number	
Battery	CASIL	2081-9276 [CA12330]	
Battery Brackets	Tyco - Simplex	2081-9297	
Box Only (Red - 1 Bay)	Tyco	2975-9407	
Box w/ Glass & Plastic Door and Dress Panel (Red - 1 Bay)	Tyco	2975-9441	
Card/Bracket Mounted Cards	Tyco	4010-9818, 4010-9911, 4010-9912	
Glass/Plastic Door & Dress Panel (Red - 1 Bay)	Tyco	4100-2103	
Main System Supply & CPU	Tyco	4010-9403	
PDI Mounted Card	Tyco	4010-9922	
			UUT11 was wall mounted - rigid with two (2) 3/8" Grade 5 bolts with lock washers and nuts with torque of 16.6 ft/lbs. on top and two (2) 1/4" Grade 5 bolts with lock washers and nuts with torque of 10 ft/lbs. on bottom.
			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 12

CAUTION
DO NOT OPEN
THIS UNIT
UNLESS YOU
ARE A
QUALIFIED
TECHNICIAN

ATTENTION
DO NOT
REMOVE
THIS LABEL

TrueAlert™ Addressable Controller **Simplex**

UNIT UNDER TEST (UUT) SUMMARY SHEET

2001161-CR-001-R6



Manufacturer:	Tyco, Inc.	UUT 13
Model Line:	Simplex and Autocall Fire Alarm Systems	
Model Number:	Fire Alarm Controls & Incident Commander (4100U/ES & 4190) – 2 Bay Panel	
Serial Number:	N/A	
Test Report:		TR032183, Rev. 0

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
141	12.0	24.0	40.0	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 2022	ICC-ES AC156	2.5	1.0	1.5	4.00	3.00	1.67	0.67	
		2.5	0.0						

Product Construction Summary:	Test Mounting Details:
Unit comprised of cold rolled carbon steel 0.048" thick powder coated box and door, with internal electronics and user interface. Enclosure is NEMA 1 rated.	

Options/Subcomponent Summary:			UUT 13
Description	Mfr.	Part Number	
Battery	CASIL	2081-9276 [CA12330]	
Battery Brackets	Tyco-Simplex	2081-9297	
Box Only (Red - 2 Bay)	Tyco	2975-9408	
Box w/ Glass & Plastic Door and Dress Panel (Red - 2 Bay)	Tyco	2975-9442	
Card/Bracket Mounted Cards	Tyco	4100-0156, 4100-1242, 4100-6030, 4100-6056	
Door Mounted Cards & Modules	Tyco	4100-1279	
Glass/Plastic Door and Dress Panel (Red - 2 Bay)	Tyco	4100-2104	
Main System Supply & CPU	Tyco	4100-9311	
Misc. Components	Tyco	4100-2303, 4100-6034	
Motherboard Mounted Cards	Tyco	4100-1290, 4100-3102, 4100-3103, 4100-6078	
PDI Mounted Cards	Tyco	4100-1311, 4100-6047	
Power Supplies & Distribution	Tyco	4100-0634	

UUT13 was wall mounted - rigid with four (4) 3/8" Grade 5 bolts with lock washers and nuts with torque of 16.6 ft/lbs. 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

2001161-CR-001-R6



Manufacturer:	Tyco, Inc.	UUT 14
Model Line:	Simplex and Autocall Fire Alarm Systems	
Model Number:	Fire Alarm Controls & Incident Commander (4100U/ES & 4190) – 3 Bay Panel	
Serial Number:	N/A	
Test Report:		TR028495-SEI, Rev.1

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
227	12.0	24.0	56.0	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 2022	ICC-ES AC156	2.5	1.0	1.5	4.00	3.00	1.67	0.67	
		2.5	0.0						

Product Construction Summary: Test Mounting Details:

Unit comprised of cold rolled carbon steel 0.048" thick powder coated box and door, with internal electronics and user interface. Enclosure is NEMA 1 rated.

