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European Technical Assessment

ETA-19/0037 of 28/06/2019

General Part

Technical Assessment Body issuing the European Technical Assessment	Instytut Techniki Budowlanej
Trade name of the construction product	INTU FR COAT A INTU FR BOARD A
Product family to which the construction product belongs	Fire Stopping and Fire Sealing Products. Linear Joint and Gap Seals
Manufacturer	INTUSEAL Sp. z o.o. ul. Kineskopowa 1 05-500 Piaseczno Poland
Manufacturing plant	Plant MPA1
This European Technical Assessment contains	14 pages including 2 Annexes which form an integral part of this Assessment
This European Technical Assessment is issued in accordance with regulation (EU) No 305/2011, on the basis of	European Assessment Document EAD 350141-00-1106 "Fire Stopping and Fire Sealing Products. Linear Joint and Gap Seals"

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Specific Part

1 Technical description of the product

INTU FR COAT A is a white, one component, ablative paint, used as a membrane-forming coating in linear joint or gap seals in walls and floors. The INTU FR COAT A is supplied in liquid form in buckets and is applied onto mineral wool, used as a backing material.

INTU FR BOARD A is a pre-painted board, made of stone mineral wool board in accordance with EN 14303 or EN 13162, with density of at least 150 kg/m^3 and thickness of at least 60 mm, covered on external side (side which is exposed to fire) with INTU FR COAT A paint, with thickness ≥ 1,0 mm.

Auxiliary product, used with INTU FR COAT A and INTU FR BOARD A to form linear joint and gap seals is stone mineral wool in accordance with EN 14303 or EN 13162, used as a backing material.

2 Specification of the intended use in accordance with the applicable European Assessment Document (EAD)

2.1 Intended use

The intended use INTU FR COAT A and INTU FR BOARD A is to reinstate the fire resistance performance of rigid wall or rigid floor constructions where there are linear joints and gaps.

INTU FR COAT A and INTU FR BOARD A shall be used in the following construction elements, depending on the type of the seal:

Type 1, 2 and 3 – rigid walls:	The wall must have a minimum thickness of 150 mm and comprise concrete, reinforced concrete, aerated concrete, bricks or blocks, with a minimum density of 600 kg/m^3.
Type 4, 5, 6, 7 and 8 – rigid walls abutting rigid floors:	The wall must have a minimum thickness of 150 mm and comprise reinforced concrete, with a minimum density of 1700 kg/m^3.
Type 4, 5, 6, 7 and 8 – rigid floors:	The floor must have a minimum thickness of 150 mm and comprise reinforced concrete, with a minimum density of 1700 kg/m^3.

Types of the seals are specified in Annex B.

The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period (equal or greater than specified in Annex B).

The permitted joint / gap width for the INTU FR COAT A and INTU FR BOARD A is specified in Annex B.

The INTU FR COAT A and INTU FR BOARD A shall be used to form linear joint or gap seals with movement capability lower than 7.5% (non-movement joints).

The performances given in this European Technical Assessment are based on an assumed working life of the INTU FR COAT A and INTU FR BOARD A of 10 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer or the Technical Assessment Body, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

Additional provisions are given in Annex A.

2.2 Use category

Type Z_2: intended for use in internal conditions with humidity lower than 85% RH, excluding temperatures below 0°C, without exposure to rain or UV.

3 Performance of the product and references to the methods used for its assessment

3.1 Performance of the product

3.1.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	No performance assessed
Resistance to fire	Annex B

3.1.2 Hygiene, health and the environment (BWR 3)

No performance assessed.

3.1.3 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Mechanical resistance and stability	No performance assessed
Resistance to impact / movement	No performance assessed
Adhesion	No performance assessed
Durability	Use category: Type Z_2
Movement capability	No performance assessed (non-movement joints)

3.1.4 Protection against noise (BWR 5)

No performance assessed.

3.1.5 Energy economy and heat retention (BWR 6)

No performance assessed.

3.2 Methods used for the assessment

The assessment of the products has been made in accordance with the European Assessment Document 350141-00-1106 "Fire Stopping and Fire Sealing Products. Linear Joint and Gap Seals".

