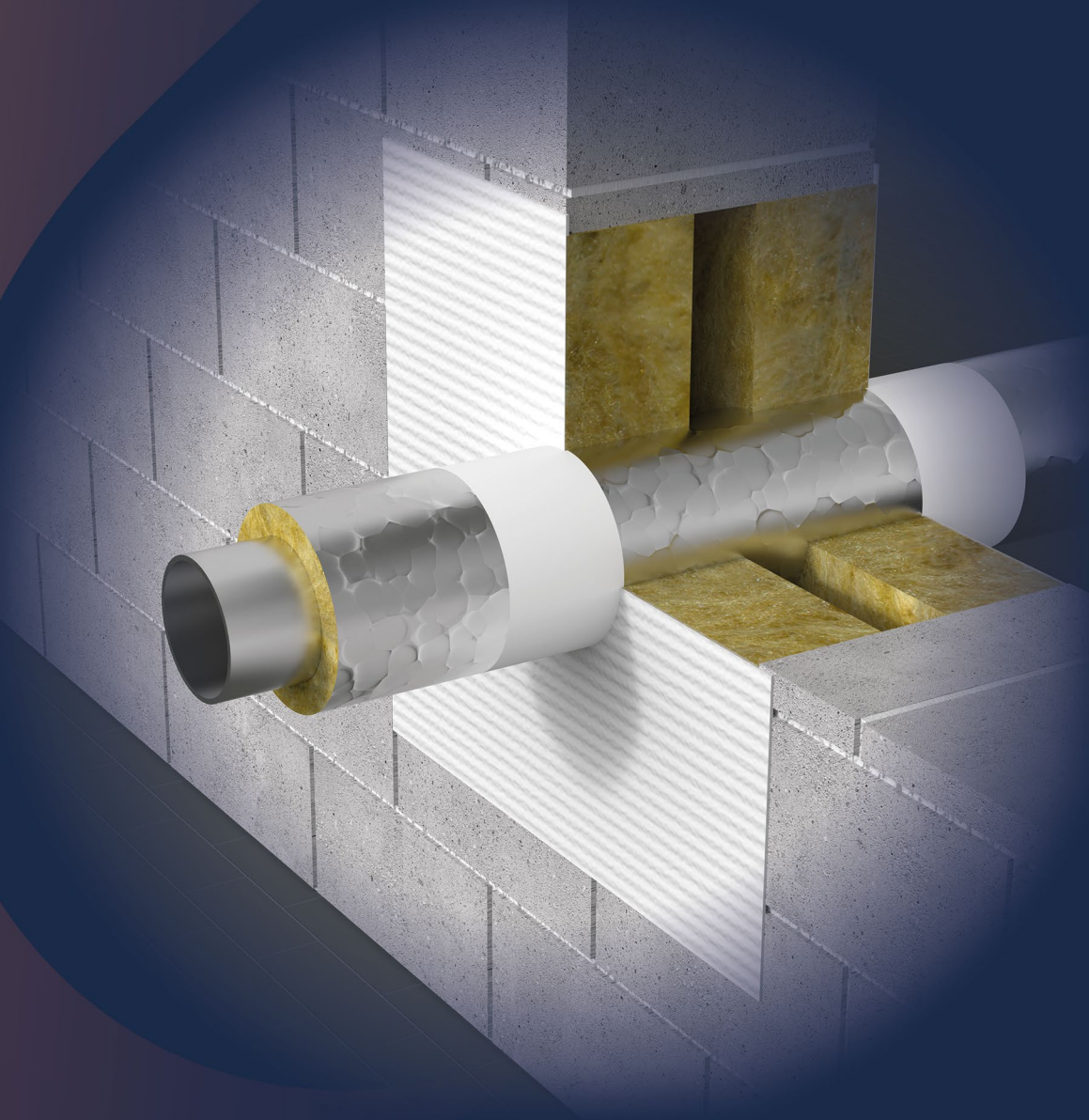


INTU FR BOARD A

Fire rated ablative board

TDS TECHNICAL DATA SHEET



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Fire rated ablative board

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→ PRODUCT DESCRIPTION

The firestop board **INTU FR BOARD A** is composed of a mineral wool board with thickness 60 mm, 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

The fire rated ablative board **INTU FR BOARD A** is used for: fire protection of penetrations with single or group 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**.

