DECLARATION OF PERFORMANCE

Ydeevnedeklaration

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. Varetypens unikke Identifikationskode:

   BOSTIK FP 404 Fire Retardant PU (Gun)Foam

2. Brugeområder:

   BRANDTÆTNING MELLEM BYGNINGSDELE, LINEÆRE FUGTER, HORISONTALE ELLER VERTIKALE

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. Europæisk vurderingsdokument

   EAD 350141-00-1106, edition September 2017

   Europæisk teknisk vurdering:

   ETA-20/1118 of 15/06-2022

6. Tekniskt vurderingsorgan:

   SKG-IKOB Certificatie BV

   Noticificerede 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

7. Deklareret ydeevne enligt EAD 350141-00-1106.

Bostik FP 404 Fire Retardant PU (Gun)Foam		
No	Væsentlig egenskab	Ydeevne
BWR 2 Sikkerhed i tilfælde af brand		
1	Brandklasse	B-s1,d0
2	Brandmodstand	Se annex A
BWR 3 Hygiene, helse og miljø		
3	Afgivelse af farlige stoffer	Erklæring fra produsenten
4	Luftgennemtrængelighed	NPD
5	Vandgennemtrængelighed	NPD
BWR. 4 Sikkerhed og tilgængelighed i brug		
6	Mekanisk styrke og stabilitet	NPD
7	Motstand mot slag og bevegelse	NPD
8	Vedhæftning	Godkent
9	Durabilitet	Z2
10	Fugebevægelser	See annex A
11	Cykler af tætning mod væggen	NPD
12	Kompression	NPD
13	Lineær ekspansion	NPD
BWR 5 Støjbeskyttelse		
14	Luft lydisolering	Se annex B
BWR 6 Energistyring og termisk isolasjon		
15	Termiske egenskaper	NPD
16	Vandgennemtrængelighed	NPD

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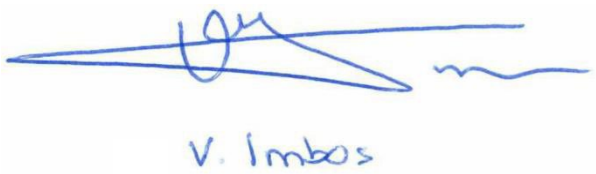
8. Ydeevnen for den byggevare, er i overensstemmelse med den deklarerede ydeevne. Denne Ydeevnedeklaration udstedes pa eneansvar af den fabrikant enligt (EU) nr 305/2011.

Underskrevet for fabrikanten og pa dennes vegne:



V. Imbos

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)		
Bostik FP 404 vertically oriented connecting stone to stone		
Wall thickness ≥ 70 mm	**Wall thickness ≥100 mm**	**Wall thickness ≥115 mm**
EI 30 - V - X - F - W 8 to 10 EI 20 - V - X - F - W 10 to 20	EI 90 - V - X - F - W 8 to 10 EI 45 - V - X - F - W 10 to 30	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 = CrltMoo Integrlty. I= C11te11on Innr!atlon, V= Vettlcal oppUcatlon Ina vertical wall, X= No movernent apphed, F = Splice appfled In tM hid,
VI=Permllted wldth range In rnlllimetres (fully filled /olnt seal)

The foliowing conditions apply:

- the classificatlons are valid for linear joint sealsIn a wall wlth an orlentation as mentioned (vertical). The classificatlons are valid in both dlrections;
- 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 11S mm);
- the surfaces of the material on which FP 404 Fire Retardant PU (Gun)Foam is applied are thoroughly cleaned and molstened wlth water when needed;
- the allowed movement capablllty In practice is maxlmlzed 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
Wall thickness ≥150 mm	**Wall thickness ≥ 200 mm**	**Wall thickness ≥100 mm**
EI 45 - V - X - F - W 8 to 40	EI 120 - V - X - F - W 8 to 30 EI 60 - V - X - F - W 30 to 40	EI 120 - V - X - F - W 8 to 20

E = CrltetlcnIntegrll)I, I= ulterion Inwlatlon, V =Vertical applicatlon Ina verllcal wall. X= "o 11\()11\'!ment appUed, F = SplKe appjled In the field,
VI = P<!w111ted wldth range In mlllimetres (fully filled Joint 1eal)

The foliowing conditlons apply:

- the classificatlons are valid for linear joint seals Ina wall with an orlentation as mentloned (vertical). The dassifications are valid In both directlons;
- 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 wlth a minimal thickness as mentioned In the classifications (100, 1SO 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.

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

E = Cr11erion Integrity, I= Criterion IMulation, T = Ho,lzontal appl1<.a11on lna verucal wall, X= No mo,•ement 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.

