



DECLARATION OF PERFORMANCE

according to Annex III of the Regulation (EU) No 305/2011
(Construction Product Regulation)

Product name:

BOSTIK FP 401 Fireseal Acrylic

DoP- No. 612846-20-01-1

1. Unique identification code of product type:

BOSTIK FP 401 Fireseal Acrylic

2. Intended use:

FIRE STOPPING AND FIRE SEALING PRODUCTS – LINEAR JOINT AND GAP SEALS

3. Manufacturer/supplier:

BOSTIK BENELUX B.V. ■ DENARIUSSTRAAT 11 ■ NL - 4903 RC OOSTERHOUT

4. Systems of assessment and verification of the constancy of performance:

System 1

5. European Assessment Document:

EAD 350141-00-1106, edition September 2017

European Technical Assessment:

ETA-20/1250 of 07/06/2022

6. Technical Assessment Body:

SKG-IKOB Certificatie BV

Notified Body:

NB 0960 (SKG-IKOB Certificatie BV)

Bostik Benelux B.V.
Denariusstraat 11, NL-4903 RC Oosterhout, The Netherlands
Phone: +31 (0)162 491 000
www.bostik.com



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

The assessment of fitness for use has been made in accordance with EAD 350141-00-1106.

Bostik FP 401 Fireseal Acrylic		
No	Essential Characteristic	Product performances
BWR 2 Safety in case of fire		
1	Reaction to fire	B-s1,d0
2	Resistance to fire	See annex A
BWR 3 Hygiene, health and environment		
3	Content, emission and/or release of dangerous substances	Declaration of manufacturer
4	Air permeability (material property)	No performance declared
5	Water permeability (material property)	No performance declared
BWR 4 Safety and accessibility in use		
6	Mechanical resistance and stability	No performance declared
7	Resistance to impact/movement	No performance declared
8	Adhesion	passed
9	Durability	Z2
10	Movement capability	See annex A
11	Cycling of perimeter seals for curtain walls	No performance declared
12	Compression set	No performance declared
13	Linear expansion on setting	No performance declared
BWR 5 Protection against noise		
14	Airborne sound insulation	See annex B
BWR 6 Energy economy and heat retention		
15	Thermal properties	No performance declared
16	Water vapour permeability	No performance declared

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8. The performance of the product identified above is in conformity with the set of declared performance(s). This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of Bostik Benelux:

Vincent Imbos
Managing Director
Oosterhout, 19-06-2023

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Annex A – Resistance to fire

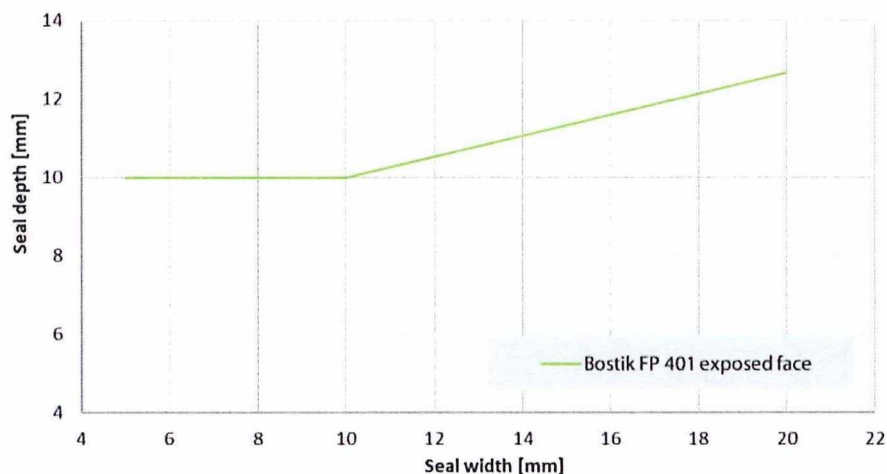
Fire resistance classification (vertical linear joint seals in a stone wall)	
Stone to stone wall thickness ≥ 70 mm	
Bostik FP 401 exposed face Bostik FP 404 unexposed face EI 45 – V – X – F – W 8 to 20 E 240 – V – X – F – W 8 to 20	Bostik FP 401 applied at unexposed face EI 45 – V – X – F – W 5 to 10 EI 30 – V – X – F – W 10 to 20 E 240 – V – X – F – W 5 to 20

