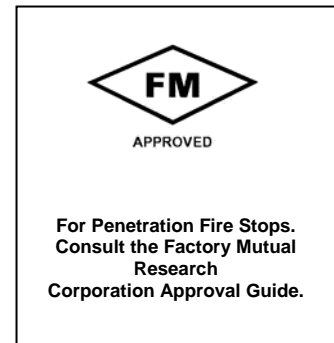
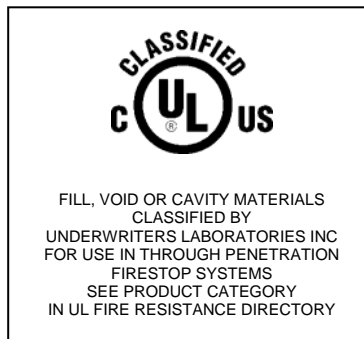


FPT Flammadur[®] A107

FIRESTOP SYSTEMS SUMMARY



System Descriptions provided here are for **identification** purposes only, see UL[®] Fire Resistant Directory at www.ul.com or go to www.flammadur.com for details

The www.flammadur.com website has architectural drawing in dwg and dxf formats



Fire Protection Technologies, Inc.

Metallic Pipes in Concrete: FLOOR AND WALL (4.5 INCH THICK OR THICKER)

Type of Penetrant	Nominal Diameter (inches)	Depth*, (inches)	F Rating, (hours)	T Rating (hours)	L Test	UL® System Number
steel	4	1 ½	3 2	0 0	no	CAJ 1043
copper	2	½	3	0	no	CAJ 1085

* Flush with top surface of floor or with both surfaces of wall

Cables In Concrete: FLOOR OR WALL (4.5 INCH THICK OR THICKER)

Cables	Depth of Seal* (inches)	Material in Space Between Seals	F Rating (hours)	T Rating (hours)	L Test	UL® System Number
12 AWG 24 AWG 18 AWG	¼ ***	Mineral wool	3	0	No	CAJ 3196**

* Flush with top surface of floor or with both surfaces of wall

** In 4.5 inch concrete floor or wall, or thicker

*** plus ¼ inch crown

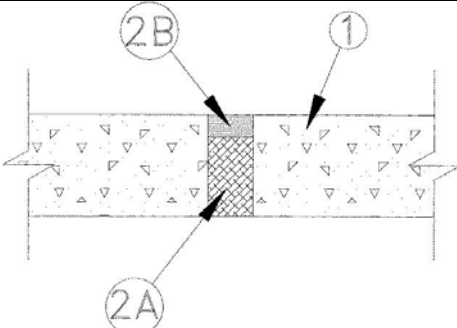
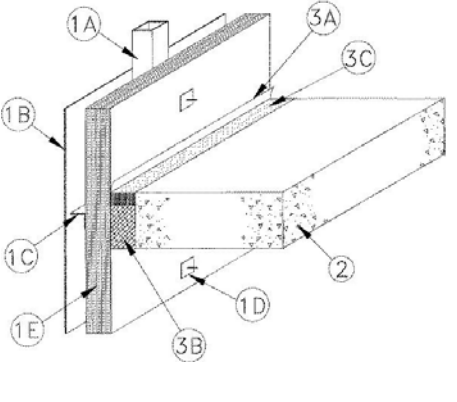
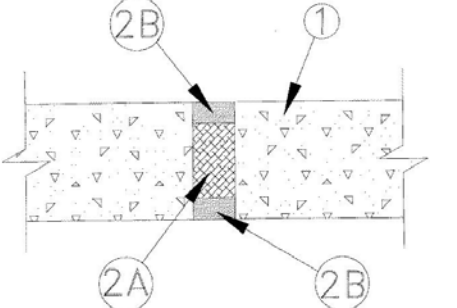
<p>C-AJ-1043 TPS</p> <p>F Ratings = 2 and 3 Hrs T Rating = 0 Hr</p>	<p>1 – Concrete floor or wall 2 – Steel pipe or Conduit 3 – Flammadur E473 Mortar 4 – mineral wool 5 – Flammadur A107 Caulk</p>	
<p>C-AJ-1085 TPS</p> <p>F Rating - 3 Hrs T Rating - 0 Hr</p>	<p>1 – Concrete floor or wall 2 – Metallic Pipes and Conduit 3 – Packing Material Mineral Wool 4 – Flammadur A107 Caulk</p>	
<p>C-AJ-3196 TPS</p> <p>F Rating = 3 Hrs T Rating = 0 Hr</p>	<p>1 – Concrete floor or wall 2 – Cables 3A – Packing Material Miner Wool 3B - Flammadur A107 Caulk</p>	

