



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

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

OFFICE USE ONLY

**APPLICATION #: OSP-0635**

**HCAI Special Seismic Certification Preapproval (OSP)**

Type:  New  Renewal

**Manufacturer Information**

Manufacturer: Firetrol Inc.

Manufacturer's Technical Representative: Felix Turcotte

Mailing Address: 4100 Desserte Sud, (A-440 Ouest), Laval, QC H7T0H3

Telephone: (514) 334-2503

Email: felix@tornatech.com

**Product Information**

Product Name: Industrial Control Panels

Product Type: Pump Control Panels

Product Model Number: Varies, see Attachment

General Description: Electric and diesel fire pump controllers with various subcomponents with carbon or stainless steel enclosures.

Mounting Description: Rigid, Floor/Wall Mounted

Tested Seismic Enhancements: None

**Applicant Information**

Applicant Company Name: TRU Compliance

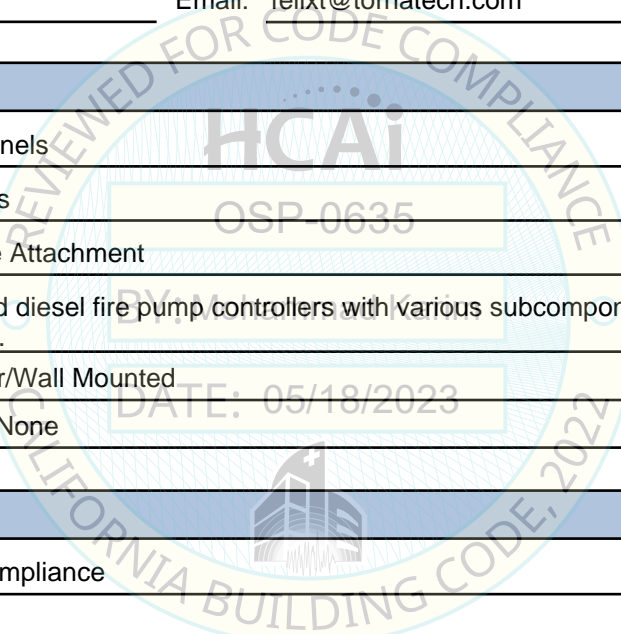
Contact Person: Daniel Zentner

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  
Name: Mehrshad Ketabdar California License Number: S6105  
Mailing Address: 316 E Dexter St, Covina, CA 91723  
Telephone: (669) 946-2838 Email: mketabdar@structint.com

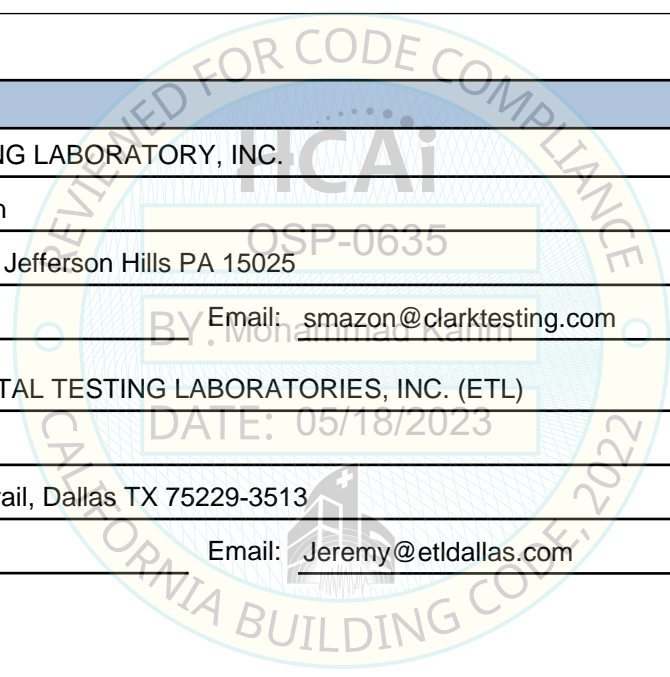
Certification Method

GR-63-Core  ICC-ES AC156  IEEE 344  IEEE 693  NEBS 3  
 Other (Please Specify):

Testing Laboratory

Company Name: CLARK TESTING LABORATORY, INC.  
Contact Person: Suzanne Mazon  
Mailing Address: 1801 Route 51, Jefferson Hills PA 15025  
Telephone: (412) 387-1001 Email: smazon@clarktesting.com

Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)  
Contact Person: Jeremy Lange  
Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513  
Telephone: (972) 247-9657 Email: Jeremy@etldallas.com





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

**Seismic Parameters**

Design Basis of Equipment or Components ( $F_p/W_p$ ) = 1.50 (SDS = 2.00); 1.44 (SDS = 2.50)

SDS (Design spectral response acceleration at short period, g) = 2.0 (z/h = 1.0); 2.5 (z/h = 0.0)

$a_p$  (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 and 0

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

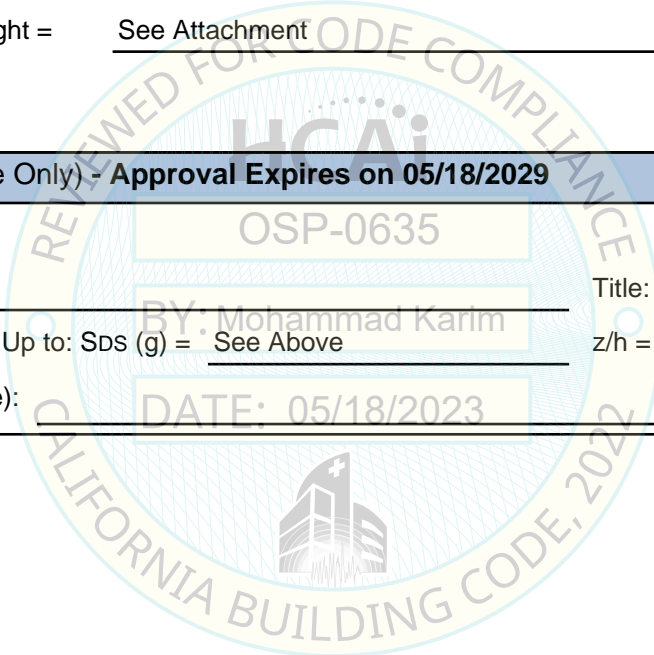
**HCAI Approval (For Office Use Only) - Approval Expires on 05/18/2029**

Date: 5/18/2023

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = See Above z/h = See Above

Condition of Approval (if applicable): DATE: 05/18/2023



# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>TABLE 1</b>
<b>Model Line:</b> FTAXXX	

**Certified Product Construction Summary:**  
Painted carbon steel & stainless steel enclosure.

**Certified Options Summary:**  
Anti-condensation heater, thermostat and humidistat. Field programmable I/O board

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

**Building Code: CBC 2022, IBC 2021**      **Seismic Certification Limits:**       $S_{DS} = 2.0g$   $z/h=1.0$        $I_p = 1.5$   
 $S_{DS} = 3.2g$   $z/h=0.0$

Model Line	Model <sup>1</sup>	Dimensions (in)			Weight (lbs.)	Notes	UUT
		Depth	Width	Height			
Across-the-line Starter	FTA1000	12.0	20.0	48.0	170		Interp.
		14.0	24.0	54.0	230		Interp.
		18.0	30.0	68.0	400		Interp.
		18.0	36.0	68.0	450		Interp.
		20.0	40.0	75.0	600		Interp.
Across-the-line Starter w/ Automatic Power Transfer Switch	FTA1000(-TSA)	12.0	36.0	48.0	280	UUT11: 229 lbs.	11
		14.0	44.0	54.0	390		Interp.
		18.0	54.0	68.0	850		Interp.
		18.0	72.0	68.0	1,000	UUT12: 955 lbs.	12
		20.0	80.0	75.0	1,150	UUT19: 1,130 lbs.	19
Partwinding Starter	FTA1250	12.0	20.0	48.0	170		Interp.
		14.0	24.0	54.0	230		Interp.
		18.0	30.0	68.0	400		Interp.
		18.0	36.0	68.0	450		Interp.
		20.0	40.0	75.0	600		Interp.
Partwinding Starter w/ Automatic Power Transfer Switch	FTA1250(-TSA)	12.0	36.0	48.0	280		Interp.
		14.0	44.0	54.0	390		Interp.
		18.0	54.0	68.0	850		Interp.
		18.0	60.0	68.0	1,000		Interp.
		20.0	80.0	75.0	1,200		Interp.

**Notes:**  
1. The model numbers listed in this table represent specific sets of subcomponents. Test units 1-4, 9, 11-19 cover the range of materials, enclosures, and subcomponents for all models. Models that do not list a UUT are interpolated between the test units.

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>TABLE 1</b>
<b>Model Line:</b> FTAXXX	

**Certified Product Construction Summary:**  
Painted carbon steel & stainless steel enclosure.

**Certified Options Summary:**  
Anti-condensation heater, thermostat and humidistat. Field programmable I/O board

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

**Building Code: CBC 2022, IBC 2021**      **Seismic Certification Limits:**       $S_{DS} = 2.0g \quad z/h=1.0$        $I_p = 1.5$   
 $S_{DS} = 3.2g \quad z/h=0.0$

Model Line	Model <sup>1</sup>	Dimensions (in)			Weight (lbs.)	Notes	UUT
		Depth	Width	Height			
Wye-Delta Closed Starter	FTA1350	12.0	26.0	48.0	275		Interp.
		14.0	30.0	54.0	350		Interp.
		18.0	36.0	68.0	510	UUT3: 510 lbs.	3
		18.0	60.0	68.0	600		Interp.
		20.0	65.0	75.0	750		Interp.
Wye-Delta Closed Starter w/ Automatic Power Transfer Switch	FTA1350(-TSA)	12.0	42.0	48.0	315		Interp.
		14.0	50.0	54.0	440		Interp.
		18.0	60.0	68.0	850		Interp.
		18.0	72.0	68.0	1,150		Interp.
		20.0	80.0	75.0	1,300		Interp.
Wye-Delta Open Starter	FTA1300	12.0	20.0	48.0	200		Interp.
		14.0	24.0	54.0	300		Interp.
		18.0	30.0	68.0	500		Interp.
		20.0	40.0	75.0	650		Interp.
Wye-Delta Open Starter w/ Automatic Power Transfer Switch	FTA1300(-TSA)	12.0	36.0	48.0	300		Interp.
		14.0	44.0	54.0	490		Interp.
		18.0	54.0	68.0	990		Interp.
		18.0	60.0	68.0	1,100		Interp.
		20.0	80.0	75.0	1,200		Interp.

**Notes:**  
1. The model numbers listed in this table represent specific sets of subcomponents. Test units 1-4, 9, 11-19 cover the range of materials, enclosures, and subcomponents for all models. Models that do not list a UUT are interpolated between the test units.

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>TABLE 1</b>
<b>Model Line:</b> FTAXXX	

**Certified Product Construction Summary:**  
Painted carbon steel & stainless steel enclosure.

**Certified Options Summary:**  
Anti-condensation heater, thermostat and humidistat. Field programmable I/O board

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

**Building Code: CBC 2022, IBC 2021**      **Seismic Certification Limits:**       $S_{DS} = 2.0g$   $z/h=1.0$        $I_p = 1.5$   
 $S_{DS} = 3.2g$   $z/h=0.0$

Model Line	Model <sup>1</sup>	Dimensions (in)			Weight (lbs.)	Notes	UUT
		Depth	Width	Height			
Soft Start/Soft Stop	FTA1930	12.0	26.0	48.0	200	UUT13: 158 lbs.	13
		12.0	26.0	48.0	200	UUT15: 153 lbs.	15
		12.0	26.0	48.0	200	UUT4: 189 lbs.	4
		14.0	30.0	54.0	320		Interp.
		18.0	36.0	68.0	475	UUT16: 409 lbs.	16
		18.0	36.0	68.0	475	UUT2: 453 lbs.	2
		18.0	54.0	68.0	600		Interp.
		18.0	60.0	68.0	750		Interp.
		18.0	60.0	68.0	769	UUT14: 769 lbs.	14
Soft Start/Soft Stop w/ Automatic Power Transfer Switch	FTA1930(-TSA)	12.0	42.0	48.0	335		Interp.
		14.0	50.0	54.0	600		Interp.
		18.0	60.0	68.0	1,050		Interp.
		20.0	105.0	75.0	1,350		Interp.
Autotransformer Starter	FTA1800	12.0	26.0	48.0	310		Interp.
		14.0	30.0	54.0	425		Interp.
		18.0	36.0	68.0	765		Interp.
		18.0	60.0	68.0	1,210		Interp.
		20.0	65.0	75.0	1,350		Interp.
Autotransformer Starter w/ Automatic Power Transfer Switch	FTA1800(-TSA)	12.0	42.0	48.0	600		Interp.
		14.0	50.0	54.0	810		Interp.
		18.0	60.0	68.0	1,210	UUT1: 1,210 lbs.	1
		18.0	72.0	68.0	1,210	UUT9: 1,003 lbs.	9
		20.0	105.0	75.0	2,000		Interp.

**Notes:**  
1. The model numbers listed in this table represent specific sets of subcomponents. Test units 1-4, 9, 11-19 cover the range of materials, enclosures, and subcomponents for all models. Models that do not list a UUT are interpolated between the test units.