E = Criterion integrity, I = Criterion insulation, V = Vertical application in a vertical wall, X = No movement applied, F = Splice applied in the field, W = Permitted width range in millimetres (see Graph 1 for seal depth)

The following conditions apply:

- the classifications are valid for linear joint seals in a wall with an orientation as mentioned (vertical);
- the linear joint seals may be applied in any type of wall of aerated concrete (class G4/600 or heavier), concrete, limestone or masonry with a minimal thickness as mentioned (70 mm);
- the surfaces of the material on which FP 401 Fireseal Acrylic and FP 404 Fire Retardant PU (Gun)Foam is applied are thoroughly cleaned and treated with primer and moistened with water when needed. Except for the fully filled linear joint seals, the use of suitable PE / PU backing material is mandatory;
- the depth of FP 401 Fireseal Acrylic depends on the width of the linear joint seal. The minimum depth of FP 401 Fireseal Acrylic in relation to the width of the linear joint seal is shown in Graph 1 below. The depth of the sealant may also be increased with respect to the Graph (the lines are the minimum and recommended seal depth). Where the rest of the slot is fully filled with FP 404 Fire Retardant PU (Gun)Foam the seal depth of the FP 401 Fireseal Acrylic is minimal 3 mm;
- the allowed movement capability in practice is maximized to 7.5 %;
- when FP 401 Fireseal Acrylic is applied at one face, the classifications are valid for FP 401 Fireseal Acrylic at the unexposed face or at the exposed face when in combination with FP 404 Fire Retardant PU (Gun)Foam.

Graph 1: Minimum seal depth in relation to the seal width





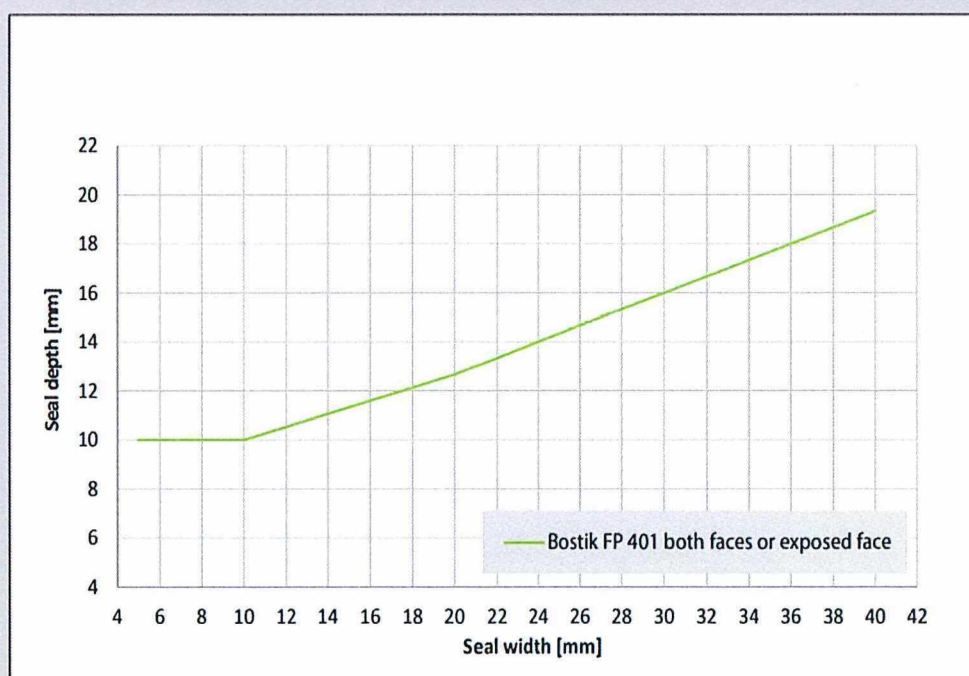
Fire resistance classification (vertical linear joint seals in a stone wall)		
Stone to stone Wall thickness ≥ 100 mm		
Bostik FP 401 applied at both faces EI 180 – V – X – F – W 5 to 10 EI 240 – V – X – F – W 10 to 40 E 240 – V – X – F – W 5 to 40	Bostik FP 401 applied at exposed face EI 180 – V – X – F – W 5 to 40	Bostik FP 401 exposed face Bostik FP 404 unexposed face EI 90 – V – X – F – W 8 to 30 E 120 – V – X – F – W 8 to 30 EI 30 – V – X – F – W 30 to 40

