



**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
FACILITIES DEVELOPMENT DIVISION**

**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: Electrical Control Panels on Life Safety/Critical Branch

Product Type: Fire Alarm & Security Panels

Product Model Number: Various (See Attachment)

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: Rigid, Wall Mounted

Tested Seismic Enhancements: None

**Applicant Information**

Applicant Company Name: TRU Compliance, by Structural Integrity Associates

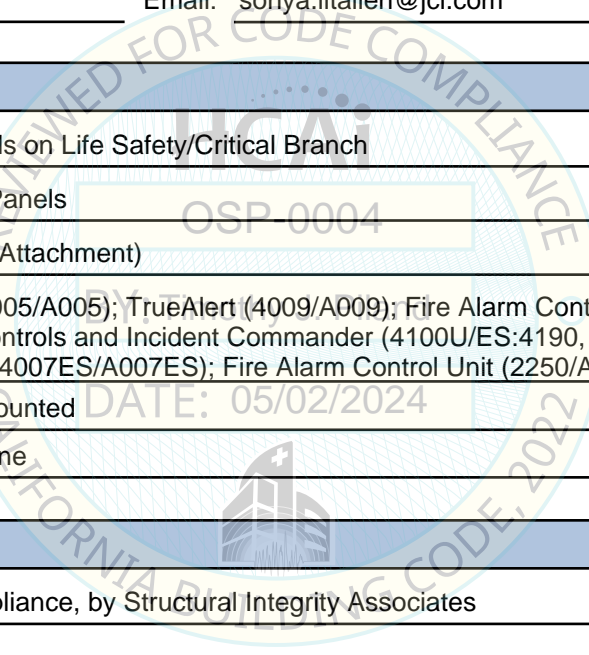
Contact Person: Daniel Zentner

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

Telephone: (541) 292-5839

Email: dzentner@structint.com

Title: Program Manager





**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
FACILITIES DEVELOPMENT DIVISION**

**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 MATERIALS TECHNOLOGY

Contact Person: David M. Gillen

Mailing Address: 9725 Girard Ave South, Minneapolis MN 55431

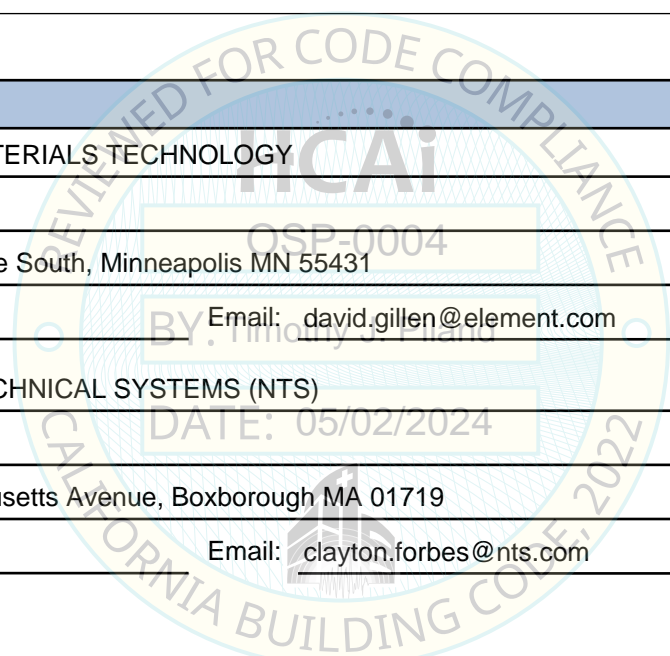
Telephone: (952) 888-7795 Email: david.gillen@element.com

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





**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
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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

$\Omega_0$  (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

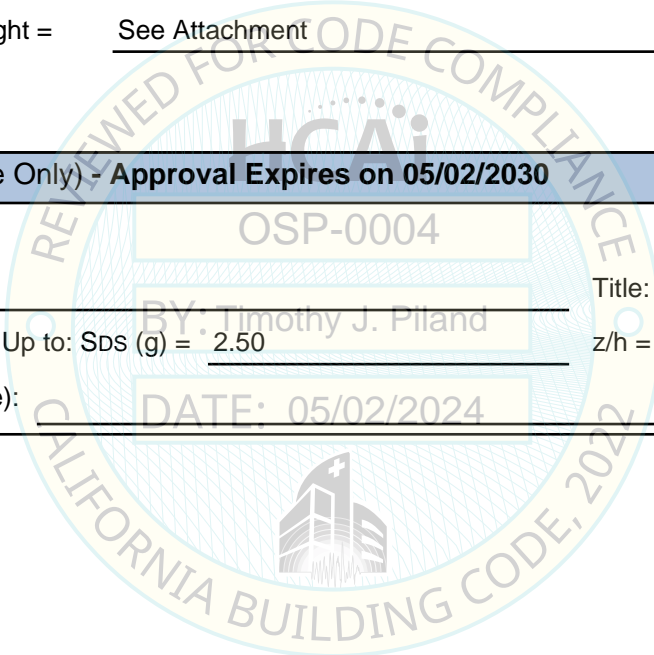
**HCAI Approval (For Office Use Only) - Approval Expires on 05/02/2030**