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>TABLE 1</b>
<b>Model Line:</b> FTAXXX	

**Certified Product Construction Summary:**  
Painted carbon steel & stainless steel enclosure.

**Certified Options Summary:**  
Anti-condensation heater, thermostat and humidistat. Field programmable I/O board

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

**Building Code: CBC 2022, IBC 2021**      **Seismic Certification Limits:**       $S_{DS} = 2.0g$     $z/h = 1.0$        $I_p = 1.5$   
 $S_{DS} = 3.2g$     $z/h = 0.0$

Model Line	Model <sup>1</sup>	Dimensions (in)			Weight (lbs.)	Notes	UUT
		Depth	Width	Height			
Pressure Limiting (VFD) w/ Across-the-line Bypass	FTA3100S	12.0	52.0	48.0	270		Interp.
		14.0	60.0	54.0	650		Interp.
		18.0	72.0	68.0	900		Interp.
		30.0	107.0	75.0	1,350		Interp.
Pressure Limiting (VFD) w/ Across-the-line Bypass w/ Automatic Power Transfer Switch	FTA3100S(-TSA)	12.0	68.0	48.0	375	UUT17: 375 lbs.	17
		14.0	80.0	54.0	800		Interp.
		18.0	96.0	68.0	1,300		Interp.
		30.0	147.0	75.0	1,800		Interp.
Pressure Limiting (VFD) w/ Soft Start Bypass	FTA3130S	12.0	52.0	48.0	350		Interp.
		14.0	60.0	54.0	820		Interp.
		18.0	72.0	68.0	1,100		Interp.
		30.0	107.0	75.0	2,200	UUT18: 2,181 lbs.	18
Pressure Limiting (VFD) w/ Soft Start Bypass w/ Automatic Power Transfer Switch	FTA3130S(-TSA)	12.0	68.0	48.0	455		Interp.
		14.0	80.0	54.0	970		Interp.
		18.0	96.0	68.0	1,500		Interp.
		30.0	147.0	75.0	2,650		Interp.

**Notes:**  
1. The model numbers listed in this table represent specific sets of subcomponents. Test units 1-4, 9, 11-19 cover the range of materials, enclosures, and subcomponents for all models. Models that do not list a UUT are interpolated between the test units.

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>TABLE 1</b>
<b>Model Line:</b> FTAXXX	

**Certified Product Construction Summary:**  
Painted carbon steel & stainless steel enclosure.

**Certified Options Summary:**  
Anti-condensation heater, thermostat and humidistat. Field programmable I/O board

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

**Building Code: CBC 2022, IBC 2021**      **Seismic Certification Limits:**       $S_{DS} = 2.0g \quad z/h=1.0$        $I_p = 1.5$   
 $S_{DS} = 3.2g \quad z/h=0.0$

Model Line	Model <sup>1</sup>	Dimensions (in)			Weight (lbs.)	Notes	UUT
		Depth	Width	Height			
Pressure Limiting (VFD) w/ Autotransformer Bypass	FTA3110S	12.0	52.0	48.0	350		Interp.
		14.0	60.0	54.0	820		Interp.
		18.0	72.0	68.0	1,100		Interp.
		30.0	107.0	75.0	2,200		Interp.
Pressure Limiting (VFD) w/ Autotransformer Bypass w/ Automatic Power Transfer Switch	FTA3110S(-TSA)	12.0	68.0	48.0	455		Interp.
		14.0	80.0	54.0	970		Interp.
		18.0	96.0	68.0	1,500		Interp.
		30.0	147.0	75.0	2,650		Interp.

**Notes:**  
1. The model numbers listed in this table represent specific sets of subcomponents. Test units 1-4, 9, 11-19 cover the range of materials, enclosures, and subcomponents for all models. Models that do not list a UUT are interpolated between the test units.



# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>TABLE 2</b>
<b>Model Line:</b> FTAXXX	

**Certified Product Construction Summary:**  
Painted carbon steel & stainless steel enclosure.

**Certified Options Summary:**  
FTA1100 Models: CE compliance (disconnect switch), Engine block heater, Anti-condensation heater, thermostat and humidistat, field programmable I/O board.

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

**Building Code: CBC 2022, IBC 2021**      **Seismic Certification Limits:**       $S_{DS} = 2.0g \quad z/h=1.0$        $I_p = 1.5$   
 $S_{DS} = 3.2g \quad z/h=0.0$

Model Line	Model	Dimensions (in)			Weight (lbs.)	Notes	UUT
		Depth	Width	Height			
Diesel Engine Driven Fire Pump Controller	FTA1100	8.0	23.6	27.5	90	UUT: 73 lbs.	8
		8.0	30.0	40.0	132		10
Limited Service Fire Pump Controller	FTA750	8.0	20.0	24.0	140		Interp.
	FTA750(-TSA)	8.0	40.0	24.0	140		7
Jockey Fire Pump Controller	FTA550	6.0	10.0	12.0	20	UUT6: 38 lbs.	5
		7.0	16.0	16.0	40		6
	FTA560	6.0	10.0	12.0	20		Interp.
		7.0	16.0	16.0	40		Interp.
	FTA570E	8.0	20.0	24.0	60	UUT24: 56 lbs.	24
	FTA570F	6.0	9.5	12.0	20	UUT25: 17 lbs.	25
Disconnecting Device	FTA990	11.0	12.0	22.0	40	UUT21: 38 lbs. UUT23: 36 lbs.	21, 23
		11.0	14.0	26.0	75		Interp.
		11.0	16.0	30.0	100		Interp.
		12.5	18.0	42.0	130	UUT20: 120 lbs. UUT22: 129 lbs.	20, 22

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>Table Description:</b> Base/Wall Mounted Enclosures	<b>TABLE 3</b>
<b>Model Line:</b> FTAXXX		

<b>Building Code:</b> CBC 2022, IBC 2021	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.0g \quad z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 3.2g \quad z/h = 0.0$	

Model Line (Manufacturer)	Model	Dimension (in)			Material	Notes	UUT
		Depth	Width	Height			
Enclosure (Firetrol)	2BOX101A/2BOX201A	12.0	20.0	48.0	Carbon & Stainless Steel		Extrap.
	2BOX101B/2BOX201B	12.0	26.0	48.0	Carbon & Stainless Steel	<i>UUT: Carbon Steel</i>	4, 13, 15
	2BOX101C/2BOX201C	12.0	36.0	48.0	Carbon & Stainless Steel	<i>UUT: Stainless Steel</i>	11
	2BOX101D/2BOX201D	12.0	42.0	48.0	Carbon & Stainless Steel		Interp.
	2BOX102A/2BOX202A	14.0	24.0	54.0	Carbon & Stainless Steel		Interp.
	2BOX102B/2BOX202B	14.0	30.0	54.0	Carbon & Stainless Steel		Interp.
	2BOX102C/2BOX202C	14.0	44.0	54.0	Carbon & Stainless Steel		Interp.
	2BOX102D/2BOX202D	14.0	50.0	54.0	Carbon & Stainless Steel		Interp.
	2BOX103A/2BOX203A	18.0	30.0	68.0	Carbon & Stainless Steel		Interp.
	2BOX103B/2BOX203B	18.0	36.0	68.0	Carbon & Stainless Steel	<i>UUT: Carbon Steel</i>	2, 3, 16
	2BOX103C/2BOX203C	18.0	54.0	68.0	Carbon & Stainless Steel		Interp.
	2BOX103D/2BOX203D	18.0	60.0	68.0	Carbon & Stainless Steel	<i>UUT: Carbon Steel</i>	1, 14
	2BOX103G/2BOX203G	18.0	72.0	68.0	Carbon & Stainless Steel	<i>UUT: Stainless Steel</i>	9, 12
	2BOX201B+ENENC0007	12.0	52.0	48.0	Carbon & Stainless Steel		Interp.
	2BOX201D+ENENC0007	12.0	68.0	48.0	Carbon & Stainless Steel	<i>UUT: Carbon Steel</i>	17
	2BOX202B+ENENC0008	14.0	60.0	54.0	Carbon & Stainless Steel		Interp.
	2BOX202D+ENENC0008	14.0	80.0	54.0	Carbon & Stainless Steel		Interp.
	2BOX203B+ENENC0009	18.0	72.0	68.0	Carbon & Stainless Steel		Interp.
	2BOX203D+ENENC0009	18.0	96.0	68.0	Carbon & Stainless Steel		Interp.
	ENENC0003	20.0	40.0	75.0	Carbon & Stainless Steel		Interp.
ENENC0004	20.0	80.0	75.0	Carbon & Stainless Steel	<i>UUT: Stainless Steel</i>	19	
ENENC0003+ENENC0005	30.0	82.0	75.0	Carbon & Stainless Steel		Interp.	
ENENC0004+ENENC0005	30.0	122.0	75.0	Carbon & Stainless Steel		Interp.	

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

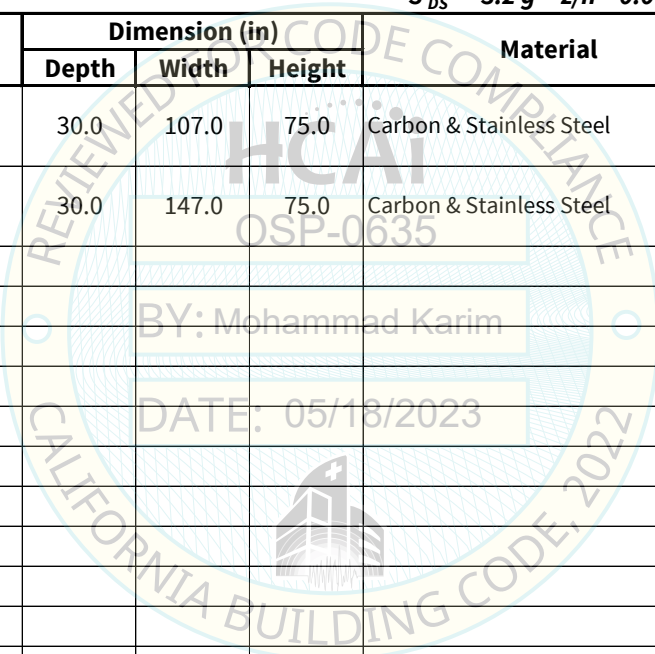
2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>Table Description:</b> Base/Wall Mounted Enclosures	<b>TABLE 3</b>
<b>Model Line:</b> FTAXXX		

<b>Building Code:</b> CBC 2022, IBC 2021	<b>Seismic Certification Limits:</b>	
	$S_{DS} = 2.0 g \quad z/h = 1.0$	$I_p = 1.5$
	$S_{DS} = 3.2 g \quad z/h = 0.0$	

Model Line (Manufacturer)	Model	Dimension (in)			Material	Notes	UUT
		Depth	Width	Height			
Enclosure (Firetrol)	ENENC0003+ENENC0005 +ENENC0006	30.0	107.0	75.0	Carbon & Stainless Steel	UUT: Carbon Steel	18
	ENENC0004+ENENC0005 +ENENC0006	30.0	147.0	75.0	Carbon & Stainless Steel		Interp.



**SPECIAL SEISMIC CERTIFICATION  
CERTIFIED SUBCOMPONENT MATRIX**

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>Table Description:</b> Wall Mounted Enclosures	<b>TABLE 4</b>
<b>Model Line:</b> FTxxx		

**Building Code:** CBC 2022, IBC 2021      **Seismic Certification Limits:**       $S_{DS} = 2.0g \quad z/h = 1.0$        $I_p = 1.5$   
 $S_{DS} = 3.2g \quad z/h = 0.0$

Model Line (Manufacturer)	Model	Dimension (in)			Material	Notes	UUT
		Depth	Width	Height			
Enclosure (Firetrol)	2BOX13A	6.0	10.0	12.0	Carbon & Stainless Steel	UUT: Carbon Steel	5
	2BOX13C	7.0	16.0	16.0	Carbon & Stainless Steel	UUT: Carbon Steel	6
	2BOX08A	8.0	20.0	24.0	Carbon & Stainless Steel		Interp.
	2BOX08A x2	8.0	40.0	24.0	Carbon & Stainless Steel	UUT: Carbon Steel	7
	2BOX11A	8.0	23.6	27.5	Carbon & Stainless Steel	UUT: Carbon Steel	8
	2BOX11D	8.0	30.0	40.0	Carbon & Stainless Steel	UUT: Stainless Steel	10
	2BOX16A	11.0	12.0	22.0	Carbon & Stainless Steel	UUT: Carbon Steel	21, 23
	2BOX213A	6.0	9.5	12.0	Carbon & Stainless Steel	UUT: Carbon Steel	25
	2BOX213B	6.0	12.0	12.0	Carbon & Stainless Steel		Interp.
	ENENC0014	11.0	16.0	30.0	Carbon & Stainless Steel		Interp.
	ENENC0015	12.5	18.0	42.0	Carbon & Stainless Steel	UUT: Carbon Steel	20, 22
	ENENC0025	8.0	20.0	24.0	Carbon & Stainless Steel	UUT: Carbon Steel	24

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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<b>Manufacturer:</b> Firetrol Inc.	<b>Table Description:</b> Base/Wall Mounted Electrical Components	<b>TABLE 5</b>
<b>Model Line:</b> FTxxx		

<b>Building Code:</b> CBC 2022, IBC 2021	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.0 g$ $z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 3.2 g$ $z/h = 0.0$	

Component Type	Manufacturer	Model	Description	Notes	UUT	
Soft-starter	Siemens	3RW4427	93A		4	
		3RW4056	115-230 VAC, 145-162A		Interp.	
		3RW4075	480V, 315A		2	
	Schneider	ATS22D17S6U	17A			13
		ATS22D32S6U	32A			Interp.
		ATS22D47S6U	47A			Interp.
		ATS22D62S6U	62A			Interp.
		ATS22D75S6U	75A			Interp.
		ATS22D88S6U	88A			Interp.
		ATS22C11S6U	110A			Interp.
		ATS22C14S6U	140A			Interp.
		ATS22C17S6U	170A			Interp.
		ATS22C21S6U	210A			Interp.
		ATS22C25S6U	250A			Interp.
		ATS22C32S6U	320A			Interp.
		ATS22C41S6U	410A			Interp.
		ATS22C48S6U	480A			Interp.
		ATS22C59S6U	590A			18
		ATS48C66Y/ATS480C66Y	660A			14
		Lovato	ADXL 0030 600	30A		
	ADXL 0045 600		45A			Interp.
	ADXL 0060 600		60A			Interp.
	ADXL 0075 600		75A			Interp.