Fire resistance classification (linear joint seals lna floor)	
Thickness floor ≥100 mm	**Thickness floor ≥150 mm**
El 60 - H - X - F - W 8 El 45 - H - X - F - W 8 to 20 El 30 - H - X - F - W 20 to 30 El 20 - H - X - F - W 30 to 40	El 120 - H - X - F - W 8 to 20 El 60 - H - X - F - W 20 to 30 El 45 - H - X - F - W 30 to 40

E = Criletion Integtlty, I= Criterion Insulation, H = Horilontal supp<>rting constrnction, (floor) X= No movement applied,
F = Spliceapplied in the field, **W** = Pern,llll!d width range in millime11es (fu11y filled Joint seal)

Fire resistance classification (linear joint seals In a wall abutting a floor)	
Thickness both wall and floor ≥100 mm	**Thickness both wall and floor ≥150 mm**
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	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= 0:Iterlon Integrlty,I= C<Iterlon In iulatlon, T= Horlzontal applkatlon Inawall abuttlng a floor, X= No mo emem applied,
F = Spliceapplled In the field, \V= Permlned Wldth range In mllllmetrei tfully filled Joint seal)

The following condltions 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, llmestone or masonry with a minimal thickness as mentloned above. In a floor application, the fire resistance applles from below. In a wall abuttlng a floor applIcation, the fire resistance applies from both directlons;
- the classifications are ***not*** valid for horlzontally orlentated jointsin a wall;
- the surfaces of the materlal on which the FP 404 Fire Retardant PU (Gun)Foam is applied are thoroughly cleaned and molstened with water when needed;
- the allowed movement capabillty in practice is maxlmlzed to 7.5 %.

Fire resistance classification (linear joint seals In a wall abutting a floor)	
Thickness wall ≥ 70 mm, thickness floor ≥ 100 mm	**Thickness wall ≥100 mm, thickness floor ≥ 150 mm**
EI 45 -T- X - F -W 8 to 15	EI 45 - T - X - F - W 8 to 20 EI 30 - T - X - F - W 20 to 30

E = Crltetlon Integrlty, I= Criterl<>n Iruulatloo, T = Horlzomal applkaUon Ina wall (abuttlng a floor), X= tlo movement applled.
F = Splliceapplied rn the field, \V= Pe11nlned wldth range In mllllmetr (fully filled Joint seal)

The following conditions apply:

- the linear joint seals may be applied for a horlzontal orientatlon in a vertical wall or a horlzontal orlentation in a vertical wall abuttlng a horlzontal floor;
- the linear joint seals may be applied to any type of of aerated concrete (class G4/600 or heavier), concrete, block work, llmestone or masonry with a minimal thickness as mentloned above;
- the classificatlons are ***also*** valid for horizontally orientated jointsin 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;

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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*

Fire resistance classification (Bostik FP 403 In combination with Bostik FP 404) Bostik FP 403 Hybrid applied at the unexposed face, Bostik FP 404 applied at the exposed face	
Vertical orientated connecting stone to stone **Wall thickness ≥**115 mm 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	
Vertically oriented connecting stone to wood **Wall thickness ≥100 mm** EI 120 - V - X - F - W 8 to 20	**Horizontally orientated connecting stone to wood** **Wall thickness ≥100 mm** EI 120 - T - X - F - W 8 to 20

Fire resistance classification (Bostik FP 401 In combination with Bostik FP 404) Bostik FP 401 Acrylic applied at the unexposed face, Bostik FP 404 applied at the exposed face
Vertical orientated connecting stone to stone **Wall thickness ≥115 mm** 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

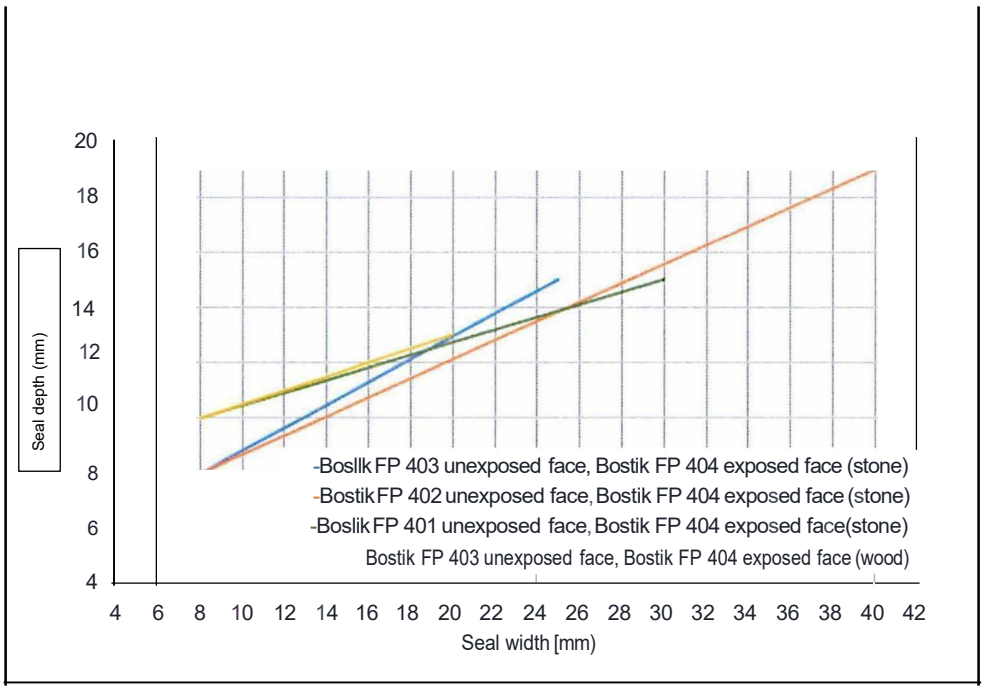
Fire resistance classification (Bostik FP 402 In combination with Bostik FP 404) Bostik FP 402 Silicone applied at the unexposed face, Bostik FP 404 applied at the exposed face
Vertical orientated connecting stone to stone **Wall thickness ≥115 mm** EI 180 - V - X - F - W 8 to 40 EI 240 - V - X - F -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