Date: 5/2/2024

Name: Timothy Piland Title: Senior Structural Engineer

Special Seismic Certification Valid Up to: SDS (g) = 2.50 z/h = 1

Condition of Approval (if applicable): DATE: 05/02/2024



# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

TRU PROJECT NO. 2001161



<b>Manufacturer:</b> Tyco, Inc.						<b>TABLE 1</b>	
<b>Model Line:</b> Simplex and Autocall Fire Alarm Systems							
<b>Certified Product Construction Summary:</b> 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.							
<b>Certified Options Summary:</b> Color: Beige, red and platinum. Doors: Glass, glass plastic and metal.							
<b>Mounting Configuration:</b> Wall mounted - rigid Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.							
<b>Building Code: CBC 2022</b>		<b>Seismic Certification Limits:</b>			$S_{DS} = 2.5 g$ $z/h = 1.0$	$I_P = 1.5$	
					$S_{DS} = 2.5 g$ $z/h = 0.0$		
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

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 2001161



<b>Manufacturer:</b>	Tyco, Inc.	<b>Table Description:</b> 4005/A005 Subcomponents	
<b>Model Line:</b>	Simplex and Autocall Fire Alarm Systems		<b>TABLE 2</b>

**Building Code:** CBC 2022      **Seismic Certification Limits:**  $S_{DS} = 2.5 g$   $z/h = 1.0$   $I_P = 1.5$   
 $S_{DS} = 2.5 g$   $z/h = 0.0$

Component Type	Manufacturer	Model <sup>1</sup>	Description	Notes	UUT
Pluggable Cards	Tyco, Inc.	4005-9803/A005-9803	2 Circuit IDC w/ 2 NAC/Relay Module		9
		4005-9804/A005-9804	4 Circuit IDC Module		9
		4005-9805/A005-9805	4 Circuit NAC/Relay Module		9
		4005-9808/A005-9808	8 Circuit Programmable I/O Module		9
		4005-9824/A005-9824	4 Circuit IDC Module, Class B		9
Card/Bracket Mounted Cards	Tyco, Inc.	4005-9806/A005-9806	Four Class A Adapter Module		2
		4005-9807/A005-9807	Power Distribution Module		2, 9
		4005-9809/A005-9809	Single City Circuit Module		9
		4005-9810/A005-9810	Dual Line DACT		2
		4005-9813/A005-9813	Expansion Power Supply		2
Control Units	Tyco, Inc.	4005-9101/A005-9101	Fire Alarm Control Panel with Cabinet - Beige		2, 9
		4005-9102/A005-9102	Fire Alarm Control Panel with Cabinet, Red	Same as 4005-9101 (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

TRU PROJECT NO. 2001161



<b>Manufacturer:</b> Tyco, Inc.	<b>Table Description:</b> 4009/A009 Subcomponents	<b>TABLE 3</b>
<b>Model Line:</b> Simplex and Autocall Fire Alarm Systems		

**Building Code:** CBC 2022      **Seismic Certification Limits:**  $S_{DS} = 2.5g$   $z/h = 1.0$   $I_P = 1.5$   
 $S_{DS} = 2.5g$   $z/h = 0.0$

Component Type	Manufacturer	Model <sup>1</sup>	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
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

**Notes:**  
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# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 2001161



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

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b> $S_{DS} = 2.5g$ $z/h = 1.0$ $S_{DS} = 2.5g$ $z/h = 0.0$	$I_p = 1.5$
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Component Type	Manufacturer	Model <sup>1</sup>	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

TRU PROJECT NO. 2001161



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

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.5 g \quad z/h = 1.0$		$I_P = 1.5$
		$S_{DS} = 2.5 g \quad z/h = 0.0$		

Component Type	Manufacturer	Model <sup>1</sup>	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	<i>Same as 4010-9401 (color)</i>	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	<i>Same as 4010-9403 (color)</i>	Same
		4010-9421BA/A010-9421BA	English 2x40 Display, 120V , Two IDNet Chl (2-Bay Panel w/2x40 LCD), Red	<i>Similar to 4010-9425BA</i>	Interp.
		4010-9422/A010-9422	English 2x40 Display, 120V , Two IDNet Chl (2-Bay Panel w/2x40 LCD), Platinum	<i>Similar to 4010-9425BA</i>	Interp.
		4010-9423/A010-9423	English 2x40 Display, 120V , Two IDNet Chl (2-Bay Panel w/48 LEDs), Red	<i>Similar to 4010-9422 w/o add'l 48 LED</i>	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	<i>Similar to 4010-9425</i>	Interp.
		4010-9426BA/A010-9426BA	English 2x40 Display, 120V , Single IDNet Chl (2-Bay Panel w/InfoAlarm LCD), Platinum	<i>Same as 4010-9425BA (color)</i>	Same

**Notes:**  
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# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 2001161



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

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.5 g$ $z/h = 1.0$	$I_P = 1.5$
		$S_{DS} = 2.5 g$ $z/h = 0.0$	

Component Type	Manufacturer	Model <sup>1</sup>	Description	Notes	UUT
Main System Supply and CPU	Tyco, Inc.	4010-9428/A010-9428	English 2x40 Display, 120V , Two IDNet Chl (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 Chl (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 Chl (2-Bay Panel), Platinum	Same as 4010-9623 (color)	Same

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# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 2001161



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

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.5 g \quad z/h = 1.0$	$I_P = 1.5$
		$S_{DS} = 2.5 g \quad z/h = 0.0$	

Component Type	Manufacturer	Model <sup>1</sup>	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.		

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# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 2001161



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

**Building Code:** CBC 2022      **Seismic Certification Limits:**  $S_{DS} = 2.5 g$   $z/h = 1.0$        $I_p = 1.5$   
 $S_{DS} = 2.5 g$   $z/h = 0.0$

Component Type	Manufacturer	Model <sup>1</sup>	Description	Notes	UUT
Card/Bracket Mounted Cards	Tyco, Inc.	4010-9911/A010-9911	Alarm Relay Card		11
		4010-9912/A010-9912	Serial DACT Module		11
		4010-9915/A010-9915	BACpac Ethernet Portal Module		10
		4010-9931/A010-9931	IP Communicator Module	Similar to 4010-9912	Interp.
		4010-9934/A010-9934	Vertical bracket for the Network Interface Card	Similar to 4100-6107	Interp.