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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Manufacturer: Firetrol Inc.		Table Description: Base/Wall Mounted Electrical Components			TABLE 5	
Model Line: FTAXXX						
Building Code: CBC 2022, IBC 2021		Seismic Certification Limits:			$I_p = 1.5$	
		$S_{DS} = 2.0 g \quad z/h = 1.0$				
		$S_{DS} = 3.2 g \quad z/h = 0.0$				
Component Type	Manufacturer	Model	Description	Notes	UUT	
Soft-starter	Lovato	ADXL 0085 600	85A		Interp.	
		ADXL 0115 600	115A		Interp.	
		ADXL 0135 600	135A		Interp.	
		ADXL 0162 600	162A		Interp.	
		ADXL 0195 600	195A		Interp.	
		ADXL 0250 600	250A		Interp.	
		ADXL 0320 600	320A		16	
Circuit Breaker	Siemens	MCP 100A	100A		4	
		MCP 125A	125A		Interp.	
		MCP 250A	250A		Interp.	
		MCP 400A	400A		2, 3	
		MCP 600A	600A		4	
	Schneider	HJL36050M72	50A			13, 15
		HJL36150M74	150A			11
		JJL36250M75	250A			Interp.
		LJL36400M37X	400A			16
		LJL36600M37X	600A			Interp.
		PJL36080M68	800A			12, 14
		PJL36100M69	1000A			Interp.
		PJL36120M70	1200A			19

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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<b>Manufacturer:</b> Firetrol Inc. <span style="float: right;"><b>Table Description:</b> Base/Wall Mounted Electrical Components</span>		<b>TABLE 5</b>			
<b>Model Line:</b> FTxxx					
<b>Building Code:</b> CBC 2022, IBC 2021		<b>Seismic Certification Limits:</b>		$S_{DS} = 2.0g \quad z/h = 1.0$ $S_{DS} = 3.2g \quad z/h = 0.0$	
				$I_p = 1.5$	
Component Type	Manufacturer	Model	Description	Notes	UUT
Molded Case Circuit Breaker	3L3	MCPNK0015M1F	15A		17
		MCPNK0025M1F	25A		Interp.
		MCPNK0040M1F	40A		Interp.
		MCPNK0060M1F	60A		Interp.
		MCPNK0100M1F	100A		Interp.
		MCPNK0150M2F	150A		Interp.
		MCPNK0225M2F	225A		Interp.
		MCPNK0250M3F	250A		Interp.
		MCPNK0400M3F	400A		Interp.
		MCPNK0600M4F	600A		Interp.
		MCPNK0800M5F	800A		Interp.
		MCPNK0800M6F	800A		Interp.
		MCPNK1000M6F	1000A		Interp.
		MCPNK1200M6F	1200A		19
Transfer Switches	Socomec	97233010	100A		11
		97233020	200A		Interp.
		97233026	260A		Interp.
		97233040	400A		Interp.
		97233060	600A		Interp.
		97233080	800A		12
		97233120	1200A		19
Switches	Saia-Burgess	XGG6-88-P27Z1	16A, 250V, 60mm lever		1, 3, 9

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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<b>Manufacturer:</b> Firetrol Inc.	<b>Table Description:</b> Base/Wall Mounted Electrical Components	<b>TABLE 5</b>
<b>Model Line:</b> FTxxx		

<b>Building Code:</b> CBC 2022, IBC 2021	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.0 g$ $z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 3.2 g$ $z/h = 0.0$	

Component Type	Manufacturer	Model	Description	Notes	UUT	
Switches	Siemens	MCS 100A	100A		4	
		MCS 125A	125A		Interp.	
		MCS 250A	250A		Interp.	
		MCS 400A	400A		2	
		MCS 600A	600A		1, 3, 9	
		3VL9400-2AB01	1NO+1NC		UUT: (2) installed	4
		A01JLD64	1NO+1NC		UUT: (4) installed	1, 9
	Schneider	HGL36000S15	150A			11, 13, 15
		JGL36000S25	250A			Interp.
		LGL36000S40X	400A			16
		LGL36000S60X	600A			Interp.
		PJL36000S80	800A			12, 14
		PJL36000S10	1000A			Interp.
		PJL36000S12	1200A			19
	3L3	MCSNK0100M1F	100A			17
		MCSNK0150M2F	150A			Interp.
		MCSNK0225M2F	225A			Interp.
		MCSNK0250M3F	250A			Interp.
		MCSNK0400M3F	400A			Interp.
		MCSNK0600M4F	600A			Interp.
		MCSNK0800M5F	800A			Interp.
MCSNK0800M6F		800A			Interp.	
MCSNK1000M6F	1000A			Interp.		
MCSNK1200M6F	1200A			19		



# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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<b>Manufacturer:</b> Firetrol Inc.	<b>Table Description:</b> Base/Wall Mounted Electrical Components	<b>TABLE 5</b>
<b>Model Line:</b> FTxxx		

<b>Building Code:</b> CBC 2022, IBC 2021	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.0g$ $z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 3.2g$ $z/h = 0.0$	

Component Type	Manufacturer	Model	Description	Notes	UUT
Transformers	Transfab	DL 150VA 208-240V	For 100/200/260/400A versions		Extrap.
		DL 150VA 380/400/415-240V	For 100/200/260/400A versions		11
		DL 150VA 440/460/480-240V	For 100/200/260/400A versions		Interp.
		DL 150VA 600-240V	For 100/200/260/400A versions		Interp.
		DL 200VA 208-240V	For 600/800A versions		Interp.
		DL 200VA 380/400/415-240V	For 600/800A versions		Interp.
		DL 200VA 440/460/480-240V	For 600/800A versions		Interp.
		DL 200VA 600-240V	For 600/800A versions		12
		EXS114340	600/120V, 100VA, 50-60Hz.		1, 2, 9, 14, 16
		ET5841	Toroidal 4000:1		1, 2, 3, 9, 14, 16
		ET5874	Toroidal 3600:1		4, 13, 15
		DL 8849QB	600/24V, 25VA, 50-60Hz.		1, 9
	DL 8882QB	600/24V, 50VA, 60Hz.		1, 4, 9, 13, 15	
	Rex Manufacturing	RS75J	75kVA	<i>GPR only</i>	9
		RS150J	150kVA	<i>GPR only</i>	Interp.
RS400J		400kVA	<i>GPR only</i>	1	
Marcus Transformer	MTC250	600/120V, 250VA, 60Hz.		2, 4, 13, 14, 15, 16	

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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<b>Manufacturer:</b> Firetrol Inc. <b>Model Line:</b> FTxxx		<b>Table Description:</b> Base/Wall Mounted Electrical Components		<b>TABLE 5</b>	
<b>Building Code:</b> CBC 2022, IBC 2021		<b>Seismic Certification Limits:</b>		$S_{DS} = 2.0g \quad z/h = 1.0$ $S_{DS} = 3.2g \quad z/h = 0.0$	
				$I_p = 1.5$	
Component Type	Manufacturer	Model	Description	Notes	UUT
Shunt Trip	Siemens	S17JLD6	24VAC	Installs in MCS	1, 3, 9
		3VL9400-1SC01	24VAC/DC	Installs in MCS	2
Fan	Orion	0A172SAP-11-1TB	115VAC, 235 CFM		1, 9
	Rittal	3241.100	230VAC	Wall-mounted Fan and filter unit	17
		3243.100	230VAC	Wall-mounted Fan and filter unit	Interp.
		3244.100	230VAC	Wall-mounted Fan and filter unit	18
		3140.100	230VAC	Roof-mounted Fan and filter unit	18
		3243.200		Wall-mounted Outlet filter	18
Resistor	I-Gard Corp.	TR-600-75	Wye-Delta, 600V, 75HP		9
		TR-600-150	Wye-Delta, 600V, 150HP	GPW only	Interp.
		TR-600-400	Wye-Delta, 600V, 400HP	GPW only	3
	Huntington Vishay	ALSR5F-5-1.0-1%	1 Ohm, 5W, 1% Ceramic		1-4, 9, 13, 14, 15, 16
Solenoid Valve	Granzow	1ASC024	24VDC		1-4, 9, 13, 14, 15, 16
Alarm Bell	Newsmart	1NEW001	12VDC, Ø150mm, red		1-4, 13, 14, 15, 16
		1NEW002	24VDC, Ø150mm, red		9, 11
Pressure Transducer	Telemecanique	XMLP600PPF13Q3	600psi, 0.5-4.5V, 1/4" NPT		1-4, 9, 13, 14, 15, 16
Control Relay	Siemens	3RH1122-1AB00	24VAC, 2NO/2NC, 50/60Hz.		1-4, 9, 13, 14, 15, 16
Switch Contact Block	Siemens	3SB3400-0B	10A, 1NO		1-4, 9, 13, 14, 15, 16

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# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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<b>Manufacturer:</b> Firetrol Inc.	<b>Table Description:</b> Base/Wall Mounted Electrical Components	<b>TABLE 5</b>
<b>Model Line:</b> FTAXXX		

<b>Building Code:</b> CBC 2022, IBC 2021	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.0g$ $z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 3.2g$ $z/h = 0.0$	

Component Type	Manufacturer	Model	Description	Notes	UUT
Contactor	Siemens	3RT103	Frame size S2		Extrap.
		3RT104	Frame size S3		4
		3RT105	Frame size S6		1, 3
		3RT106	Frame size S10		1, 2, 3, 9
		3RT107	Frame size S12		1, 9
		3RH1921-1DA11	1NO+1NC		4
		3RH1921-1FA22	2NO+2NC	UUT: (2) installed	1, 9
		3RH1921-1FC22	2NO+2NC, Late break	UUT: (2) installed	3
		3RT1016-1BB41	24VDC Contactor 9A		11, 12
		3RA1912-2H	Mechanical Interlock		11, 12
	Schneider	LC1D25	3-Pole, 25A		11
		LC1D40	3-Pole, 40A		13, 15
		LC1D65A	3-Pole, 65A		Interp.
		LC1D80	3-Pole, 80A, 4 lbs.		Interp.
		LC1D95	3-Pole, 95A, 4 lbs.		Interp.
		LC1D115	3-Pole, 115A, 4 lbs.		Interp.
		LC1F185	3-Pole, 185A, 12 lbs.		Interp.
		LC1F225	3-Pole, 225A, 12 lbs.		Interp.
		LC1F265	3-Pole, 265A, 19 lbs.		Interp.
		LC1F330	3-Pole, 330A, 21 lbs.		Interp.
LC1F400	3-Pole, 400A, 18 lbs.		16		
LC1F630	3-Pole, 630A, 34 lbs.		14		
LC1F800	3-Pole, 800A, 41 lbs.		12		

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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<b>Manufacturer:</b> Firetrol Inc. <span style="float: right;"><b>Table Description:</b> Base/Wall Mounted Electrical Components</span>		<b>TABLE 5</b>			
<b>Model Line:</b> FTAXXX					
<b>Building Code:</b> CBC 2022, IBC 2021		<b>Seismic Certification Limits:</b>		$S_{DS} = 2.0g \quad z/h = 1.0$ $S_{DS} = 3.2g \quad z/h = 0.0$	
				$I_p = 1.5$	
Component Type	Manufacturer	Model	Description	Notes	UUT
Contactor	3L3	CONNK0009	3-Pole, 9A		17
		CONNK0012	3-Pole, 12A		Interp.
		CONNK0018	3-Pole, 18A		Interp.
		CONNK0025	3-Pole, 25A		Interp.
		CONNK0032	3-Pole, 32A		Interp.
		CONNK0040	3-Pole, 40A		Interp.
		CONNK0050	3-Pole, 50A		Interp.
		CONNK0065	3-Pole, 65A		Interp.
		CONNK0080	3-Pole, 80A		Interp.
		CONNK0095	3-Pole, 95A		Interp.
		CONNK0115	3-Pole, 115A		Interp.
		CONNK0150	3-Pole, 150A		Interp.
		CONNK0185	3-Pole, 185A		Interp.
		CONNK0225	3-Pole, 225A		Interp.
		CONNK0265	3-Pole, 265A		Interp.
		CONNK0330	3-Pole, 330A		Interp.
		CONNK0400	3-Pole, 400A		Interp.
		CONNK0500	3-Pole, 500A		Interp.
		CONNK0630	3-Pole, 630A		Interp.
		CONNK0800	3-Pole, 800A		Interp.
CONNK1000	3-Pole, 1000A		19		
Contactor Replacement Parts	Siemens	3RT202	Replacement for 3RT102		11
		3RT203	Replacement for 3RT103		12

