



## DECLARATION OF PERFORMANCE YTELSESERKLÆRING

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

Produktnamn:

### **BOSTIK FP 404 Fire Retardant PU(Gun)Foam**

**DoP- No. 612850-20-03-1**

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1. Entydig identifikasjonskode for produkttypen:

**BOSTIK FP 404 Fire Retardant PU(Gun)Foam**

2. Bruksområder:

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

3. Produsentens navn:

**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, edition September 2017**

Europeisk teknisk vurdering:

**ETA-20/1118 of 15/06-2022**

6. Tekniskt kontrollorgan:

**SKG-IKOB Certificatie BV**

Varselt testorgan:

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

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



7. Angitt ytelse enligt EAD 350141-00-1106.

<b>Bostik FP 404 Fire Retardant PU (Gun)Foam</b>		
No	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	NPD
8	Vedheft	NPD
9	Varighet	Z2
10	Fugebevegelser	NPD
11	Sykluser av tetting mot vegg	NPD
12	Komprejon	NPD
13	Lineær ekspansjon	NPD
<b>BWR 5 Støybeskyttelse</b>		
14	Luftlydisolering	Se annex B
<b>BWR 6 Energistyring og termisk isolasjon</b>		
15	Termiske egenskaper	NPD
16	Vannpermeabilitet	NPD



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, 19-06-2023



Annex A - Resistance to fire

Fire resistance classification (vertical linear joint seals in a stone wall)		
Bostik FP 404 vertically oriented connecting stone to stone		
<b>Wall thickness <math>\geq 70</math> mm</b> EI 30 - V - X - F - W 8 to 10 EI 20 - V - X - F - W 10 to 20	<b>Wall thickness <math>\geq 100</math> mm</b> EI 90 - V - X - F - W 8 to 10 EI 45 - V - X - F - W 10 to 30	<b>Wall thickness <math>\geq 115</math> mm</b> EI 120 - V - X - F - W 8 EI 60 - V - X - F - W 8 to 20 EI 45 - V - X - F - W 20 to 30

E = Critical Integrity, I = Intentional Interruption, V = Vertical application in a vertical wall, X = No movement applied, F = Splice applied in the field, W = Permitted width range in millimetres (fully filled joint seal)

The following conditions apply:

- the classifications are valid for linear joint seals in a wall with an orientation as mentioned (vertical). The classifications are valid in both directions;
- the linear joint seals may connect 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 in the classifications (70, 100 or 115 mm);
- the surfaces of the material on which FP 404 Fire Retardant PU (Gun) Foam is applied are thoroughly cleaned and moistened with water when needed;
- the allowed movement capability in practice is maximized to 7,5 %;
- the linear joint seal must be fully filled with FP 404 Fire Retardant PU (Gun) Foam.

Fire resistance classification (vertical linear joint seals in a stone wall)		
Bostik FP 404 vertically orientated connecting stone to stone		Bostik FP 404 vertically orientated connecting stone to wood
<b>Wall thickness <math>\geq 150</math> mm</b> EI 45 - V - X - F - W 8 to 40	<b>Wall thickness <math>\geq 200</math> mm</b> EI 120 - V - X - F - W 8 to 30 EI 60 - V - X - F - W 30 to 40	<b>Wall thickness <math>\geq 100</math> mm</b> EI 120 - V - X - F - W 8 to 20

E = Critical Integrity, I = Intentional Interruption, V = Vertical application in a vertical wall, X = No movement applied, F = Splice applied in the field, W = Permitted width range in millimetres (fully filled joint seal)

The following conditions apply:

- the classifications are valid for linear joint seals in a wall with an orientation as mentioned (vertical). The classifications are valid in both directions;
- the linear joint seals may connect 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 in the classifications (100, 150 or 200 mm);



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- If applicable, on the other side the linear joint seal connects to any type of wooden construction with a density of 500±50 kg/ml or more where the wooden construction is placed over the full thickness of the wall or minimal thickness as mentioned in the classifications (100 mm);
- the surfaces of the material on which FP 404 Fire Retardant PU (Gun)Foam is applied are thoroughly cleaned and moistened with water when needed;
- the allowed movement capability in practice is maximized to 7,5 %;
- the linear joint seal must be fully filled with FP 404 Fire Retardant PU (Gun)Foam.