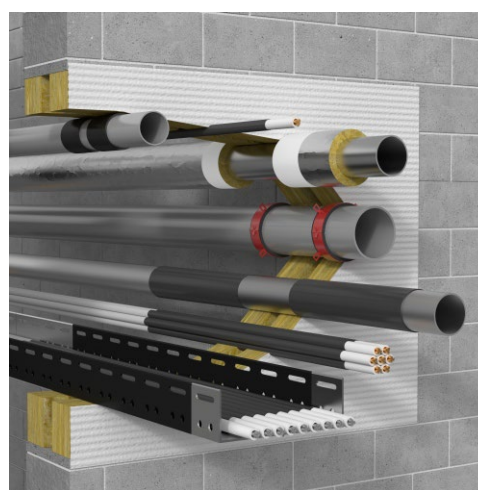
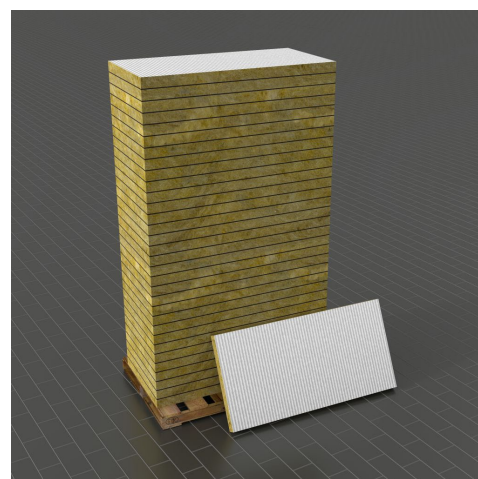
Flexible wall:	The wall must be minimum thickness 125 mm. Must have a steel profile structure covered on both sides with minimum 2 layers of boards with minimum thickness 12,5 mm.
Rigid wall:	The wall must be minimum thickness 150 mm. Must have concrete, cellular concrete or masonry structure, with minimum density 600 kg/m ³ .
Rigid floor:	The floor must be minimum thickness 150 mm. Must have concrete, cellular concrete or masonry structure, with minimum density 1700 kg/m ³ .

→ AVAILABILITY

Product	Thickness	Dimension	Pallet	Article number
INTU FR BOARD A 1S	60 mm	1200x600 mm	64	INBA601SI

→ INSTALLATION METHOD

- 1) Clean the surface of the hole and system components from grease and other contaminants thoroughly.
- 2) Cut the mineral wool board **INTU FR BOARD A** to the correct size and place the wool board in the hole/gap.
- 3) Fill all gaps between services – mineral board or partition – mineral board with **INTU FR MASTIC**.
- 4) Use **INTU FR COAT A** ablative paint to make an overlap on the partition and on the mineral wool lamella placed on the metal pipe.



→ TRANSPORT AND STORAGE

Store in dry and cool conditions at temperatures between + 5°C and + 35°C. Shelf life as specified on the product label.

→ COMPLIANCE

- *European Technical Assessment:*
Penetration seals: **ETA 19/0038 of 28/06/2019**
Linear joints: **ETA 19/0037 of 28/06/2019**
- *Declaration of Performance:*
Penetration seals: **DoP 6/2019**
Linear joints: **DoP 8/2024**
- *Certificate of Constancy of Performance*
Penetration seals: **1488-CPR-0756/W**
Linear joints: **1488-CPR-0763/W**



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➔ TECHNICAL DATA for metal pipes penetration seals