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2100139-CR-002-R2



Manufacturer: Firetrol Inc.		Table Description: Base/Wall Mounted Electrical Components			TABLE 5
Model Line: FTxxx					
Building Code: CBC 2022, IBC 2021		Seismic Certification Limits:		$S_{DS} = 2.0g$ $z/h = 1.0$	$I_p = 1.5$
				$S_{DS} = 3.2g$ $z/h = 0.0$	
Component Type	Manufacturer	Model	Description	Notes	UUT
HMI	Firetrol	2VIZ001	Programmable Logic Controller		1, 2, 3, 4
		VZASS0002	Programmable Logic Controller		9, 11-16, 18
		VZASS0003	Programmable Logic Controller		17, 19
I/O Board	Firetrol	2VIZ002/2VIZ102	I/O Board Electric		1-4, 9, 11-19
		2VIZ003/2VIZ103	I/O Board Transfer Switch		1, 9, 11, 12, 17, 19
		2VIZ005/2VIZ105	I/O Board Expander		2, 9, 14, 16, 17, 18
Surge Arrester	Square D	SDSA 3650	40kA Surge Current Rating per Phase		1, 2, 3, 4
	Citel	DS44US-480D	40kA Surge Current Rating per Phase		13, 14, 15, 16
		DS44US-600D	40kA Surge Current Rating per Phase		Extrap.
3-Way Valve	Granzow	1ASC028	24VDC 3-Way Valve 500 psi Brass		11
		1ASC029	24VDC 3-Way Valve 500 psi Stainless		Interp.
		1ASC030	12VDC 3-Way Valve 500 psi Brass		Interp.
		1ASC031	12VDC 3-Way Valve 500 psi Stainless		12
Auxiliary Contact	Socomec	1SOC011	Aux. Contact NO/NC		11
Heater	DBK	HP06-2-15-240	160W, 110/240V		2, 14, 16
Thermostat	DBK	FGT100	0-60°C, NC		2, 14, 16
Humidistat	DBK	RFHSS-112	24V-230V, 50/60Hz., 40-90% rH		2, 14, 16
Trip Module	Firetrol	2PLA048	24VDC	For CB Sentron 100A, 125A	4

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# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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<b>Manufacturer:</b> Firetrol Inc.	<b>Table Description:</b> Base/Wall Mounted Electrical Components	<b>TABLE 5</b>
<b>Model Line:</b> FTxxx		

<b>Building Code:</b> CBC 2022, IBC 2021	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.0g$ $z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 3.2g$ $z/h = 0.0$	

Component Type	Manufacturer	Model	Description	Notes	UUT
Line Reactor	Transfab TMS	KDRB25H	208-240V, 5 Hp	4"D x 6"W x 5"H	Interp.
		KDRB26H	208-240V, 7.5 Hp	4"D x 6"W x 5"H	17
		KDRD21H	208-240V, 10 Hp	4.25"D x 7.2"W x 5.75"H	Interp.
		KDRD22H	208-240V, 15 Hp	4.25"D x 7.2"W x 5.75"H	Interp.
		KDRC22H	208-240V, 20 Hp	4.25"D x 7.2"W x 5.75"H	Interp.
		KDRF28H	208-240V, 25 Hp	6"D x 9"W x 7"H	Interp.
		KDRF25H	208-240V, 30 Hp	7"D x 9"W x 7"H	Interp.
		KDRF26H	208-240V, 40 Hp	7"D x 9"W x 7"H	Interp.
		KDRH24H	208-240V, 50 Hp	7"D x 11"W x 9"H	Interp.
		KDRH23H	208-240V, 60 Hp	7.5"D x 11"W x 9"H	Interp.
		KDRI22H	208-240V, 75 Hp	8.25"D x 11"W x 9"H	Interp.
		KDRI21H	208-240V, 100 Hp	8.25"D x 11"W x 9"H	Interp.
		KDRAA3H2	480V, 5 Hp	2.64"D x 4.25"W x 4.44"H	Interp.
		KDRAA4H2	480V, 7.5 Hp	2.64"D x 4.25"W x 4.44"H	Interp.
		KDRAA5H2	480V, 10 Hp	2.64"D x 4.25"W x 4.44"H	Interp.
		KDRB2H	480V, 15 Hp	4"D x 6"W x 5"H	Interp.
		KDRC3H	480V, 20 Hp	5"D x 7.2"W x 5.75"H	Interp.
		KDRC1H	480V, 25 Hp	5"D x 7.2"W x 5.75"H	Interp.
		KDRE2H	480V, 30 Hp	5"D x 7.2"W x 5.75"H	Interp.
		KDRF4H	480V, 40 Hp	6"D x 9"W x 7"H	Interp.
KDRF1H	480V, 50 Hp	6"D x 9"W x 7"H	Interp.		
KDRF2H	480V, 60 Hp	6"D x 9"W x 7"H	Interp.		
KDRH2H	480V, 75 Hp	7.25"D x 11"W x 9"H	Interp.		

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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<b>Manufacturer:</b> Firetrol Inc.	<b>Table Description:</b> Base/Wall Mounted Electrical Components	<b>TABLE 5</b>
<b>Model Line:</b> FTxxx		

<b>Building Code:</b> CBC 2022, IBC 2021	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.0g$ $z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 3.2g$ $z/h = 0.0$	

Component Type	Manufacturer	Model	Description	Notes	UUT
Line Reactor	Transfab TMS	KDRI2H	480V, 100 Hp	7"D x 11"W x 9"H	Interp.
		KDRG3H	480V, 125 Hp	8"D x 11"W x 9"H	Interp.
		KDRG1H	480V, 150 Hp	8.12"D x 11"W x 9"H	Interp.
		KDRJ1H	480V, 200 Hp	9.75"D x 11"W x 9"H	Interp.
		KDRL1H	480V, 250 Hp	9.31"D x 14.5"W x 11.38"H	Interp.
		KDRL2H	480V, 300 Hp	11"D x 14.5"W x 11.38"H	Interp.
		KDRL3H	480V, 350 Hp	9.31"D x 14.5"W x 11.38"H	Interp.
		KDRL4H	480V, 400 Hp	12"D x 15"W x 11.38"H	Interp.
		KDRL5H	480V, 450 Hp	12.25"D x 15"W x 11.38"H	18
		KDRL6H	480V, 500 Hp	12.25"D x 15"W x 11.38"H	Interp.
		KDRS1H	480V, 600 Hp	13.25"D x 15"W x 11.38"H	Interp.
		KDRAA58H2	600V, 5 Hp	2.64"D x 4.25"W x 4.44"H	Interp.
		KDRB42H	600V, 7.5 Hp	4"D x 6"W x 5"H	Interp.
		KDRB43H	600V, 10 Hp	4"D x 6"W x 5"H	Interp.
		KDRB44H	600V, 15 Hp	4"D x 6"W x 5"H	Interp.
		KDRD41H	600V, 20 Hp	4.25"D x 7.2"W x 5.75"H	Interp.
		KDRC43H	600V, 25 Hp	5"D x 7.2"W x 5.75"H	Interp.
		KDRE42H	600V, 30 Hp	5"D x 7.2"W x 5.75"H	Interp.
		KDRF44H	600V, 40 Hp	6"D x 9"W x 7"H	Interp.
		KDRF45H	600V, 50 Hp	6"D x 9"W x 7"H	Interp.
KDRH43H	600V, 60 Hp	6"D x 11"W x 9"H	Interp.		
KDRH42H	600V, 75 Hp	6"D x 11"W x 9"H	Interp.		
KDRI41H	600V, 100 Hp	7.25"D x 11"W x 9"H	Interp.		

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<b>Manufacturer:</b> Firetrol Inc.	<b>Table Description:</b> Base/Wall Mounted Electrical Components	<b>TABLE 5</b>
<b>Model Line:</b> FTAXXX		

<b>Building Code:</b> CBC 2022, IBC 2021	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.0g$ $z/h = 1.0$	$I_P = 1.5$
		$S_{DS} = 3.2g$ $z/h = 0.0$	

Component Type	Manufacturer	Model	Description	Notes	UUT
Variable Frequency Drive (VFD)	Schneider	ATV630U40M3	200-240V 3PH AC, 5 Hp, 4 kW	Frame Size 1	17
		ATV630U55M3	200-240V 3PH AC, 7.5 Hp, 5.5 kW	Frame Size 2	Interp.
		ATV630U75M3	200-240V 3PH AC, 10 Hp, 7.5 kW	Frame Size 3	Interp.
		ATV630D11M3	200-240V 3PH AC, 15 Hp, 11 kW	Frame Size 3	Interp.
		ATV630D15M3	200-240V 3PH AC, 20 Hp, 15 kW	Frame Size 4	Interp.
		ATV630D18M3	200-240V 3PH AC, 25 Hp, 18.5 kW	Frame Size 4	Interp.
		ATV630D22M3	200-240V 3PH AC, 30 Hp, 22 kW	Frame Size 4	Interp.
		ATV630D30M3	200-240V 3PH AC, 40 Hp, 30 kW	Frame Size 5	Interp.
		ATV630D37M3	200-240V 3PH AC, 50 Hp, 37 kW	Frame Size 5	Interp.
		ATV630D45M3	200-240V 3PH AC, 60 Hp, 45 kW	Frame Size 5	Interp.
		ATV630D55M3	200-240V 3PH AC, 75 Hp, 55 kW	Frame Size 6	Interp.
		ATV630D75M3	200-240V 3PH AC, 100 Hp, 75 kW	Frame Size 6	Interp.
		ATV630U40N4	380-480V 3PH AC, 5 Hp, 4 kW	Frame Size 1	Interp.
		ATV630U55N4	380-480V 3PH AC, 7.5 Hp, 5.5 kW	Frame Size 1	Interp.
		ATV630U75N4	380-480V 3PH AC, 10 Hp, 7.5 kW	Frame Size 2	Interp.
		ATV630D11N4	380-480V 3PH AC, 15 Hp, 11 kW	Frame Size 2	Interp.
		ATV630D15N4	380-480V 3PH AC, 20 Hp, 15 kW	Frame Size 3	Interp.
		ATV630D18N4	380-480V 3PH AC, 25 Hp, 18.5 kW	Frame Size 3	Interp.
		ATV630D22N4	380-480V 3PH AC, 30 Hp, 22 kW	Frame Size 3	Interp.
		ATV630D30N4	380-480V 3PH AC, 40 Hp, 30 kW	Frame Size 4	Interp.
		ATV630D37N4	380-480V 3PH AC, 50 Hp, 37 kW	Frame Size 4	Interp.
		ATV630D45N4	380-480V 3PH AC, 60 Hp, 45 kW	Frame Size 4	Interp.
ATV630D55N4	380-480V 3PH AC, 75 Hp, 55 kW	Frame Size 5	Interp.		

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# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>Table Description:</b> Base/Wall Mounted Electrical Components	<b>TABLE 5</b>
<b>Model Line:</b> FTxxx		

<b>Building Code:</b> CBC 2022, IBC 2021	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.0g$ $z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 3.2g$ $z/h = 0.0$	

Component Type	Manufacturer	Model	Description	Notes	UUT
Variable Frequency Drive (VFD)	Schneider	ATV630D75N4	380-480V 3PH AC, 100 Hp, 75 kW	Frame Size 5	Interp.
		ATV630D90N4	380-480V 3PH AC, 125 Hp, 90 kW	Frame Size 5	Interp.
		ATV630C11N4	380-480V 3PH AC, 150 Hp, 110 kW	Frame Size 6	Interp.
		ATV630C13N4	380-480V 3PH AC, 200 Hp, 132 kW	Frame Size 6	Interp.
		ATV630C16N4	380-480V 3PH AC, 250 Hp, 160 kW	Frame Size 6	Interp.
		ATV630C22N4	380-480V 3PH AC, 350 Hp, 220 kW	Frame Size 7A	Interp.
		ATV630C25N4	380-480V 3PH AC, 400 Hp, 250 kW	Frame Size 7B	Interp.
		ATV630C31N4	380-480V 3PH AC, 500 Hp, 315 kW	Frame Size 7B	18
		ATV630U55Y6	500-690V 3PH AC, 5 Hp, 4 kW	Frame Size 3Y	Interp.
		ATV630U75Y6	500-690V 3PH AC, 7.5 Hp, 5.5 kW	Frame Size 3Y	Interp.
		ATV630D11Y6	500-690V 3PH AC, 10 Hp, 7.5 kW	Frame Size 3Y	Interp.
		ATV630D15Y6	500-690V 3PH AC, 15 Hp, 11 kW	Frame Size 3Y	Interp.
		ATV630D18Y6	500-690V 3PH AC, 20 Hp, 15 kW	Frame Size 3Y	Interp.
		ATV630D22Y6	500-690V 3PH AC, 25 Hp, 18.5 kW	Frame Size 3Y	Interp.
		ATV630D30Y6	500-690V 3PH AC, 30 Hp, 22 kW	Frame Size 3Y	Interp.
		ATV630D37Y6	500-690V 3PH AC, 40 Hp, 30 kW	Frame Size 5Y	Interp.
		ATV630D45Y6	500-690V 3PH AC, 50 Hp, 37 kW	Frame Size 5Y	Interp.
		ATV630D55Y6	500-690V 3PH AC, 60 Hp, 45 kW	Frame Size 5Y	Interp.
		ATV630D75Y6	500-690V 3PH AC, 75 Hp, 55 kW	Frame Size 5Y	Interp.
		ATV630D90Y6	500-690V 3PH AC, 100 Hp, 75 kW	Frame Size 5Y	Interp.

