FOR PENETRATIONS WITH CABLE BUNDLES AND PIPES

ArmaProtect FW1
Firestop wrap

Firestop wrap for fire seals in walls and floors

// Cable bundles up to Ø 150mm
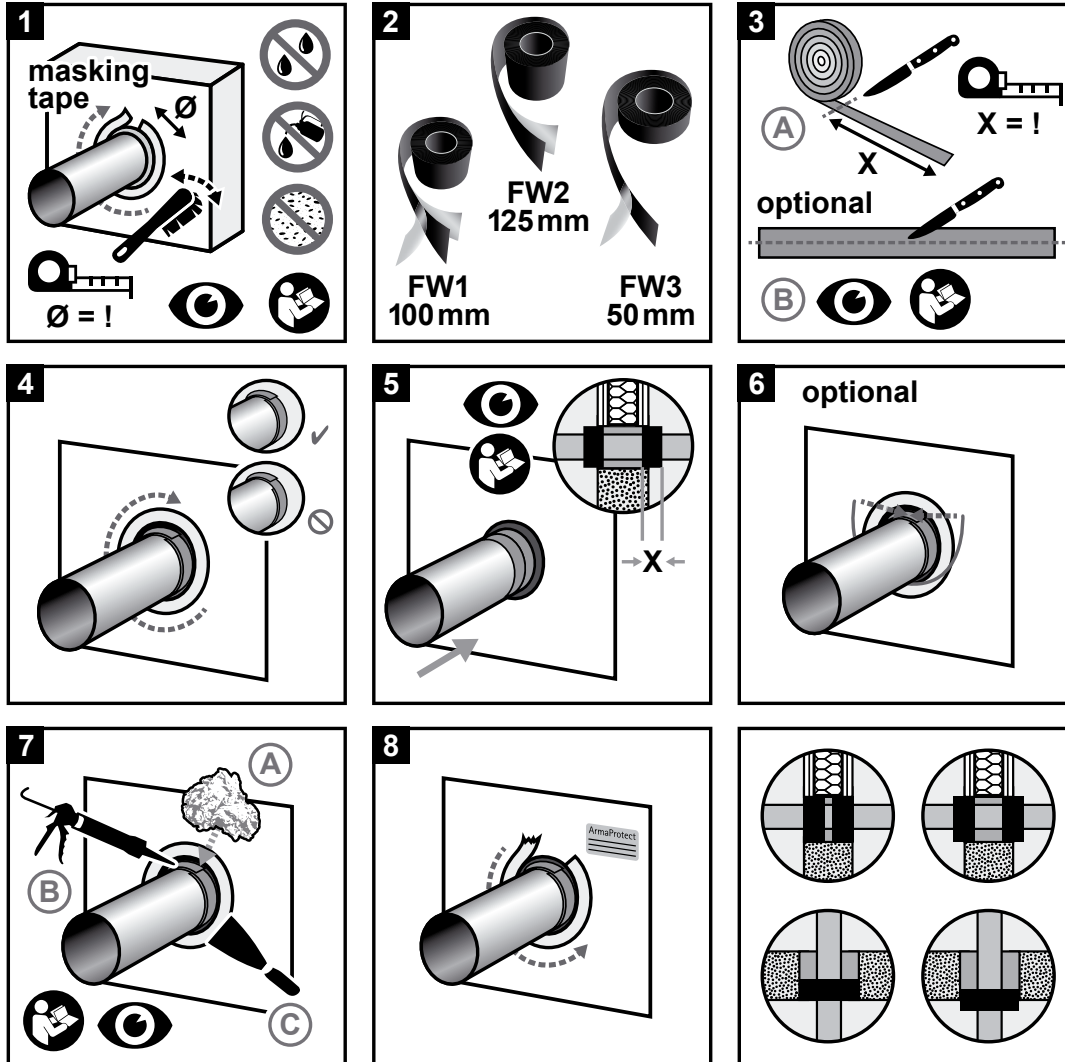// Combustible pipes up to Ø 160mm

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INSTRUCTIONS FOR USE

Ensure that surfaces are dry and free of dust and grease.

// Consumption guide

Check consumption of ArmaProtect Firestop Wrap FW1 based on the pipe diameter and number of layers required. The table below provides an estimation for one layer of wrap based on the outside diameter of the pipe, conduit or conduit bundle. To avoid wastage, review the number of layers required and the potential need of overlapping the firestop wrap according to third party published listings or national approvals / assessments before cutting.

Diameter of pipe / conduit / conduit bundle [mm]	Approximate length for one layer of firestop wrap [mm]
32	110
40	140
50	170
63	215
75	255
90	310
110	370
125	425
140	480
160	550

UL APPROVED SYSTEMS

// Typical UL approved systems[1]

Penetrants

•	Cable bundles	≤ Ø 150mm
•	PVC pipes	≤ Ø 160mm
•	PE pipes	≤ Ø 160mm
•	PP-HT	≤ Ø 100mm

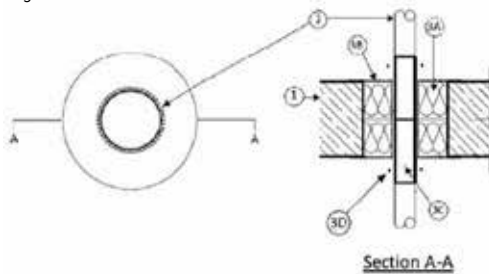[1]See relevant UL system for further installation details.

