



Laboratory for Fire Safety

Summary of fire resistance:

Bostik FP 402 silicone sealant connecting stone to stone

On behalf of Bostik three tests were performed for determination of the fire resistance of several linear joint seals with Bostik FP 402 silicone sealant (further called Bostik FP 402) in walls of aerated concrete. The tests were performed in accordance with the European standard EN 1366-4:2006+A1:2010 using the standard heating curve.

This summary provides an outline of the product performance and the conclusions of the test. For a complete description of the examined linear joint seals, please refer to the reports mentioned in the footnote.

Based on the test performed in accordance with EN 1366-4:2006+A1:2010 and the extended application in accordance with EN 15882-4:2012, the system was classified in accordance with EN 13501-2:2007+A1:2009 and EN 13501-2:2016.

Taking into account the possible classification times mentioned in the standard, a linear joint seal made out of Bostik FP 402, is classified according to the following combinations of performance parameters and classes.

Fire resistance classification (vertical linear joint seals in a stone wall)		
Connecting stone to stone wall thickness ≥ 115 mm		Connecting stone to stone wall thickness ≥ 100 mm
Bostik FP 402 at unexposed face, Bostik FP 404 exposed face	Bostik FP 402 at unexposed face	Bostik FP 402 at both faces
EI 180 – V – X – F – W 8 to 40	EI 60 – V – X – F – W 5 to 25	EI 180 – V – X – F – W 5 to 30
EI 240 – V – X – F – W 8	EI 240 – V – X – F – W 5	EI 120 – V – X – F – W 30 to 40
E 240 – V – X – F – W 8 to 40	E 240 – V – X – F – W 5 to 25	E 240 – V – X – F – W 5 to 40

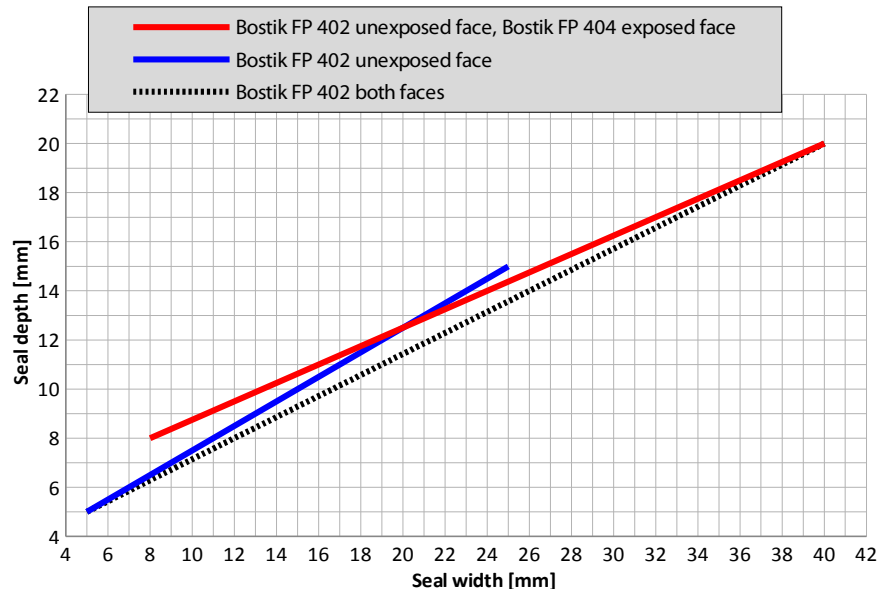
E = Criterion integrity, I = Criterion insulation, V = Vertical application in a vertical wall, X = No movement applied, F = Splice applied in the field, W = Permitted width range in millimetres

This summary consists out of 2 pages. The classification reports that form the basis for this summary are available for inspection at the client and are registered as YB 1567-1E-RA-002, dated June 24, 2015 and 18565C dated September 28, 2017.	Reference HL/HL//YQ 1692-8E-RA-001 13 September 2018	Page 1/2	Initials
--	--	-------------	--------------

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 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 (100 or 115 mm);
- the surfaces of the material on which Bostik FP 402 or Bostik FP 404 (PU foam) is applied are thoroughly cleaned and treated with Primer and moistened with water when needed;
- except for the linear joint seal in combination with Bostik FP 404 (PU foam), the use of suitable PE / PU backing material is mandatory;
- the required depth of Bostik FP 402 depends on the width of the linear joint seal. The minimum depth of Bostik FP 402 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). When applicable, the rest of the slot shall be fully filled with Bostik FP 404 (PU foam);
- the allowed movement capability in practice is maximized to 7.5 %;
- when Bostik FP 402 is applied at both faces, the classifications are valid for both directions. When Bostik FP 402 is applied at one face, the classifications are valid with Bostik FP 402 at the unexposed face.

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



This summary consists out of 2 pages. The classification reports that form the basis for this summary are available for inspection at the client and are registered as YB 1567-1E-RA-002, dated June 24, 2015 and 18565C dated September 28, 2017.

Reference
HL/HL//YQ 1692-8E-RA-001
13 September 2018

Page
2/2

Initials
HL