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## European Technical Assessment

**ETA-20/1122  
of 30/12/2020**

### General Part

**Technical Assessment Body issuing the European Technical Assessment**

Instytut Techniki Budowlanej

**Trade name of the construction product**

Novatherm SP

**Product family to which the construction product belongs**

Fire Stopping and Fire Sealing Products.  
Linear Joint and Gap Seals

**Manufacturer**

Protega AB  
Verkstadsgatan 6B  
231 66 Trelleborg  
Sweden

**Manufacturing plant**

Protega AB  
Verkstadsgatan 6B  
231 66 Trelleborg  
Sweden

**This European Technical Assessment contains**

15 pages including 1 Annex 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

The Novatherm SP is an acrylic based sealant used to seal linear joints and gaps in and between walls and floors to reinstate the fire resistance performance of wall and floor constructions, where they incorporate apertures or abut each other.

The Novatherm SP is supplied in liquid form contained within 310 ml cartridges and 600 ml foils. The sealant is gunned or trowelled into the aperture in or between the separating element / elements to a specified depth utilising backing material.

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

#### 2.1 Intended use

The intended use of Novatherm SP is to reinstate the fire resistance performance of rigid or flexible wall and rigid floor constructions where there are linear joints and gaps.

The specific elements of construction, that Novatherm SP may be used to provide a linear joint or gap seal in, are, depending on the type of the seal, as follows:

- Rigid floors: The floor must have a minimum thickness of 150 mm and comprise concrete, aerated concrete (AAC) or masonry, with a minimum density of 650 kg/m<sup>3</sup>.
- Rigid walls: The wall must have a minimum thickness of 150 mm and comprise concrete, aerated concrete (AAC) or masonry, with a minimum density of 650 kg/m<sup>3</sup>.
- Flexible walls: The wall must have a minimum thickness of 100 mm and comprise timber or steel studs lined on both faces with minimum 2 layers of 12,5 mm thick, 'Type F' Gypsum boards according to EN 520. In timber stud walls, no part of the linear joint shall be closer than 100 mm to a stud, the cavity must be closed between the linear joint and the stud and minimum 100 mm of insulation of class A1 or A2 according to EN 13501-1, is provided within the cavity between the penetration seal and the stud.

Types of the seals are specified in Annex A.

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 A).

The Novatherm SP may be used to provide a linear joint or gap seal with specific supporting constructions and substrates (for details see Annex A).

The permitted joint / gap width is specified in Annex A. The maximum permitted joint / gap width is 50 mm.

The Novatherm SP shall be used to form linear joint or gap seals with movement capability lower than 7.5%.

The provisions made in this European Technical Assessment are based on an assumed working life of the Novatherm SP of 25 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 A1.

## 2.2 Use category

Type Z<sub>2</sub>: intended for use in internal conditions with humidity lower than 85% excluding temperatures below 0°C.

## 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 A

#### 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 <sub>2</sub>
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 EAD 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.

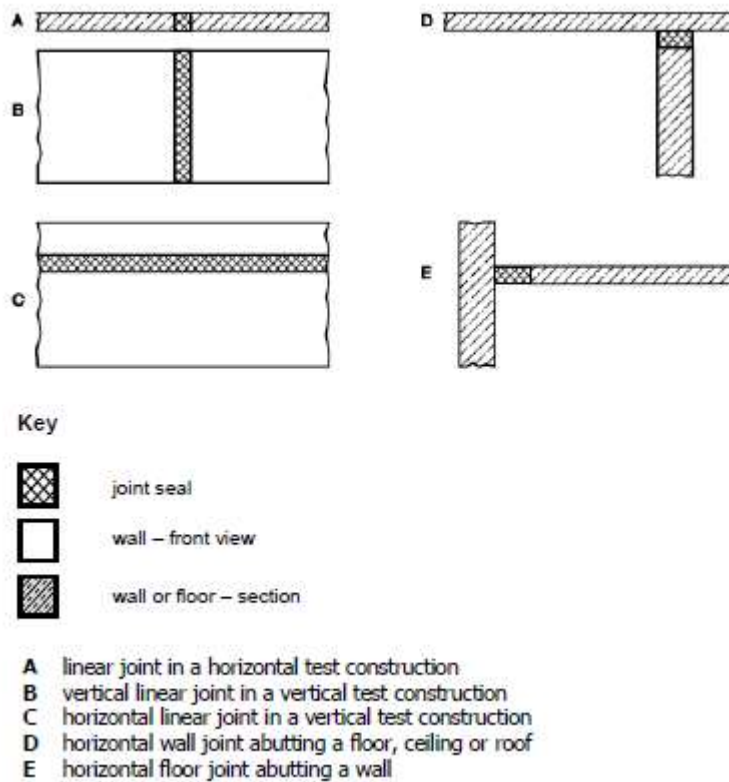
Issued in Warsaw on 30/12/2020 by Instytut Techniki Budowlanej



