



## DECLARATION OF PERFORMANCE YTELSESERKLÆRING

enligt Annex III Regulation (EU) 305/2011 (Construction Product Regulation)

Produktnavn:

**BOSTIK FP 401 Fireseal Acrylic**

**DoP- No. 612846-20-01-1**

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1. Entydig identifikasjonskode for produkttypen:

**BOSTIK FP 401 Fireseal Acrylic**

2. Bruksområder:

**BRANNFORSEGLET MELLOM BYGNINGSDELER, LINEÆRE FUGER, HORIZONTALT ELLER VERTIKALT**

3. Produsentens namn:

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

4. Det eller de systemer for vurdering og kontroll av byggevarens konstante ytelse

**System 1**

5. Europeiskt vurderingsdokument

**EAD 350141-00-1106, September 2017**

Europeisk teknisk vurdering:

**ETA-20/1250, 07/06/2022**

6. Teknisk kontrollorgan:

**SKG-IKOB Certificatie BV**

Varslet testorgan:

**NB 0960 (SKG-IKOB Certificatie BV)**

**Bostik B.V.**

Denariusstraat 11, NL-4903 RC Oosterhout, The Netherlands

Phone: +31(0)162491000

[www.bostik.com](http://www.bostik.com)



# BOSTIK

## 7. Angitt ytelse

<b>Bostik FP 401 Fireseal Acrylic</b>		
	Vesentlige egenskaper	Ytelse
<b>BWR 2 Sikkerhet vid brann</b>		
1	Brannegenskap	B-s1,d0
2	Brannmotstand	Se annex A
<b>BWR 3 Hygiene, helse og miljø</b>		
3	Utslipp av kjemikalier som er farlige for miljø og helse	Erklæring fra produsenten
4	Lufttetthet	NPD
5	Vanntetthet	NPD
<b>BWR. 4 Sikkerhet og tilgjengelighet i bruk</b>		
6	Mekanisk styrke og stabilitet	NPD
7	Motstand mot slag og bevegelse	NDP
8	Vedheft	Bestått
9	Varighet	Z2
10	Fugebevegelser	Se annex A
<b>BWR 5 Støybeskyttelse</b>		
11	Luftlydisolering	Se annex B
<b>BWR 6 Energistyring og termisk isolasjon</b>		
12	Termiske egenskaper	NPD
13	Vannpermeabilitet	NPD

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Denariusstraat 11, NL-4903 RC Oosterhout, The Netherlands  
Phone: +31 (0)162 491 000  
[www.bostik.com](http://www.bostik.com)



8. Ytelsen for varen som angitt, er i samsvar med ytelsen angitt. Denne ytelseserklæringen er utstedt på eget ansvar av produsenten, enligt (EU) nr 305/2011.

Undertegnet for og på vegne av produsenten av  
:

V. Imbos

Vincent Imbos  
Managing Director  
Oosterhout, 19-09-2023



# BOSTIK

## Annex A - Resistance to fire

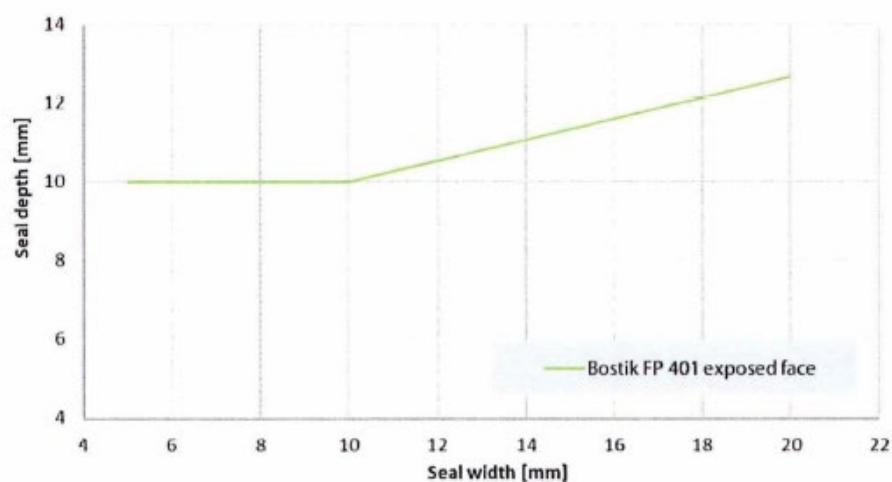
<b>Fire resistance classification (vertical linear joint seals in a stone wall)</b>	
<b>Stone to stone wall thickness <math>\geq 70</math> mm</b>	
<b>Bostik FP 401 exposed face</b>	<b>Bostik FP 401 applied at unexposed face</b>
<b>Bostik FP 404 unexposed face</b>	
EI 45 - V - X - F - W 8 to 20	EI 45 - V - X - F - W 5 to 10
E 240 - V - X - F - W 8 to 20	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 = Service 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**