Joint Systems in Concrete

	Floor Thickness (inch)	Wall Thickness (inch)	Width of Joint (inch)	Rating (hour)	Mineral Wool Density (pcf)	Depth of seal (inch)	L Test	UL® System Number
Floor-Floor	4.5		2	3	6	1	No	FF-S-0019
Floor-Wall	4.5		2	3	6	½	No	FW-S-0002
Wall-Wall		5.5	2	3	6	1	No	WW-S-0026

* Based on minimum 500 cycles and at a minimum of 10 cycles per minute

** Based on Minimum 100 cycles and at a minimum of 30 cycles per minute

<p>FF-S-0019 Joint Systems</p> <p>Assembly Rating = 3 Hours Joint Width = 2 In. Maximum</p>	<p>1 – Floor Assembly Concrete 2 – Joint System 2A – Packing Material Mineral Wool 2B – Flammadur A107 Caulk</p>	
<p>FW-S-0002 Joint Systems</p> <p>Assembly Rating = 3 Hrs Joint Width = 2 In. Maximum</p>	<p>1 - Curtain Wall Assembly 1A - Mullions 1B - Spandrel Panels 1C - Reinforcement Member 1D - Impaling Pins 1E - Insulation mineral wool batts 2 - Floor Assembly structural concrete. 3 - Joint The joint system 3A - Plastic Film. 3B - Packing Material mineral wool batt. 3C - Flammadur A107 Caulk</p>	
<p>WW-S-0026 Joint Systems</p> <p>Assembly Rating = 3 Hrs Joint Width = 2 In. Maximum</p>	<p>1 - Wall Assembly Concrete, Concrete Blocks*. 2 - Joint System 2A - Packing Material mineral wool batt. 2B – Flammadur A107 Caulk</p>	

Fill, Void Or Cavity Materials Certified For Canada

Flammadur® A107 Caulk for use in joint systems in the UL Fire Resistance Directory

The specific Systems Nos. and the applicable rating information are as follow:

System No.	Rating Hr			
	F	FT	FH	FTH
FF-S-0019	3	3	3	3
FW-S-0002	3	3	3	3
WW-S-0026	3	3	3	3

Flammadur® A107 Caulk for use in through-penetration firestop systems in the UL Fire Resistance Directory.

The specific Systems Nos. and the applicable rating information are as follow:

System No.	Rating Hr			
	F	FT	FH	FTH
C-AJ-1043	2 and 3	0	2 and 3	0
C-AJ-1085	3	0	3	0
C-AJ-3196	3	0	3	0
W-L-5164	2	1-1/2	2	1-1/2

Flammadur® A107 is available

Cartridge	300 ml (10.1 fl oz)	No. 40009
Sausage	600 ml (20.2 fl oz)	No. 40007
Pail	5 US gallon	No. 40008

Products and Technical Assistance available from

	<p>Fire Protection Technologies, Inc. Suite 160 8000 Research Forest Drive The Woodlands, TX 77382 Website: www.flammadur.com</p>	
<p>Adolf R. Hochstim, PhD Technical Director</p>	<p>e-mail: ahochstim@earthlink.net</p>	<p>Phone: (818) 730-7749 FAX: (936) 271-4114 (Fax only)</p>
<p>Charles R. Eminhizer, PhD Thermal Physicist</p>	<p>e-mail: charles.eminhizer@yahoo.com ceminhizer@att.net</p>	<p>Phone: (858) 442-2192</p>

Warranty:The information provided is based upon typical installation conditions and tests Fire Protection Technologies, Inc. believes to be reliable. However, due to a wide variety of possible use conditions, the manufacturer and distributor does not guarantee that typical values expressed will necessarily be obtained. THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING MERCHANTABILITY. Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. NEITHER SELLER, DISTRIBUTOR, OR MANUFACTURER SHALL BE LIABLE FOR ANY INJURY, LOSS, OR DAMAGE, DIRECT, INCIDENTAL OR CONSEQUENTIAL, ARISING OUT OF THE USE OF OR THE INABILITY TO USE THE PRODUCT. Before using, user shall determine the suitability of the product of their intended use, and user assumes all risk and liability whatsoever in connection therewith. No statement or recommendation not contained herein shall have any force or effect unless in an agreement signed by officers of the manufacturer, or distributor.