Anna Panek, MSc  
Deputy Director of ITB

**Additional provisions**

- Novatherm SP shall be applicable only to straight parallel edge surfaces of linear joints or gaps.
- Possible orientation of the linear joint seals is given in fig. A1 and Table A1.



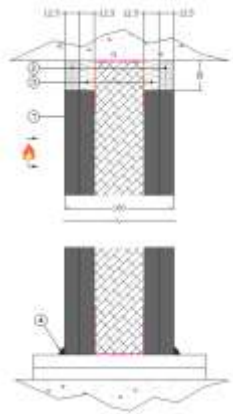
**Fig. A1.** Possible orientation of linear joint seals

**Table A1**

Tested orientation	Possible orientation in accordance with fig. A1
A	A, D, E <sup>a</sup>
B	B
C	C, D <sup>b</sup>
<sup>a</sup> Orientation E will only be covered by test orientation A if shear movement was chosen and one face of the joint was fixed and the other was moved. <sup>b</sup> Orientation D will only be covered by test orientation C if shear movement was chosen and one face of the joint was fixed and the other was moved.	

<b>Novatherm SP</b>	<b>Annex A1</b> of European Technical Assessment ETA-20/1122
<b>Additional provisions</b>	

**Fig. A2.** Horizontal linear joint seal of Novatherm SP in flexible walls (plasterboard head of wall) thickness of  $\geq 100$  mm.

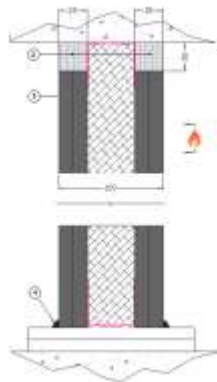


1. Plasterboard Partition
2. Novatherm SP
3. Mineral wool (stonewool) min. 12.5 mm (43 kg/m<sup>3</sup>)

**Resistance to fire classification of linear joint seal in flexible walls, in accordance with fig. A2 and Annex A1:**

Novatherm SP depth, mm	Substrates	Seal face orientation	Fire resistance class
12.5	Plasterboard - AAC	both faces (side exposed and unexposed to fire)	<b>EI 120 – T – X – F – W 00-30</b>

**Fig. A3.** Horizontal linear joint seal of Novatherm SP in flexible walls (plasterboard head of wall) thickness of  $\geq 100$  mm.



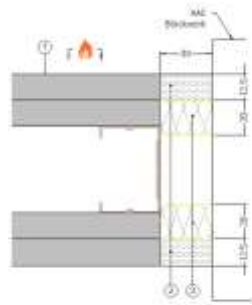
1. Plasterboard Partition
2. Novatherm SP
3. Mineral wool (stonewool) min. 20 mm (43 kg/m<sup>3</sup>)

**Resistance to fire classification of linear joint seal in flexible walls, in accordance with fig. A3 and Annex A1:**

Novatherm SP depth, mm	Substrates	Seal face orientation	Fire resistance class
25	Plasterboard - AAC	both faces (side exposed and unexposed to fire)	<b>EI 120 – T – X – F – W 00-30</b>

<b>Novatherm SP</b>	<b>Annex A2</b> of European Technical Assessment ETA-20/1122
<b>Installation details and resistance to fire classification of linear joint seals</b>	

**Fig. A4.** Vertical linear joint seal of Novatherm SP in flexible walls (plasterboard vertical edge) thickness of  $\geq 100$  mm.