E = Criterion integrity, I = Criterion insulation, V = Vertical application in a vertical wall, X = No movement applied, F = Splice applied in the field, W = Permitted width range in millimetres (see Graph 1 for seal depth)

The following conditions apply:

- the classifications are valid for linear joint seals in a wall with an orientation as mentioned (vertical);
- the linear joint seals may be applied in any type of wall of aerated concrete (class G4/600 or heavier), concrete, limestone or masonry with a minimal thickness as mentioned (100 mm);
- the surfaces of the material on which FP 401 Fireseal Acrylic and FP 404 Fire Retardant PU (Gun)Foam is applied are thoroughly cleaned and treated with primer and moistened with water when needed. Except for the fully filled linear joint seals, the use of suitable PE / PU backing material is mandatory;
- the depth of FP 401 Fireseal Acrylic depends on the width of the linear joint seal. The minimum depth of FP 401 Fireseal Acrylic in relation to the width of the linear joint seal is shown in Graph 2 below. The depth of the sealant may also be increased with respect to the Graph (the lines are the minimum and recommended seal depth). Where the rest of the slot is fully filled with FP 404 Fire Retardant PU (Gun)Foam the seal depth of the FP 401 Fireseal Acrylic is minimal 3 mm;
- the allowed movement capability in practice is maximized to 7.5 %;
- when FP 401 Fireseal Acrylic is applied at both faces, the classifications are valid for both directions. When FP 401 Fireseal Acrylic is applied at one face, the classifications are valid for FP 401 Fireseal Acrylic at the exposed face.

Graph 2: Minimum seal depth in relation to the seal width





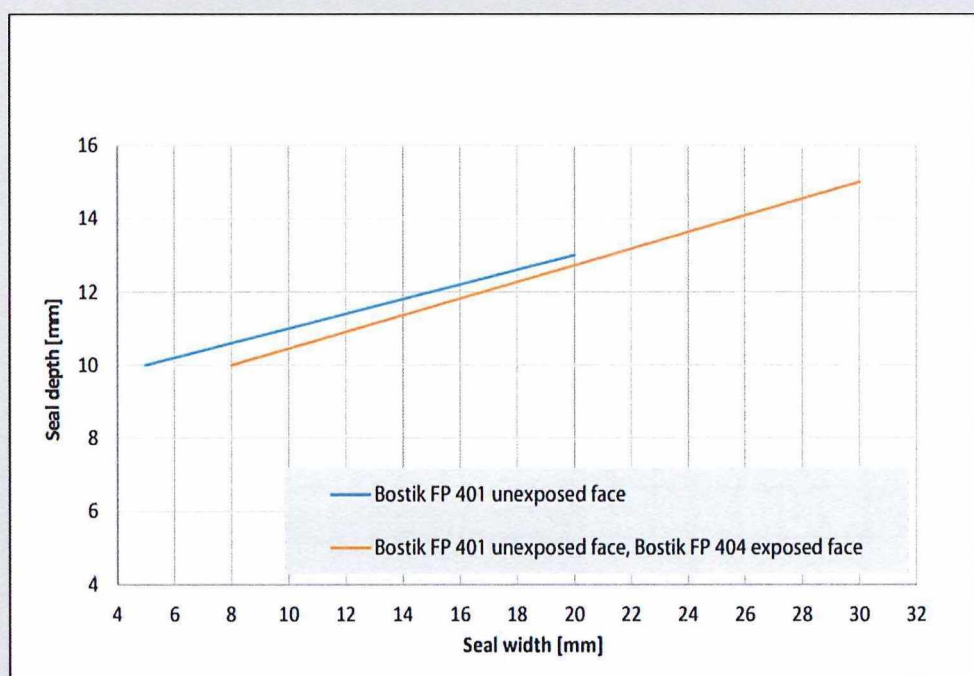
Fire resistance classification (vertical linear joint seals in a stone wall)	
Stone to stone wall thickness ≥ 115 mm	
Bostik FP 401 unexposed face Bostik FP 404 exposed face EI 180 – V – X – F – W 8 to 30 EI 240 – V – X – F – W 8 E 240 – V – X – F – W 8 to 30	Bostik FP 401 applied at unexposed face EI 45 – V – X – F – W 5 to 20 EI 240 – V – X – F – W 5 E 240 – V – X – F – W 5 to 20

