INTU FR BOARD A

Fire rated ablative board

TDS Technical Data Sheet

.INTUSEAL®
passive fire protection manufacturer

PRODUCT DESCRIPTION

Firestop board **INTU FR BOARD A** is composed of a mineral wool board with a density of 150kg/m^3 and a thickness of 60mm, covered on one side with ablative paint **INTU FR COAT A**. The product set is designed for sealing fire protection penetrations and preparing fire expansion joints with fire resistance class up to **EI 240**. In the fire conditions, under the influence of high temperature, endothermic reactions take place in the product. The paint absorbs heat, significantly delaying the impact of fire on structural components.

APPLICATION

INTU FR BOARD A is used for:

- fire protection of penetrations with single non-flammable pipes or groups of non-flammable pipes in floors or walls
- protection of expansion joints in floors or walls
- fire protection of electric cables combined with intumescent paint **INTU FR COAT I** in walls

Rigid walls:
The wall must be at least 150mm thick and have concrete, cellular concrete structure or masonry structure, with a minimum density of 600kg/m^3

Rigid floors:
The floor must be at least 150mm thick and have concrete, cellular concrete structure or masonry structure, with a minimum density of 1700kg/m^3

INSTALLATION METHOD

1. Prior to sealing, clean the hole surface and system components from grease and other contaminants thoroughly.
2. Cut the **INTU FR BOARD A** to the correct size.
3. Place the **INTU FR BOARD A** in the hole/gap.
4. In the case of non-flammable pipes:
   a) mineral wool insulation with a density of min 50kg/m^3 should be placed (for exact parameters see Table 1)
   b) all gaps between system components and the junction of the partition with mineral wool should be filled with **INTU FR COAT A**.
5. In the case of expansion joints, cover the mineral wool board with **INTU FR COAT A** ablative paint on one side of the partition. Prepare a partition overlap min 5mm.

TRANSPORT AND STORAGE

Store in dry and cool conditions at temperatures between + 5°C and + 25°C.
Shelf life as specified on the product label.

AVAILABILITY

TYPE	Art. No.
1200x600x60 mm	INBA601SI

COMPLIANCE

- Reference standard:
  penetration seals: EN 1366-3 / ETAG 026-2 / EAD 350454-00-1104
  linear joint seals: EN 1366-4 / ETAG 026-3 / EAD 350141-00-1106
- DoP 5/2019
- Penetration seals: ETA 19/0038;
  Linear joint seals: ETA 19/0037
- Penetration seals: CoC 1488-CPR-0756/W
  Linear joint seals: CoC 1488-CPR-0763/W
- TDS
- SDS

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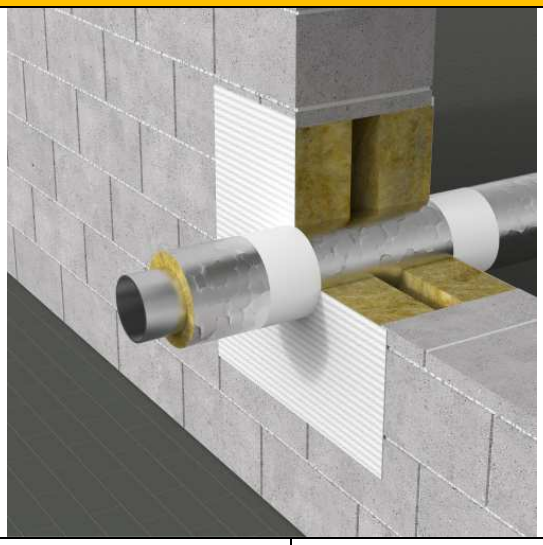
➔ SOLUTION DETAILS

PROTECTION OF NON-FLAMMABLE PIPES (continuous insulation)



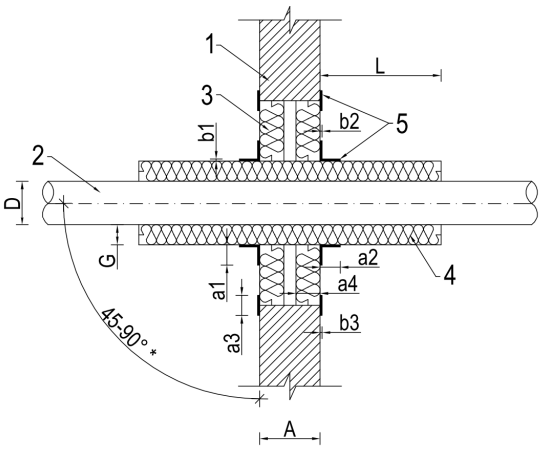


Fig. 1. Wall penetration (continuous insulation)