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

According to Decision 99/454/EC of the European Commission, as amended by Decision 2001/596/EC of the European Commission the system 1 of assessment and verification of constancy of performance applies (see Annex V to Regulation (EU) No 305/2011).

5 Technical details necessary for the implementation of the AVCP system, as provided in the applicable European Assessment Document (EAD)

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited in Instytut Techniki Budowlanej.

For type testing the results of the tests performed as part of the assessment for the European Technical Assessment shall be used unless there are changes in the production line or plant. In such cases the necessary type testing has to be agreed between Instytut Techniki Budowlanej and the notified body.

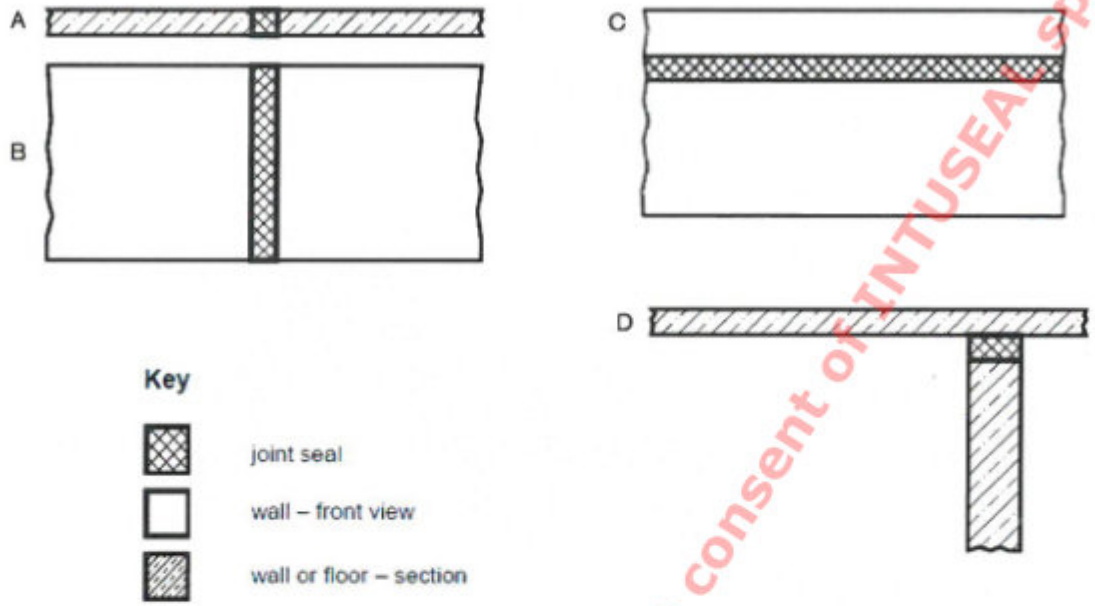
Issued in Warsaw on 28/06/2019 by Instytut Techniki Budowlanej

Anna Panek, MSc
Deputy Director of ITB

Additional provisions

- Possible orientation of the linear joint seals is presented in fig. A1.

Fig. A1. Possible orientation of linear joints seals made with use of INTU FR COAT A and INTU FR BOARD A



A linear joint in a horizontal supporting construction
B vertical linear joint in a vertical supporting construction
C horizontal linear joint in a vertical supporting construction
D horizontal wall joint abutting a floor, ceiling or roof

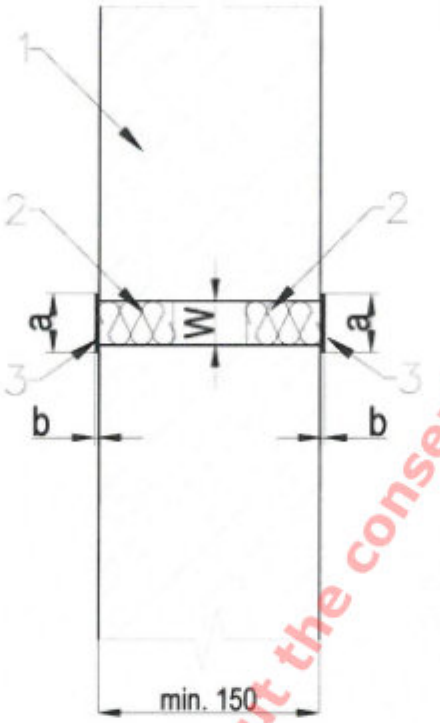
Seal type in accordance with Annex B	Possible orientation in accordance with fig. A1
Type 1	B, C
Type 2	
Type 3	
Type 4	A, D
Type 5	
Type 6	
Type 7	
Type 8	

- The INTU FR COAT A and INTU FR BOARD A shall be applicable only to straight parallel edge surfaces of linear joints or gaps.