# BOSTIK

## Fire resistance classification (vertical linear joint seals in a stone wall)

### Stone to stone Wall thickness $\geq 100$ mm

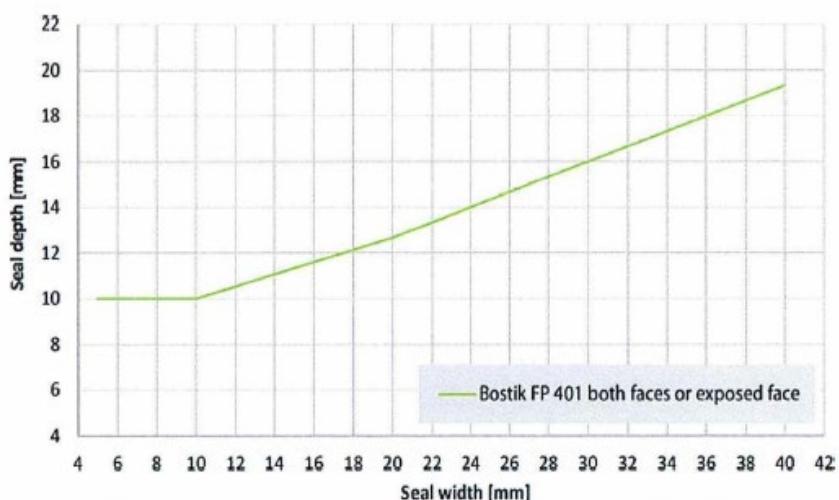
Bostik FP 401 applied at both faces	Bostik FP 401 applied at exposed face	Bostik FP 401 exposed face Bostik FP 404 unexposed face
EI 180 - V - X - F - W 5 to 10	EI 180 - V - X - F - W 5 to 40	EI 90 - V - X - F - W 8 to 30
EI 240 - V - X - F - W 10 to 40		E 120 - V - X - F - W 8 to 30
E 240 - V - X - F - W 5 to 40		EI 30 - V - X - F - W 30 to 40

E = Criteron Integrity, I= Criteron Insulation, V= Vertical application in a vertical wall, X= No movement applied, F = Spcc 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