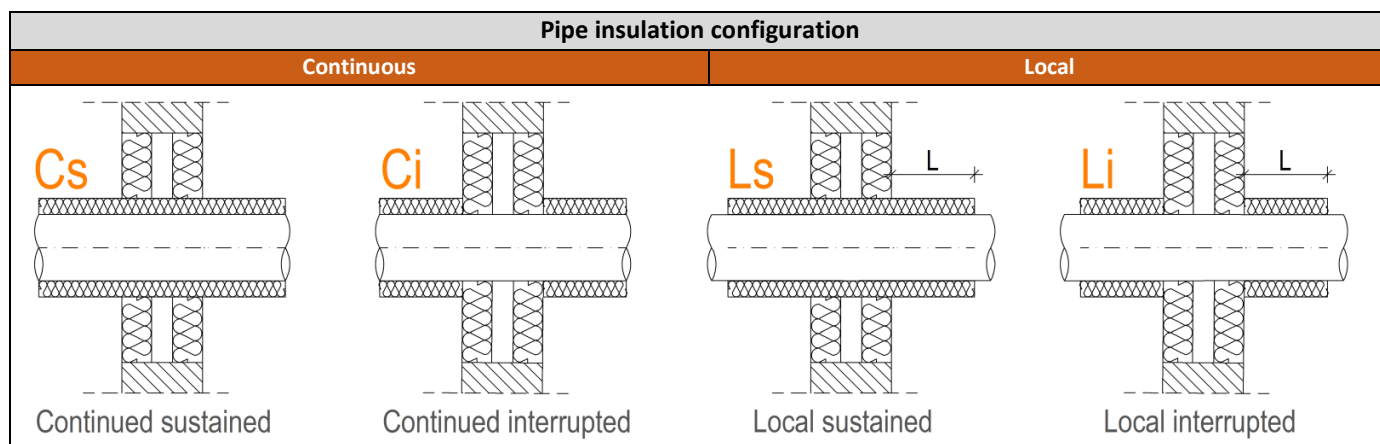


Table 1. Parameters for penetration seal of non-flammable pipes in RIGID WALL (partition filling: 2 x mineral wool board)

Type of penetrating element						Partition: RIGID WALL with thickness A ≥ 150 mm		
Pipe		Pipe wall thickness (mm)	Pipe insulation			Min. insulation painting with INTU FR COAT A length x thickness	Partition filling	Fire resistance classification C/U and C/C
MINERAL WOOL INSULATED METAL PIPES Density of mineral wool on pipes $\rho \geq 37 \text{ kg/m}^3$	Pipe diameter (mm)		Insulation length - L (mm)	Insulation thickness - g (mm)	Insulation config			
STEEL	$\varnothing \leq 42,4$	2,0 – 14,2	$L \geq 250$	≥ 30	Cs, Ci, Ls, Li	50 x 0,6	2 x mineral wool board INTU FR BOARD A	EI 120
	$42,4 < \varnothing \leq 48,3$	2,2 – 14,2	$L \geq 250$	≥ 30				
	$48,3 < \varnothing \leq 60,3$	2,6 – 14,2	$L \geq 250$	≥ 50				
	$60,3 < \varnothing \leq 76,1$	3,1 – 14,2	$L \geq 250$	≥ 50				
	$76,1 < \varnothing \leq 88,9$	3,5 – 14,2	$L \geq 250$	≥ 50				
	$88,9 < \varnothing \leq 108,0$	4,0 – 14,2	$L \geq 250$	≥ 50				
	$108,0 < \varnothing \leq 159,0$	4,0 – 14,2	$L \geq 650$	≥ 50				
	$159,0 < \varnothing \leq 219,0$	4,5 – 14,2	$L \geq 650$	≥ 50				
COPPER	$\varnothing \leq 6,0$	$\geq 0,8$	$L \geq 500$	≥ 30	Cs, Ci, Ls, Li	50 x 0,6	2 x mineral wool board INTU FR BOARD A	EI 120
	$6,0 < \varnothing \leq 22,0$	$\geq 1,0$	$L \geq 700$	≥ 50	Cs, Ls			
	$22,0 < \varnothing \leq 35,0$	1,3 – 14,2	$L \geq 700$	≥ 50				
	$35,0 < \varnothing \leq 42,0$	1,5 – 14,2	$L \geq 700$	≥ 50				
	$42,0 < \varnothing \leq 54,0$	1,7 – 14,2	$L \geq 700$	≥ 50				
	$54,0 < \varnothing \leq 88,9$	2,2 – 14,2	$L \geq 700$	≥ 50				