Fig. B1. Vertical or horizontal linear joint seal (type 1) in rigid wall

dimensions in mm

Type 1



1 Rigid wall with thickness ≥ 150 mm and density ≥ 600 kg/m^3

2 INTU FR BOARD A and/or mineral wool with minimum density of 150 kg/m^3:
- width W, total depth ≥ 100 mm (≥ 50 mm from each side of the wall)

3 Coating of INTU FR COAT A on the mineral wool and wall (on both sides of the wall):
- length a ≥ W + 2 x 5 mm (the wall is covered on the width of at least 5 mm from both edges of linear joint)
- thickness b ≥ 1,0 mm (on the mineral wool) or b ≥ 0,6 mm (on the wall)

W Width of the linear joint seal (see fire resistance class)

Resistance to fire classification of vertical linear joint seal in rigid wall, in accordance with fig. B1 and Annex A:

Fire resistance class: EI 120 – V – X – B – W 10 to 100

Resistance to fire classification of horizontal linear joint seal in rigid wall, in accordance with fig. B1 and Annex A:

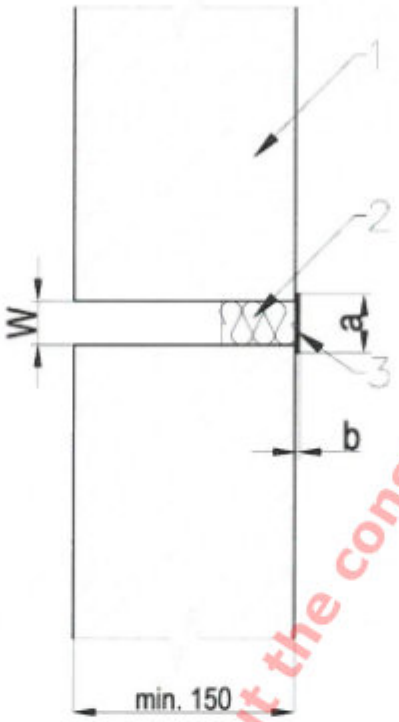
Fire resistance class: EI 120 – T – X – B – W 10 to 100

INTU FR COAT A and INTU FR BOARD A	**Annex B1**
Installation details and resistance to fire classification of linear joint seals	of European Technical Assessment ETA-19/0037

Fig. B2. Vertical or horizontal linear joint seal (type 2) in rigid wall

dimensions in mm

Type 2



1 Rigid wall with thickness ≥ 150 mm and density ≥ 600 kg/m^3

2 INTU FR BOARD A and/or mineral wool with minimum density of 150 kg/m^3:
- width W, depth ≥ 100 mm

3 Coating of INTU FR COAT A on the mineral wool and wall (on one side of the wall):
- length a ≥ W + 2 x 5 mm (the wall is covered on the width of at least 5 mm from both edges of linear joint)
- thickness b ≥ 1,0 mm (on the mineral wool) or b ≥ 0,6 mm (on the wall)

W Width of the linear joint seal (see fire resistance class)

Resistance to fire classification of vertical linear joint seal in rigid wall, in accordance with fig. B2 and Annex A:

Fire resistance class: EI 120 – V – X – B – W 10 to 100

Resistance to fire classification of horizontal linear joint seal in rigid wall, in accordance with fig. B2 and Annex A:

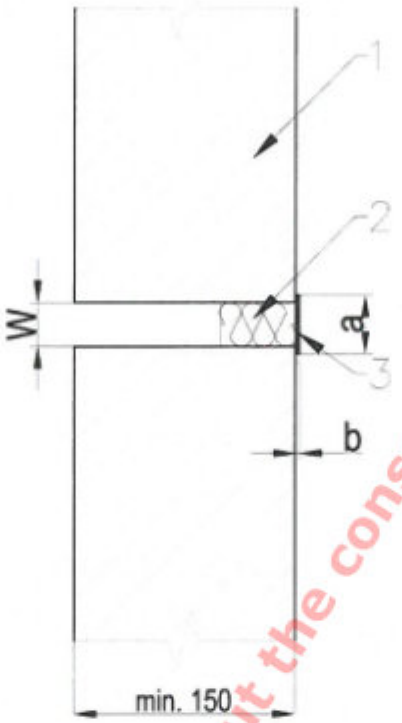
Fire resistance class: EI 120 – T – X – B – W 10 to 100

INTU FR COAT A and INTU FR BOARD A	**Annex B2**
Installation details and resistance to fire classification of linear joint seals	of European Technical Assessment ETA-19/0037

Fig. B3. Vertical or horizontal linear joint seal (type 3) in rigid wall

dimensions in mm

Type 3



1 Rigid wall with thickness ≥ 150 mm and density ≥ 600 kg/m^3

2 INTU FR BOARD A and/or mineral wool with minimum density of 50 kg/m^3:
- width W, depth ≥ 100 mm

3 Coating of INTU FR COAT A on the mineral wool and wall (on one side of the wall):
- length a ≥ W + 2 x 5 mm (the wall is covered on the width of at least 5 mm from both edges of linear joint)
- thickness b ≥ 1,0 mm (on the mineral wool) or b ≥ 0,6 mm (on the wall)

W Width of the linear joint seal (see fire resistance class)

Resistance to fire classification of vertical linear joint seal in rigid wall, in accordance with fig. B3 and Annex A:

Fire resistance class: EI 240 – V – X – B – W 10 to 100

Resistance to fire classification of horizontal linear joint seal in rigid wall, in accordance with fig. B3 and Annex A:

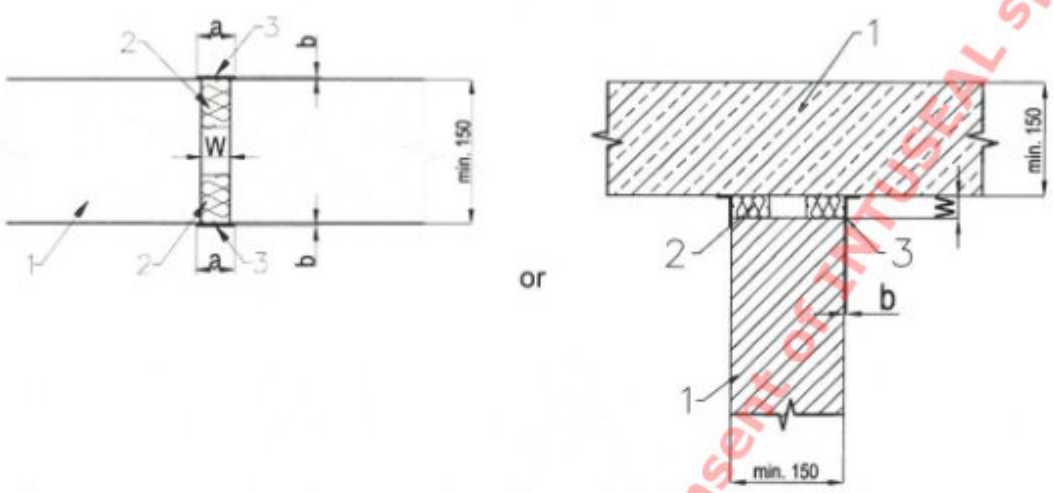
Fire resistance class: EI 180 – T – X – B – W 10 to 100

INTU FR COAT A and INTU FR BOARD A	**Annex B3**
Installation details and resistance to fire classification of linear joint seals	of European Technical Assessment ETA-19/0037