**Notes:**  
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# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 2001161



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

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.5 g$ $z/h = 1.0$	$I_P = 1.5$
		$S_{DS} = 2.5 g$ $z/h = 0.0$	

Component Type	Manufacturer	Model <sup>1</sup>	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

TRU PROJECT NO. 2001161



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

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.5 g$ $z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 2.5 g$ $z/h = 0.0$	

Component Type	Manufacturer	Model <sup>1</sup>	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	<i>Similar to 4100-3204</i>	Interp.
		4100-3209/A100-3209	8 Point I/O 3Amp Auxiliary Relay Card	<i>Similar to 4100-3206</i>	Interp.
		4100-5450/A100-5450	NAC Card for ES-PS	<i>Similar to 4100-3109</i>	Interp.
		4100-5451/A100-5451	IDNAC Card for ES-PS	<i>Similar to 4100-3109</i>	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	<i>Similar to 4100-6072</i>	Interp.
		4100-6121/A100-6121	Fiber Modem Module - Single Mode R	<i>Similar to 4100-6073</i>	Interp.
		4100-6122/A100-6122	Fiber Modem Module - Multi-Mode L	<i>Similar to 4100-6074</i>	Interp.
		4100-6123/A100-6123	Fiber Modem Module - Multi-Mode R	<i>Similar to 4100-6075</i>	Interp.
		4100-9600/A100-9600	Miniplex Package - Basic	<i>Similar to 4100-3101/3206</i>	Interp.
4100-9601/A100-9601	Miniplex Package - Local Mode	<i>Similar to 4100-3101/3206</i>	Interp.		

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# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 2001161



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

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.5 g$ $z/h = 1.0$	$I_P = 1.5$
		$S_{DS} = 2.5 g$ $z/h = 0.0$	

Component Type	Manufacturer	Model <sup>1</sup>	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.		

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# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 2001161



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

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.5g$ $z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 2.5g$ $z/h = 0.0$	

Component Type	Manufacturer	Model <sup>1</sup>	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.		

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# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 2001161



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

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.5 g$ $z/h = 1.0$	$I_P = 1.5$
		$S_{DS} = 2.5 g$ $z/h = 0.0$	

Component Type	Manufacturer	Model <sup>1</sup>	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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TRU PROJECT NO. 2001161



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

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.5 g$ $z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 2.5 g$ $z/h = 0.0$	

Component Type	Manufacturer	Model <sup>1</sup>	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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TRU PROJECT NO. 2001161



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

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.5 g$ $z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 2.5 g$ $z/h = 0.0$	

Component Type	Manufacturer	Model <sup>1</sup>	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

TRU PROJECT NO. 2001161



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

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.5 g$ $z/h = 1.0$	$I_P = 1.5$
		$S_{DS} = 2.5 g$ $z/h = 0.0$	

Component Type	Manufacturer	Model <sup>1</sup>	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

TRU PROJECT NO. 2001161



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

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.5g$ $z/h = 1.0$	$I_P = 1.5$
		$S_{DS} = 2.5g$ $z/h = 0.0$	

Component Type	Manufacturer	Model <sup>1</sup>	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

TRU PROJECT NO. 2001161



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

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.5 g$ $z/h = 1.0$	$I_P = 1.5$
		$S_{DS} = 2.5 g$ $z/h = 0.0$	

Component Type	Manufacturer	Model <sup>1</sup>	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.

**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

TRU PROJECT NO. 2001161



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

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.5 g$ $z/h = 1.0$	$I_P = 1.5$
		$S_{DS} = 2.5 g$ $z/h = 0.0$	

Component Type	Manufacturer	Model <sup>1</sup>	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.		

**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

TRU PROJECT NO. 2001161



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

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.5g$ $z/h = 1.0$	$I_P = 1.5$
		$S_{DS} = 2.5g$ $z/h = 0.0$	

Component Type	Manufacturer	Model <sup>1</sup>	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).

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 2001161



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

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.5 g \quad z/h = 1.0$	$I_P = 1.5$
		$S_{DS} = 2.5 g \quad z/h = 0.0$	

Component Type	Manufacturer	Model <sup>1</sup>	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).



# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 2001161



<b>Manufacturer:</b> Tyco, Inc.	<b>Table Description:</b> 5009/A009 Subcomponents	<b>TABLE 6</b>
<b>Model Line:</b> Simplex and Autocall Fire Alarm Systems		

**Building Code:** CBC 2022      **Seismic Certification Limits:**  $S_{DS} = 2.5 g$   $z/h = 1.0$   $I_p = 1.5$   
 $S_{DS} = 2.5 g$   $z/h = 0.0$

Component Type	Manufacturer	Model <sup>1</sup>	Description	Notes	UUT
Main System Panel	Tyco, Inc. (Simplex)	5009-9721/A009-9721	115VAC, central equipment electronics		4, 17
		5009-9723/A009-9723	Mounting plate kit		4, 17
Card/Bracket Mounted Cards	Tyco, Inc. (Simplex)	5009-9719/A009-9719	Switch, 8 Port 10 Base - T/100 Base-TX		4
		5009-9726/A009-9726	Switch, 4 Port/2 Multi-mode Fiber 13 dB		17
		5009-9727/A009-9727	Switch, 4 Port/2 Single-mode Fiber 19 dB	Similar to 5009-9726 (fewer fiber interfaces)	Extrap.
		130.8000/A130.8000	IP Gateway		4, 17
		130.8100/A130.8100	Star Wiring Hub		4, 17

**Notes:**  
**1.** The Simplex and Autocall differ only in branding. Simplex units are identified with a "5" in the product number prefix (5XXX) and Autocall units are identified with an "A" in the product number prefix (AXXX).

