

Exova Warringtonfire  
Holmesfield Road  
Warrington  
WA1 2DS  
United Kingdom

T : +44 (0) 1925 655 116  
F : +44 (0) 1925 655 419  
E : warrington@exova.com  
W: [www.exova.com](http://www.exova.com)



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**Title:**

The Fire Resistance Performance Of three Specimens Of Wall Mounted Linear Gap Sealing Systems, When Tested Generally In Accordance With EN 1366-4: 2006 +A1:2010

**Report No:**

389382 – Issue 2



**Prepared for:**

**Siderise Insulations Ltd**

Forge Industrial Estate  
Maesteg  
Bridgend  
Mid Glamorgan  
CF34 0AZ

**Date:**

19<sup>th</sup> February 2018

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## Summary

**Objective** A fire resistance test has been conducted to assess the ability of three vertically orientated specimens of linear gap sealing systems, to reinstate the fire resistance of an autoclaved aerated concrete blockwork wall when tested generally in accordance with EN 1366-4: 2006 +A1:2010.

**Sponsor** **Siderise Insulations Ltd**

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**Summary of the Tested Specimens** For the purpose of the test the wall specimens were referenced A to C.

The section of wall had overall dimensions of 1500 mm high by 1500 mm wide by 250 mm thick and was made up of aerated blockwork and aerated concrete lintels arranged to provide three linear gaps of 300 mm wide and 1200 mm in length.

Specific details of each of the seals are given in the tables below:

### Test Specimens

Specimen	Substrate	Wall specimen seal details
A	Concrete to Concrete	Foil faced stone wool fibre barrier referenced 'XFS120' which had a stated density of 75 kg/m <sup>3</sup> . The barrier had overall dimensions of 310 mm wide by 1200 mm long by 120 mm thick and was butt jointed at approximately 250 mm from the head of the seal, the joint was covered with aluminium foil tape.
B	Concrete to Concrete	Foil faced stone wool fibre barrier referenced 'XFS90' which had a stated density of 75 kg/m <sup>3</sup> . The barrier had overall dimensions of 310 mm wide by 1200 mm long by 90 mm thick and was butt jointed at approximately 250 mm from the head of the seal, the joint was covered with aluminium foil tape.
C	Concrete to Concrete	Foil faced stone wool fibre barrier referenced 'XFS75' which had a stated density of 75 kg/m <sup>3</sup> . The barrier had overall dimensions of 310 mm wide by 1200 mm long by 75 mm thick and was butt jointed at approximately 250 mm from the head of the seal, the joint was covered with aluminium foil tape.

Full details of the specimens and installation methods are given in the Schedule of Components.

**Test Results**

Product Ref:  
RV-120/120 (300mm)  
RV-090/60 (300mm)  
RV-090/30 (300mm)

Specimen	Integrity (minutes)		Insulation (minutes)
	Cotton Pad	Sustained flaming	
A	132*	132*	132*
B	104	104	72
C	132*	132*	62

\* The test duration. The test was discontinued after a period of 132 minutes.

**Date of Test**

19<sup>th</sup> October 2017

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Permission applied for - May 2018

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