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

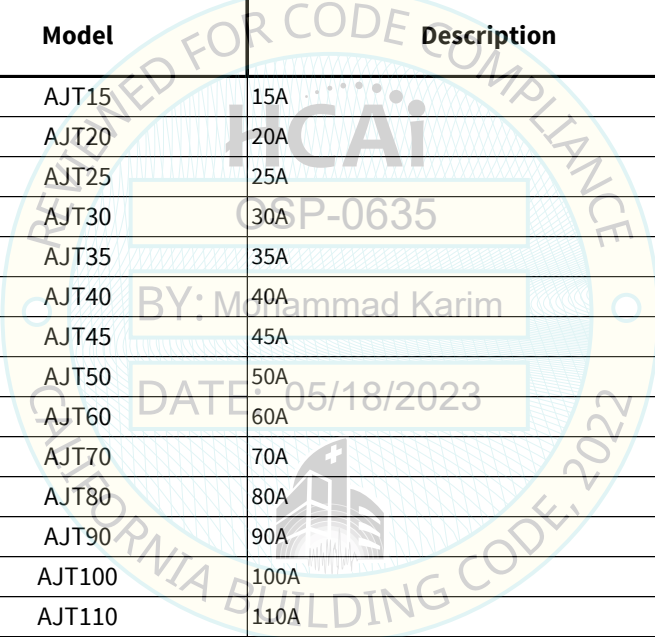
2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>Table Description:</b> Base/Wall Mounted Electrical Components	<b>TABLE 5</b>
<b>Model Line:</b> FTxxx		

<b>Building Code:</b> CBC 2022, IBC 2021	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.0 g$ $z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 3.2 g$ $z/h = 0.0$	

Component Type	Manufacturer	Model	Description	Notes	UUT
Fuse (Mersen Class J Time Delay Fuse 600V)	Schneider	AJT15	15A		Interp.
		AJT20	20A		Interp.
		AJT25	25A		17
		AJT30	30A		Interp.
		AJT35	35A		Interp.
		AJT40	40A		Interp.
		AJT45	45A		Interp.
		AJT50	50A		Interp.
		AJT60	60A		Interp.
		AJT70	70A		Interp.
		AJT80	80A		Interp.
		AJT90	90A		Interp.
		AJT100	100A		Interp.
		AJT110	110A		Interp.
		AJT150	150A		Interp.
		AJT175	175A		Interp.
		AJT200	200A		Interp.
		AJT250	250A		Interp.
AJT315	315A		Interp.		
AJT350	350A		Interp.		
AJT500	500A		Interp.		
AJT600	600A		18		



# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>Table Description:</b> Base/Wall Mounted Electrical Components	<b>TABLE 5</b>
<b>Model Line:</b> FTxxx		

**Building Code:** CBC 2022, IBC 2021      **Seismic Certification Limits:**  $S_{DS} = 2.0g$   $z/h = 1.0$        $I_p = 1.5$   
 $S_{DS} = 3.2g$   $z/h = 0.0$

Component Type	Manufacturer	Model	Description	Notes	UUT
Fuse Holders (Mersen Class J 600V)	Schneider	60308SJ	30A		17
		60608J	60A		Interp.
		61038J	100A		Interp.
		JM60100-3CR	100A		Interp.
		62003J	200A		Interp.
		JM60200-3R	200A		Interp.
		64033J	400A		Interp.
		64003J	400A		Interp.
		JM60400-3CR	400A		Interp.
		6663J	600A		Interp.
		6633J	600A		Interp.
JM60600-3CR	600A		18		

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc. <span style="float: right;"><b>Table Description:</b> Wall Mounted Electrical Components</span>		<b>TABLE 6</b>				
<b>Model Line:</b> FTAXXX						
<b>Building Code:</b> CBC 2022, IBC 2021		<b>Seismic Certification Limits:</b>		$S_{DS} = 2.0g \quad z/h = 1.0$ $S_{DS} = 3.2g \quad z/h = 0.0$		
				$I_p = 1.5$		
Component Type	Manufacturer	Model	Description	Notes	UUT	
Circuit Breakers	Lovato	P1MB1PD10	Miniature CB, 1 pole, D curve, 10A		10	
		P1MB1PB16	Miniature CB, 1 pole, B curve, 16A		10	
		P1MB1PC25	Miniature CB, 1 pole, C curve, 25A		10	
	3L3	MCPNK0025M1F	25A M1 Frame CB			23
		MCPNK0030M1F	30A M1 Frame CB			Interp.
		MCPNK0040M1F	40A M1 Frame CB			Interp.
		MCPNK0050M1F	50A M1 Frame CB			Interp.
		MCPNK0060M1F	60A M1 Frame CB			Interp.
		MCPNK0070M1F	70A M1 Frame CB			Interp.
		MCPNK0100M1F	100A M1 Frame CB			Interp.
		MCPNK0150M1F	150A M1 Frame CB			Interp.
		MCPNK0150M2F	150A M2 Frame CB			Interp.
		MCPNK0225M2F	225A M2 Frame CB			Interp.
		MCPNK0250M3F	250A M3 Frame CB			Interp.
		MCPNK0400M3F	400A M3 Frame CB			Interp.
		MCPNK0600M4F	600A M4 Frame CB			Interp.
		MCPNK0800M5F	800A M5 Frame CB			Interp.
		MCPNK1000M6F	1000A M6 Frame CB			Interp.
		MCPNK1200M6F	1200A M6 Frame CB			22
		Schneider	Multi 9	15A, 1 pole, curve C		
	MG-24506		10A			8
	MG-17406		15A			8
	BJL36100		100A			24

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2100139-CR-002-R2



Manufacturer: Firetrol Inc.		Table Description: Wall Mounted Electrical Components			TABLE 6	
Model Line: FTxxx						
Building Code: CBC 2022, IBC 2021		Seismic Certification Limits: $S_{DS} = 2.0g$ $z/h = 1.0$ $S_{DS} = 3.2g$ $z/h = 0.0$			$I_p = 1.5$	
Component Type	Manufacturer	Model	Description	Notes	UUT	
Circuit Breakers	Schneider	H(J/L/R)L36050M72	50A H Frame CB		21	
		H(J/L/R)L36100M73	100A H Frame CB		Interp.	
		H(J/L/R)L36150M74	150A H Frame CB		Interp.	
		J(J/L/R)L36250M75	250A J Frame CB		Interp.	
		L(J/L/R)L36400M37X	400A L Frame CB		Interp.	
		L(J/L/R)L36600M37X	600A L Frame CB		Interp.	
		P(J/L/R)L36080M68	800A P Frame CB		Interp.	
		P(J/L/R)L36100M69	1000A P Frame CB		Interp.	
		P(J/L/R)L36120U31A	1200A P Frame CB		20	
Switches	3L3	MMSNK00403PH-F	4A	Type F Manual Motor Starter	25	
	Katko	KU325N	25A		5	
		KU340N	40A		8	
		VKA3100N	100A		6	
	Lovato	GA025A	25A Disconnect Switch		10	
		GA040A	40A Disconnect Switch		Interp.	
		GA063A	63A Disconnect Switch		Interp.	
		GA080A	80A Disconnect Switch		10	
GAX7200		Disconnect Switch Handle		10		
Transformer	Transfab	DO 0025HC	25VA, 120/240-12/24V, 50/60Hz, 1PH		5	
		ET5874	3600:1		7	
		DL 8848FB	208/24V, 25VA, 50/60Hz.		7	
		DL 9316SB	208/240V, 24V, 50VA, 50/60Hz.		7	
		DL 9997SB	100VA, 208/240-24V, 50/60Hz		6	
Solenoid Valve	Granzow	1ASC025	12VDC		8, 10	

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc. <span style="float: right;"><b>Table Description:</b> Wall Mounted Electrical Components</span>		<b>TABLE 6</b>			
<b>Model Line:</b> FTxxx					
<b>Building Code:</b> CBC 2022, IBC 2021		<b>Seismic Certification Limits:</b>		$S_{DS} = 2.0g \quad z/h = 1.0$ $S_{DS} = 3.2g \quad z/h = 0.0$	
				$I_p = 1.5$	
Component Type	Manufacturer	Model	Description	Notes	UUT
Alarm Bell	Newsmart	1NEW002	24VDC, Ø150mm, red		10
Pressure Transducer	Telemecanique	XMLP600PPF13Q3	600PSI, 0.5-4.5V, 1/4" NPT		8, 10
Contactora	Schneider	LC1D65A	65A		24
Contact Block	Schneider	GV-AE11	1NO/1NC		5
	Siemens	3SB3400-0B	1 NO Contact, 10A		8, 10
HMI	Firetrol	2VIZ001	Programmable Logic Controller		7, 8
		VZASS0001	Programmable Logic Controller		10
		VZASS0002	Programmable Logic Controller	Same as VZASS0001	Interp.
		VZASS0005	Programmable Logic Controller		24, 25
Battery charger	Lovato	BCG1212	12V		10
		BCG1024	24V		8
I/O Board	Firetrol	2VIZ002/2VIZ102	I/O Board Electric		7
		2VIZ003/2VIZ103	I/O Board Transfer Switch		7
		2VIZ004/2VIZ104	I/O Board Diesel		8, 10
		2VIZ005/2VIZ105	I/O Board Expander		8, 10
EMC Filter	EPCOS/TDK	B84111F0000B110	1PH, 250V, 50/60Hz., 10A		8, 10
Heater	DBK	HP06-2-15-240	160W, 110-240V		8, 10
Thermostat	DBK	FGT100	0-60 °C, NC		8, 10
Humidistat	DBK	RFHSS-112	24V-230V, 50/60Hz., 40-90% rH		8, 10
Surge Arrester	Square D	SDSA 3650	40kA Surge Current Rating per Phase		7
Fuses	Ferraz Shawmut	GDL6/10	0.6A, 1/4"x1-1/4" Glass, 250V		5
		GDL1-1/4	1.25A, 1/4"x1-1/4" Glass, 250V		8, 10
	Bel Fuse	5ST8-R	8.0A, 5x20mm, 250VAC		8, 10

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# UNIT UNDER TEST (UUT) SUMMARY SHEET

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.								
<b>Model Line:</b> FTAxXX								
UUT	Unit Description (Mounting)	Report Number (UUT#)	Testing Lab	Year Tested	ISO 17025 Accredited?	S <sub>DS</sub>	z/h	I <sub>p</sub>
1	FTA1800AM400C + FTA950AM400C (Base/wall mounted - rigid)	13729 Rev.2 (UUT1)	Environmental Testing Lab (ETL)	2015	Yes	2.0 3.2	1.0 0.0	1.5
2	FTA1930AM300C (Base/wall mounted - rigid)	13729 Rev.2 (UUT2)	Environmental Testing Lab (ETL)	2015	Yes	2.0 3.2	1.0 0.0	1.5
3	FTA1350AM400C (Base/wall mounted - rigid)	13729 Rev.2 (UUT3)	Environmental Testing Lab (ETL)	2015	Yes	2.0 3.2	1.0 0.0	1.5
4	FTA1930AM60C (Base/wall mounted - rigid)	13729 Rev.2 (UUT4)	Environmental Testing Lab (ETL)	2015	Yes	2.0 3.2	1.0 0.0	1.5
5	FTA550-AA014D-TT (Wall mounted - rigid)	13729 Rev.2 (UUT5)	Environmental Testing Lab (ETL)	2015	Yes	2.0 3.2	1.0 0.0	1.5
6	FTA550-AA020A-TT (Wall mounted - rigid)	13729 Rev.2 (UUT6)	Environmental Testing Lab (ETL)	2015	Yes	2.0 3.2	1.0 0.0	1.5
7	FTA750-AD30H-TT + FTA976-AD150H-TT (Wall mounted - rigid)	13729 Rev.2 (UUT7)	Environmental Testing Lab (ETL)	2015	Yes	2.0 3.2	1.0 0.0	1.5
8	FTA1100-JL24N (Wall mounted - rigid)	13729 Rev.2 (UUT8)	Environmental Testing Lab (ETL)	2015	Yes	2.0 3.2	1.0 0.0	1.5
9	FTA1800AM400C + FTA950AM400C (Base/wall mounted - rigid)	JID 15-01258 (UUT9)	Clark Testing	2015	Yes	2.0 3.2	1.0 0.0	1.5
10	FTA1100-JL12N (Wall mounted - rigid)	JID 15-01258 (UUT10)	Clark Testing	2015	Yes	2.0 3.2	1.0 0.0	1.5
11	FTA1000AM60C + FTA950AM60C (Base/wall mounted - rigid)	14599 Rev.1 (UUT11)	Environmental Testing Lab (ETL)	2015	Yes	2.0 3.2	1.0 0.0	1.5
<b>Notes:</b>								