Options/Subcomponent Summary:

Description	Mfr.	Part Number
Amplifiers	Tyco	4100-1327
Battery	CASIL	2081-9296 [CA1250]
Battery Brackets	Tyco-Simplex	2081-9298
Box Only (Platinum - 3 Bay)	Tyco	2975-9440
Card/Bracket Mounted Cards	Tyco	4100-1260
Misc. Components	Tyco	4100-2300, 4100-2303
Motherboard Mounted Cards	Tyco	4100-3202
PDI Mounted Cards	Tyco	4100-0622, 4100-0623, 4100-0625, 4100-3101, 4100-6072, 4100-6073, 4100-6074, 4100-6075
Power Supplies & Distribution	Tyco	4100-0634, 4100-0650, 4100-5101
Solid Plastic Door (Red - 3 Bay)	Tyco	4100-2111



UUT14 was wall mounted - rigid with four (4) 3/8" Grade 5 bolts with lock washers and nuts with torque of 16.6 ft/lbs. 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

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Manufacturer:	<i>Tyco, Inc.</i>	UUT 15
Model Line:	<i>Simplex and Autocall Fire Alarm Systems</i>	
Model Number:	<i>Fire Alarm Controls & Incident Commander (4100U/ES & 4190) – 3 Bay Panel</i>	
Serial Number:	<i>N/A</i>	
Test Report:		<i>TR028495-SEI, Rev.1</i>

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
205	11.8	24.0	56.0	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 2022	ICC-ES AC156	2.5	1.0	1.5	4.00	3.00	1.67	0.67	
		2.5	0.0						

Product Construction Summary:			Test Mounting Details:		
Unit comprised of cold rolled carbon steel 0.048" thick powder coated box and door, with internal electronics and user interface. Enclosure is NEMA 1 rated.					
Options/Subcomponent Summary:					
Description	Mfr.	Part Number			
Battery	CASIL	2081-9296 [CA1250]			
Battery Brackets	Tyco-Simplex	2081-9298			
Box Only (Red - 3 Bay)	Tyco	2975-9409			
Card/Bracket Mounted Cards	Tyco	4100-0640, 4100-6031, 4100-6056, 4100-6069, 4190-6104			
Door Mounted Cards & Comm Device	Tyco	4100-1243, 4100-1270, 4100-1273			
Door Mounted Cards & Modules	Tyco	4100-1252, 4100-1279, 4100-1282, 4100-1286, 4100-1288, 4100-1300			
Glass/Plastic Door and Dress Panel (Platinum - 3 Bay)	Tyco	4100-2128			
Main System Supply & CPU	Tyco	4100-9314			
Misc. Comp	Tyco	4100-2300, 4100-2303			
Motherboard Mounted Cards	Tyco	4100-5015, 4100-6078			
Power Supplies & Distribution	Tyco	4100-0634, 4100-0650, 4100-5311	PDI Mounted Cards	Tyco	4100-1210, 4100-1240, 4100-1272, 4100-1274, 4100-3106, 4100-3107, 4100-3108, 4100-6046

UNIT UNDER TEST (UUT) SUMMARY SHEET

2001161-CR-001-R6



Manufacturer:	Tyco, Inc.	UUT 16
Model Line:	Simplex and Autocall Fire Alarm Systems	
Model Number:	Fire Alarm Controls & Incident Commander (4100U/ES & 4190) – 3 Bay Panel	
Serial Number:	N/A	
Test Report:		TR032183, Rev. 0

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
218	8.5	24.0	56.0	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 2022	ICC-ES AC156	2.5	1.0	1.5	4.00	3.00	1.67	0.67	
		2.5	0.0						

Product Construction Summary: Test Mounting Details:

Unit comprised of cold rolled carbon steel 0.048" thick powder coated box and door, with internal electronics and user interface. Enclosure is NEMA 1 rated.

UUT 16

Options/Subcomponent Summary:

Description	Mfr.	Part Number
Amplifiers	Tyco	4100-1312, 4100-1315
Battery	CASIL	2081-9296 [CA1250]
Battery Brackets	Tyco-Simplex	2081-9298
Box Only (Platinum - 3 Bay)	Tyco	2975-9440
Card/Bracket Mounted Cards	Tyco	4100-1245, 4100-1259, 4100-3111, 4100-5115, 4100-5116, 4100-6056
Misc. Components	Tyco	4100-2300, 4100-2303
Motherboard Mounted Cards	Tyco	4100-1291, 4100-6101
PDI Mounted Cards	Tyco	4100-0620, 4100-0621, 4100-3109, 4100-3110, 4100-3206, 4100-6055, 4100-6079
Power Supplies & Distribution	Tyco	4100-0634, 4100-0650, 4100-5101
Solid Plastic Door (Red - 3 Bay)	Tyco	4100-2133



UUT16 was wall mounted - rigid with four (4) 3/8" Grade 5 bolts with lock washers and nuts with torque of 16.6 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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UUT 18

CAUTION
 SHOCK HAZARD
 OPENING THE COVER
 MAY EXPOSE YOU TO
 LIVE ELECTRICAL PARTS.
 DISCONNECT THE
 POWER BEFORE
 OPENING THE COVER.

