

Laboratory for fire safety

Summary of a fire resistance test: FP PU Foam

Test

On behalf of Bostik, a test was performed in the Peutz Laboratory for Fire Safety for determination of the fire resistance of several linear joint seals with FP PU Foam in a wall of aerated concrete. The test is performed according to the European test standard EN 1366-4:2006+A1:2010 using the standard heating curve.

This summary provides an outline of the product properties 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.

Classification of the fire resistance

Based on the test performed according to EN 1366-4:2006+A1:2010 and the extended application according to EN 15882-4:2014, the system was classified according to EN 13501-2:2007+A1:2009. Taking in into account the possible classification times mentioned in the standard, a linear joint seal made out of FP PU Foam, is classified according to the following combinations of performance parameters and classes



Fire resistance classification (fully filled linear joint seal)	
Thickness wall 100 mm	Thickness wall 115 mm
FP PU Foam fully filled	FP PU Foam fully filled
EI 30 – V – X – F – W 20 to 30 EI 45 – V – X – F – W 8 to 20 EI 90 – V – X – F – W 8	EI 45 – V – X – F – W 20 to 30 EI 60 – V – X – F – W 8 to 20 EI 120 – V – X – F – W 8

E = Criterion integrity, I = Criterion insulation, V = Vertical application in a vertical wall, X = No movement applied, F = Applied in the field,

W =Permitted width range in millimeters

This summary of a test into fire resistance consists of 2 pages. The reports that form the basis for this summary are available for inspection at the client and are registered as test report Y 1567-1E-RA-002 dated May 4, extended application report YC 1567-2E-RA dated May 4, 2015 and classification report YB 1567-1E-RA-002 dated June 24, 2015.





Peutz bv, postbus 66, 6585 zh mook, +31 24 357 07 07, mook@peutz.nl, www.peutz.nl All orders are accepted and executed according to 'De Nieuwe Regeling 2011' (The New Rules). Registerd under numer 12028033 at CoC. member NL-ingenieurs, iso-9001:2008 certified



General conditions and field of application

The classifications are valid for the system as tested. The direct field of application can be summarized as listed below:

- the linear joint seals may be applied in any type of wall of aerated concrete (class G4/600, 650±200kg/m3 or heavier), concrete, limestone or masonry with a minimal thickness as mentioned in the classifications;

- the classifications are valid for linear joint seals in a vertical orientation in a vertical wall;

- the surfaces of the material on which the FP PU Foam is applied are thoroughly cleaned and moistened with water;

- the linear joint seal must be completely filled with FP PU Foam.

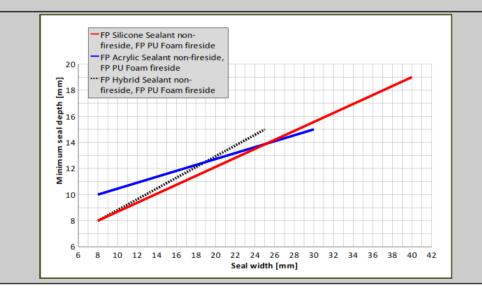
Additional conditions and field of application FP PU Foam with other FP Sealants

The FP PU Foam can be applied in combination with other FP Sealants. The classifications, additional conditions and the field of application is given in de information below.

Fire resistance classification (PF PU Foam in combination with other FP Sealant)

FP Silicone Sealant nonfireside, FP PU Foam fireside El 180 – V – X – F – W 8 to 40 El 240 – V – X – F – W 8 E 240 – V – X – F – W 8 to 40 FP Acrylic Sealant nonfireside, FP PU Foam fireside El 180 – V – X – F – W 8 to 30 El 240 – V – X – F – W 8 E 240 – V – X – F – W 8 to 30 FP Hybrid Sealant nonfireside, FP PU Foam fireside El 180 – V – X – F – W 8 to 25 El 240 – V – X – F – W 8 E 240 – V – X – F – W 8 to 25

The rest of the slot is fully filled with FP PU Foam. The classifications are valid for the FP Acrylic Sealant applied from the non-fireside. The minimum depth of the FP Sealant in relation to the width of the linear joint seal is shown in the overview below. The surface of the material on which the FP Sealant is applied is thoroughly cleaned and treated with primer. Thickness wall minimum 115 mm.



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