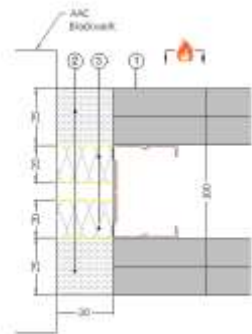


1. Plasterboard Partition
2. Novatherm SP
3. Mineral wool (stonewool) min. 12.5 mm (43 kg/m<sup>3</sup>)

**Resistance to fire classification of linear joint seal in flexible walls, in accordance with fig. A4 and Annex A1:**

Novatherm SP depth, mm	Substrates	Seal face orientation	Fire resistance class
12.5	Plasterboard - AAC	both faces (side exposed and unexposed to fire)	EI 120 – V – X – F – W 00-30

**Fig. A5.** Vertical linear joint seal of Novatherm SP in flexible walls (plasterboard vertical edge) thickness of  $\geq 100$  mm.



1. Plasterboard Partition
2. Novatherm SP
3. Mineral wool (stonewool) min. 20 mm (43 kg/m<sup>3</sup>)

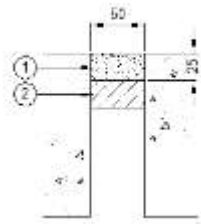
**Resistance to fire classification of linear joint seal in flexible walls, in accordance with fig. A5 and Annex A1:**

Novatherm SP depth, mm	Substrates	Seal face orientation	Fire resistance class
25	Plasterboard - AAC	both faces (side exposed and unexposed to fire)	EI 120 – V – X – F – W 00-30

<b>Novatherm SP</b>	<b>Annex A3</b> of European Technical Assessment ETA-20/1122
<b>Installation details and resistance to fire classification of linear joint seals</b>	



**Fig. A6.** Vertical linear joint seal of Novatherm SP in rigid walls thickness of  $\geq 150$  mm.

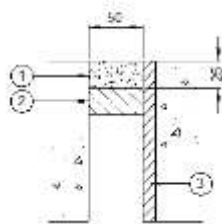


- 1. Novatherm SP
- 2. Mineral wool (rockwool) min. 25 mm (45 kg/m<sup>3</sup>)

**Resistance to fire classification of linear joint seal in rigid walls, in accordance with fig. A6 and Annex A1:**

Novatherm SP depth, mm	Substrates	Seal face orientation	Fire resistance class
25	AAC - AAC	side exposed to fire	<b>EI 90 E 240 – V – X – F – W 00-50</b>

**Fig. A7.** Vertical linear joint seal of Novatherm SP in rigid walls thickness of  $\geq 150$  mm.

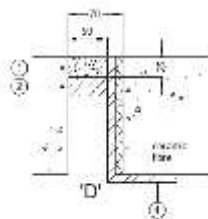


- 1. Novatherm SP
- 2. Mineral wool (rockwool) min. 25 mm (45 kg/m<sup>3</sup>)
- 3. Type F plasterboard 12.5 mm thick

**Resistance to fire classification of linear joint seal in rigid walls, in accordance with fig. A7 and Annex A1:**

Novatherm SP depth, mm	Substrates	Seal face orientation	Fire resistance class
25	AAC - Type F Plasterboard	side exposed to fire	<b>EI 90 E 180 – V – X – F – W 00-50</b>

**Fig. A8.** Vertical linear joint seal of Novatherm SP in rigid walls thickness of  $\geq 150$  mm.



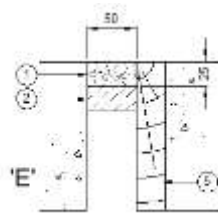
- 1. Novatherm SP
- 2. Mineral wool (rockwool) min. 25 mm (45 kg/m<sup>3</sup>)
- 4. Steel angle 8 mm thick

**Resistance to fire classification of linear joint seal in rigid walls, in accordance with fig. A8 and Annex A1:**

Novatherm SP depth, mm	Substrates	Seal face orientation	Fire resistance class
25	AAC - Steel	side exposed to fire	<b>EI 60 E 240 – V – X – F – W 00-50</b>

<b>Novatherm SP</b>	<b>Annex A4</b> of European Technical Assessment ETA-20/1122
<b>Installation details and resistance to fire classification of linear joint seals</b>	

**Fig. A9.** Vertical linear joint seal of Novatherm SP in rigid walls thickness of  $\geq 150$  mm.

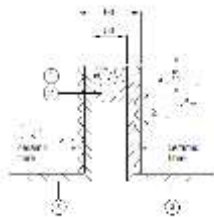


1. Novatherm SP
2. Mineral wool (rockwool) min. 25 mm (45 kg/m<sup>3</sup>)
3. Softwood

**Resistance to fire classification of linear joint seal in rigid walls, in accordance with fig. A9 and Annex A1:**

Novatherm SP depth, mm	Substrates	Seal face orientation	Fire resistance class
25	AAC - Softwood	side exposed to fire	<b>EI 60 E 90 – V – X – F – W 00-50</b>