E = Criterion integrity, I = Criterion insulation, V = Vertical application in a vertical wall, X = No movement applied, F = Splice applied in the field, W = Permitted width range in millimetres (see Graph 1 for seal depth)

The following conditions apply:

- the classifications are valid for linear joint seals in a wall with an orientation as mentioned (vertical);
- the linear joint seals may be applied in any type of wall of aerated concrete (class G4/600 or heavier), concrete, limestone or masonry with a minimal thickness as mentioned (115 mm);
- the surfaces of the material on which FP 401 Fireseal Acrylic and FP 404 Fire Retardant PU (Gun)Foam is applied are thoroughly cleaned and treated with primer and moistened with water when needed. Except for the fully filled linear joint seals, the use of suitable PE / PU backing material is mandatory;
- the depth of FP 401 Fireseal Acrylic depends on the width of the linear joint seal. The minimum depth of FP 401 Fireseal Acrylic in relation to the width of the linear joint seal is shown in Graph 3 below. The depth of the sealant may also be increased with respect to the Graph (the lines are the minimum and recommended seal depth). If applicable, the rest of the slot is fully filled with FP 404 Fire Retardant PU (Gun)Foam;
- the allowed movement capability in practice is maximized to 7.5 %;
- when FP 401 Fireseal Acrylic is applied at both faces, the classifications are valid for both directions. When FP 401 Fireseal Acrylic is applied at one face, the classifications are valid for FP 401 Fireseal Acrylic at the unexposed face.