<b>Fire resistance classification (horizontal linear joint seals in a stone wall)</b>
<b>Bostik FP 404 connecting stone to wood</b>  <b>Wall thickness ≥100 mm</b> <b>EI 90 - T - X - F - W 8 to 20</b>

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 (fully filled joint seal)

The following conditions apply:

- the classifications are valid for linear joint seals in a wall with an orientation as mentioned (horizontal). The classifications are valid in both directions;
- the linear joint seal connects 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 in the classifications (100 mm);
- on the other side, the linear joint seal connects to any type of wooden construction with a density of 500±50 kg/ml or more where the wooden construction is placed over the full thickness of the wall or minimal thickness as mentioned in the classifications (100 mm);
- the surfaces of the material on which FP 404 Fire Retardant PU (Gun)Foam is applied are thoroughly cleaned and moistened with water when needed;
- the allowed movement capability in practice is maximized to 7,5 %;
- the linear joint seal must be fully filled with FP 404 Fire Retardant PU (Gun)Foam.

<b>Fire resistance classification (linear joint seals in a floor)</b>	
<b>Thickness floor ≥100 mm</b>  EI 60 - H - X - F - W 8 EI 45 - H - X - F - W 8 to 20 EI 30 - H - X - F - W 20 to 30 EI 20 - H - X - F - W 30 to 40	<b>Thickness floor ≥150 mm</b>  EI 120 - H - X - F - W 8 to 20 EI 60 - H - X - F - W 20 to 30 EI 45 - H - X - F - W 30 to 40

E = Criterion Integrity, I = Criterion Insulation, H = Horizontal supporting construction, (floor) X = No movement applied, F = Splice applied in the field, W = Permitted width range in millimetres (fully filled joint seal)



Fire resistance classification (linear joint seals in a wall abutting a floor)	
<b>Thickness both wall and floor <math>\geq 100</math> mm</b>  EI 60 - T - X - F - W 8 EI 45 - T - X - F - W 8 to 20 EI 30 - T - X - F - W 20 to 30 EI 20 - T - X - F - W 30 to 40	<b>Thickness both wall and floor <math>\geq 150</math> mm</b>  EI 120 - T - X - F - W 8 to 20 EI 60 - T - X - F - W 20 to 30 EI 45 - T - X - F - W 30 to 40

E= Criterion Integrity, I= Criterion Insulation, T= Horizontal application in wall abutting a floor, X= No movement applied, F= Splice applied in the field, W= Permitted width range in millimetres (fully filled joint seal)

The following conditions apply:

- the linear joint seals may be applied at any type of floor and / or wall of aerated concrete (class G4/600 or heavier), concrete, block work, limestone or masonry with a minimal thickness as mentioned above. In a floor application, the fire resistance applies from below. In a wall abutting a floor application, the fire resistance applies from both directions;
- the classifications are not valid for horizontally orientated joints in a wall;
- the surfaces of the material on which the FP 404 Fire Retardant PU (Gun) Foam is applied are thoroughly cleaned and moistened with water when needed;
- the allowed movement capability in practice is maximized to 7.5 %.

Fire resistance classification (linear joint seals in a wall abutting a floor)	
<b>Thickness wall <math>\geq 70</math> mm, thickness floor <math>\geq 100</math> mm</b>  EI 45 - T - X - F - W 8 to 15	<b>Thickness wall <math>\geq 100</math> mm, thickness floor <math>\geq 150</math> mm</b>  EI 45 - T - X - F - W 8 to 20 EI 30 - T - X - F - W 20 to 30

E= Criterion Integrity, I= Criterion Insulation, T= Horizontal application in wall (abutting a floor), X= no movement applied, F= Splice applied in the field, W= Permitted width range in millimetres (fully filled joint seal)

The following conditions apply:

- the linear joint seals may be applied for a horizontal orientation in a vertical wall or a horizontal orientation in a vertical wall abutting a horizontal floor;
- the linear joint seals may be applied to any type of aerated concrete (class G4/600 or heavier), concrete, block work, limestone or masonry with a minimal thickness as mentioned above;
- the classifications are also valid for horizontally orientated joints in a wall;
- the surfaces of the material on which the FP 404 Fire Retardant PU (Gun) Foam is applied are thoroughly cleaned and moistened with water when needed;



the allowed movement capability in practice is maximized to 7.5%.