**Fig. A10.** Vertical linear joint seal of Novatherm SP in rigid walls thickness of  $\geq 150$  mm.

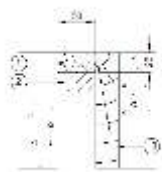


1. Novatherm SP
2. Mineral wool (rockwool) min. 25 mm (45 kg/m<sup>3</sup>)
3. Steel angle 8 mm thick

**Resistance to fire classification of linear joint seal in rigid walls, in accordance with fig. A10 and Annex A1:**

Novatherm SP depth, mm	Substrates	Seal face orientation	Fire resistance class
25	Steel - Steel	side exposed to fire	<b>EI 45 E 240 – V – X – F – W 00-50</b>

**Fig. A11.** Vertical linear joint seal of Novatherm SP in rigid walls thickness of  $\geq 150$  mm.



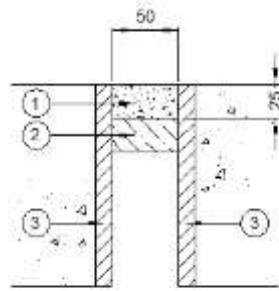
1. Novatherm SP
2. Mineral wool (rockwool) min. 25 mm (45 kg/m<sup>3</sup>)
4. Hardwood

**Resistance to fire classification of linear joint seal in rigid walls, in accordance with fig. A11 and Annex A1:**

Novatherm SP depth, mm	Substrates	Seal face orientation	Fire resistance class
25	AAC - Hardwood	side exposed to fire	<b>EI 60 – V – X – F – W 00-50</b>

<b>Novatherm SP</b>	<b>Annex A5</b> of European Technical Assessment ETA-20/1122
<b>Installation details and resistance to fire classification of linear joint seals</b>	

**Fig. A12.** Vertical linear joint seal of Novatherm SP in rigid walls thickness of  $\geq 150$  mm.

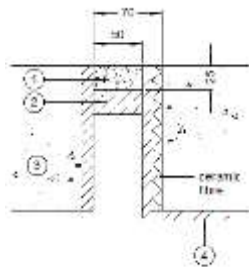


1. Novatherm SP
2. Mineral wool (rockwool) min. 25 mm (45 kg/m<sup>3</sup>)
3. Type F Plasterboard 12.5 mm thick

**Resistance to fire classification of linear joint seal in rigid walls, in accordance with fig. A12 and Annex A1:**

Novatherm SP depth, mm	Substrates	Seal face orientation	Fire resistance class
25	AAC – Type F Plasterboard	side exposed to fire	EI 60 – V – X – F – W 00-50

**Fig. A13.** Vertical linear joint seal of Novatherm SP in rigid walls thickness of  $\geq 150$  mm.



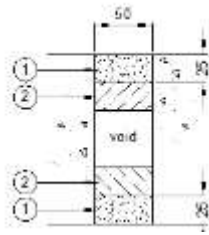
1. Novatherm SP
2. Mineral wool (rockwool) min. 25 mm (45 kg/m<sup>3</sup>)
3. Type F Plasterboard 12.5 mm thick
4. Steel substrate 8 mm thick

**Resistance to fire classification of linear joint seal in rigid walls, in accordance with fig. A13 and Annex A1:**

Novatherm SP depth, mm	Substrates	Seal face orientation	Fire resistance class
25	Type F Plasterboard - Steel	side exposed to fire	EI 60 – V – X – F – W 00-50

<b>Novatherm SP</b>	<b>Annex A6</b> of European Technical Assessment ETA-20/1122
<b>Installation details and resistance to fire classification of linear joint seals</b>	

**Fig. A14.** Horizontal linear joint seal of Novatherm SP in rigid floors thickness of  $\geq 150$  mm.

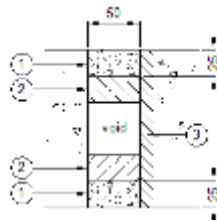


1. Novatherm SP
2. Mineral wool (rockwool) min. 25 mm (45 kg/m<sup>3</sup>)

**Resistance to fire classification of linear joint seal in rigid floors, in accordance with fig. A14 and Annex A1:**

Novatherm SP depth, mm	Substrates	Seal face orientation	Fire resistance class
25	AAC - AAC	both faces (side exposed and unexposed to fire)	<b>EI 240 – H – X – F – W 00-50</b>