Graph 3: Minimum seal depth in relation to the seal width





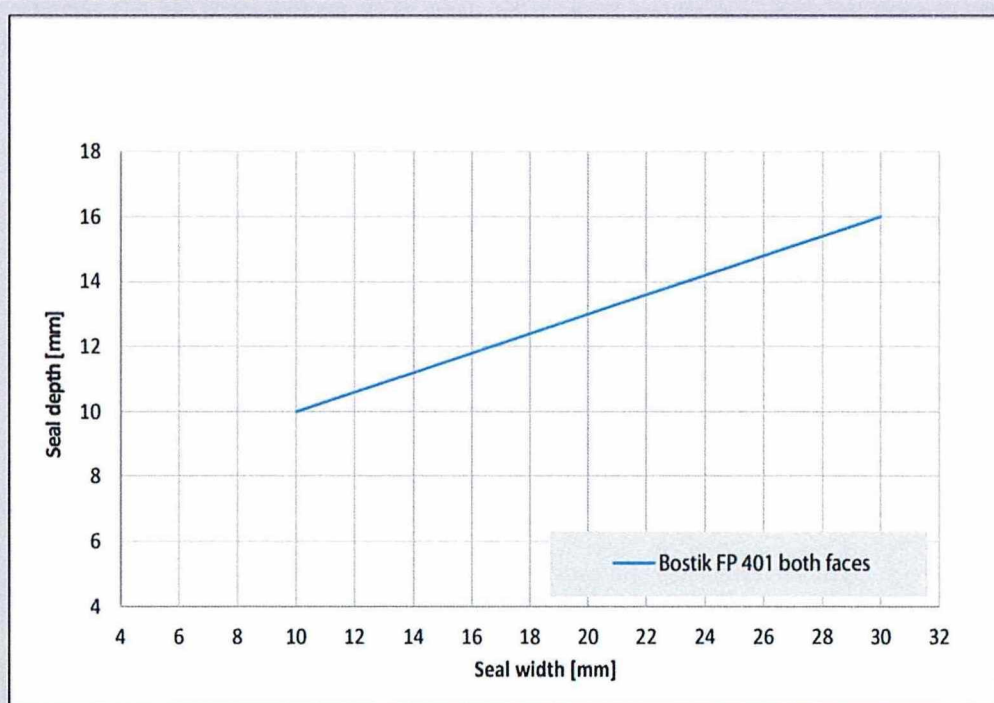
Fire resistance classification (horizontal linear joint seals in a stone wall and a wall abutting a floor, ceiling or roof)
Applied connecting stone to stone, thickness wall ≥ 100 mm
Bostik FP 401 applied at both faces EI 180 – T – M 5 – F – W 10 to 30 E 240 – T – M 5 – F – W 10 to 30

E = Criterion integrity, I = Criterion insulation, T = Horizontal application in a vertical wall and a wall abutting a floor, M = Movement induced in %, F = Splice applied in the field, W = Permitted width range in millimetres (see Graph 2 for seal depth)

The following conditions apply:

- the classifications are valid for linear joint seals in a wall and a wall abutting a floor, ceiling or roof with an orientation as mentioned (horizontal);
- the linear joint seals may connect to any type of construction of aerated concrete (class G4/600 or heavier), concrete, block work or masonry with a minimal thickness as mentioned (100 mm);
- the surfaces of the material on which FP 401 Fireseal Acrylic is applied are thoroughly cleaned and treated with Primer when needed;
- the use of suitable PE / PU backing material is mandatory;
- the required depth of FP 401 Fireseal Acrylic depends on the width of the linear joint seal. The minimum depth of FP 401 Fireseal Acrylic in relation to the width of the linear joint seal is shown in Graph 4 below. The required depth of the sealant may also be increased with respect to the Graph (the lines are the minimum and recommended seal depth);
- deformation of the linear joint seals in practice is maximized to 7.5 %;
- the classifications are valid for both directions.

Graph 4: Minimum seal depth in relation to the seal width



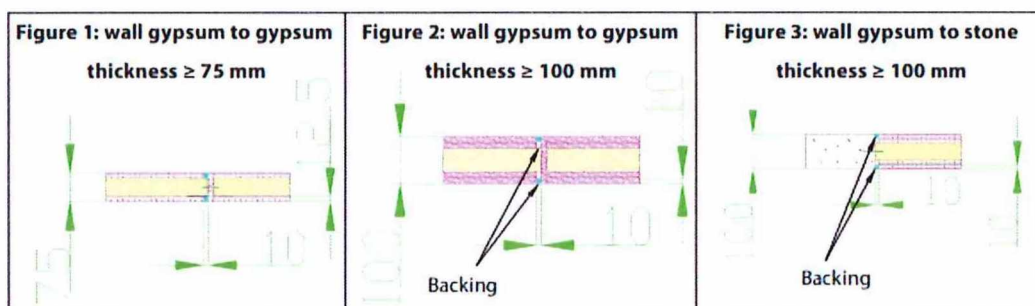


Fire resistance classification (vertical linear joint seal in a gypsum and / or stone wall)		
Bostik FP 401 applied at both faces connecting gypsum to gypsum		Bostik FP 401 applied at both faces connecting gypsum to stone
Wall thickness ≥ 75 mm (see Figure 1)	Wall thickness ≥ 100 mm (see Figure 2)	Wall thickness ≥ 100 mm (see Figure 3)
EI 60 - V - X - F - W 10	EI 120 - V - X - F - W 10 E 180 - V - X - F - W 10	EI 120 - V - X - F - W 10 E 180 - V - X - F - W 10