E = Crlterlon lntegrlty, I= Crlterlon Insulatlon, *V*= Vettlcal applicatlon Ina vertical wall, T = Horlzonul appllcatlon Ina vertical wall
X= *No* movem nt applled, F = Spike applled In the lield, W = l'erml!led wldth range In m1tt1n1etres (see Graph I for sul depth)

The followlng conditlons apply:

- the classlficatlons are valid for linear Joint seals In a wall wlth an orlentatlon as mentloned (horlzontal or vertical). The classlficatlons are valid for the Bostik FP sealant applied at the unexposed face and valid In one dlrectlon;
- 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 wlth a minimal thickness as mentloned In the classifications (100 or 115 mm);
- In combinatlon wlth Bostik FP 403 Flreseal Hybrid, the linear Joint seals may connect to any type of wooden constructlon wlth a density of 500±50 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 molstened wlth water when needed;
- the requlred depth of Bostik FP sealant depends on the wldth of the linear Joint seal. The minimum depth of the Bostik FP sealant In relation to the wldth of the linear Joint seal Is shown In Graph 1 below.The requlred depth of the sealant may also be increased wlth 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 capabllity In practlce is maxlmlzed to 7.5 %.

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



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Fire resistance classification (Bostik FP 401 In combination with Bostik FP 404) Bostik FP 401 Acrylic applied at the exposed face, Bostik FP 404 applied at the unexposed face
Vertical orientated connecting stone to stone **Wall thickness≥ 70 mm** EI 45 - V - X - F - W 8 to 20 E 240 - V - X - F - W 8 to 20
Wall thickness ≥100 mm 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

Fire resistance classification (Bostik FP 402 In combination with Bostik FP 404) Bostik FP 402 Silicone applied at the exposed face, Bostik FP 404 applied at the unexposed face
Vertical orientated connecting stone to stone **Wall thickness ≥150 mm** EI 60 - V - X - F - W 8 to 50
Wall thickness ≥200 mm EI 45 - V - X - F - W 8 to 50

Fire resistance classification (Bostik FP 403 In **combination with Bostik FP 404)** Bostik FP 403 Hybrid applied at the exposed face, Bostik FP 404 applied at the unexposed face
Vertical orientated connecting stone to stone **Wall thickness ≥100 mm** EI 45 - V - X - F - W 8 to 40 E 120 - V - X - F - W 8 to 40
Wall thickness ≥ 150 mm EI 60 - V - X - F - W 8 to 50
Wall thickness ≥ 200 mm EI 120 - V - X - F - W 8 to 50

E = Criterion Integrir,,I= C11terion Insolation, V= Vertical application Ina vertical wall, X= No movement applied, F = Spike applied In the field,
VI= Permitted wid1h range In m1II101etres (depth see conditions)

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The following conditions apply:

- the classifications are valid fora vertical orientation Ina vertical wall;
- the linear joint seals may be applied to any type of wall of aerated concrete (class G4/600 or heavler), concrete, block work, limestone or masonry with a minimal thickness of 70 mm, 100 mm, 1SO 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 the surfaces of the material on which the FP 404 Fire Retardant PU (Gun)Foam is applled 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 fiiled wlth FP 404 Fire Retardant PU (Gun)Foam;
- the linear Joint seals are tested without mechanlcally induced movement, therefore the allowed movement capablllty 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 Joint depth	10 100 mm	20 100 mm	30 100 mm	40 100 mm
Rs,w(C;Ctr)	53(-1;-4) dB	51(-1;-3) dB	45(-1;-1) dB	41<-1;-4) dB
C100-soo•o C1r·100-sooo	(0·-4) dB	(-2·-3) dB	(-1·-1)dB	(0·-4) dB
Cso-J1so;C1r,so-J1so	(-1;-7) dB	(-1;-5) dB	(-1;-2) dB	(-1;-7) dB
Cso-sooo;Ctr;so-sooo	(0;-7) dB	(-2;-5) dB	(-1;-2) dB	<0;-7) dB
Dnew	60 dB	58 dB	52 dB	48 dB
Rw	33 dB	34 dB	30 dB	27 dB