# BOSTIK

## Fire resistance classification (vertical linear joint seals in a stone wall)

### Stone to stone wall thickness $\geq 115$ 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

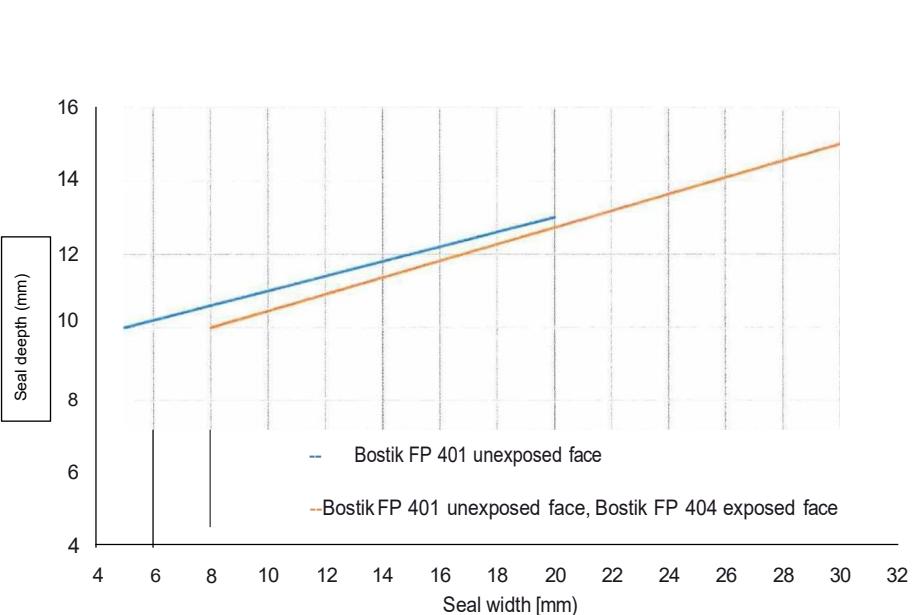
**Bostik FP 401 applied at unexposed face**  
EI 45 - V - X - F - W 5 to 20  
EI 240 - V - X - F - W 5  
E 240 - V - X - F - W 5 to 20

E = Cuterlon Integrity, I = Cr1ter1on msulation, V = Vcrt1cal apllicaouon m a vcr1cal WJII, X = No movement appl1ed, F = Splicc Jpphc1 in the field,  
W = Permitted width range in millimetres (see Graph I 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 111i11i111u111 d111I It!LUIIIII!II11!LI ed1 Je1h). ,r d111iLdUle, lhe ,e l ur lhe l11 b rully filleJ 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





# BOSTIK

## 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  $\geq 100$  mm

Bostik FP 401 applied at both faces

EI 180 - T - M 5 - F - W 10 to 30

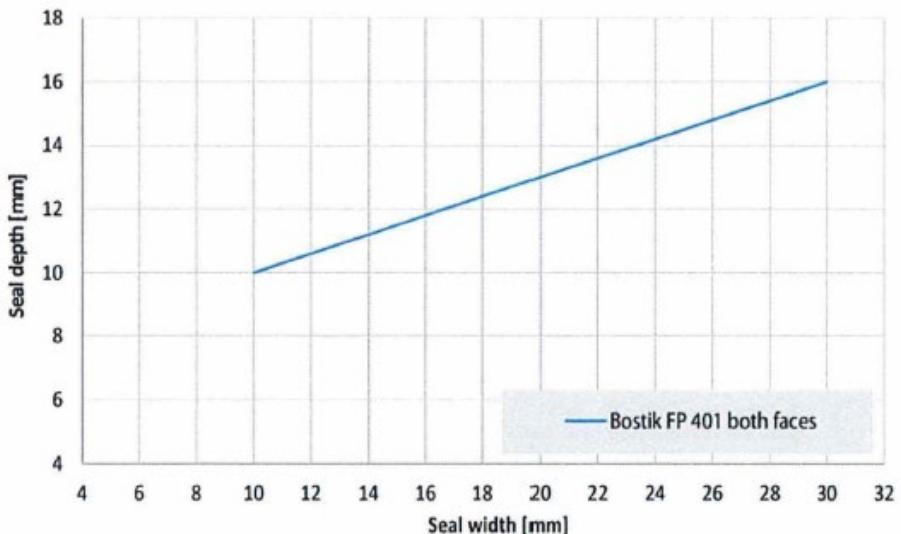
E 240 - T - M 5 - F - W 10 to 30

E = Critcnon integnly, I:=Criticnon 1nsu ation T = Hontzontal apphcation in a vcrctica wall and a wall abutting a floor M = Movement mduced In%, F = Splice applied in the field, W = Permlttcd width range in millimetrcs (see Graph 2 for ,cal dcpth)