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc. <b>Model Line:</b> FTAXxx								
UUT	Unit Description (Mounting)	Report Number (UUT#)	Testing Lab	Year Tested	ISO 17025 Accredited?	S <sub>DS</sub>	z/h	I <sub>p</sub>
12	FTA1005AM400C + FTA950AM400C (Base/wall mounted - rigid)	14599 Rev.1 (UUT12)	Environmental Testing Lab (ETL)	2017	Yes	2.0 3.2	1.0 0.0	1.5
13	FTA1930AM5C (Base/wall mounted - rigid)	2100139-TR-001 (UUT1)	Environmental Testing Lab (ETL)	2021	Yes	2.0 3.2	1.0 0.0	1.5
14	FTA1930AM500C (Base/wall mounted - rigid)	2100139-TR-001 (UUT2)	Environmental Testing Lab (ETL)	2021	Yes	2.0 3.2	1.0 0.0	1.5
15	FTA1930AM5C (Base/wall mounted - rigid)	2100139-TR-001 (UUT3)	Environmental Testing Lab (ETL)	2021	Yes	2.0 3.2	1.0 0.0	1.5
16	FTA1930AM250C (Base/wall mounted - rigid)	2100139-TR-001 (UUT4)	Environmental Testing Lab (ETL)	2021	Yes	2.0 3.2	1.0 0.0	1.5
17	FTA3100S-AM05HH-TSA (Base/wall mounted - rigid)	2101253-TR-001 (UUT17)	Environmental Testing Lab (ETL)	2022	Yes	2.0 3.2	1.0 0.0	1.5
18	FTA3130S-AM450B (Base/wall mounted - rigid)	2101253-TR-001 (UUT18)	Environmental Testing Lab (ETL)	2022	Yes	2.0 3.2	1.0 0.0	1.5
19	FTA1000-AM400A-TSA (Base/wall mounted - rigid)	2101253-TR-001 (UUT19)	Environmental Testing Lab (ETL)	2022	Yes	2.0 3.2	1.0 0.0	1.5
20	FTA990-M350B (Schneider CB) (Wall mounted - rigid)	2101253-TR-001 (UUT20)	Environmental Testing Lab (ETL)	2022	Yes	2.0 3.2	1.0 0.0	1.5
21	FTA990-M05B (Schneider CB) (Wall mounted - rigid)	2101253-TR-001 (UUT21)	Environmental Testing Lab (ETL)	2022	Yes	2.0 3.2	1.0 0.0	1.5
22	FTA990-M350B (3L3 CB) (Wall mounted - rigid)	2101253-TR-001 (UUT22)	Environmental Testing Lab (ETL)	2022	Yes	2.0 3.2	1.0 0.0	1.5
<b>Notes:</b>								



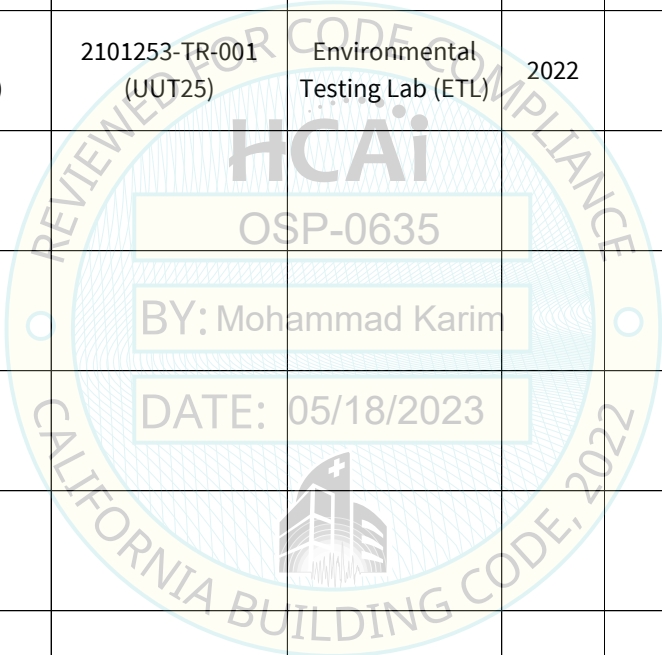
**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**

**2100139-CR-002-R2**



**Manufacturer:** Firetrol Inc.  
**Model Line:** FTAXXX

UUT	Unit Description (Mounting)	Report Number (UUT#)	Testing Lab	Year Tested	ISO 17025 Accredited?	S <sub>DS</sub>	z/h	I <sub>P</sub>
23	FTA990-M05B (3L3 CB) (Wall mounted - rigid)	2101253-TR-001 (UUT23)	Environmental Testing Lab (ETL)	2022	Yes	2.0 3.2	1.0 0.0	1.5
24	FTA570E-AA040B (Wall mounted - rigid)	2101253-TR-001 (UUT24)	Environmental Testing Lab (ETL)	2022	Yes	2.0 3.2	1.0 0.0	1.5
25	FTA570F-AG002B (Wall mounted - rigid)	2101253-TR-001 (UUT25)	Environmental Testing Lab (ETL)	2022	Yes	2.0 3.2	1.0 0.0	1.5



**Notes:**

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>UUT 1</b>
<b>Model Line:</b> FTAXxx	
<b>Model Number:</b> FTA1800AM400C + FTA950AM400C	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> 13729 Rev.2 (UUT1)	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1,210	18.0	60.0	68.0	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

<b>Product Construction Summary:</b> Painted 14 ga. Carbon Steel Enclosure (2BOX103D/2BOX203D)	<b>Test Mounting Details:</b>
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Options/Subcomponent Summary:		
Description	Mfr.	Part Number
Alarm Bell	Newsmart	1NEW001
Breaker	Siemens	MCP 600A
Contactors	Siemens	3RT105, 3RT106, 3RT107, 3RH1921-1FA22
Control Relay	Siemens	3RH1122-1AB00
Fan	Orion	0A172SAP-11-1TB
HMI	Firetrol	2VIZ001
I/O Board	Firetrol	2VIZ002/2VIZ102, 2VIZ003/2VIZ103
Pressure Transducer	Telemecanique	XMLP600PPF13Q3
Resistor	Huntington Vishay	ALSR5F-5-1.0-1%
Shunt Trip	Siemens	S17JLD6
Solenoid Valve	Granzow	1ASC024
Surge Arrester	Square D	SDSA 3650
Switches	Firetrol	TSP600
	Saia-Burgess	XGG6-88-P27Z1
Switch Contact Block	Siemens	MCS 600A, A01JLD64, 3VL9400-2AB01
	Siemens	3SB3400-0B
Transformer	Rex Mfg.	RS400J
	Transfab	EXS114340, ET5841, DL8849QB, DL8882QB



UUT1 was Base and Wall mounted - rigid.  
 Base: Four (4) 7/16" Grade 5 bolts and washers.  
 Wall: Two (2) 3/8" Grade 5 bolts and washers,  
 Wall Bracket to Cabinet: Two (2) M10-1.5mm Grade 8.8 bolts and washers. Manufacturer provided two (2) top brackets (p/n: 885 ESMF1)  
 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

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>UUT 2</b>
<b>Model Line:</b> FTAXxx	
<b>Model Number:</b> FTA1930AM300C	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> 13729 Rev.2 (UUT2)	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
453	18.0	36.0	68.0	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Product Construction Summary:			Test Mounting Details:	
Painted 14 ga. Carbon Steel Enclosure (2BOX103B/2BOX203B)				
Options/Subcomponent Summary:				
Description	Mfr.	Part Number	 <p>UUT2 was Base and Wall mounted - rigid.                      Base: Four (4) 7/16" Grade 5 bolts and washers.                      Wall: Two (2) 3/8" Grade 5 bolts and washers.                      Wall Bracket to Cabinet: Two (2) M10-1.5mm Grade 8.8 bolts and washers. Manufacturer provided two (2) top brackets (p/n: 885 ESMF1)                      Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.</p>	
Alarm Bell	Newsmart	1NEW001		
Circuit Breaker	Siemens	MCP 400A		
Contactors	Siemens	3RT106		
Control Relay	Siemens	3RH1122-1AB00		
Heater	DBK	HP06-2-15-240		
HMI	Firetrol	2VIZ001		
Humidistat	DBK	RFHSS-112		
I/O Board	Firetrol	2VIZ002/2VIZ102, 2VIZ005/2VIZ105		
Pressure Transducer	Telemecanique	XMLP600PPF13Q3		
Resistor	Huntington Vishay	ALSR5F-5-1.0-1%		
Shunt Trip	Siemens	3VL9400-1SC01		
Soft-Starter	Siemens	3RW4075		
Solenoid Valve	Granzow	1ASC024		
Surge Arrester	Square D	SDSA 3650		
Switches	Siemens	MCS 400A		
Switch Contact Block	Siemens	3SB3400-0B		
Thermostat	DBK	FGT100		
Transformer	Marcus Transformer	MTC250-39		
	Transfab	EXS114340, ET5841		
Trip Module	Firetrol	2PLA048		

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>UUT 3</b>
<b>Model Line:</b> FTAXxx	
<b>Model Number:</b> FTA1350AM400C	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> 13729 Rev.2 (UUT3)	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
510	18.0	36.0	68.0	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Product Construction Summary:			Test Mounting Details:	
Painted 14 ga. Carbon Steel Enclosure (2BOX103B/2BOX203B)				
Options/Subcomponent Summary:				
Description	Mfr.	Part Number	 <p>UUT3 was Base and Wall mounted - rigid.                      Base: Four (4) 7/16" Grade 5 bolts and washers                      Wall: Two (2) 3/8" Grade 5 bolts and washers,                      Wall Bracket to Cabinet: Two (2) M10-1.5mm Grade 8.8 bolts and washers. Manufacturer provided two (2) top brackets (p/n: 885 ESMF1)                      Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.</p>	
Alarm Bell	Newsmart	1NEW001		
Circuit Breaker	Siemens	MCP 400A		
Contactor	Siemens	3RT105, 3RT106, 3RH1921-1FC22		
Control Relay	Siemens	3RH1122-1AB00		
HMI	Firetrol	2VIZ001		
I/O Board	Firetrol	2VIZ002/2VIZ102		
Pressure Transducer	Telemecanique	XMLP600PPF13Q3		
Resistor	Huntington Vishay	ALSR5F-5-1.0-1%		
	I-Gard Corp.	TR-600-400		
Shunt Trip	Siemens	S17JLD6		
Solenoid Valve	Granzow	1ASC024		
Surge Arrester	Square D	SDSA 3650		
Switches	Saia-Burgess	XGG6-88-P27Z1		
	Siemens	MCS 600A		
Switch Contact Block	Siemens	3SB3400-0B		
Transformer	Transfab	ET5841		

# UNIT UNDER TEST (UUT) SUMMARY SHEET



2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>UUT 4</b>
<b>Model Line:</b> FTAXxx	
<b>Model Number:</b> FTA1930AM60C	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> 13729 Rev.2 (UUT4)	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
189	12.0	26.0	48.0	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Product Construction Summary:			Test Mounting Details:		
Painted 16 ga. Carbon Steel Enclosure (2BOX101B/2BOX201B)					
Options/Subcomponent Summary:					
Description	Mfr.	Part Number	 <p>UUT4 was Base and Wall mounted - rigid.                      Base: Four (4) 7/16" Grade 5 bolts and washers                      Wall: Two (2) 3/8" Grade 5 bolts and washers,                      Wall Bracket to Cabinet: Two (2) M10-1.5mm Grade 8.8 bolts and washers. Manufacturer provided two (2) top brackets (p/n: 885 ESMF1)                      Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.</p>		
Alarm Bell	Newsmart	1NEW001			
Circuit Breaker	Siemens	MCP 100A, MCP 600A			
Contactors	Siemens	3RT104, 3RH1921-1DA11			
Control Relay	Siemens	3RH1122-1AB00			
HMI	Firetrol	2VIZ001			
I/O Board	Firetrol	2VIZ002/2VIZ102			
Pressure Transducer	Telemecanique	XMLP600PPF13Q3			
Resistor	Huntington Vishay	ALSR5F-5-1.0-1%			
Soft-Starter	Siemens	3RW4427			
Solenoid Valve	Granzow	1ASC024			
Surge Arrester	Square D	SDSA 3650			
Switches	Siemens	MCS100A, 3VL9400-2AB01			
Switch Contact Block	Siemens	3SB3400-0B			
Transformer	Transfab	ET5874, DL8882QB			
	Marcus Transformer	MTC250-39			
Trip Module	Firetrol	2PLA048			

# UNIT UNDER TEST (UUT) SUMMARY SHEET



2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>UUT 5</b>
<b>Model Line:</b> FTAXxx	
<b>Model Number:</b> FTA550-AA014D-TT	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> 13729 Rev.2 (UUT5)	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
20	6.0	10.0	12.0	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Product Construction Summary:			Test Mounting Details:		
Painted 16 ga. Carbon Steel Enclosure (2BOX13A)					
Options/Subcomponent Summary:					
Description	Mfr.	Part Number			
Circuit Breaker	Telemecanique	GV2-ME10			
Contactors	Telemecanique	LC1D09B7			
Contact Block	Schneider	GV-AE11			
Fuses	Ferraz Shawmut	GDL6/10			
Pressure Transducer	Telemecanique	XMLP600PPF13Q3			
Switches	Katko	KU325N			
Transformers	Transfab	DO 0025HC			
<p>UUT5 wall mounted - rigid using four (4) 1/4" Grade 8 bolts and washers</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>					

# UNIT UNDER TEST (UUT) SUMMARY SHEET



2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>UUT 6</b>
<b>Model Line:</b> FTAXxx	
<b>Model Number:</b> FTA550-AA020A-TT	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> 13729 Rev.2 (UUT6)	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
38	7.0	16.0	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Product Construction Summary:			Test Mounting Details:					
Painted 16 ga. Carbon Steel Enclosure (2BOX13C)								
Options/Subcomponent Summary:								
Description	Mfr.	Part Number						
Circuit Board	Firetrol	2IPD005						
Circuit Breaker	Telemecanique	GV3P65						
Contactora	Telemecanique	LC1D65B7						
Pressure Transducer	Telemecanique	XMLP600PPF13Q3						
Switches	Katko	VKA3100N						
Transformers	Transfab	DL 9997SB						
			UUT6 wall mounted - rigid using four (4) 1/4" Grade 8 bolts and washers					
			Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.					