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 2001161



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

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.5 g$ $z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 2.5 g$ $z/h = 0.0$	

Component Type	Manufacturer	Model <sup>1</sup>	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.	
		CASIL	FP12250A	25 Ah, SLA	2081-9287	4, 17
	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).

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 2001161



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

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.5 g \quad z/h = 1.0$ $S_{DS} = 2.5 g \quad z/h = 0.0$	$I_P = 1.5$
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Component Type	Manufacturer	Model <sup>1</sup>	Description	Notes	UUT
Battery Brackets	Tyco, Inc. (Simplex)	2081-9297/A2081-9297	50 Ah		3, 10, 11, 13
		2081-9298/A2081-9298	33 Ah		5, 14, 15, 16, 19
		2081-9401/A2081-9401	12.7 Ah		1, 6, 7, 12, 18, 20
		2081-9402/A2081-9402	18 Ah		2, 9, 21
		2081-9403/A2081-9403	25 Ah		4, 17
		0650-2512	18 Ah		22

**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).

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 2001161



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:		$S_{DS} = 2.5g$ $z/h = 1.0$ $S_{DS} = 2.5g$ $z/h = 0.0$		$I_p = 1.5$	
Component Type	Manufacturer	Model <sup>1</sup>	Description	Notes	UUT		
<b>Life Alarm (4005/A005) - Fire Alarm Panel</b>							
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		
<b>Fire Alarm Panel (4010ES/4100ES/4190 or A010ES/A100ES/A190) - BOX ONLY / BOX WITH DOOR AND DRESS PANEL</b>							
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.		
Box w/ Solid Metal Door	Tyco, Inc.	2975-9440/A975-9440	Platinum - 3 Bay		5, 14, 16		
		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

TRU PROJECT NO. 2001161



<b>Manufacturer:</b> Tyco, Inc.	<b>Table Description:</b> Cabinets and Doors	<b>TABLE 8</b>
<b>Model Line:</b> Simplex and Autocall Fire Alarm Systems		

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.5\text{ g}$ $z/h = 1.0$ $S_{DS} = 2.5\text{ g}$ $z/h = 0.0$	$I_p = 1.5$
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Component Type	Manufacturer	Model <sup>1</sup>	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).

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 2001161



<b>Manufacturer:</b> Tyco, Inc. <b>Table Description:</b> Cabinets and Doors					<b>TABLE 8</b>	
<b>Model Line:</b> Simplex and Autocall Fire Alarm Systems						
<b>Building Code:</b> CBC 2022		<b>Seismic Certification Limits:</b> $S_{DS} = 2.5g$ $z/h = 1.0$ $S_{DS} = 2.5g$ $z/h = 0.0$			$I_p = 1.5$	
Component Type	Manufacturer	Model <sup>1</sup>	Description	Notes	UUT	
<b>Fire Alarm Panel (4010ES/4100ES/4190 or A010ES/A100ES/A190) - DOORS</b>						
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	
<b>Notes:</b> <b>1.</b> 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

TRU PROJECT NO. 2001161



<b>Manufacturer:</b> Tyco, Inc.	<b>Table Description:</b> Cabinets and Doors	<b>TABLE 8</b>
<b>Model Line:</b> Simplex and Autocall Fire Alarm Systems		

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b> $S_{DS} = 2.5g$ $z/h = 1.0$ $S_{DS} = 2.5g$ $z/h = 0.0$	$I_p = 1.5$
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Component Type	Manufacturer	Model <sup>1</sup>	Description	Notes	UUT
Glass & Plastic Door and Dress Panel	Tyco, Inc.	4100-2103/A100-2103	Red - 1 Bay		3, 11
		4100-2124/A100-2124	Platinum - 1 Bay		Interp.
		4100-2104/A100-2104	Red - 2 Bay		10, 13
		4100-2125/A100-2125	Red - 2 Bay I.C.		Interp.
		4100-2127/A100-2127	Platinum - 2 Bay		Interp.
		4100-2106/A100-2106	Platinum - 2 Bay I.C.		Interp.
		4100-2105/A100-2105	Red - 3 Bay		Interp.
		4100-2126/A100-2126	Red - 3 Bay I.C.		Interp.
		4100-2128/A100-2128	Platinum - 3 Bay		5, 15
		4100-2107/A100-2107	Platinum - 3 Bay I.C.		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

TRU PROJECT NO. 2001161



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:		$S_{DS} = 2.5g$ $z/h = 1.0$ $S_{DS} = 2.5g$ $z/h = 0.0$		$I_p = 1.5$	
Component Type	Manufacturer	Model <sup>1</sup>	Description	Notes	UUT		
<b>EZCare (5009/A009)</b>							
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		
<b>TrueAlert (4009/A009) - ADDRESSABLE NOTIFICATION POWER SUPPLY</b>							
Cabinet	Tyco, Inc.	2975-9229/A975-9229	Cabinet Assembly - Red		1		
		2975-9230/A975-9230	Cabinet Assembly - Beige		Interp.		
<b>TrueAlert (4009/A009) - ADDRESSABLE CONTROL</b>							
Cabinet	Tyco, Inc.	4009-9401/A009-9401	Cabinet - Beige		6, 12		
<b>TrueAlert (4009/A009) - IDNET NAC EXTENDER</b>							
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.		