E = Criterion integrity, I = Criterion insulation, V = Vertical application in a vertical wall, X = No movement applied, F = Splice applied in the field, W = Permitted width range in millimetres

The following conditions apply:

- the classifications are valid for linear joint seals in a wall with an orientation as mentioned (vertical);
- the linear joint seals in wall with a thickness ≥ 100 mm may connect on one side to any type of wall of aerated concrete (class G4/600 or heavier), concrete, block work, limestone or masonry with a minimal thickness as mentioned (100 mm). In practice, the metal profiles of the gypsum wall are mechanically fixed at a distance every 300 mm or less. Mechanically fixation of the metal profiles is mandatory;
- the linear joint seals may connect on both sided to a gypsum wall with a minimum thickness as mentioned (75 or 100 mm). In practice, the metal profiles of the gypsum wall are mechanically fixed at a distance every 300 mm or less. Mechanically fixation of the metal profiles is mandatory;
- the classifications are only valid for constructions shown in Figures 1 to 3;
- the surfaces of the material on which the sealant is applied are thoroughly cleaned and treated with primer when needed;
- the depth of FP 401 Fireseal Acrylic in a wall of 75 mm is 12.5 mm at both faces, representing the full thickness of the gypsum panel, see Figure 1. The depth of FP 401 Fireseal Acrylic in a wall of 100 mm is 10 mm at both faces. The rest of the cavity is filled up with suitable PE / PU backing material, see Figure 2 and 3;
- the allowed movement capability in practice is maximized to 7.5 %;
- the classifications are valid for both directions.



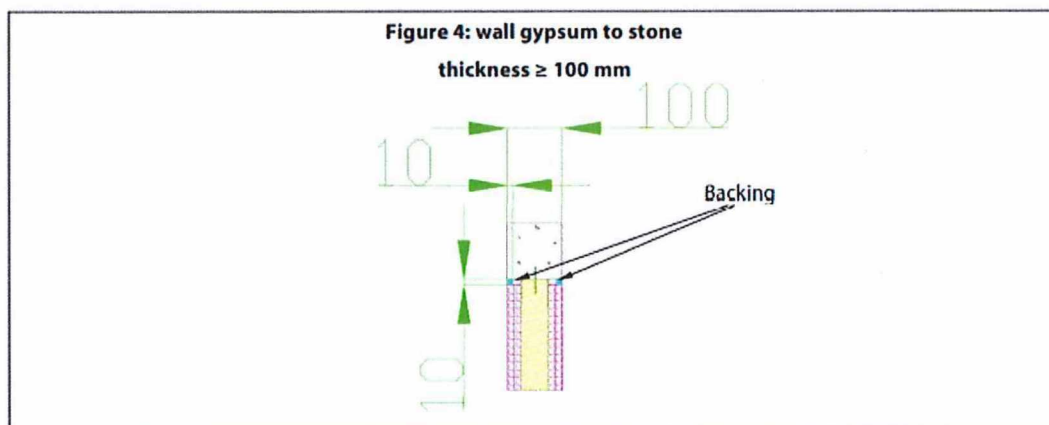


<p align="center">Fire resistance classification (horizontal linear joint seals in a gypsum and stone wall)</p>
<p align="center">Bostik FP 401 applied at both faces connecting gypsum to stone</p>
<p align="center">Thickness wall ≥ 100 mm (see Figure 4)</p>
<p align="center">EI 120 – T – X – F – W 10</p>
<p align="center">E 180 – T – X – F – W 10</p>

E = Criterion integrity, I = Criterion insulation, T = Horizontal application in a vertical wall, X = No movement applied, F = Splice applied in the field, W = Permitted width range in millimetres