**Fig. A15.** Horizontal linear joint seal of Novatherm SP in rigid floors thickness of  $\geq 150$  mm.

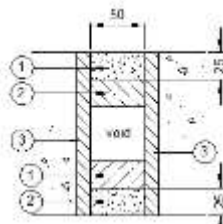


1. Novatherm SP
2. Mineral wool (rockwool) min. 25 mm (45 kg/m<sup>3</sup>)
3. Type F plasterboard 12.5 mm thick

**Resistance to fire classification of linear joint seal in rigid floors, in accordance with fig. A15 and Annex A1:**

Novatherm SP depth, mm	Substrates	Seal face orientation	Fire resistance class
25	AAC - Type F Plasterboard	both faces (side exposed and unexposed to fire)	<b>EI 240 – H – X – F – W 00-50</b>

**Fig. A16.** Horizontal linear joint seal of Novatherm SP in rigid floors thickness of  $\geq 150$  mm.



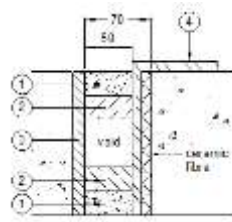
1. Novatherm SP
2. Mineral wool (rockwool) min. 25 mm (45 kg/m<sup>3</sup>)
3. Type F plasterboard 12.5 mm thick

**Resistance to fire classification of linear joint seal in rigid floors, in accordance with fig. A16 and Annex A1:**

Novatherm SP depth, mm	Substrates	Seal face orientation	Fire resistance class
25	Type F Plasterboard - Type F Plasterboard	both faces (side exposed and unexposed to fire)	<b>EI 240 – H – X – F – W 00-50</b>

<b>Novatherm SP</b>	<b>Annex A7</b> of European Technical Assessment ETA-20/1122
<b>Installation details and resistance to fire classification of linear joint seals</b>	

**Fig. A17.** Horizontal linear joint seal of Novatherm SP in rigid floors thickness of  $\geq 150$  mm.

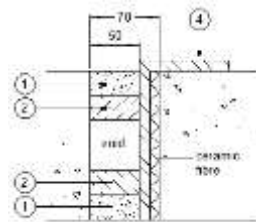


1. Novatherm SP
2. Mineral wool (rockwool) min. 25 mm (45 kg/m<sup>3</sup>)
3. Type F plasterboard 12.5 mm thick
4. Steel substrate 8 mm thick

**Resistance to fire classification of linear joint seal in rigid floors, in accordance with fig. A17 and Annex A1:**

Novatherm SP depth, mm	Substrates	Seal face orientation	Fire resistance class
25	Type F Plasterboard - Steel	both faces (side exposed and unexposed to fire)	EI 90 E 240 – H – X – F – W 00-50

**Fig. A18.** Horizontal linear joint seal of Novatherm SP in rigid floors thickness of  $\geq 150$  mm.

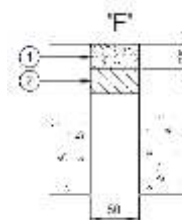


1. Novatherm SP
2. Mineral wool (rockwool) min. 25 mm (45 kg/m<sup>3</sup>)
4. Steel substrate 8 mm thick

**Resistance to fire classification of linear joint seal in rigid floors, in accordance with fig. A18 and Annex A1:**

Novatherm SP depth, mm	Substrates	Seal face orientation	Fire resistance class
25	AAC - Steel	both faces (side exposed and unexposed to fire)	EI 90 E 240 – H – X – F – W 00-50

**Fig. A19.** Horizontal linear joint seal of Novatherm SP in rigid floors thickness of  $\geq 150$  mm.



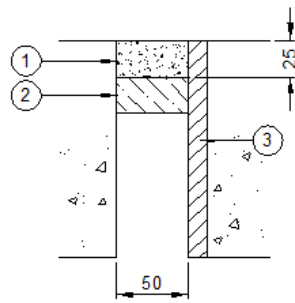
1. Novatherm SP
2. Mineral wool (rockwool) min. 25 mm (45 kg/m<sup>3</sup>)