**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

TRU PROJECT NO. 2001161



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

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.5 g$ $z/h = 1.0$	$I_P = 1.5$
		$S_{DS} = 2.5 g$ $z/h = 0.0$	

Component Type	Manufacturer	Model <sup>1</sup>	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

TRU PROJECT NO. 2001161



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

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.5 g \quad z/h = 1.0$	$I_P = 1.5$
		$S_{DS} = 2.5 g \quad z/h = 0.0$	

Component Type	Manufacturer	Model <sup>1</sup>	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).

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 2001161



<b>Manufacturer:</b> Tyco, Inc.		<b>Table Description:</b> 4007ES/A007ES Subcomponents			<b>TABLE 9</b>
<b>Model Line:</b> Simplex and Autocall Fire Alarm Systems					
<b>Building Code:</b> CBC 2022		<b>Seismic Certification Limits:</b>		$S_{DS} = 2.5 g \quad z/h = 1.0$	$I_P = 1.5$
				$S_{DS} = 2.5 g \quad z/h = 0.0$	
Component Type	Manufacturer	Model <sup>1</sup>	Description	Notes	UUT
Door Mounted Cards & Modules	Tyco, Inc.	4007-9805/A007-9805	LED 48 Module	UUT: 2 installed	20, 21
<b>Notes:</b>					
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

TRU PROJECT NO. 2001161



<b>Manufacturer:</b> Tyco, Inc.	<b>Table Description:</b> 2250/A250 Subcomponents	<b>TABLE 10</b>
<b>Model Line:</b> Simplex and Autocall Fire Alarm Systems		

**Building Code:** CBC 2022      **Seismic Certification Limits:**  $S_{DS} = 2.5g$   $z/h = 1.0$   $I_P = 1.5$   
 $S_{DS} = 2.5g$   $z/h = 0.0$

Component Type	Manufacturer	Model <sup>1</sup>	Description	Notes	UUT
Control Units	Tyco, Inc.	2250-9101/A250-9101	Addressable Control Panel (250 Points)		22

**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).

# UNIT UNDER TEST (UUT) SUMMARY SHEET



**TRU PROJECT NO. 2001161**

<b>Manufacturer:</b> Tyco, Inc.								
<b>Model Line:</b> Simplex and Autocall Fire Alarm Systems								
UUT	Unit Description	Report Number	Testing Lab	Year Tested	ISO 17025 Accredited?	S <sub>DS</sub>	z/h	I <sub>p</sub>
1	TrueAlert (4009) - Power Supply	45286-1, Rev.2 (UUT1)	Environ Laboratories	2011	Yes	2.5 2.5	1.0 0.0	1.5
2	Life Alarm (4005) - Fire Alarm Panel	45286-1, Rev.2 (UUT2)	Environ Laboratories	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)	Environ Laboratories	2011	Yes	2.5 2.5	1.0 0.0	1.5
4	EZCare (5009) - 2-Bay Panel	45286-1, Rev.2 (UUT4)	Environ Laboratories	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)	Environ Laboratories	2011	Yes	2.5 2.5	1.0 0.0	1.5
6	TrueAlert (4009) - Addressable Control	45286-1, Rev.2 (UUT6)	Environ Laboratories	2011	Yes	2.5 2.5	1.0 0.0	1.5
7	TrueAlert (4009) - IDNET NAC Extender	45286-1, Rev.2 (UUT7)	Environ Laboratories	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)	NTS - 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)	NTS - 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)	NTS - Acton	2014	Yes	2.5 2.5	1.0 0.0	1.5
<b>Notes:</b>								

# UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 2001161



<b>Manufacturer:</b> Tyco, Inc. <b>Model Line:</b> Simplex and Autocall Fire Alarm Systems								
UUT	Unit Description	Report Number	Testing Lab	Year Tested	ISO 17025 Accredited?	S <sub>DS</sub>	z/h	I <sub>p</sub>
12	TrueAlert (4009) - Addressable Control	TR028495-SEI, Rev.1 (UUT12)	NTS - 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)	NTS - 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)	NTS - 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)	NTS - 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)	NTS - Boxborough	2014	Yes	2.5 2.5	1.0 0.0	1.5
17	EZCare (5009) - 2 Bay Panel	TR028495-SEI, Rev.1 (UUT17)	NTS - Acton	2014	Yes	2.5 2.5	1.0 0.0	1.5
18	TrueAlert (4009) - IDNET NAC Extender	TR028495-SEI, Rev.1 (UUT18)	NTS - 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)	NTS - Acton	2014	Yes	2.5 2.5	1.0 0.0	1.5
20	Fire Alarm Control Panel (4007ES)	TR-PR035446-15 (UUT20)	NTS - Boxborough	2015	Yes	2.5 2.5	1.0 0.0	1.5
21	Fire Alarm Control Panel (4007ES)	TR-PR035446-15 (UUT21)	NTS - 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)	NTS - Boxborough	2023	Yes	2.5 2.5	1.0 0.0	1.5
<b>Notes:</b>								

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**

**TRU PROJECT NO. 2001161**



<b>Manufacturer:</b> Tyco, Inc.	<b>UUT 1</b>
<b>Model Line:</b> Simplex and Autocall Fire Alarm Systems	
<b>Model Number:</b> TrueAlert (4009) - Power Supply	
<b>Serial Number:</b> 11221	

**Test Report:** 45286-I, 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 <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156 (2010)	2.5	1.0	1.5	4.00	3.00	1.67	0.67
		2.5	0.0					