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Table 2. Parameters for penetration seal of non-flammable pipes in RIGID FLOOR (partition filing: 2 x mineral wool board)

Type of penetrating element					Partition: RIGID FLOOR with thickness A ≥ 150 mm				
Pipe		Pipe insulation			Min. insulation painting with INTU FR COAT A length x thickness (mm)	Partition filling	Fire resistance classification C/U and C/C		
Pipe material	Pipe diameter (mm)	Pipe wall thickness (mm)	Insulation length - L (mm)	Insulation thickness - g (mm)			Cs, Ls	Pipe insulation configuration	
								Ci, Li	
MINERAL WOOL INSULATED METAL PIPES Density of mineral wool on pipes $\rho \geq 37 \text{ kg / m}^3$									
STEEL	$\varnothing \leq 42,4$	2,0 – 14,2	$L \geq 250$	≥ 30	50 x 0,6	2 x mineral wool board INTU FR BOARD A	EI 180	EI 240	
	$42,4 < \varnothing \leq 48,3$	2,2 – 14,2	$L \geq 250$	≥ 50			EI 120	EI 120	
	$48,3 < \varnothing \leq 60,3$	2,6 – 14,2	$L \geq 250$	≥ 50					
	$60,3 < \varnothing \leq 76,1$	3,1 – 14,2	$L \geq 250$	≥ 50					
	$76,1 < \varnothing \leq 88,9$	3,5 – 14,2	$L \geq 250$	≥ 50					
	$88,9 < \varnothing \leq 108,0$	4,0 – 14,2	$L \geq 250$	≥ 50					
	$108,0 < \varnothing \leq 159,0$	4,0 – 14,2	$L \geq 650$	≥ 50					
	$159,0 < \varnothing \leq 219,0$	4,5 – 14,2	$L \geq 650$	≥ 50					
COPPER	$\varnothing \leq 6,0$	$\geq 0,8$	$L \geq 500$	≥ 30	50 x 0,6	2 x mineral wool board INTU FR BOARD A	EI 240	EI 240	
	$6,0 < \varnothing \leq 22,0$	$\geq 1,0$	$L \geq 500$	≥ 30			EI 180	EI 60	
	$22,0 < \varnothing \leq 35,0$	1,3 – 14,2	$L \geq 500$	≥ 30					
	$35,0 < \varnothing \leq 42,0$	1,5 – 14,2	$L \geq 500$	≥ 30					
	$42,0 < \varnothing \leq 54,0$	1,7 – 14,2	$L \geq 500$	≥ 30					
	$54,0 < \varnothing \leq 88,9$	2,2 – 14,2	$L \geq 700$	≥ 50			EI 90	EI 90	

Table 3. Parameters for penetration seal of non-flammable pipes in RIGID FLOOR (partition filing: 1 x mineral wool board)