1 – a wall with a thickness of A≥150mm and density no less than 600 kg/m³
2 – non-flammable pipe
3 – **INTU FR BOARD A**
4 – mineral wool insulation with a density of min. 37 kg/m³, length L and thickness G according to Table 1
5 – **INTU FR COAT A** ablative paint, a1≥50mm; a2≥50mm; a3≥20mm; a4≥60mm; b1≥0,6mm; b2≥0,6mm; b3≥0,6mm

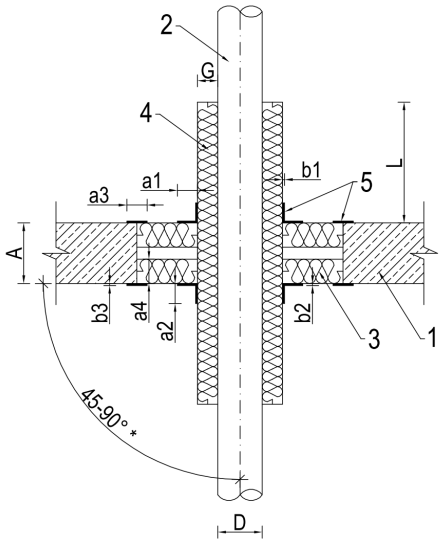
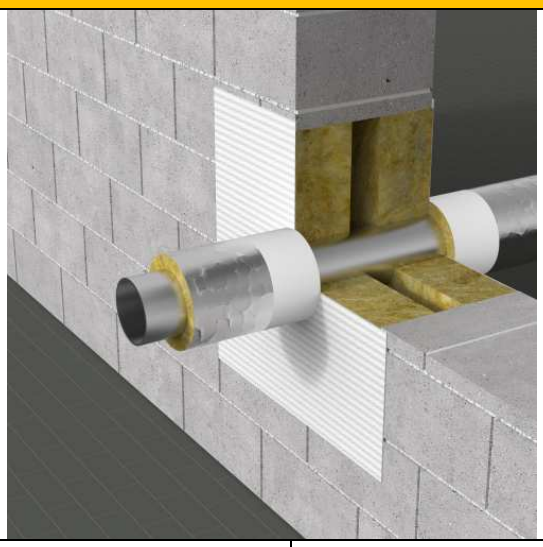


Fig. 2 Floor penetration (continuous insulation)

1 – a floor with a thickness of A≥150mm and density no less than 1700 kg/m³
2 – non-flammable pipe
3 – **INTU FR BOARD A**
4 – mineral wool insulation with a density of min. 37 kg/m³, length L and thickness G according to Table 1
5 – **INTU FR COAT A** ablative paint, a1≥50mm; a2≥50mm; a3≥20mm; a4≥60mm; b1≥0,6mm; b2≥0,6mm; b3≥0,6mm

* - Installations angled 45 ÷ 90° to the partition, based on PN-EN 1366-3 standard

PROTECTION OF NON-FLAMMABLE PIPES (non-continuous insulation)



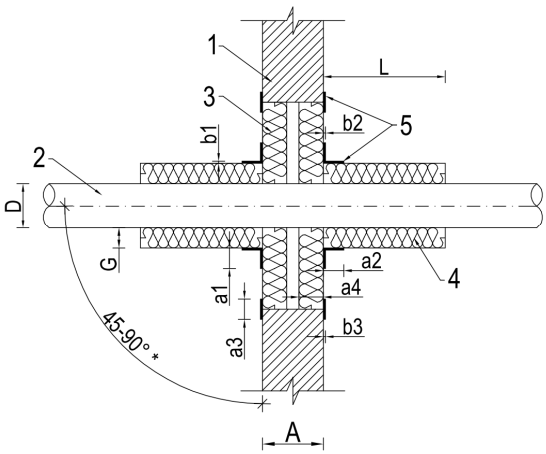


Fig. 3 Wall penetration (non-continuous insulation)

1 – a wall with a thickness of A≥150mm and density no less than 600 kg/m³
2 – non-flammable pipe
3 – **INTU FR BOARD A**
4 – mineral wool insulation with a density of min. 37 kg/m³, length L and thickness G according to Table 1
5 – **INTU FR COAT A** ablative paint,
a1≥50mm; a2≥50mm; a3≥20mm; a4≥60mm;
b1≥0,6mm; b2≥0,6mm; b3≥0,6mm

