

Testing. Advising. Assuring.

WF Report No. 375575/D

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8th November 2016

Polypipe Building Products

Neale Road
off Wheatley Hall Road
Doncaster
DN2 4PG

Dear Sirs

Review of Test Report Referenced WF No. 147050 Issue 2

1 Introduction

The report referenced WFR No. 147050 Issue 2 relates to a fire resistance test conducted to assess the ability of three specimens of a linear gap sealing system, to reinstate the fire resistance of pre-cast aerated concrete floor 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 section of floor was formed from pre-cast reinforced aerated concrete lintels and had overall dimensions of 1200 mm long by 1200 mm wide by 215 mm thick. The assembly was provided with three apertures nominally 90, 92 and 95 mm wide by 1000 mm long. The specimen seals were built in to the apertures as the floor was constructed.

The seals comprised a section of mineral fibre slab within a plastic DPC sheath and were referenced "TDI Acoustic DPM Cavity Sock". Each seal was formed from two sections tightly butt jointed at mid-length.

The performances of the specimens were assessed against the integrity and insulation (maximum temperature rise) criteria of British Standard 476: Part 20: 1987, the results obtained were therefore expressed as follows:

Specimen Reference	Integrity (mins)	Insulation (mins)
Seal A	133	133
Seal B	133	133
Seal C	133	133

The test was discontinued after a period of 133 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 WFRC No. 147050 Issue 2.

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 Considerations

While there is now a published European Standard (EN 1366-4: 2006) relating to the fire resistance testing of linear joint sealing systems, this standard was not available when the test was conducted and therefore, as the fire resistance of the floor or wall construction into which the seal would be installed, is determined by test procedures detailed within BS 476: Part 20: 1987, 'Method for determination of the fire resistance of elements of construction (general principles)', it was deemed appropriate to use this as the basis for a test for evaluating the penetration sealing systems themselves.

The methodology with respect to the fire resistance testing of penetration sealing systems, i.e. utilising the heating conditions and performance criteria for integrity and insulation given in BS 476: Part 20: 1987, has not been amended and would, therefore, still be utilised for this purpose. In addition the guidelines adopted from prEN 1366-4 remain essentially unchanged.

4 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 WFRC No. 147050 Issue 2, its contents should remain valid until 1st December 2021.

5 Validity

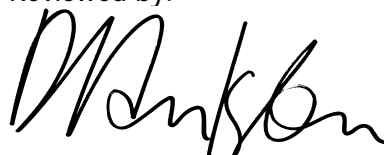
This review is based on information used to formulate the original test report. No other information or data has been submitted by Polypipe Building Products which could affect this review.

Performed by:



A Kearns
Technical Manager
Exova Warringtonfire

Reviewed by:



D Hankinson
Principal Certification Engineer
Exova Warringtonfire

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