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>UUT 7</b>
<b>Model Line:</b> FTAXxx	
<b>Model Number:</b> FTA750-AD30H-TT + FTA976-AD150H-TT	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> 13729 Rev.2 (UUT7)	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
140	8.0	40.0	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

<b>Product Construction Summary:</b> Painted 16 ga. Carbon Steel Enclosure (2BOX08A x2)	<b>Test Mounting Details:</b>
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Options/Subcomponent Summary:		
Description	Mfr.	Part Number
Actuator Motor	Hiwin	LAS-2-I-100-24G
Battery	Firetrol	1VIZ001
Circuit Breaker	Cutler Hammer	ED3150L
	Siemens	ED63B125
Contactor	Telemecanique	LC1F115
Control Relay	Siemens	3RH1122-1AB00
HMI	Firetrol	2VIZ001
I/O Board	Firetrol	2VIZ002/2VIZ102, 2VIZ003/2VIZ103
Pressure Transducer	Telemecanique	XMLP600PPF13Q3
Resistor	Huntington Vishay	ALSR5F-5-1.0-1%
Surge Arrester	Square D	SDSA 3650
Switches	Firetrol	TSP150
	Saia-Burgess	XGG6-88-P27Z1
	Siemens	3VL9400-2AB01, MCS 150A
Transformer	Transfab	ET5874, DL 8848FB, DL 9316SB



UUT7 wall mounted - rigid using four (4) 1/4" Grade 8 bolts and washers  
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



# UNIT UNDER TEST (UUT) SUMMARY SHEET

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>UUT 8</b>
<b>Model Line:</b> FTAXxx	
<b>Model Number:</b> FTA1100-JL24N	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> 13729 Rev.2 (UUT8)	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
73	8.0	23.6	27.5	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85	
		3.2	0.0						

Product Construction Summary:			Test Mounting Details:	
Painted 16 ga. Carbon Steel Enclosure (2BOX11A)				
Options/Subcomponent Summary:				
Description	Mfr.	Part Number		
Alarm Bell	Newsmart	1NEW002		
Battery Charger	Lovato	BCG1024		
Circuit Breaker	Schneider	Multi 9, MG-24506, MG-17406		
Contact Block	Siemens	3SB3400-0B		
EMC Filter	EPCOS/TDK	B84111F0000B110		
Fuses	Bel Fuse	5ST8-R		
	Ferraz Shawmut	GDL1-1/4		
Heater	DBK	HP06-2-15-240		
HMI	Firetrol	2VIZ001		
Humidistat	DBK	RFHSS-112		
I/O Board	Firetrol	2VIZ004/2VIZ104, 2VIZ005/2VIZ105		
Pressure Transducer	Telemecanique	XMLP600PPF13Q3		
Solenoid Valve	Granzow	1ASC025		
Switches	Katko	KU325N		
Thermostat	DBK	FGT100		
			<p>UUT8 wall mounted - rigid using four (4) 1/4" Grade 8 bolts and washers</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>	

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>UUT 9</b>
<b>Model Line:</b> FTAXxx	
<b>Model Number:</b> FTA1800AM400C + FTA950AM400C	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> JID 15-01258 (UUT9)	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1,003	18.0	72.0	68.0	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85	
		3.2	0.0						

Product Construction Summary:			Test Mounting Details:						
Painted 14 ga. Stainless Steel Enclosure (2BOX103G/2BOX203G)									
Options/Subcomponent Summary:									
Description	Mfr.	Part Number	 <p>UUT 9 was Base and Wall mounted - rigid                      Base: Four (4) 7/16" Grade 5 bolts and lock washers                      Wall: Two (2) 3/8" Grade 5 bolts and lock washers                      Wall Bracket to Cabinet: Two (2) M10-1.5mm Grade 8.8 bolts and washers. Manufacturer provided two (2) top brackets (p/n: 885 ESMF1)                      Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.</p>						
Alarm Bell	Newsmart	1NEW001							
Contactors	Siemens	3RT106, 3RT107, 3RH1921-1FA22							
Control Relay	Siemens	3RH1122-1AB00							
Fan	Orion	0A172SAP-11-1TB							
HMI	Firetrol	VZASS0002							
I/O Board	Firetrol	2VIZ002/2VIZ102, 2VIZ003/2VIZ103, 2VIZ005/2VIZ105							
Pressure Transducer	Telemecanique	XMLP600PPF13Q3							
Resistor	Huntington Vishay	ALSR5F-5-1.0-1%							
	I-Gard Corp.	TR-600-75							
Shunt Trip	Siemens	S17JLD6							
Solenoid Valve	Granzow	1ASC024							
Switches	Firetrol	TSP150							
	Saia-Burgess	XGG6-88-P27Z1							
	Siemens	MCS 600A, A01JLD64							
Switch Contact Block	Siemens	3SB3400-0B							
Transformer	Rex Mfg.	RS75J							
	Transfab	EXS114340, ET5841, DL 8849QB, DL 8882QB							

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>UUT 10</b>
<b>Model Line:</b> FTAXxx	
<b>Model Number:</b> FTA1100-JL12N	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> JID 15-01258 (UUT10)	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
132	8.0	30.0	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Product Construction Summary:			Test Mounting Details:
Painted 16 ga. Stainless Steel Enclosure (2BOX11D)			
Options/Subcomponent Summary:			
Description	Mfr.	Part Number	
Alarm Bell	Newsmart	1NEW002	
Battery Charger	Lovato	BCG1212	
Circuit Breaker	Schneider	P1MB1PD10, P1MB1PB16, P1MB1PC25	
Contact Block	Siemens	3SB3400-0B	
EMC Filter	EPCOS/TDK	B84111F0000B110	
Fuses	Bel Fuse	5ST8-R	
	Ferraz Shawmut	GDL1-1/4	
Heater	DBK	HP06-2-15-240	
HMI	Firetrol	VZASS0002	
Humidistat	DBK	RFHSS-112	
I/O Board	Firetrol	2VIZ004/2VIZ104, 2VIZ005/2VIZ105	
Pressure Transducer	Telemecanique	XMLP600PPF13Q3	
Solenoid Valve	Granzow	1ASC025	
Switches	Katko	GA025A, GA080A, GAX7200, VKA3100N	
Thermostat	DBK	FGT100	
			UUT10 wall mounted - rigid using four (4) 3/8-14" Grade 5 bolts and lock washers
			Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>UUT 11</b>
<b>Model Line:</b> FTAXxx	
<b>Model Number:</b> FTA1000AM60C + FTA950AM60C	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> 14599 Rev.1 (UUT11)	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
229	12.0	36.0	48.0	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85	
		3.2	0.0						

<b>Product Construction Summary:</b> Painted 16 ga. Stainless Steel Enclosure (2BOX101C/2BOX201C)	<b>Test Mounting Details:</b>
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Options/Subcomponent Summary:		
Description	Mfr.	Part Number
3-Way Valve	Granzow	1ASC028
Alarm Bell	Newsmart	1NEW002
Auxiliary Contact	Socomec	1SOC011
Circuit Breaker	Schneider	HJL36150M74
Contactor	Schneider	LC1D25
	Siemens	3RT1016-1BB41, 3RA1912-2H
Contactor Replacement Parts	Siemens	3RT202
HMI	Firetrol	VZASS0002
I/O Board	Firetrol	2VIZ002/2VIZ102, 2VIZ003/2VIZ103
Switches	Schneider	HGL36000S15
	Socomec	97233010, TSWTOR100
Transformer	Transfab	DL 150VA 380/400/ 415-240V



UUT11 was Base and Wall mounted - rigid.  
 Base: Four (4) 7/16" Grade 5 bolts and washers  
 Wall: Two (2) 3/8" Grade 5 bolts and washers  
 Wall Bracket to Cabinet: Two (2) M10-1.5mm Grade 8.8 bolts and washers. Manufacturer provided two (2) top brackets (p/n: 885 ESMF1)  
 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

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>UUT 12</b>
<b>Model Line:</b> FTAXxx	
<b>Model Number:</b> FTA1005AM400C + FTA950AM400C	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> 14599 Rev.1 (UUT12)	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
955	18.0	72.0	68.0	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85	
		3.2	0.0						

<b>Product Construction Summary:</b> Painted 16 ga. Stainless Steel Enclosure (2BOX103G/2BOX203G)	<b>Test Mounting Details:</b>
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Options/Subcomponent Summary:		
Description	Mfr.	Part Number
3-Way Valve	Granzow	1ASC031
Auxiliary Contact	Socomec	1SOC011
Circuit Breaker	Schneider	PJL36080M68
Contactor	Schneider	LC1F800
	Siemens	3RT1016-1BB41, 3RA1912-2H
Contactor Replacement Parts	Siemens	3RT203
HMI	Firetrol	VZASS0002
I/O Board	Firetrol	2VIZ002/2VIZ102, 2VIZ003/2VIZ103
Switches	Schneider	PJL36000S80
	Socomec	97233080, TSWTOR800
Transformer	Transfab	DL 200VA 600-240V



UUT12 was Base and Wall mounted - rigid.  
 Base: Four (4) 7/16" Grade 5 bolts and washers  
 Wall: Two (2) 3/8" Grade 5 bolts and washers  
 Wall Bracket to Cabinet: Two (2) M10-1.5mm Grade 8.8 bolts and washers. Manufacturer provided two (2) top brackets (p/n: 885 ESMF1)  
 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

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>UUT 13</b>
<b>Model Line:</b> FTAXxx	
<b>Model Number:</b> FTA1930AM5C	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> 2100139-TR-001 (UUT1)	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
158	12.0	26.0	48.0	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

<b>Product Construction Summary:</b> Painted 16 ga. Carbon Steel Enclosure (2BOX101B/2BOX201B)	<b>Test Mounting Details:</b>
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Options/Subcomponent Summary:		
Description	Mfr.	Part Number
Alarm Bell	Newsmart	1NEW001
Circuit Breaker	Schneider	HJL36050M72
Contactor	Schneider	LC1D40
Control Relay	Siemens	3RH1122-1AB00
HMI	Firetrol	VZASS0002
I/O Board	Firetrol	2VIZ002/2VIZ102
Pressure Transducer	Telemecanique	XMLP600PPF13Q3
Resistor	Huntington Vishay	ALSR5F-5-1.0-1%
Soft-Starter	Schneider	ATS22D17S6U
Solenoid Valve	Granzow	1ASC024
Surge Arrester	Citel	DS44US-480D
Switches	Schneider	HGL36000S15
Switch Contact Block	Siemens	3SB2400-0B
Transformer	Marcus Transformer	MTC250-39
	Transfab	ET5874, DL8882QB



UUT13 was Base and Wall mounted - rigid.  
 Base: Four (4) 7/16" Grade 5 bolts and washers  
 Wall: Two (2) 3/8" Grade 5 bolts and washers  
 Wall Bracket to Cabinet: Two (2) M10-1.5mm Grade 8.8 bolts and washers. Manufacturer provided two (2) top brackets (p/n: 885 ESMF1)  
 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

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>UUT 14</b>
<b>Model Line:</b> FTAXxx	
<b>Model Number:</b> FTA1930AM500C	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> 2100139-TR-001 (UUT2)	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
769	18.0	60.0	68.0	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85	
		3.2	0.0						