Type of penetrating element					Partition: RIGID WALL with thickness A ≥ 150 mm			
Pipe		Pipe insulation			Min. insulation painting with INTU FR COAT A length x thickness (mm)	Partition filling installed on the floor bottom	Fire resistance classification C/U and C/C	
Pipe material	Pipe diameter (mm)	Pipe wall thickness (mm)	Insulation length - L (mm)	Insulation thickness - g (mm)				Insulation config
MINERAL WOOL INSULATED METAL PIPES Density of mineral wool on pipes $\rho \geq 37 \text{ kg / m}^3$								
STEEL	$\varnothing \leq 42,4$	2,0 – 14,2	$L \geq 250$	≥ 30	Cs, Ls	50 x 0,6	1 x mineral wool board INTU FR BOARD A	EI 90
	$42,4 < \varnothing \leq 48,3$	2,2 – 14,2	$L \geq 250$	≥ 50				EI 60
	$48,3 < \varnothing \leq 60,3$	2,6 – 14,2	$L \geq 250$	≥ 50				
	$60,3 < \varnothing \leq 76,1$	3,1 – 14,2	$L \geq 250$	≥ 50				
	$76,1 < \varnothing \leq 88,9$	3,5 – 14,2	$L \geq 250$	≥ 50				
	$88,9 < \varnothing \leq 108,0$	4,0 – 14,2	$L \geq 250$	≥ 50				

INTU FR BOARD A

Fire rated ablative board

TDS TECHNICAL DATA SHEET

➔ SOLUTION DETAILS for metal pipes penetration seals

NON-FLAMMABLE PIPES (continuous insulation)

Fig. 1. Wall penetration $A \geq 150\text{mm}$

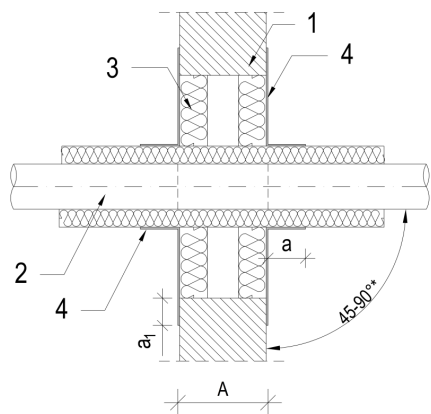
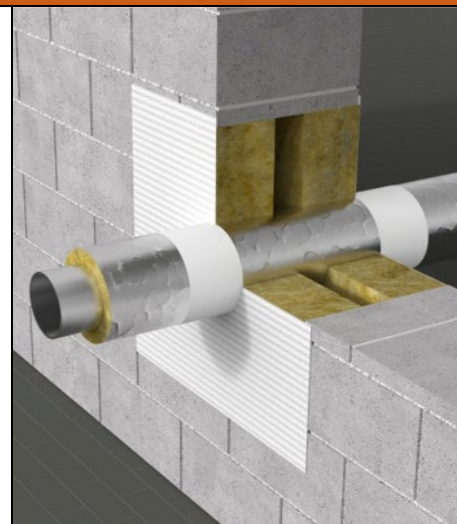
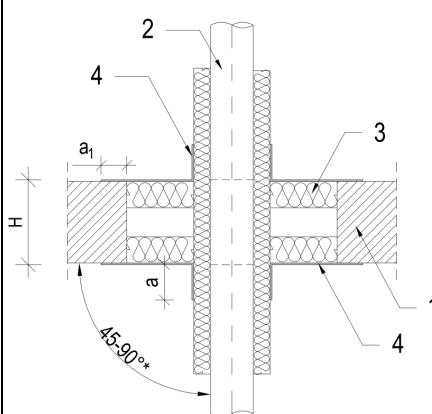


Fig. 2. Floor penetration $A \geq 150\text{mm}$



- 1 – rigid wall or rigid floor
- 2 – non-flammable pipe
- 3 – mineral wool board **INTU FR BOARD A**
- 4 – mineral wool insulation, density $\rho \geq 37 \text{ kg/m}^3$, length L and thickness g according to Technical Data
- 5 – **INTU FR COAT A** ablative paint, partition overlap $a_1 \geq 10 \text{ mm}$; mineral wool insulation overlap $a \geq 50 \text{ mm}$

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

NON-FLAMMABLE PIPES (non-continuous insulation)