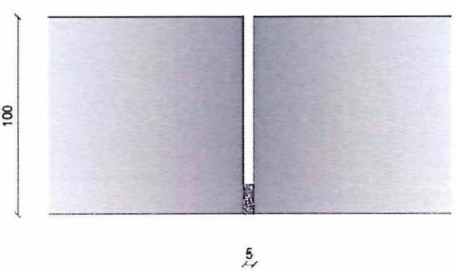
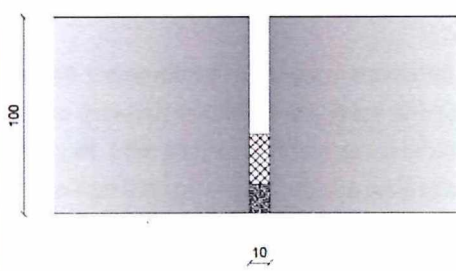
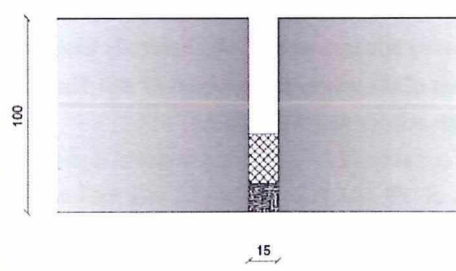
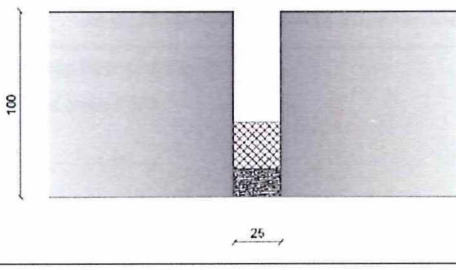
The following conditions apply:

- the classifications are valid for linear joint seals in a wall with an orientation as mentioned (horizontal);
- the linear joint seals in wall with a thickness ≥ 100 mm may connect on one side to any type of wall of aerated concrete (class G4/600 or heavier), concrete, block work, limestone or masonry with a minimal thickness as mentioned (100 mm). In practice, the metal profiles of the gypsum wall are mechanically fixed at a distance every 300 mm or less. Mechanically fixation of the metal profiles is mandatory;
- the linear joint seals may connect on the other side to a gypsum wall with a minimum thickness as mentioned (100 mm). In practice, the metal profiles of the gypsum wall are mechanically fixed at a distance every 300 mm or less. Mechanically fixation of the metal profiles is mandatory;
- the surfaces of the material on which FP 401 Fireseal Acrylic is applied are thoroughly cleaned and treated with Primer when needed;
- the use of suitable PE / PU backing material is mandatory;
- the depth of FP 401 Fireseal Acrylic in a wall of 100 mm is 10 mm at both faces. The rest of the cavity is filled up with suitable PE / PU backing material, see Figure 4;
- deformation of the linear joint seals in practice is maximized to 7.5 %;
- the classifications are valid for both directions.





Annex B – Airborne sound insulation

Joint Width = 5 mm	
Joint Width = 10 mm	
Joint Width = 15 mm	
Joint Width = 25 mm	

The Bostik FP 401 Fireseal Acrylic sealant, 10 mm depth is backed with PU / PE backer rod.

	Joint width			
	5 mm	10 mm	15 mm	25 mm
$R_{s,w}(C;C_{tr})$	52(-1;-3) dB	53(-1;-4) dB	53(-1;-3) dB	49(-2;-4) dB
$C_{100-5000};C_{tr;100-5000}$	(0;-3) dB	(0;-4) dB	(0;-3) dB	(-1;-4) dB
$C_{50-3150};C_{tr;50-3150}$	(-1;-7) dB	(-1;-7) dB	(-1;-7) dB	(-2;-7) dB
$C_{50-5000};C_{tr;50-5000}$	(0;-7) dB	(0;-7) dB	(-1;-5) dB	(-1;-7) dB
$D_{n,e,w}$	59 dB	60 dB	60 dB	56 dB
R_w	29 dB	33 dB	35 dB	33 dB