// Selected exemplary UL approved systems

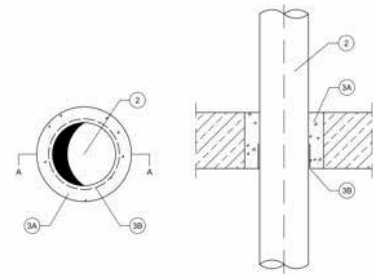**System No. C-AJ-2929 (PE pipe in floor opening)**

ANSI/UL 1479 (ASTM E814)
• F rating - 3 hours
• T rating - 3 hours

Section A-A

System No. F-A-2386 (PE pipe in floor opening)
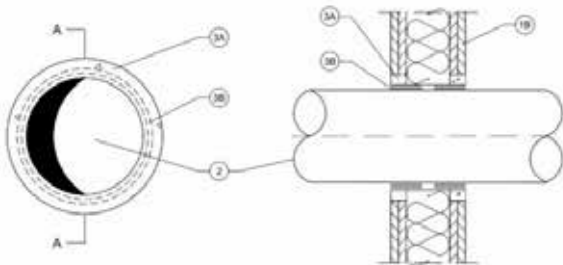
ANSI/UL 1479 (ASTM E814)
• F rating - 3 hours
• T rating - 3 hours

System No. W-L-2387 (PVC pipe in wall opening)
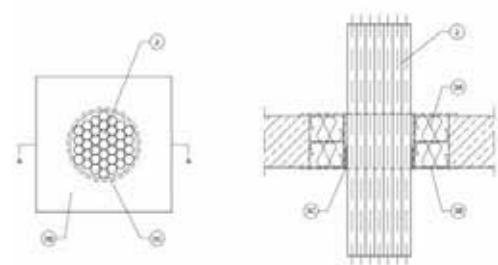
ANSI/UL 1479 (ASTM E814)
• F rating - 3 hours
• T rating - 3 hours

System No. F-A-3083 (cable bundle in floor opening)

ANSI/UL 1479 (ASTM E814)
• F rating - 3 hours
• T rating - 1-1/2 hours

TECHNICAL DATA – ARMAPROTECT FW1 FIRESTOP WRAP

Brief description	ArmaProtect FW1 is a fabric-based firestop wrap that helps to maintain the fire resistance performance of fire penetrations in walls and floors.
Material type	Glass filament fabric composite with insulation layer forming coating on the inside and the outside.
Product colour range	Red on the outside, anthracite on the inside.
Special features	Flexible and tear-resistant.
Product range	Firestop wrap roll with dimensions of 10m x 100mm x 1.5mm in a cardbox box.
Applications	Firestop wrap for fire seals in walls and floors for cable bundles, conduit bundles and combustible pipes.
Installation	For professional use only. Refer to third party published listings, national approvals / assessments and Armacell's product literature for specific application details as well as before handling this product.

Approvals and compliance

Specification compliance	• UL 1479 (ASTM E814)

Property	Value/Assessment	Standard/Test method
Temperature range		
Operating temperature	-40°C to 70°C (-40°F to 158°F)	
Application temperature	5°C to 25°C (41°F to 77°F)	
Storage and transportation temperature	5°C to 25°C (41°F to 77°F)	
Mechanical properties		
Weight per unit area	2.0 g/m^2	
Fire performance		
Reaction to fire	Class E	EN 13501-1
Resistance to fire	See Annex.	
Health and environment		
Emission of dangerous substances	No dangerous substances.	ETAG 026-02
Other technical features		
Durability and serviceability	Use category type X, Y_1, Y_2, Z_1, Z_2.	EOTA TR 024
Safety information	Please refer to the safety data sheet available on our website.	
Shelf life	No shelf life.	
Storage	Store in a cool and dry place with an ambient temperature of 5 °C to 25 °C and protect from frost.	

Firestop wrap

Item	Description	Content
PRO-FW-10m	ArmaProtect FW1 Firestop wrap	10m

Firestop filler mastic

Item	Description	Content
PRO-ABLF-15kg	ArmaProtect ABLF Firestop filler mastic (white) packed in a pail.	15 kg
PRO-ABLF-12.5kg	ArmaProtect ABLF Firestop filler mastic (white) packed in a pail.	12.5 kg
PRO-ABLF-310ml	ArmaProtect ABLF Firestop filler mastic (white) packed in a cartridge.	310 ml

Firestop identification plate

Item	Description	Content
PRO-ID-SET	ArmaProtect ID identification plate set	5 pieces

ABOUT ARMACELL

As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With more than 3,000 employees and 24 production plants in 16 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for high-tech and lightweight applications and next generation aerogel blanket technology.

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