

Testing. Advising. Assuring.

WF Report No. 375575/B

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8<sup>th</sup> November 2016

## **Polypipe Building Products**

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Doncaster  
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Dear Sirs

### **Review of Test Report Referenced WF No. 166683**

#### **1 Introduction**

The report referenced WF No. 166683 relates to a fire resistance test conducted to assess the ability of two specimens of vertically mounted and two specimens of horizontally mounted cavity barrier systems, to reinstate the fire resistance of floor and wall constructions. The performance of the specimens was assessed, with respect to the integrity and insulation (maximum temperature rise only) performance criteria, as defined in BS 476: Part 20: 1987.

The wall and floor assemblies were formed from pre-cast reinforced aerated concrete lintels. The assemblies were provided with two apertures, the wall assembly contained apertures C and D, which were nominally 900 mm long by 120 mm wide. The floor assembly contained aperture A, which was nominally 900 mm long by 120 mm wide and aperture B, which was nominally 900mm long by 240 mm wide.

Apertures C, D and A were sealed with a cavity closer referenced 'Rigidcor/F 120' with overall dimensions of 120 mm wide by 31 mm deep by 900mm long comprising an extruded PVCu casing, encapsulating a mineral fibre insulating core. Aperture B was sealed with a cavity closer referenced 'Weathercore/F 240' with overall dimensions of 235mm wide by 36 mm deep by 900mm long, comprising an extruded PVCu casing made from two sections that held a mineral fibre insulating core. Each specimen was clad on one face only with a section of PVC window frame, and a section of 12.5 mm thick plasterboard.

Specimens C and D were installed into the vertically orientated cavities, Specimens A and B were installed into the horizontally orientated cavities.

The performance of the specimens were assessed against the integrity and insulation (maximum temperature rise only) performance criteria of BS 476: Part 20: 1987. The results obtained could be expressed as follows:

Test Results	Specimen A	Specimen B	Specimen C	Specimen D
Integrity	32 minutes*	32 minutes*	32 minutes*	32 minutes*
Insulation	32 minutes*	32 minutes*	32 minutes*	32 minutes*

\* The test duration. The test was discontinued after a period of 32 minutes.

## 2 Confirmation of Specification

It has been confirmed by Polypipe Building Products that there have been no changes to the specification or the construction given in the original report referenced WF No. 166683.

It should be noted that the mineral wool slab insulation material used within the system may be either Knauf LR128, Knauf HTB 690 or Paroc 140, as previously assessed under the reference WF Report no. 362148.

## 3 Conclusions

At present there are no additional resolutions adopted by the Fire Test Study Group since the original test was performed which would affect the manner in which the test would be conducted or the interpretation of the test results.

The procedures adopted for the original test have been re-examined and are similar to those currently in use.

Therefore, with respect to the fire resistance test report referenced WF No. 166683, its contents should remain valid until 1<sup>st</sup> December 2021.

## 4 Validity

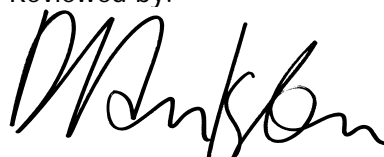
This review is based on information used to formulate the original test report. No other information or data has been submitted by Polypipe Building Products which could affect this review.

Performed by:



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