Fig. 3. Wall penetration $A \geq 150\text{mm}$

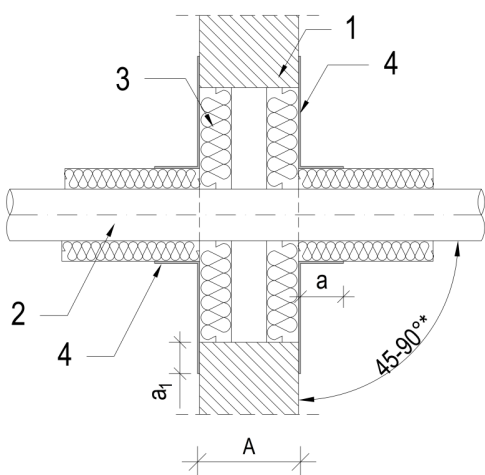
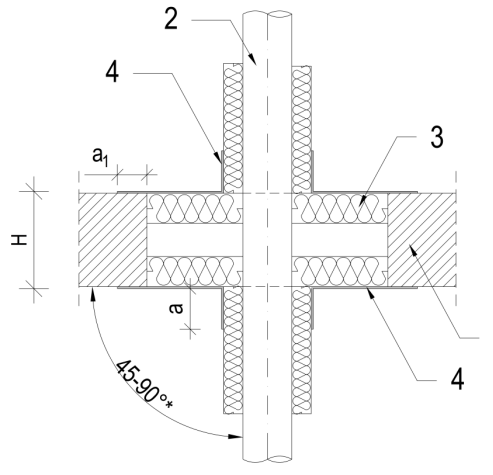


Fig. 4. Floor penetration $A \geq 150\text{mm}$



- 1 – rigid wall or rigid floor
- 2 – non-flammable pipe
- 3 – mineral wool board **INTU FR BOARD A**
- 4 – mineral wool insulation with density $\rho \geq 37 \text{ kg/m}^3$, length L and thickness g according to Technical Data

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

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➔ TECHNICAL DATA for linear joints

Possible orientation of linear joints seals		
<p>linear joint A horizontal supporting construction</p>	<p>vertical linear joint B vertical supporting construction</p>	<p>horizontal linear joint C vertical supporting construction</p>
<p>floor, ceiling, roof D horizontal wall joint</p>		
Fire resistance for linear joints in RIGID FLOOR gap with total width $w \leq 100$ mm		
<p>Orientation: A $d \geq 100$ mm (depth of wool)</p>	<p>Orientation: D $d \geq 100$ mm (depth of wool)</p>	<p>Orientation: D $d \geq 50$ mm (depth of wool)</p>
<p>min. 150 mm 1, 2, 3, w, b, a, p</p>	<p>min. 150 mm 1, 2, 3, w, b, d</p>	<p>min. 150 mm 1, 2, 3, w, b, d</p>
<p>EI120 Wool from any side of the partition</p>	<p>EI120 - EI240 Wool from any side of the partition</p>	<p>EI120 $d \geq 50$ mm (depth of wool)</p>
Fire resistance for linear joints in RIGID WALL gap with total width $w \leq 100$ mm		
<p>Orientation: B $d \geq 100$ mm (depth of wool)</p>	<p>Orientation: C $d \geq 100$ mm (depth of wool)</p>	<p>Orientation: B or C</p>
<p>min. 150 mm 1, 2, 3, w, b, a, p</p>	<p>min. 150 mm 1, 2, 3, w, b, a, d</p>	<p>min. 150 mm 1, 2, 3, w, b, a, d</p>
<p>Vertical: EI 120 - EI240 Wool from any side of the partition</p>	<p>Horizontal: EI120 - EI180 Wool from any side of the partition</p>	<p>EI 120</p>
<p>1 – wall / floor with thickness ≥ 150 mm; gap with total width $w \leq 100$ mm; 2 – INTU FR BOARD A 3 – coating of INTU FR COAT A on the mineral wool and wall (on one side of the wall): - length $a \geq W + 2 \times 5$ mm (the wall is covered on the width of at least 5 mm from the both edges of linear joint) - thickness $b \geq 1,0$ mm (on the mineral wool) or $b \geq 0,6$ mm on the wall</p>		