**Resistance to fire classification of linear joint seal in rigid floors, in accordance with fig. A19 and Annex A1:**

Novatherm SP depth, mm	Substrates	Seal face orientation	Fire resistance class
25	AAC - AAC	both faces (side exposed and unexposed to fire)	EI 240 – H – X – F – W 00-50

<b>Novatherm SP</b>	<b>Annex A8</b> of European Technical Assessment ETA-20/1122
<b>Installation details and resistance to fire classification of linear joint seals</b>	

**Fig. A20.** Horizontal linear joint seal of Novatherm SP in rigid floors thickness of  $\geq 150$  mm.

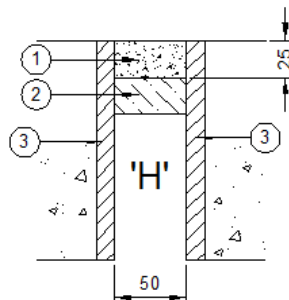


- 1. Novatherm SP
- 2. Mineral wool (rockwool) min. 25 mm (45 kg/m<sup>3</sup>)
- 3. Type F Plasterboard 12.5 mm thick

**Resistance to fire classification of linear joint seal in rigid floors, in accordance with fig. A20 and Annex A1:**

Novatherm SP depth, mm	Substrates	Seal face orientation	Fire resistance class
25	AAC – Type F Plasterboard	side unexposed to fire	<b>EI 180 E240 – H – X – F – W 00-50</b>

**Fig. A21.** Horizontal linear joint seal of Novatherm SP in rigid floors thickness of  $\geq 150$  mm.



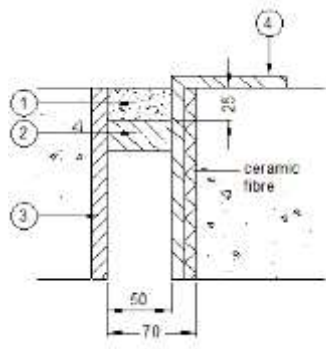
- 1. Novatherm SP
- 2. Mineral wool (rockwool) min. 25 mm (45 kg/m<sup>3</sup>)
- 3. Type F Plasterboard 12.5 mm thick

**Resistance to fire classification of linear joint seal in rigid floors, in accordance with fig. A21 and Annex A1:**

Novatherm SP depth, mm	Substrates	Seal face orientation	Fire resistance class
25	Type F Plasterboard - Type F Plasterboard	side unexposed to fire	<b>EI 240 – H – X – F – W 00-50</b>

<b>Novatherm SP</b>	<b>Annex A9</b> of European Technical Assessment ETA-20/1122
<b>Installation details and resistance to fire classification of linear joint seals</b>	

**Fig. A22.** Horizontal linear joint seal of Novatherm SP in rigid floors thickness of  $\geq 150$  mm.

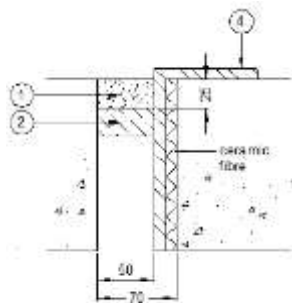


1. Novatherm SP
2. Mineral wool (rockwool) min. 25 mm (45 kg/m<sup>3</sup>)
3. Type F Plasterboard 12.5 mm thick
4. Steel substrate 8 mm thick

**Resistance to fire classification of linear joint seal in rigid floors, in accordance with fig. A22 and Annex A1:**

Novatherm SP depth, mm	Substrates	Seal face orientation	Fire resistance class
25	Type F Plasterboard - Steel	side unexposed to fire	<b>EI 15 E 240 – H – X – F – W 00-50</b>

**Fig. A23.** Horizontal linear joint seal of Novatherm SP in rigid floors thickness of  $\geq 150$  mm.



1. Novatherm SP
2. Mineral wool (rockwool) min. 25 mm (45 kg/m<sup>3</sup>)
4. Steel substrate 8 mm thick

**Resistance to fire classification of linear joint seal in rigid floors, in accordance with fig. A23 and Annex A1:**

Novatherm SP depth, mm	Substrates	Seal face orientation	Fire resistance class
25	AAC - Steel	side unexposed to fire	<b>EI 15 E 240 – H – X – F – W 00-50</b>

<b>Novatherm SP</b>	<b>Annex A10</b> of European Technical Assessment ETA-20/1122
<b>Installation details and resistance to fire classification of linear joint seals</b>	