<b>Product Construction Summary:</b>	<b>Test Mounting Details:</b>
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



UUT1 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

TRU PROJECT NO. 2001161



<b>Manufacturer:</b> Tyco, Inc.	<b>UUT 2</b>
<b>Model Line:</b> Simplex and Autocall Fire Alarm Systems	
<b>Model Number:</b> Life Alarm (4005) - Fire Alarm Panel	
<b>Serial Number:</b> H99539	
<b>Test Report:</b> 45286-1, Rev. 2	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
60	4.4	23.4	24.0	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156 (2010)	2.5	1.0	1.5	4.00	3.00	1.67	0.67
		2.5	0.0					

<b>Product Construction Summary:</b> 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.	<b>Test Mounting Details:</b>
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Options/Subcomponent Summary:		
Description	Mfr.	Part Number
Battery	FirstPower Technology Company	2081-9275 [FP12180]
Battery Brackets	Tyco - Simplex	2081-9402
Brackets	Tyco	4005-9860
Cabinet	Tyco	2975-9209
Card/Bracket Mounted Cards	Tyco	4005-9810, 4005-9806, 4005-9807, 4005-9813
Control Units	Tyco	4005-9101
Door	Tyco	4005-9857



UUT2 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

TRU PROJECT NO. 2001161



<b>Manufacturer:</b> Tyco, Inc.	<b>UUT 3</b>
<b>Model Line:</b> Simplex and Autocall Fire Alarm Systems	
<b>Model Number:</b> Fire Alarm Controls (4010ES) - 1 Bay Panel	
<b>Serial Number:</b> 0014962411	
<b>Test Report:</b> 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 <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156 (2010)	2.5	1.0	1.5	4.00	3.00	1.67	0.67
		2.5	0.0					

<b>Product Construction Summary:</b> 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.	<b>Test Mounting Details:</b>
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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

TRU PROJECT NO. 2001161



<b>Manufacturer:</b> Tyco, Inc. <b>Model Line:</b> Simplex and Autocall Fire Alarm Systems <b>Model Number:</b> Ecare (5009) - 2 Bay Panel <b>Serial Number:</b> H870162						<b>UUT 4</b>		
<b>Test Report:</b> 45286-1, Rev. 2								
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 <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156 (2010)	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.				<p>UUT4 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.</p> <p>Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.</p>				
Options/Subcomponent Summary:								
Description	Mfr.	Part Number						
Battery	FirstPower Technology Company	2081-9287 [FP12250A]						
Battery Brackets Cabinet (Box w/ Solid Metal Door - Platinum-2 Bay)	Tyco	2081-9403						
Card/Bracket Mounted Cards	Tyco - Simplex	5009-9724, 5009-9719, 130.8000, 130.8100						
Main System Panel	Tyco - Simplex	5009-9721, 5009-9723						

# UNIT UNDER TEST (UUT) SUMMARY SHEET


TRU PROJECT NO. 2001161



<b>Manufacturer:</b>	Tyco, Inc.	<b>UUT 5</b>
<b>Model Line:</b>	Simplex and Autocall Fire Alarm Systems	
<b>Model Number:</b>	Fire Alarm Controls & Incident Commander (4100U/ES & 4190) - 3 Bay Panel	
<b>Serial Number:</b>	030237051 & 010422710	
		<b>Test Report:</b> 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 <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156 (2010)	2.5	1.0	1.5	4.00	3.00	1.67	0.67
		2.5	0.0					

<b>Product Construction Summary:</b>	<b>Test Mounting Details:</b>
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.

TRU Compliance, by Structural Integrity Associates, Inc.

844-TRU-0200 | info@trucompliance.com

# UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 2001161



<b>Manufacturer:</b> Tyco, Inc.	<b>UUT 6</b>
<b>Model Line:</b> Simplex and Autocall Fire Alarm Systems	
<b>Model Number:</b> TrueAlert (4009) - Addressable Control	
<b>Serial Number:</b> 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 <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156 (2010)	2.5	1.0	1.5	4.00	3.00	1.67	0.67
		2.5	0.0					

Product Construction Summary:	Test Mounting Details:
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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



UUT6 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

TRU PROJECT NO. 2001161



<b>Manufacturer:</b> Tyco, Inc.	<b>UUT 7</b>
<b>Model Line:</b> Simplex and Autocall Fire Alarm Systems	
<b>Model Number:</b> TrueAlert (4009) - IDNET NAC Extender	
<b>Serial Number:</b> H97580	
<b>Test Report:</b> 45286-I, Rev. 2	

### UUT Properties


Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
33	4.3	16.3	13.5	N/A	N/A	N/A

### UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156 (2010)	2.5	1.0	1.5	4.00	3.00	1.67	0.67
		2.5	0.0					

<b>Product Construction Summary:</b>	<b>Test Mounting Details:</b>
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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.



UUT7 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.

