ALFA FIREGUARD

Fire protection mat for ventilation ducts

TDS Technical Data Sheet







PRODUCT DESCRIPTION

The **ALFA FIREGUARD 3** is a flexible mat designed for fire protection of metal ventilation ducts (in accordance with EN1366-1) exposed to external fire. The product is a rock wool cushion quilted on a metal mesh. The exposed side is covered with a wire aluminium foil, while the internal side has a glass wool fabric treated with an ablative product. With its reduced 30 mm thickness, the cushion is easy to apply even on curved profiles and does not overload the support tie rods, which are certified without protection.

APPLICATION

Rectangular ventilation ducts: Size maximum 1250 x 1000 mm

Round ventilation ducts:

Size maximum Ø1000 mm

AVAILABILITY

Product name	Specification	Article number
ALFA FIREGUARD 3	6000 x 1000 x 30 mm	INFGMATT
ALFA BAND 3	25 m	INFGBD25
ALFA FIEGUARD WIRE	1 mm / 50 m	INFGWR1MM
ALFA FIREGUARD MOUNTING KEY		INFGKEY

TECHNICAL DATA

Weight	~ 5 kg/m ²	
Size	1 roll of mat: 6000 x 1000 x 30 mm 1 roll of mat = 6 m ² 1 pallet = 10 rolls	
Density	ρ = 100 kg/m³	
Thermal conductivity	Thermal conductivity $\Lambda = 0,035 \text{ W/(m \cdot K)}$	
Absorption	≤ 1 kg/m²	
Cuttability	Cuttability Tak	
Colour	Inside – white Outside - silver	
ALFA BAND 3 consumption	~10-12 linear meter for 1 roll of mat ALFA FIREGUARD 3 (6 m²)	





COMPLIANCE

- Test standard: EN 1366-1 / EAD 350142-00-1106
- European Technical Assessment: ETA 25/0029 of 16/01/2025
- Declaration of Performance:
 DoP 1/2025
- Certificate of Constancy of Performance 1292/CPR/116247

TRANSPORT AND STORAGE

Transport and store in a dry place. Protect against moisture.

INTUSEAL Sp. z o.o. UI. Kineskopowa 1, 05-500 Piaseczno, Polska E-mail: <u>sales@intuseal.com</u> ALFA FIREGUARD 3 | TDS KO 2.0 | 2

NIP 5223031827 | REGON 361758444 | Nr KRS 0000562502



INSTALLATION METHOD





1a. ROUND CROSS-SECTION. Measure the canal circumference and increase them by:

- 190 mm (to compensate the thickness of the mat)
- 200 mm = x overlap

Summary: canal circumference + 390 mm

1b. RECTANGULAR CROSS-SECTION. Measure the canal circumference and increase them by:

- 240 mm (to compensate the thickness of the mat)
- 200 mm = x overlap

Summary: canal circumference + 440 mm

- 2. Cut the mat ALFA FIREGUARD 3 to the designated length.
- **3.** Wrap the cut section of the mat around the duct with overlap \geq 200 mm. Secure the mat with steel wire 1 mm thick for every 300 mm (three loops for linear meter). Repeat the steps from point 1 to 3 to cover the ventilation duct with a second parallel layer.
- 4. Use ALFA BAND 3 self-adhesive tape to the transverse joint between the two sections of the mat. Protect ALFA BAND 3 by placing a 1 mm thick wire around tape placed on the ventilation duct.

→ FIRE RESISTANCE CLASSIFICATION

Ventilation duct type	Duct position	Fire resistance class
RECTANGULAR	Vertical	EI 120 (ve O \rightarrow I) S
	Horizontal	EI 120 (ho O \rightarrow I) S
ROUND	Vertical	EI 180 (ve O \rightarrow I) S
	Horizontal	EI 120 (ho O \rightarrow I) S

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SOLUTION DETAILS

Fig.1	1 Protection of the horizontal ventilation duct El 120 (ve $o \rightarrow i$) S		
		 1 - steel ventilation duct with size: s x h, El120(ve o→i) S; 2 - ALFA FIREGUARD 3, fire protection flexible mat with thickness 30 mm; 3 - slings should be mounted at a distance of max. 1400 mm (suspension details according to ETA). 	



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