**Classification of the fire resistance • Bostik FP 404 In combination with other Bostik FP sealants**

<p align="center"><b>Fire resistance classification (Bostik FP 403 In combination with Bostik FP 404)</b></p> <p align="center">Bostik FP 403 Hybrid applied at the unexposed face, Bostik FP 404 applied at the exposed face</p>	
<p align="center">-----<b>Vertical orientated connecting stone to stone</b>-----  <b>Wall thickness ≥115 mm</b></p> <p align="center">EI 180 - V - X - F - W 8 to 25  EI 240 - V - X - F - W 8  E 240 - V - X - F - W 8 to 25</p>	
<p align="center"><b>Vertically orientated connecting stone to wood -</b>  <b>Wall thickness ≥100 mm</b></p> <p align="center">EI 120 - V - X - F - W 8 to 20</p>	<p align="center"><b>Horizontally orientated connecting stone to wood</b>  <b>Wall thickness ≥100 mm</b></p> <p align="center">EI 120 - T - X - F - W 8 to 20</p>

<p align="center"><b>Fire resistance classification (Bostik FP 401 In combination with Bostik FP 404)</b></p> <p align="center">Bostik FP 401 Acrylic applied at the unexposed face, Bostik FP 404 applied at the exposed face</p>	
<p align="center">-----<b>Vertical orientated connecting stone to stone</b>-----  <b>Wall thickness ≥115 mm</b></p> <p align="center">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</p>	

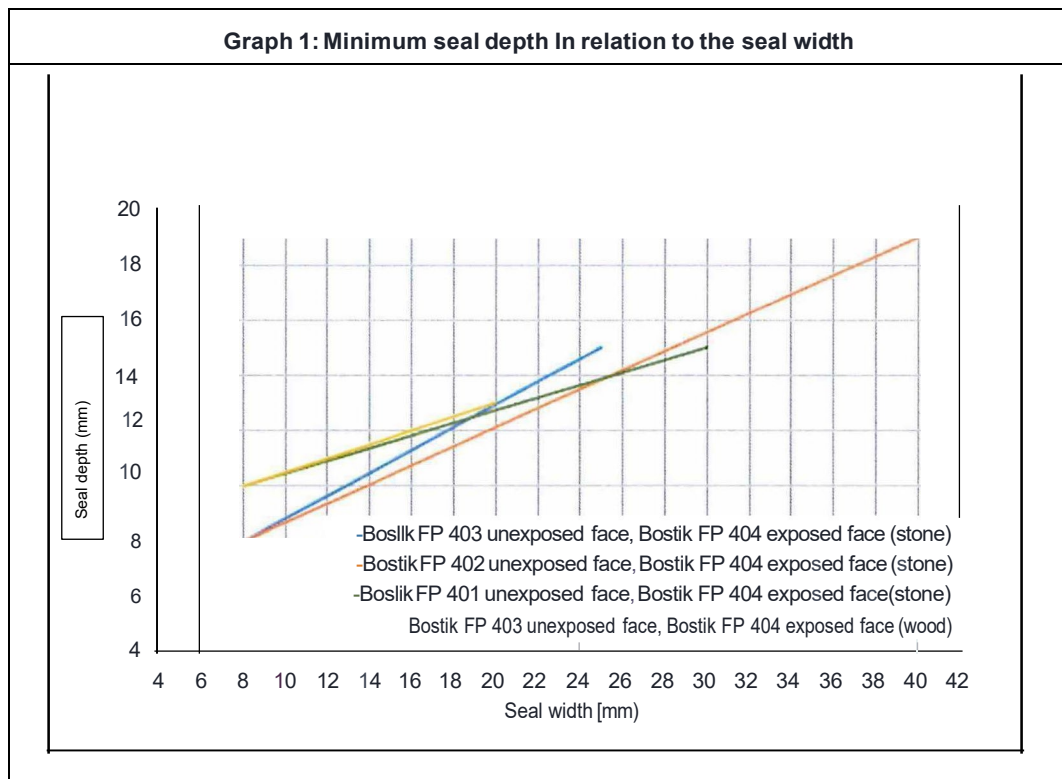
<p align="center"><b>Fire resistance classification (Bostik FP 402 In combination with Bostik FP 404)</b></p> <p align="center">Bostik FP 402 Silicone applied at the unexposed face, Bostik FP 404 applied at the exposed face</p>	
<p align="center">-----<b>Vertical orientated connecting stone to stone</b>-----  <b>Wall thickness ≥115 mm</b></p> <p align="center">EI 180 - V - X - F - W 8 to 40  EI 240 - V - X - F - W 8  E 240 - V - X - F - W 8 to 40</p>	

E = Criterion Integrity, I = Criterion Insulation, V = Vertical application In a vertical wall, T = Horizontal application In a vertical wall  
X = No movement applied, F = Spike applied In the field, W = Permitted width range In millimetres (see Graph 1 for sul depth)



The following conditions apply:

- the classifications are valid for linear Joint seals in a wall with an orientation as mentioned (horizontal or vertical). The classifications are valid for the Bostik FP sealant applied at the unexposed face and valid in one direction;
- the linear Joint seals may connect 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 in the classifications (100 or 115 mm);
- In combination with Bostik FP 403 Fireseal Hybrid, the linear Joint seals may connect to any type of wooden construction with a density of  $500 \pm 50 \text{ kg/m}^3$  or more where the wooden construction is placed over the full thickness of the wall or at least 100 mm;
- the surfaces of the material on which Bostik FP sealant and FP 404 Fire Retardant PU (Gun)Foam is applied are thoroughly cleaned and treated with primer and moistened with water when needed;
- the required depth of Bostik FP sealant depends on the width of the linear Joint seal. The minimum depth of the Bostik FP sealant in relation to the width of the linear Joint seal is shown in Graph 1 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). 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 %.