Product Construction Summary:	Test Mounting Details:
Painted 16 ga. Carbon Steel Enclosure (2BOX103D/2BOX203D)	

Options/Subcomponent Summary:		
Description	Mfr.	Part Number
Alarm Bell	Newsmart	1NEW001
Circuit Breaker	Schneider	PJL36080M68
Contactor	Schneider	LC1F630
Control Relay	Siemens	3RH1122-1AB00
Heater	DBK	HP06-2-15-240
HMI	Firetrol	VZASS0002
Humidistat	DBK	RFHSS-112
I/O Board	Firetrol	2VIZ002/2VIZ102, 2VIZ005/2VIZ105
Pressure Transducer	Telemecanique	XMLP600PPF13Q3
Resistor	Huntington Vishay	ALSR5F-5-1.0-1%
Soft-Starter	Schneider	ATS48C66Y/ATS480C66Y
Solenoid Valve	Granzow	1ASC024
Surge Arrester	Citel	DS44US-480D
Switches	Schneider	PJL36000S80
Switch Contact Block	Siemens	3SB3400-0B
Thermostat	DBK	FGT100
Transformer	Marcus Transformer	MTC250-39
	Transfab	EXS114340, ET5841
Trip Module	Firetrol	2PLA048



UUT14 was Base and Wall mounted - rigid.  
 Base: Four (4) 7/16" Grade 5 bolts and washers  
 Wall: Two (2) 3/8" Grade 5 bolts and washers  
 Wall Bracket to Cabinet: Two (2) M10-1.5mm Grade 8.8 bolts and washers. Manufacturer provided two (2) top brackets (p/n: 885 ESMF1)  
 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

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>UUT 15</b>
<b>Model Line:</b> FTAXxx	
<b>Model Number:</b> FTA1930AM5C	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> 2100139-TR-001 (UUT3)	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
153	12.0	26.0	48.0	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85	
		3.2	0.0						

Product Construction Summary:			Test Mounting Details:
Painted 16 ga. Carbon Steel Enclosure (2BOX101B/2BOX201B)			
Options/Subcomponent Summary:			
Description	Mfr.	Part Number	
Alarm Bell	Newsmart	1NEW001	
Circuit Breaker	Schneider	HJL36050M72	
Contactors	Schneider	LC1D40	
Control Relay	Siemens	3RH1122-1AB00	
HMI	Firetrol	VZASS0002	
I/O Board	Firetrol	2VIZ002/2VIZ102	
Pressure Transducer	Telemecanique	XMLP600PPF13Q3	
Resistor	Huntington Vishay	ALSR5F-5-1.0-1%	
Soft-Starter	Lovato	ADXL 0030 600	
Solenoid Valve	Granzow	1ASC024	
Surge Arrester	Citel	DS44US-480D	
Switches	Schneider	HGL36000S15	
Switch Contact Block	Siemens	3SB3400-0B	
Transformer	Marcus Transformer	MTC250-39	
	Transfab	ET5874, DL8882QB	
			<p>UUT15 was Base and Wall mounted - rigid.            Base: Four (4) 7/16" Grade 5 bolts and washers            Wall: Two (2) 3/8" Grade 5 bolts and washers            Wall Bracket to Cabinet: Two (2) M10-1.5mm Grade 8.8 bolts and washers. Manufacturer provided two (2) top brackets (p/n: 885 ESMF1)            Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.</p>



# UNIT UNDER TEST (UUT) SUMMARY SHEET

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>UUT 16</b>
<b>Model Line:</b> FTAXxx	
<b>Model Number:</b> FTA1930AM250C	
<b>Serial Number:</b> N/A	
<b>Test Report:</b> 2100139-TR-001 (UUT4)	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
409	18.0	36.0	68.0	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85	
		3.2	0.0						

<b>Product Construction Summary:</b> Painted 16 ga. Carbon Steel Enclosure (2BOX103B/2BOX203B)	<b>Test Mounting Details:</b>
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Options/Subcomponent Summary:		
Description	Mfr.	Part Number
Alarm Bell	Newsmart	1NEW001
Circuit Breaker	Schneider	LJL36400M37X
Contactor	Schneider	LC1F400
Control Relay	Siemens	3RH1122-1AB00
Heater	DBK	HP06-2-15-240
HMI	Firetrol	VZASS0002
Humidistat	DBK	RFHSS-112
I/O Board	Firetrol	2VIZ002/2VIZ102, 2VIZ005/2VIZ105
Pressure Transducer	Telemecanique	XMLP600PPF13Q3
Resistor	Huntington Vishay	ALSR5F-5-1.0-1%
Soft-Starter	Lovato	ADXL 0320 600
Solenoid Valve	Granzow	1ASC024
Surge Arrester	Citel	DS44US-480D
Switches	Schneider	LGL36000S40X
Switch Contact Block	Siemens	3SB3400-0B
Thermostat	DBK	FGT100
Transformer	Marcus Transformer	MTC250-39
	Transfab	EXS114340, ET5841



UUT16 was Base and Wall mounted - rigid.  
 Base: Four (4) 7/16" Grade 5 bolts and washers  
 Wall: Two (2) 3/8" Grade 5 bolts and washers  
 Wall Bracket to Cabinet: Two (2) M10-1.5mm Grade 8.8 bolts and washers. Manufacturer provided two (2) top brackets (p/n: 885 ESMF1)  
 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

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>UUT 17</b>
<b>Model Line:</b> FTAXxx	
<b>Model Number:</b> FTA3100S-AM05HH-TSA (Tornatech: VPA+VPU-200/5/3/60)	
<b>Serial Number:</b> WZ1264790	
<b>Test Report:</b> 2101253-TR-001 (UUT17)	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
375	12.0	68.0	48.0	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85	
		3.2	0.0						

<b>Product Construction Summary:</b> Painted 16 ga. Carbon Steel Enclosure (2BOX201D+ENENC0007)	<b>Test Mounting Details:</b>
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Options/Subcomponent Summary:		
Description	Mfr.	Part Number
Circuit Breaker	3L3	MCPNK0015M1F
Contactor	3L3	CONNK0009
Fan	Rittal	3241.100
Fuse	Schneider	AJT25
Fuse Holders	Schneider	60308SJ
HMI	Firetrol	VZASS0003
I/O Board	Firetrol	2VIZ002/2VIZ102, 2VIZ003/2VIZ103, 2VIZ005/2VIZ105
Line Reactor	Transfab TMS	KDRB26H
Switches	3L3	MCSNK0100M1F
VFD	Schneider	ATV630U40M3



UUT17 was Base and Wall mounted - rigid.  
 Base: Six (6) 3/8" Grade 5 bolts and washers.  
 Wall: Two (2) 3/8" Grade 5 bolts and washers.  
 Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>UUT 18</b>
<b>Model Line:</b> FTAXxx	
<b>Model Number:</b> FTA3130S-AM450B (Tornatech: VPS-480/450/3/60)	
<b>Serial Number:</b> WZ1264791	
<b>Test Report:</b> 2101253-TR-001 (UUT18)	

**UUT Properties**

Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
2,181	30.0	107.0	75.0	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

<b>Product Construction Summary:</b> Painted 16 ga. Carbon Steel Enclosure (ENENC0003+ENENC0005+ENENOC0006)	<b>Test Mounting Details:</b>
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**Options/Subcomponent Summary:**

Description	Mfr.	Part Number
Fan	Rittal	3244.100, 3140.100, 3243.200
Fuse	Schneider	AJT600
Fuse Holders	Schneider	JM60600-3CR
HMI	Firetrol	VZASS0002
I/O Board	Firetrol	2VIZ002/2VIZ102, 2VIZ005/2VIZ105
Line Reactor	Transfab TMS	KDRL5H
Soft-Starter	Schneider	ATS22C59S6U
VFD	Schneider	ATV630C31N4



UUT18 was Base and Wall mounted - rigid.  
 Base: Four (4) 3/8" Grade 5 bolts and washers.  
 Wall: Three (3) 3/8" Grade 5 bolts and washers.  
 Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>UUT 19</b>
<b>Model Line:</b> FTAXxx	
<b>Model Number:</b> FTA1000-AM400A-TSA (Tornatech: GPA+GPU-230/400/3/60)	
<b>Serial Number:</b> WZ1244958	
<b>Test Report:</b> 2101253-TR-001 (UUT19)	

**UUT Properties**

Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1,130	20.0	80.0	75.0	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

**Product Construction Summary:** Painted 16 ga. Stainless Steel Enclosure (ENENC0004)

**Test Mounting Details:**

Options/Subcomponent Summary:

Description	Mfr.	Part Number
Circuit Breaker	3L3	MCPNK1200M6F
	Schneider	PJL36120M70
Contactors	3L3	CONNK1000
HMI	Firetrol	VZASS0003
I/O Board	Firetrol	2VIZ002/2VIZ102, 2VIZ003/2VIZ103
Switches	3L3	MCSNK1200M6F
	Schneider	PJL36000S12
	Socomec	97233120



UUT19 was Base and Wall mounted - rigid.  
 Base: Four (4) 3/8" Grade 5 bolts and washers.  
 Wall: Two (2) 3/8" Grade 5 bolts and washers.  
 Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>UUT 20</b>
<b>Model Line:</b> FTAxxx	
<b>Model Number:</b> FTA990-M350B (Schneider CB) (Tornatech: OPD-480/350/3/60)	
<b>Serial Number:</b> WZ1244955	
<b>Test Report:</b> 2101253-TR-001 (UUT20)	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
120	12.5	18.0	42.0	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85	
		3.2	0.0						

Product Construction Summary:			Test Mounting Details:						
Painted 16 ga. Carbon Steel Enclosure (ENENC0015)									
Options/Subcomponent Summary:									
Description	Mfr.	Part Number							
Circuit Breakers	Schneider	P(J/L/R)L36120U31A							
UUT20 was wall - mounted rigid using four (4) 3/8" Grade 5 bolts and washers.									
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.									

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>UUT 21</b>
<b>Model Line:</b> FTAXxx	
<b>Model Number:</b> FTA990-M05B (Schneider CB) (Tornatech: OPD-480/5/3/60)	
<b>Serial Number:</b> WZ1244953	
<b>Test Report:</b> 2101253-TR-001 (UUT21)	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
38	11.0	12.0	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85
		3.2	0.0					

Product Construction Summary:			Test Mounting Details:		
Painted 16 ga. Carbon Steel Enclosure (2BOX16A)			<p>UUT21 was wall - mounted rigid using four (4) 3/8" Grade 5 bolts and washers. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.</p>		
Options/Subcomponent Summary:					
Description	Mfr.	Part Number			
Circuit Breakers	Schneider	H(J/L/R)L36050M72			

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2100139-CR-002-R2



**UUT 22**

<b>Manufacturer:</b> Firetrol Inc.	<b>Test Report:</b> 2101253-TR-001 (UUT22)
<b>Model Line:</b> FTAXxx	
<b>Model Number:</b> FTA990-M350B (3L3 CB) (Tornatech: OPD-480/350/3/60)	
<b>Serial Number:</b> WZ1244956	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
129	12.5	18.0	42.0	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85	
		3.2	0.0						

<b>Product Construction Summary:</b>	<b>Test Mounting Details:</b>
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Painted 16 ga. Carbon Steel Enclosure (ENENC0015)		
<b>Options/Subcomponent Summary:</b>		
Description	Mfr.	Part Number
Circuit Breakers	3L3	MCPNK1200M6F



UUT22 was wall - mounted rigid using four (4) 3/8" Grade 5 bolts and washers.  
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>UUT 23</b>
<b>Model Line:</b> FTAXxx	
<b>Model Number:</b> FTA990-M05B (3L3 CB) (Tornatech: OPD-480/5/3/60)	
<b>Serial Number:</b> WZ1244954	
<b>Test Report:</b> 2101253-TR-001 (UUT23)	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
36	11.0	12.0	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85	
		3.2	0.0						

Product Construction Summary:			Test Mounting Details:						
Painted 16 ga. Carbon Steel Enclosure (2BOX16A)									
Options/Subcomponent Summary:									
Description	Mfr.	Part Number							
Circuit Breakers	3L3	MCPNK0025M1F							
UUT23 was wall - mounted rigid using four (4) 3/8" Grade 5 bolts and washers.									
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.									





# UNIT UNDER TEST (UUT) SUMMARY SHEET

2100139-CR-002-R2



<b>Manufacturer:</b> Firetrol Inc.	<b>UUT 25</b>
<b>Model Line:</b> FTAxxx	
<b>Model Number:</b> FTA570F-AG002B (Tornatech: JP3-480/2/3/60)	
<b>Serial Number:</b> WZ1244959	
<b>Test Report:</b> 2101253-TR-001 (UUT25)	

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
17	6.0	9.5	12.0	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, IBC 2021	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.20	2.40	2.13	0.85	
		3.2	0.0						

Product Construction Summary:			Test Mounting Details:						
Painted 16 ga. Carbon Steel Enclosure (2BOX213A)									
Options/Subcomponent Summary:									
Description	Mfr.	Part Number							
HMI	Firetrol	VZASS0005							
Switches	3L3	MMSNK00403PH-F							
UUT25 was wall - mounted rigid using four (4) 1/4" Grade 5 bolts and washers.			Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.						