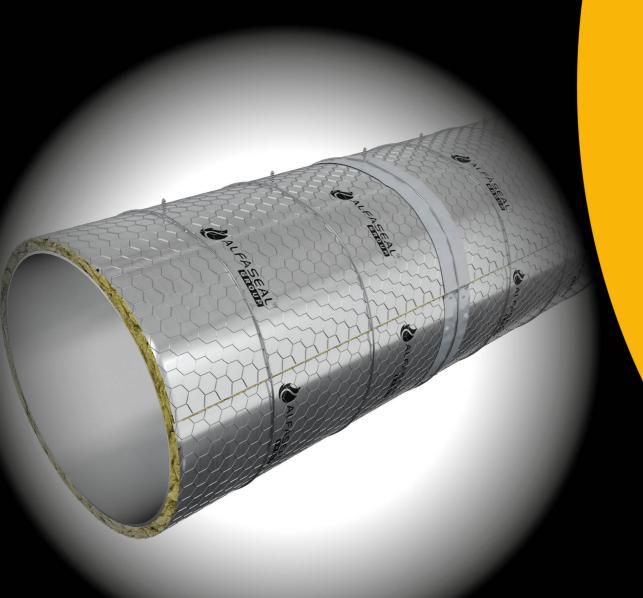
ALFA FIREGUARD 3

Fire protection mat for ventilation ducts

TDS Technical Data Sheet







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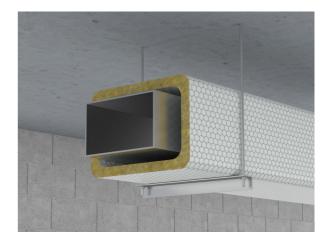
PRODUCT DESCRIPTION

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

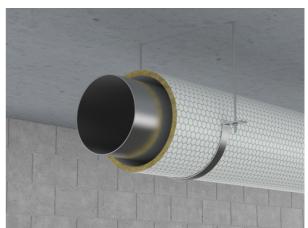
Rectangular ventilation ducts: Size maximum 1250 x 1000 mm

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/m²	
Size	1 roll of mat: 6000 x 1000 x 30 mm 1 roll of mat = 6 m ² 1 pallet = 10 rolls	
Density $\rho = 100 \text{ kg/m}^3$		
Thermal conductivity $\Lambda = 0.035 \text{ W/(m} \cdot$		
Absorption ≤ 1 kg/m²		
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.

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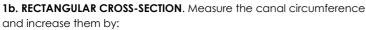
> INSTALLATION METHOD



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

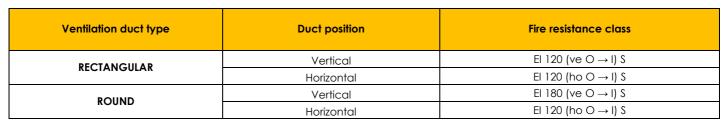


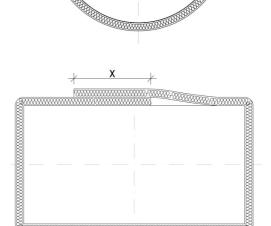
- 240 mm (to compensate the thickness of the mat)
- 200 mm = x overlap

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.

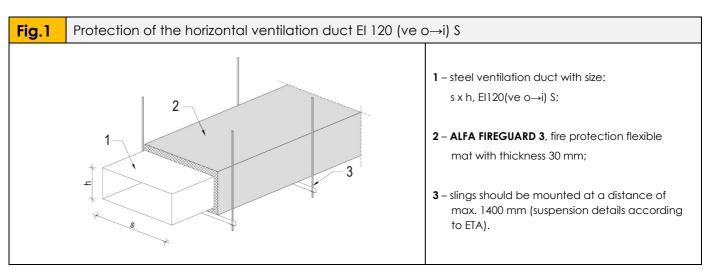








SOLUTION DETAILS



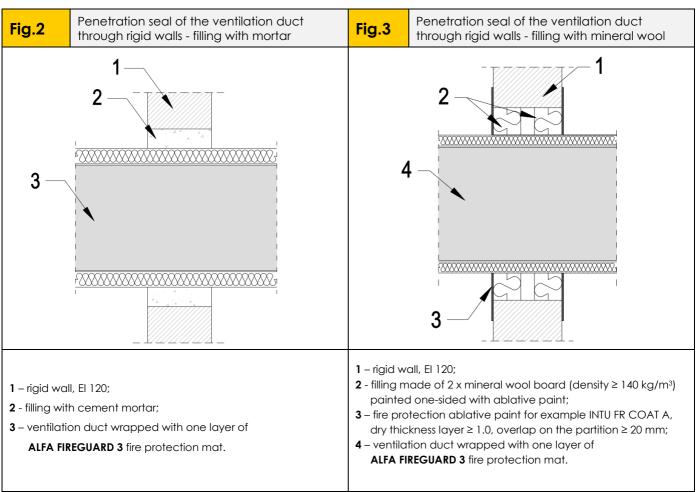
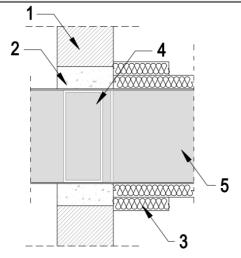
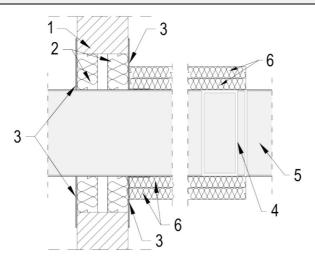


Fig.4 Penetration seal of the ventilation duct (with fire damper) through rigid walls - filling with mortar



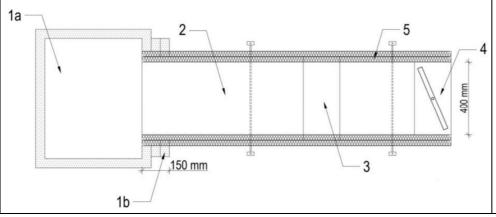
- 1 rigid wall, El 120;
- 2 filling with cement mortar;
- 3 additional layer of ALFA FIREGUARD 3 mat ≥ 100 mm long;
- 4 fire damper;
- 5 ventilation duct wrapped with one layer of ALFA FIREGUARD 3 fire protection mat.

Fig.5 Protection of the ventilation duct (with fire damper) penetration through rigid walls



- 1 rigid wall;
- 2 filling partition with 2 x mineral wool boards with minimum density 150 kg/m³ and thickness 60 mm, painted with fire-resistant ablative paint;
- 3 overlap on the partition by ablative fire resistance paint INTU FR COAT A;
- 4 fire damper;
- 5 steel ventilation duct;
- 6 2 layers (non-standard solution) of fire protection flexible mat ALFA FIREGUARD 3.

Protection of the ventilation duct (with fire damper) penetration through rigid walls Fig.6



- 1a fan in the housing made of silicate-cement board;
- 1b reinforcement 2 x board;
- 2 steel ventilation duct;
- 3 pipe T-piece which is going into the slab ceiling;
- 4 fire damper, EIS120;
- **5** 2 layers (non-standard solution) of fire protection flexible mat ALFA FIREGUARD 3.