ATTENTION
 Avertissement de
 choc électrique
 L'ouverture du couvercle
 peut vous exposer à
 des parties électriques
 sous tension.
 Déconnecter le
 courant avant
 d'ouvrir le couvercle.

4009 IDNet™ NAC EXTENDER **Simplex**

UNIT UNDER TEST (UUT) SUMMARY SHEET

2001161-CR-001-R6



Manufacturer:	Tyco, Inc.	UUT 19
Model Line:	Simplex and Autocall Fire Alarm Systems	
Model Number:	Fire Alarm Controls & Incident Commander (4100U/ES & 4190) - 3 Bay Panel	
Serial Number:	N/A	
		Test Report: TR028495-SEI, Rev.1

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
238	8.5	24.0	56.0	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 2022	ICC-ES AC156	2.5	1.0	1.5	4.00	3.00	1.67	0.67	
		2.5	0.0						

Product Construction Summary: Test Mounting Details:

Unit comprised of cold rolled carbon steel 0.048" thick powder coated box and door, with internal electronics and user interface. Enclosure is NEMA 1 rated.

Options/Subcomponent Summary:

Description	Mfr.	Part Number
Amplifier	Tyco	4100-1328, 4100-1334
Battery	CASIL	2081-9296 [CA1250]
Battery Brackets	Tyco-Simplex	2081-9298
Box Only (Beige - 3 Bay)	Tyco	2975-9412
Box with Glass/Metal Door & Dress Panel (Beige - 3 Bay)	Tyco	2975-9426
Card/Bracket Mounted Cards	Tyco	4100-1241, 4100-1248, 4100-6056, 4100-6057
Door Mounted Cards & Comm Device	Tyco	4100-1243, 4100-1270
Door Mounted Cards & Modules	Tyco	4100-1255, 4100-1279, 4100-1288
Glass/Metal Door & Dress Panel (Beige - 3 Bay)	Tyco	4100-2123
Main System Supply & CPU	Tyco	4100-9111
Misc. Comp	Tyco	4100-2300, 4100-2303, 4100-2320
Motherboard Mounted Cards	Tyco	4100-6014, 4100-6101



UUT19 was wall mounted - rigid with four (4) 3/8" Grade 5 bolts with lock washers and nuts with torque of 16.6 ft/lbs. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

PDI Mounted Cards	Tyco	4100-1311, 4100-6055
PDI Mounted Cards w/ Microphone	Tyco	4100-9621
Power Supplies & Distribution	Tyco	4100-0650

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UNIT UNDER TEST (UUT) SUMMARY SHEET

2001161-CR-001-R6



Manufacturer:	<i>Tyco, Inc.</i>	UUT 22
Model Line:	<i>Simplex and Autocall Fire Alarm Systems</i>	
Model Number:	<i>Fire Alarm Control Unit (FACU) - Addressable Control, 250 points</i>	
Serial Number:	<i>N/A</i>	
		Test Report: <i>TR-PR174411-2 (EUT1)</i>

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
46	4.9	15.8	19.3	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 2022	ICC-ES AC156	2.5	1.0	1.5	4.00	3.00	1.67	0.67	
		2.5	0.0						

Product Construction Summary:	Test Mounting Details:
Unit comprised of cold rolled carbon steel 0.048" thick powder coated box and door, with internal electronics. Enclosure is NEMA 1 rated.	

Options/Subcomponent Summary:			
Description	Mfr.	Part Number	
Battery	FirstPower Technology Company	2081-9275 [FP12150]	
Battery Bracket	Tyco - Simplex	0650-2512	
Fire Alarm Control Unit	Tyco	2250-9101	
UUT22 was wall mounted - rigid using four (4) 1/4"-20 Grade 5 bolts and washers with a torque of 10 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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UUT23 was wall mounted - rigid using four (4) 1/4" Grade 5 bolts and washers.
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

