

ALFA FR MASTIC

Intumescent acrylic mastic

TECHNICAL DATA SHEET



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PRODUCT DESCRIPTION

The fire-resistant acrylic compound **ALFA FR MASTIC** expands in the event of a fire, closing the opening around the installation and creating a barrier that ensures the compartment remains sealed and insulated up to EI 240.

APPLICATION

ALFA FR MASTIC acrylic compound is designed for fire protection of metal pipes and cables in walls and ceilings.

Rigid wall:	The wall should be at least 150 mm thick. It should be made of concrete, reinforced concrete, aerated concrete, solid perforated brick or lattice brick with a density of not less than 600 kg/m ³ .
Rigid Floor:	The ceiling should be at least 150 mm thick. It should be made of concrete or reinforced concrete with a density of at least 1700 kg/m ³ .

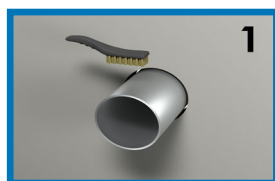


AVAILABILITY

Product	Capacity	Delivery form	Article number
ALFA FR MASTIC	Cartridge 310 ml	1 pcs.	2603100000
	Plastic bag 600 ml	1 pcs.	2606000000

INSTALLATION METHOD

- Clean the opening and installations of impurities
- Place a mineral wool underlay in the hole. Fill the remaining gap with **ALFA FR MASTIC** to a sufficient depth



COMPLIANCE

European Technical Assessment:

ETA-19/0503

Declaration of Performance:

AGSO – 1/2019

Certificate of Constancy of Performance:

1488-CPR-0766/W



TRANSPORT AND STORAGE

Transport and store in a dry and cool place at a temperature between +5°C and +35°C.

- Use by for the 310 ml container: 24 months from the production date printed on the packaging
- Use by for the 600 ml container: 18 months from the production date printed on the packaging

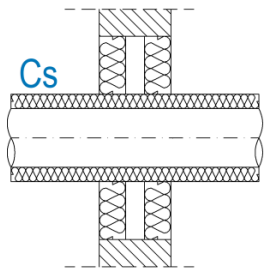
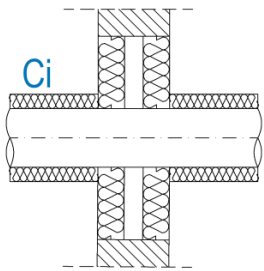
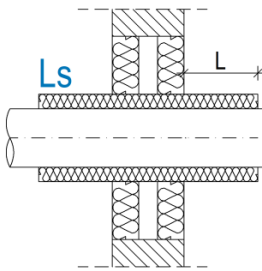
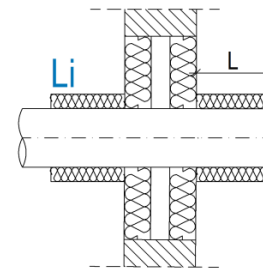
SPECIFICATIONS

Table 1. Technical data for steel pipe culverts

External diameter [mm]	Mineral wool filling material depth x thickness	Pipe insulation, thickness x length	ALFA FR MASTIC Depth x thickness	Cartridge usage 310 ml ALFA FR MASTIC
Ø ≤ 42,4	15 mm x 10 mm	30 mm x 250 mm	15 mm x 10 mm	0,20
Ø ≤ 48,3		50 mm x 250 m		0,22
Ø ≤ 60,3				0,25
Ø ≤ 76,1				0,30
Ø ≤ 88,9				0,35
Ø ≤ 108,0				0,40
Ø ≤ 159,0	15 mm x 25 mm	50 mm x 650 mm	20 mm x 25 mm	1,90
Ø ≤ 219,1				2,50