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<p><b>Fire resistance classification (Bostik FP 401 In combination with Bostik FP 404)</b></p> <p>Bostik FP 401 Acrylic applied at the exposed face, Bostik FP 404 applied at the unexposed face</p>
<p>-----<b>Vertical orientated connecting stone to stone</b>----- <b>Wall thickness <math>\geq 70</math> mm</b></p> <p>EI 45 - V - X - F - W 8 to 20 E 240 - V - X - F - W 8 to 20</p>
<p><b>Wall thickness <math>\geq 100</math> mm</b></p> <p>EI 90 - V - X - F - W 8 to 30 E 120 - V - X - F - W 8 to 30 EI 30 - V - <del>X</del> - F - W 30 to 40</p>
<p><b>Fire resistance classification (Bostik FP 402 In combination with Bostik FP 404)</b></p> <p>Bostik FP 402 Silicone applied at the exposed face, Bostik FP 404 applied at the unexposed face</p>
<p>-----<b>Vertical orientated connecting stone to stone</b>----- <b>Wall thickness <math>\geq 150</math> mm</b></p> <p>EI 60 - V - X - F - W 8 to 50</p>
<p><b>Wall thickness <math>\geq 200</math> mm</b></p> <p>EI 45 - V - X - F - W 8 to 50</p>
<p><b>Fire resistance classification (Bostik FP 403 In combination with Bostik FP 404)</b></p> <p>Bostik FP 403 Hybrid applied at the exposed face, Bostik FP 404 applied at the unexposed face</p>
<p>-----<b>Vertical orientated connecting stone to stone</b>----- <b>Wall thickness <math>\geq 100</math> mm</b></p> <p>EI 45 - V - X - F - W 8 to 40 E 120 - V - X - F - W 8 to 40</p>
<p><b>Wall thickness <math>\geq 150</math> mm</b></p> <p>EI 60 - V - X - F - W 8 to 50</p>
<p><b>Wall thickness <math>\geq 200</math> mm</b></p> <p>EI 120 - V - X - F - W 8 to 50</p>

E = Criterion Integrity, I = Criterion Insulation, V = Vertical application in a vertical wall, X = No movement applied, F = Spike applied in the field,  
W = Permitted width range in millimetres (depth see conditions)



The following conditions apply:

- the classifications are valid for a vertical orientation in a vertical wall;
- the linear joint seals may be applied to any type of wall of aerated concrete (class G4/600 or heavier), concrete, block work, limestone or masonry with a minimal thickness of 70 mm, 100 mm, 150 mm or 200 mm;
- the surfaces of the material on which the sealant is applied are thoroughly cleaned and treated with Primer when needed. The surfaces of the material on which the FP 404 Fire Retardant PU (Gun) Foam is applied are thoroughly cleaned and moistened with water when needed;
- the required depth of the Bostik FP sealant is minimal 3 mm. The rest of the slot is fully filled with FP 404 Fire Retardant PU (Gun) Foam;
- the linear Joint seals are tested without mechanically induced movement, therefore the allowed movement capability in practice is maximized to 7.5 %;
- the classifications are valid for Bostik FP sealant applied at the exposed face.



### Annex B - Airborne sound insulation

Joint width	10	20	30	40
Joint depth	100 mm	100 mm	100 mm	100 mm
$R_{s,w}(C;Ctr)$	53(-1;-4) dB	51(-1;-3) dB	45(-1;-1) dB	41(-1;-4) dB
$C_{100-5000} C_{1r,100-5000}$	(0;-4) dB	(-2;-3) dB	(-1;-1) dB	(0;-4) dB
$C_{so-J1so};C_{1r,so-J1so}$	(-1;-7) dB	(-1;-5) dB	(-1;-2) dB	(-1;-7) dB
$C_{so-5000};C_{tr,so-5000}$	(0;-7) dB	(-2;-5) dB	(-1;-2) dB	<0;-7) dB
$D_{new}$	60 dB	58 dB	52 dB	48 dB
$R_w$	33 dB	34 dB	30 dB	27 dB