Fig. B4. Horizontal linear joint seal (type 4) in rigid floor or in rigid wall abutting a rigid floor

dimensions in mm

Type 4



1 Rigid floor or rigid wall with thickness ≥ 150 mm and density ≥ 1700 kg/m^3

2 INTU FR BOARD A and/or mineral wool with minimum density of 150 kg/m^3:
- width W, total depth ≥ 100 mm (≥ 50 mm from each side of the floor / wall)

3 Coating of INTU FR COAT A on the mineral wool and supporting construction (on both sides of the supporting construction):
- length a ≥ W + 2 x 5 mm (the supporting construction is covered on the width of at least 5 mm from both edges of linear joint)
- thickness b ≥ 1,0 mm (on the mineral wool) or b ≥ 0,6 mm (on the supporting construction)

W Width of the linear joint seal (see fire resistance class)

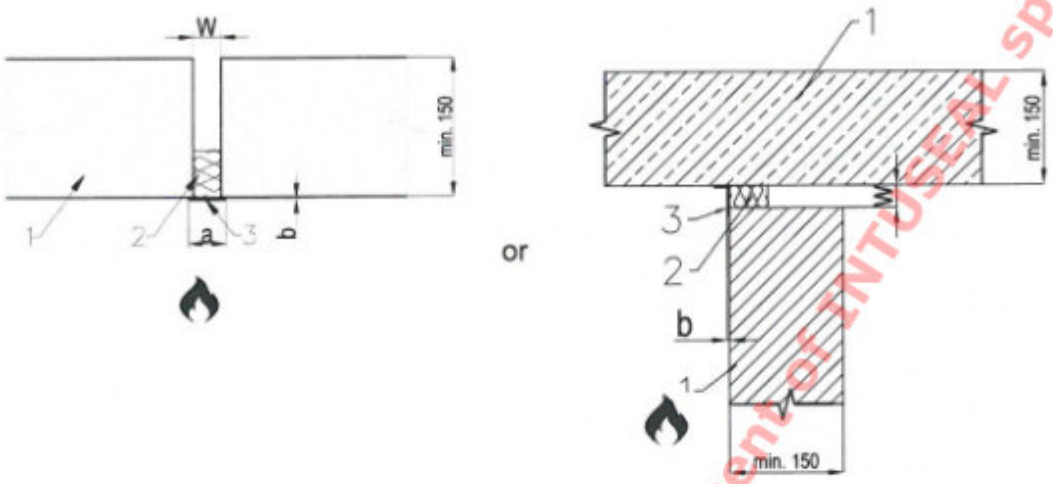
Resistance to fire classification of horizontal linear joint seal in rigid floor or in rigid wall abutting a rigid floor, in accordance with fig. B4 and Annex A:

Fire resistance class: EI 120 – H – X – B – W 10 to 100

Fig. B5. Horizontal linear joint seal (type 5) in rigid floor or in rigid wall abutting a rigid floor

dimensions in mm

Type 5



1 Rigid floor or rigid wall with thickness ≥ 150 mm and density ≥ 1700 kg/m^3

2 INTU FR BOARD A and/or mineral wool with minimum density of 150 kg/m^3:
- width W, depth ≥ 100 mm

3 Coating of INTU FR COAT A on the mineral wool and supporting construction (on one side of the supporting construction):
- length a ≥ W + 2 x 5 mm (the supporting construction is covered on the width of at least 5 mm from both edges of linear joint)
- thickness b ≥ 1,0 mm (on the mineral wool) or b ≥ 0,6 mm (on the supporting construction)

W Width of the linear joint seal (see fire resistance class)

Indicates the side of the supporting construction which is exposed to fire

Resistance to fire classification of horizontal linear joint seal in rigid floor or in rigid wall abutting a rigid floor, in accordance with fig. B5 and Annex A:

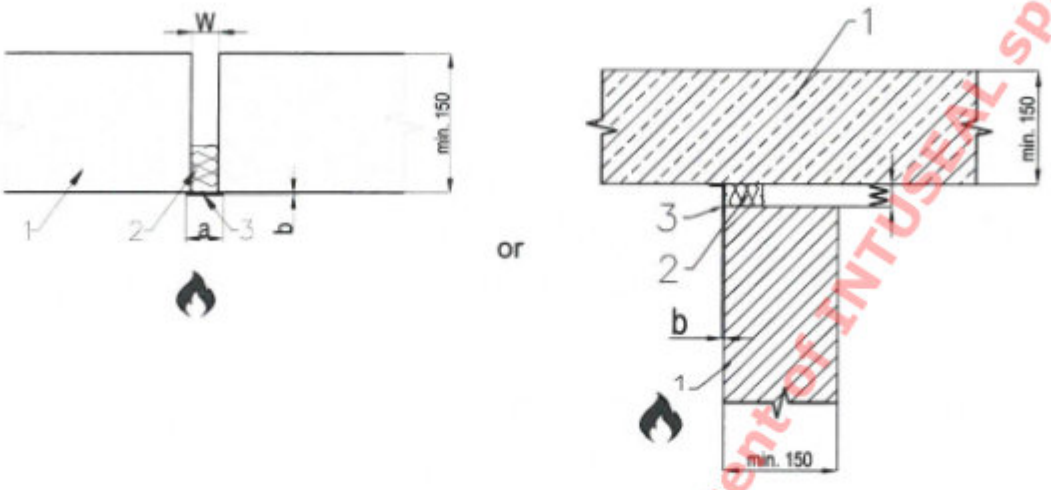
Fire resistance class: EI 120 – H – X – B – W 10 to 100

INTU FR COAT A and INTU FR BOARD A	**Annex B5**
Installation details and resistance to fire classification of linear joint seals	of European Technical Assessment ETA-19/0037

Fig. B6. Horizontal linear joint seal (type 6) in rigid floor or in rigid wall abutting a rigid floor

dimensions in mm

Type 6



1 Rigid floor or rigid wall with thickness ≥ 150 mm and density ≥ 1700 kg/m^3

2 INTU FR BOARD A and/or mineral wool with minimum density of 50 kg/m^3:
- width W, depth ≥ 100 mm

3 Coating of INTU FR COAT A on the mineral wool and supporting construction (on one side of the supporting construction):
- length a ≥ W + 2 x 5 mm (the supporting construction is covered on the width of at least 5 mm from both edges of linear joint)
- thickness b ≥ 1,0 mm (on the mineral wool) or b ≥ 0,6 mm (on the supporting construction)

W Width of the linear joint seal (see fire resistance class)

Indicates the side of the supporting construction which is exposed to fire

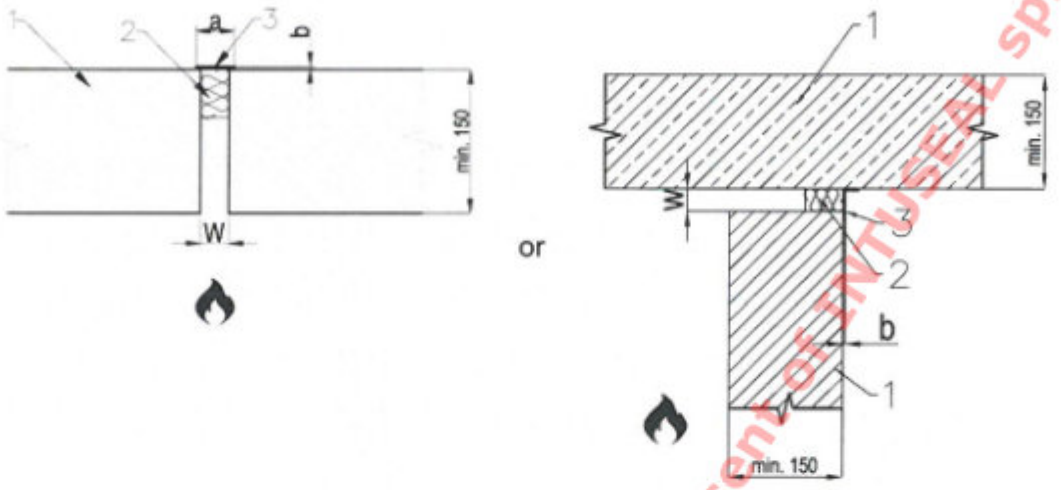
Resistance to fire classification of horizontal linear joint seal in rigid floor or in rigid wall abutting a rigid floor, in accordance with fig. B6 and Annex A:

Fire resistance class: EI 240 – H – X – B – W 10 to 100

Fig. B7. Horizontal linear joint seal (type 7) in rigid floor or in rigid wall abutting a rigid floor

dimensions in mm

Type 7



1 Rigid floor or rigid wall with thickness ≥ 150 mm and density ≥ 1700 kg/m^3

2 INTU FR BOARD A and/or mineral wool with minimum density of 150 kg/m^3:
- width W, depth ≥ 100 mm

3 Coating of INTU FR COAT A on the mineral wool and supporting construction (on one side of the supporting construction):
- length a ≥ W + 2 x 5 mm (the supporting construction is covered on the width of at least 5 mm from both edges of linear joint)
- thickness b ≥ 1,0 mm (on the mineral wool) or b ≥ 0,6 mm (on the supporting construction)

W Width of the linear joint seal (see fire resistance class)

Indicates the side of the supporting construction which is exposed to fire

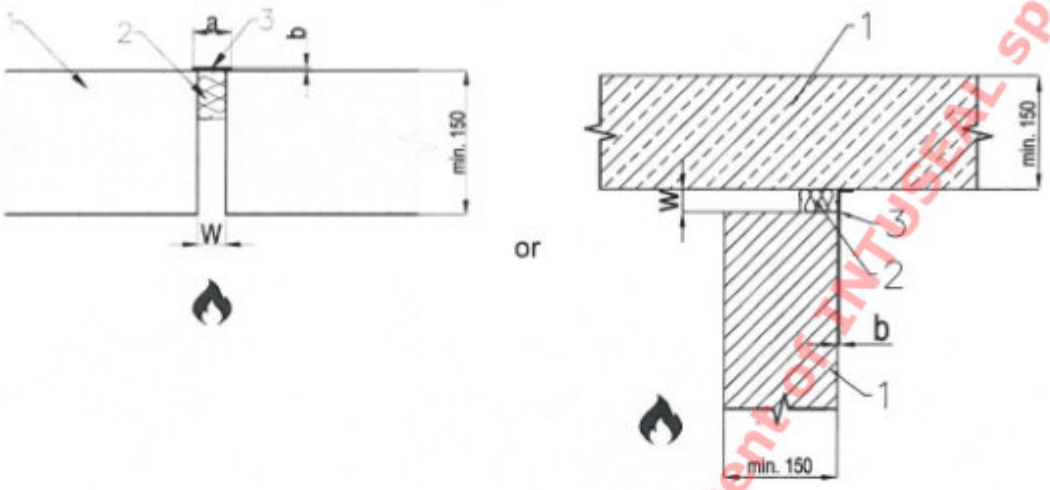
Resistance to fire classification of horizontal linear joint seal in rigid floor or in rigid wall abutting a rigid floor, in accordance with fig. B7 and Annex A:

Fire resistance class: EI 120 – H – X – B – W 10 to 100

Fig. B8. Horizontal linear joint seal (type 8) in rigid floor or in rigid wall abutting a rigid floor

dimensions in mm

Type 8



1 Rigid floor or rigid wall with thickness ≥ 150 mm and density ≥ 1700 kg/m^3

2 INTU FR BOARD A and/or mineral wool with minimum density of 50 kg/m^3:
- width W, depth ≥ 100 mm

3 Coating of INTU FR COAT A on the mineral wool and supporting construction (on one side of the supporting construction):
- length a ≥ W + 2 x 5 mm (the supporting construction is covered on the width of at least 5 mm from both edges of linear joint)
- thickness b ≥ 1,0 mm (on the mineral wool) or b ≥ 0,6 mm (on the supporting construction)

W Width of the linear joint seal (see fire resistance class)

Indicates the side of the supporting construction which is exposed to fire

Resistance to fire classifications of horizontal linear joint seals in rigid floor or in rigid wall abutting a rigid floor, in accordance with fig. B8 and Annex A:

Fire resistance class: EI 240 – H – X – B – W 10

Fire resistance class: EI 180 – H – X – B – W 11 to 100