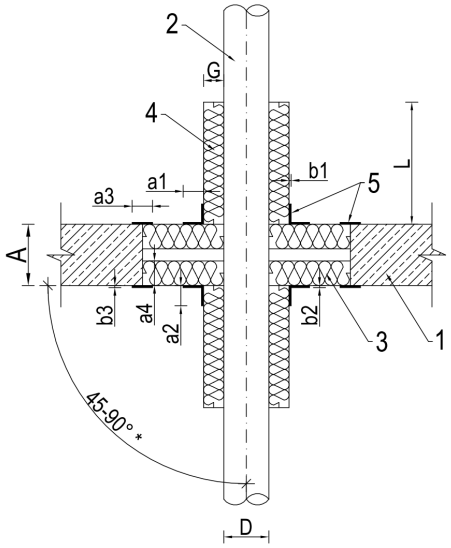


Fig. 4 Floor penetration (non-continuous insulation)

1 – a floor with a thickness of A≥150mm and density no less than 1700 kg/m³
2 – non-flammable pipe
3 – **INTU FR BOARD A**
4 – mineral wool insulation with a density of min. 37 kg/m³, length L and thickness G according to Table 1
5 – **INTU FR COAT A** ablative paint,
a1≥50mm; a2≥50mm; a3≥20mm; a4≥60mm;
b1≥0,6mm; b2≥0,6mm; b3≥0,6mm

* - Installations angled 45 ÷ 90° to the partition, based on PN-EN 1366-3 standard

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PROTECTION OF FIRE RATED EXPANSION JOINT

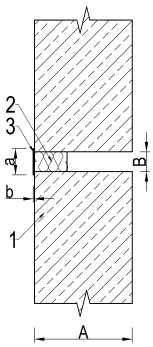

Fig. 1 Expansion joint in a wall

1 – a wall with a thickness of A≥150mm and density no less than 600 kg/m³, gap with a width of B≤100mm
2 – **INTU FR BOARD A**
3 – **INTU FR COAT A** ablative paint, at the joint and min 5mm at the partition, the thickness of the layer b≥0.60mm

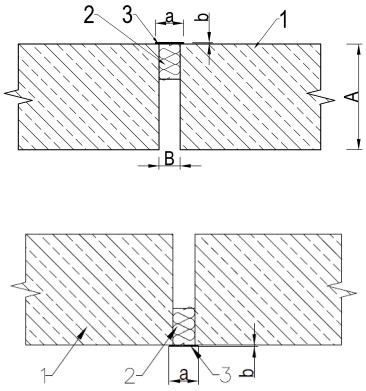

Fig. 2 Expansion joint in a floor

1 – a floor with a thickness of A≥150mm and density no less than 1700 kg/m³, gap with a width of B≤100mm
2 – **INTU FR BOARD A**, installation from the top or bottom of the floor
3 – **INTU FR COAT A** ablative paint, at the joint and min 5mm at the partition, the thickness of the layer b≥0.60mm

Table 1. Parameters for protection of non-flammable pipes.

Diameter	Material	Filling	Insulation*
≤ 42,4 mm	steel	2 x mineral wool board with a density of min. 150kg/m³, 60mm thick, coated on one side with **INTU FR COAT A**	Thickness G: 30mm; Length L: 250mm
≤ 108,0 mm	steel		Thickness G: 50mm; Length L: 250mm
≤ 159,0 mm	steel		Thickness G: 50mm; Length L: 650mm
≤ 219,0 mm	steel		Thickness G: 50mm; Length L: 650mm
≤ 6,0 mm	copper		Thickness G: 30mm; Length L: 500mm
≤ 54,0 mm	copper		Thickness G: 30mm; Length L: 500mm
≤ 88,9 mm	copper		Thickness G: 60mm; Length L: 700mm

* Mineral wool **insulation** with aluminum wrapper, density 37 kg/m³, length L from the partition

➔ FIRE RESISTANCE CLASSIFICATION PENETRATION SEALS

TYPE	INSULATION	DN	EI WALL	EI FLOOR
STEEL PIPES	continuous	≤ 42,4 mm	EI 120	EI 120
		≤ 108,0 mm	EI 120	EI 120
		≤ 159,0 mm	EI 120	EI 120
		≤ 219,0 mm	EI 120	-
	Non-continuous	≤ 42,4 mm	EI 120	EI 120 (EI120*)
		≤ 108,0 mm	EI 120	EI 120 (EI60*)
		≤ 159,0 mm	EI 120	EI 120
		≤ 219,0 mm	EI 120	EI 120
COOPER PIPES	continuous	≤ 6,0 mm	EI 120	EI 240
		≤ 54,0 mm	EI 60	EI 180
		≤ 88,9 mm	EI 60	EI 90
	Non-continuous	≤ 6,0 mm	EI 120	EI 240
		≤ 54,0 mm	-	EI 60
		≤ 88,9 mm	-	EI60

*fire resistance using a single mineral wool board

➔ FIRE RESISTANCE CLASSIFICATION LINEAR JOINTS

GAP [mm]	EI WALL Vertical	EI WALL Horizontal	EI FLOOR
≤ 100mm	EI 240	EI 120	EI 240