**Options/Subcomponent Summary:**

Description	Mfr.	Part Number
Battery	FirstPower Technology Company	2081-9288 [FP12120]
Battery Brackets	Tyco-Simplex	2081-9401
Cabinet (Beige)	Tyco	4009-9201
Card/Bracket Mounted Cards	Tyco	4009-9807, 4009-9808
Control Units	Tyco	4009-9201

# UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 2001161



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

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 <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156 (2010)	2.5	1.0	1.5	4.00	3.00	1.67	0.67
		2.5	0.0					

<b>Product Construction Summary:</b> 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.	<b>Test Mounting Details:</b>
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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

TRU PROJECT NO. 2001161



<b>Manufacturer:</b> Tyco, Inc.	<b>UUT 10</b>
<b>Model Line:</b> Simplex and Autocall Fire Alarm Systems	
<b>Model Number:</b> Fire Alarm Controls (4010ES) - 2 Bay Panel	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> 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 <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156 (2010)	2.5	1.0	1.5	4.00	3.00	1.67	0.67
		2.5	0.0					

**Product Construction Summary:**  
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.

**Test Mounting Details:**

**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.

# UNIT UNDER TEST (UUT) SUMMARY SHEET


TRU PROJECT NO. 2001161



<b>Manufacturer:</b> Tyco, Inc.	<h2>UUT 11</h2>
<b>Model Line:</b> Simplex and Autocall Fire Alarm Systems	
<b>Model Number:</b> Fire Alarm Controls (4010ES) - 1 Bay Panel	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> 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 <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156 (2010)	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.



# UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 2001161



<b>Manufacturer:</b> Tyco, Inc.	<b>UUT 12</b>
<b>Model Line:</b> Simplex and Autocall Fire Alarm Systems	
<b>Model Number:</b> TrueAlert (4009) – Addressable Control	
<b>Serial Number:</b> 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
38	4.25	16.25	13.50	N/A	N/A	N/A

### UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156 (2010)	2.5	1.0	1.5	4.00	3.00	1.67	0.67
		2.5	0.0					

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

**Test Mounting Details:**  
Unit 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.

### Options/Subcomponent Summary:

Description	Mfr.	Part Number
Battery	FirstPower Technology Company	2081-9288 [FP12150]
Battery Bracket	Tyco - Simplex	2081-9401
Cabinet (Beige)	Tyco	4009-9401
Card/Bracket Mounted Cards	Tyco	4009-9809
Control Unit	Tyco	4009-9401



UUT12 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

TRU PROJECT NO. 2001161



<b>Manufacturer:</b> Tyco, Inc.	<b>UUT 13</b>
<b>Model Line:</b> Simplex and Autocall Fire Alarm Systems	
<b>Model Number:</b> Fire Alarm Controls & Incident Commander (4100U/ES & 4190) – 2 Bay Panel	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> 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 <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156 (2010)	2.5	1.0	1.5	4.00	3.00	1.67	0.67
		2.5	0.0					

<b>Product Construction Summary:</b> 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.	<b>Test Mounting Details:</b>  <div style="border: 1px solid black; padding: 2px; display: inline-block; color: red; font-weight: bold;">UUT 13</div>
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Options/Subcomponent Summary:		
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

TRU PROJECT NO. 2001161



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

**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 <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156 (2010)	2.5	1.0	1.5	4.00	3.00	1.67	0.67
		2.5	0.0					

**Product Construction Summary:**  
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.

**Test Mounting Details:**



**Options/Subcomponent Summary:**

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

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

TRU PROJECT NO. 2001161



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

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 <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156 (2010)	2.5	1.0	1.5	4.00	3.00	1.67	0.67
		2.5	0.0					

<b>Product Construction Summary:</b> 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.	<b>Test Mounting Details:</b>
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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



UUT15 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	4100-1210, 4100-1240, 4100-1272, 4100-1274, 4100-3106, 4100-3107, 4100-3108, 4100-6046
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# UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 2001161



<b>Manufacturer:</b> Tyco, Inc.	<b>UUT 16</b>
<b>Model Line:</b> Simplex and Autocall Fire Alarm Systems	
<b>Model Number:</b> Fire Alarm Controls & Incident Commander (4100U/ES & 4190) – 3 Bay Panel	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> 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 <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156 (2010)	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.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 2001161



<b>Manufacturer:</b> Tyco, Inc.	<h2>UUT 17</h2>
<b>Model Line:</b> Simplex and Autocall Fire Alarm Systems	
<b>Model Number:</b> EZCare (5009) – 2 Bay Panel	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> TR028495-SEI, Rev.1	

**UUT Properties**

Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
100	8.5	24.0	40.0	N/A	N/A	N/A

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156 (2010)	2.5	1.0	1.5	4.00	3.00	1.67	0.67
		2.5	0.0					

<b>Product Construction Summary:</b>	<b>Test Mounting Details:</b>
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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	2081-9287 [FP12250A]
Battery Brackets	Tyco-Simplex	2081-9403
Cabinet - Box w/ Solid Metal Door (Platinum-2 Bay)	Tyco	5009-9724
Card/Bracket Mounted Cards	Tyco	5009-9726, 130.8000, 130.8100
Main System Panel	Tyco-Simplex	5009-9721, 5009-9723



UUT17 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

**TRU PROJECT NO. 2001161**



<b>Manufacturer:</b>	<i>Tyco, Inc.</i>	<b>UUT 18</b>
<b>Model Line:</b>	<i>Simplex and Autocall Fire Alarm Systems</i>	
<b>Model Number:</b>	<i>TrueAlert (4009) - IDNET NAC Extender</i>	
<b>Serial Number:</b>	<i>N/A</i>	
<b>Test Report:</b>		<i>TR028495-SEI, Rev.1</i>

**UUT Properties**

Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
39	4.3	16.3	13.5	N/A	N/A	N/A

