

INTU FR BOARD A

Fire rated ablative board

TDS Technical Data Sheet



INTUSEAL®
passive fire protection manufacturer

CE



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➔ PRODUCT DESCRIPTION

Firestop board **INTU FR BOARD A** is composed of a mineral wool board with a density of 150kg/m³ 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/m³

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/m³

➔ 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/m³ 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

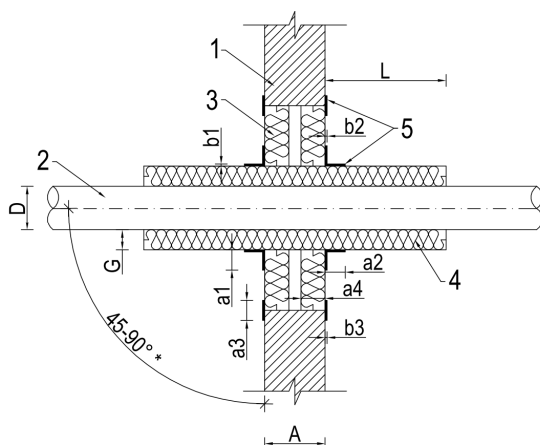
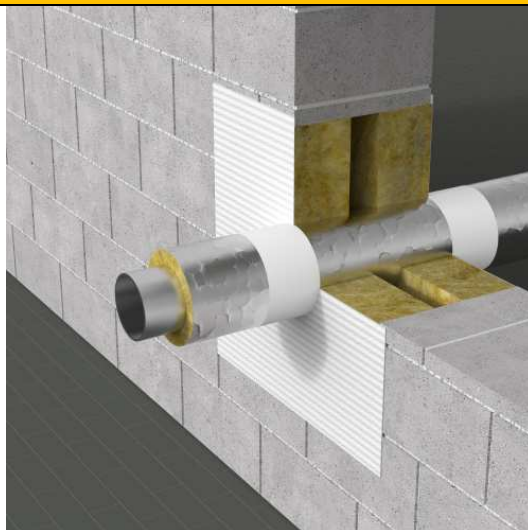
TYPE	Art. No.
1200x600x60 mm	INBA601SI

➔ 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

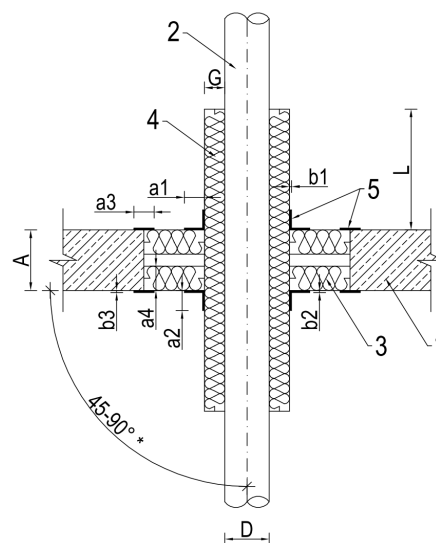
➔ SOLUTION DETAILS

PROTECTION OF NON-FLAMMABLE PIPES (continuous insulation)



**Fig. 1. Wall penetration
(continuous insulation)**

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

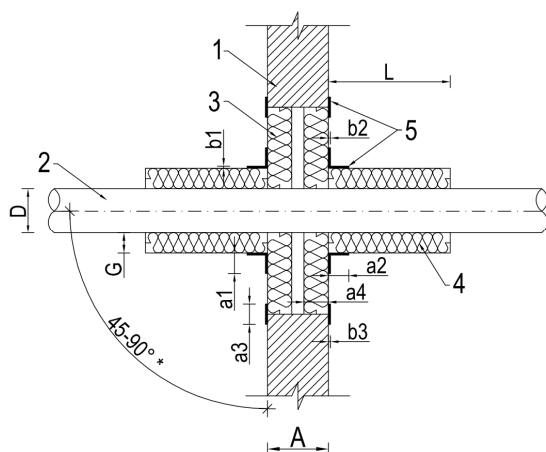
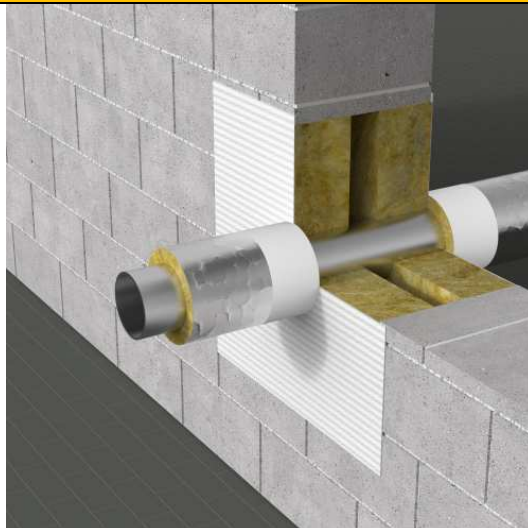


**Fig. 2. Floor penetration
(continuous insulation)**

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

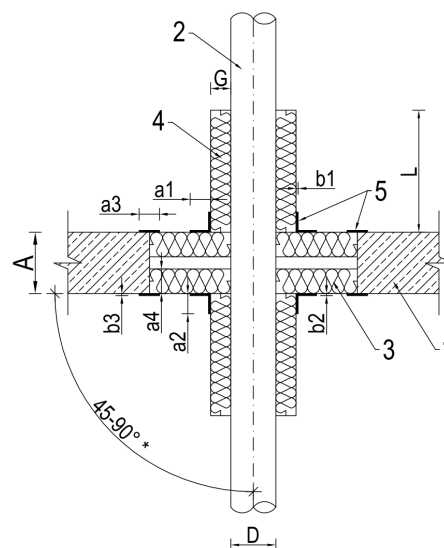
* - Installations angled $45 \div 90^\circ$ to the partition, based on PN-EN 1366-3 standard

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



**Fig. 3 Wall penetration
(non-continuous insulation)**

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



**Fig. 4 Floor penetration
(non-continuous insulation)**

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

* - Installations angled $45 \div 90^\circ$ to the partition, based on PN-EN 1366-3 standard

PROTECTION OF FIRE RATED EXPANSION JOINT

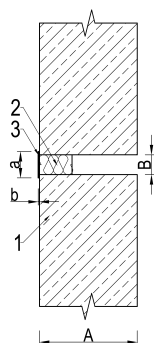


Fig. 1 Expansion joint in a wall

- 1** – a wall with a thickness of $A \geq 150\text{mm}$ and density no less than 600 kg/m^3 , gap with a width of $B \leq 100\text{mm}$
- 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 $b \geq 0.60\text{mm}$

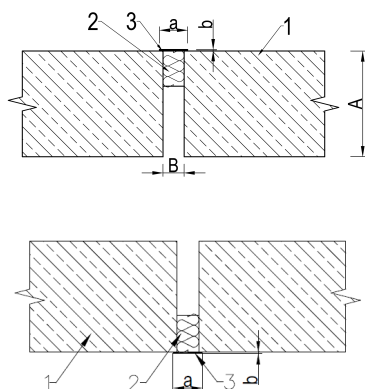


Fig. 2 Expansion joint in a floor

- 1** – a floor with a thickness of $A \geq 150\text{mm}$ and density no less than 1700 kg/m^3 , gap with a width of $B \leq 100\text{mm}$
- 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 $b \geq 0.60\text{mm}$

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