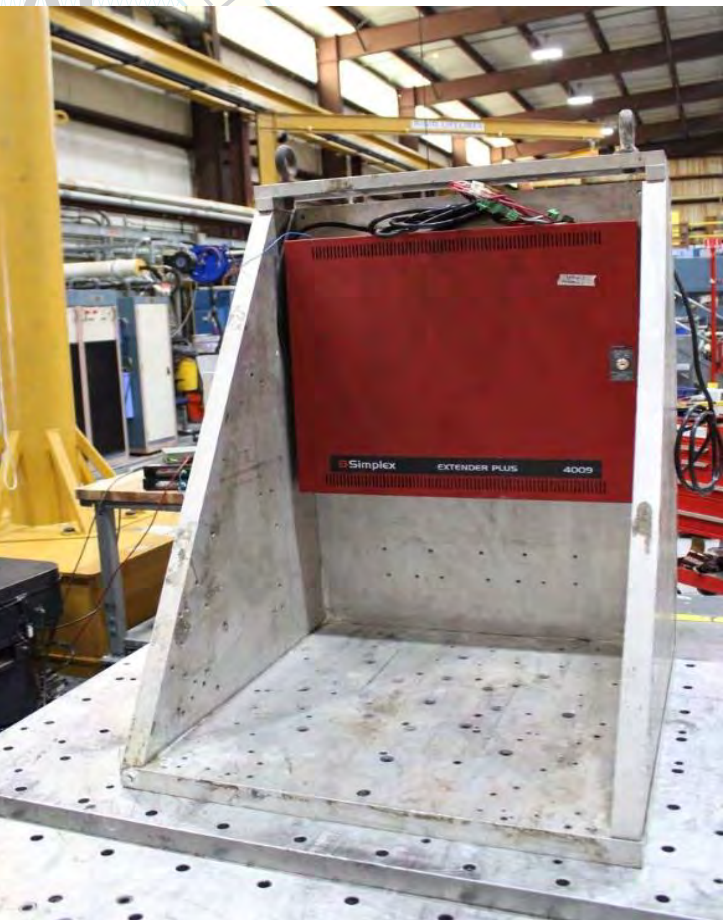
2001161-CR-001-R6



Manufacturer:	Tyco, Inc.	UUT 24
Model Line:	Simplex and Autocall Fire Alarm Systems	
Model Number:	Extender Plus (4009)	
Serial Number/Part Number:	4009-9701/0579-1456	Test Report: TR-PR184775-3, Rev. 2 (EUT1)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
49	4.5	22.5	20.5	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 2022	ICC-ES AC156	2.5	1.0	1.5	4.00	3.00	1.67	0.67	
		2.5	0.0						

Product Construction Summary:			Test Mounting Details:
Unit comprised of cold rolled carbon steel 0.048" thick powder coated box and door, with internal electronics. Enclosure is NEMA 1 rated.			
Options/Subcomponent Summary:			
Description	Mfr.	Part Number	
Cabinet (Red)	Tyco	4009-9701	
Control Unit	Tyco	4009-9701	
MX Card	Tyco	4100-6311	
MX Option Loop Card	Tyco	4100-6312	
4-Point 2 A Relay Card	Tyco	4100-3207	
4-Point 10 A Relay Card	Tyco	4100-3208	

UUT24 was wall mounted - rigid using four (4) 1/4" Grade 5 bolts and washers.

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

2001161-CR-001-R6



Manufacturer:	<i>Tyco, Inc.</i>	UUT 25
Model Line:	<i>Simplex and Autocall Fire Alarm Systems</i>	
Model Number:	<i>Extender Plus w/ IDNAC Card (4009)</i>	
Serial Number/Part Number:	<i>A009-9703/0579-1456</i>	Test Report: <i>TR-PR184775-3, Rev. 2 (EUT1)</i>

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
49	4.5	22.5	20.5	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 2022	ICC-ES AC156	2.5	1.0	1.5	4.00	3.00	1.67	0.67	
		2.5	0.0						

Product Construction Summary:			Test Mounting Details:
Unit comprised of cold rolled carbon steel 0.048" thick powder coated box and door, with internal electronics. Enclosure is NEMA 1 rated.			
Options/Subcomponent Summary:			
Description	Mfr.	Part Number	
Cabinet (Red)	Tyco	4009-9703	
Control Unit	Tyco	4009-9703	
IDNAC Card	Tyco	4100-5451	
NAC Card	Tyco	4100-5450	
IDNET2 Card	Tyco	4100-3109	

UUT25 was wall mounted - rigid using four (4) 1/4" Grade 5 bolts and washers.

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