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





# BOSTIK

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**

**Wall thickness  $\geq 75$  mm: Wall thickness  $\geq 100$  mm**  
(see Figure 1) (see Figure 2)

EI 60 - V - X - F - W 10      EI 120 - V - X - F - W 10  
E 180 - V - X - F - W 10

**Bostik FP 401 applied at both faces connecting gypsum to stone**

**Wall thickness  $\geq 100$  mm**  
(see Figure 3)

EI 120 - V - X - F - W 10  
E 180 - V - X - F - W 10

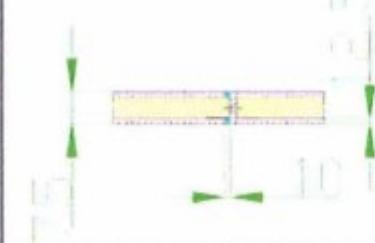
E = Integrity, I = Criterion Imulation, Y = Vertical application in a vertical wall. X = No movement applied to the field, F = Splice applied to the field, W = reinforced width range in millimetres

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  $\geq 100$  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 sides 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.

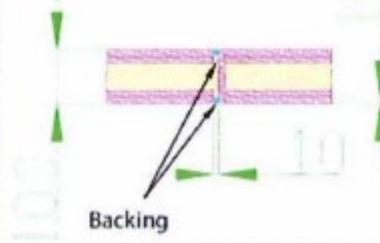
**Figure 1: wall gypsum to gypsum**

**thickness  $\geq 75$  mm**



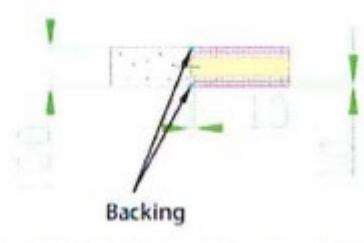
**Figure 2: wall gypsum to gypsum**

**thickness  $\geq 100$  mm**



**Figure 3: wall gypsum to stone**

**thickness  $\geq 100$  mm**





# BOSTIK

**Fire resistance classification  
(horizontal linear joint seals in a gypsum and stone wall)**

**Bostik FP 401 applied at both faces connecting gypsum to stone**

**Thickness wall  $\geq 100$  mm (see Figure 4)**

**EI 120 - T - X - F - W 10**

**E180-T-X-F-W10**

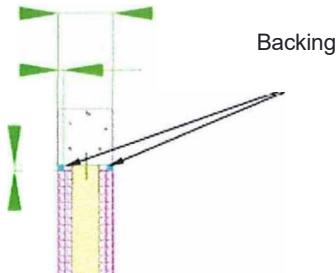
E = Criterion Integrity, I = Criterion Inulation, r = Horizontal application in vertical wall, X = No movement applied, F = Force applied in the field, W = Permitted width range in millimetres

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  $\geq 100$  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.

**Figure 4: wall gypsum to stone**

**thickness  $\geq 100$  mm**





## Annex B - Airborne sound insulation

Joint Width = 5 mm	8	
Joint Width = 10 mm		
Joint Width = 15 mm	8	
Joint Width = 25 mm		

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

	Jointwidth			
	5mm	10 mm	15mm	25mm
Rs,w(C;C1,l)	52(-1;-3) dB	53(-1;-4) dB	53(-1;-3) dB	49(-2;-4) dB
C100-sooo;Ctr;100.sooo	/0;-3) dB	/0;-4) dB	(0;-3) dB	/-1;-4) dB
Cs0-31so;C1r;SO-1 Iso	(-1;-7) dB	(-1;-7) dB	(-1;-7) dB	(-2;-7) dB
Cs0-sooo;C1r;SO-SOOO	(0;-7) dB	(0;-7) dB	(-1;-5) dB	(-1;-7) dB
Dn,e,w	59dB	60 dB	60 dB	56 dB
Rw	29dB	33 dB	35 dB	33 dB