**UUT Highest Passed Seismic Run Information**

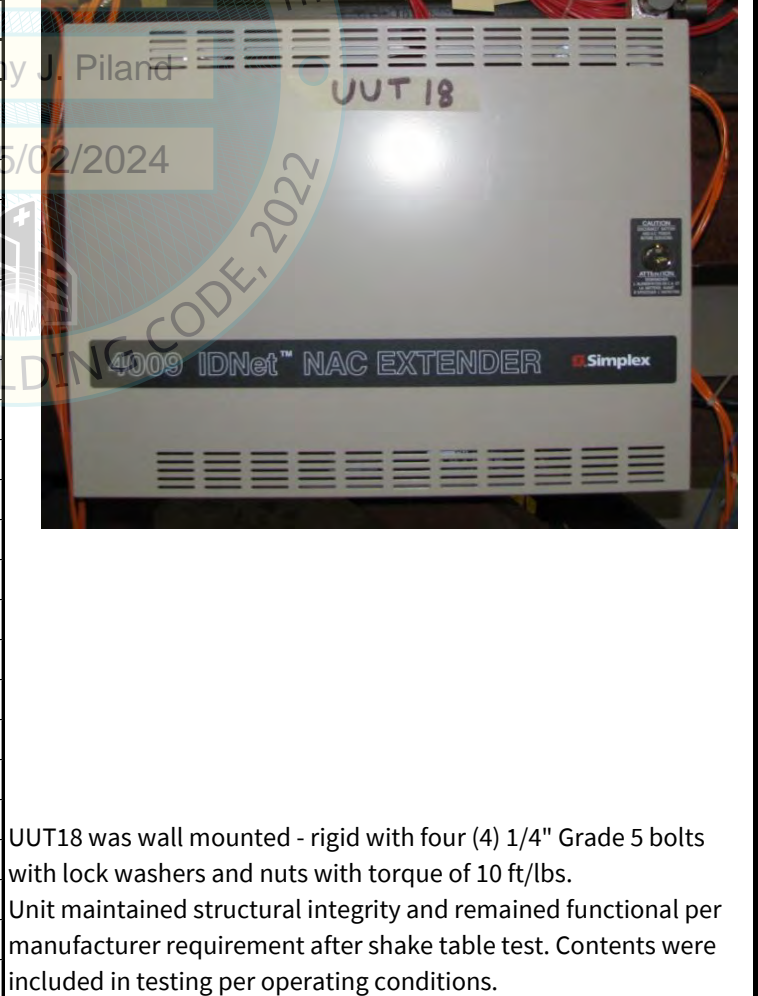
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156 (2010)	2.5	1.0	1.5	4.00	3.00	1.67	0.67
		2.5	0.0					

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

**Test Mounting Details:**

**Options/Subcomponent Summary:**

Description	Mfr.	Part Number
Battery	FirstPower Technology Company	2081-9288 [FP12120]
Battery Brackets	Tyco-Simplex	2081-9401
Cabinet (Beige)	Tyco	4009-9201
Card/Bracket Mounted Cards	Tyco	4009-9811
Control Unit	Tyco	4009-9201



UUT18 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


TRU PROJECT NO. 2001161



<b>Manufacturer:</b> Tyco, Inc.	<b>UUT 19</b>
<b>Model Line:</b> Simplex and Autocall Fire Alarm Systems	
<b>Model Number:</b> Fire Alarm Controls & Incident Commander (4100U/ES & 4190) - 3 Bay Panel	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> 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 <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156 (2010)	2.5	1.0	1.5	4.00	3.00	1.67	0.67
		2.5	0.0					

<b>Product Construction Summary:</b>	<b>Test Mounting Details:</b>
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



# UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 2001161

<b>Manufacturer:</b> Tyco, Inc.	<h2>UUT 20</h2>
<b>Model Line:</b> Simplex and Autocall Fire Alarm Systems	
<b>Model Number:</b> Fire Alarm Panel (4007ES)	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> TR-PR035446-15	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
44	4.4	21.1	20.4	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156 (2010)	2.5	1.0	1.5	4.00	3.00	1.67	0.67
		2.5	0.0					

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

**Test Mounting Details:**

**Options/Subcomponent Summary:**

Description	Mfr.	Part Number
Battery	FirstPower Technology Company	2081-9288 [FP12120]
Battery Brackets	Tyco-Simplex	2081-9401
Card/Bracket Mounted Card	Tyco	4007-9804, 4007-9806, 4007-9807
Control Units (Red)	Tyco	4007-9201
Door Mounted Cards & Modules	Tyco	4007-9805



UUT20 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.

# UNIT UNDER TEST (UUT) SUMMARY SHEET


TRU PROJECT NO. 2001161



<b>Manufacturer:</b> Tyco, Inc.	<b>UUT 21</b>
<b>Model Line:</b> Simplex and Autocall Fire Alarm Systems	
<b>Model Number:</b> Fire Alarm Panel (4007ES)	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> TR-PR035446-15	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
53	4.4	21.1	20.4	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156 (2010)	2.5	1.0	1.5	4.00	3.00	1.67	0.67
		2.5	0.0					

<b>Product Construction Summary:</b> Unit comprised of cold rolled carbon steel 0.048" thick powder coated box and door, with internal electronics. Enclosure is NEMA 1 rated.	<b>Test Mounting Details:</b> 
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Options/Subcomponent Summary:		
Description	Mfr.	Part Number
Battery	FirstPower Technology Company	2081-9275 [FP12180]
Battery Brackets	Tyco-Simplex	2081-9402
Card/Bracket Mounted Card	Tyco	4007-9801, 4007-9802, 4007-9803, 4007-9809, 4190-6106
Control Units (Platinum)	Tyco	4007-9102
Door Mounted Cards & Modules	Tyco	4007-9805



UUT21 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.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 2001161



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

**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 <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156 (2010)	2.5	1.0	1.5	4.00	3.00	1.67	0.67
		2.5	0.0					

**Product Construction Summary:**

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

**Test Mounting Details:**



**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.