FIRE CLASSIFICATION

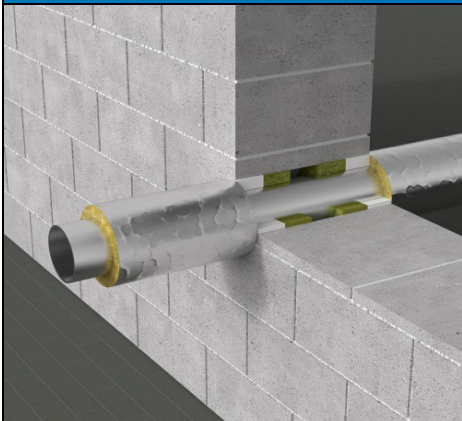
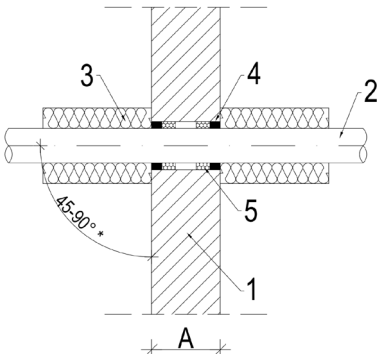
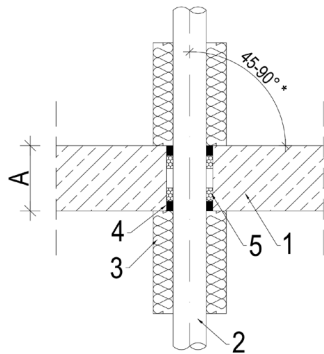
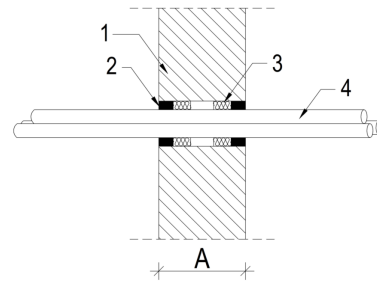
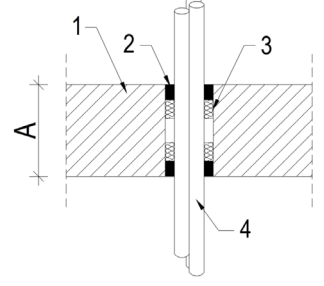
Table 2. Insulation configuration in installation ducts

CONTINUOUS INSULATION		INSULATION BROKEN	
	Cs		Ci
<i>Ciągła</i> Continued sustained			Ls
			Li
		<i>Lokalna</i> Local sustained	
		<i>Lokalna przerwana</i> Local interrupted	

COPPER PIPES								
External diameter [mm]	Wall thickness [mm]	ALFA FR MASTIC depth x thickness [mm]	Mineral wool (underlay) depth x thickness [mm]	Wool insulation length x thickness [mm]	WALL		FLOOR	
					Fire resistance	Insulation configuration	Fire resistance	Insulation configuration
Ø ≤ 6,0	≥ 0,8	20 x 25	all free space	500 x 30	EI 240	Ci or Li	EI 180	Ci or Li
6,0 < Ø ≤ 15,0	≥ 1,0				EI 180		EI 90	
15,0 < Ø ≤ 18,0	≥ 1,1							
18,0 < Ø ≤ 22,0	≥ 1,1							
22,0 < Ø ≤ 35,0	1,4 – 14,2			700 x 50	EI 120	-	-	
35,0 < Ø ≤ 42,0	1,5 – 14,2							
42,0 < Ø ≤ 54,0	1,7 – 14,2							
54,0 < Ø ≤ 88,9	2,2 – 14,2							

STEEL PIPES								
External diameter [mm]	Wall thickness [mm]	ALFA FR MASTIC dep. x thickness[mm]	Mineral wool (underlay) Dep. x thickness[mm]	Wool insulation Leng. x thick.[mm]	WALL		FLOOR	
					Fire resistance	Insulation configuration	Fire resistance	Insulation configuration
Ø ≤ 42,4	2,0 – 14,2	15 x 10	15 x 10	250 x 30	EI 240	Ci lub Li	EI 240	Ci lub Li
42,4 < Ø ≤ 48,3	2,2 – 14,2			250 x 50	EI 180		EI 120	
48,3 < Ø ≤ 60,3	2,6 – 14,2							
60,3 < Ø ≤ 76,1	3,1 – 14,2							
76,1 < Ø ≤ 88,9	3,5 – 14,2							
88,9 < Ø ≤ 108,0	4,0 – 14,2	20 x 25	15 x 25	650 x 50	EI 120		-	-
108,0 < Ø ≤ 159,0	4,0 – 14,2				EI 90			
159,0 < Ø ≤ 219,1	4,5 – 14,2							
CABLES								
Ø _{CABLE} ≤ 21	-	20 x 25	15 x 25	-	EI 240	-	EI 120	-
Ø _{BUNCHI} ≤ 100					EI 90			

DETAILS OF THE SOLUTION

STEEL PIPES			
	Fig. 1 Wall opening $A \geq 150$ mm 		Fig. 2 Ceiling opening $A \geq 150$ mm 
	1: wall/ceiling with a thickness of $A \geq 150$ mm 2: steel pipe 3: mineral wool insulation with a density of $\rho \geq 37$ kg/m³ 4: ALFA FR MASTIC fire protection compound 5: mineral wool underlay with a density of $\rho \geq 40$ kg/m³ * Installations at an angle of $45^\circ \div 90^\circ$ to the partition, in accordance with PN-EN 1366-3		
CABLES			
	Fig. 3 Wall opening $A \geq 150$ mm 		Fig. 4 Ceiling opening $A \geq 150$ mm 
	1. Wall/ceiling with a thickness of $A \geq 150$ mm 2. ALFA FR MASTIC fire protection compound 3. Mineral wool backing with a density of $\rho \geq 40$ kg/m³ 4. Single cable or cable bundle		