

Testing. Advising. Assuring.

WF Report No. 375575/C

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8th November 2016

Polypipe Building Products

Neale Road
off Wheatley Hall Road
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Dear Sirs

Review of Test Report Referenced WF No. 156698/A

1 Introduction

The report referenced WF No. 156698/A relates to a fire resistance test conducted to assess the ability of a specimen of a linear gap sealing system, to reinstate the fire resistance of pre-cast aerated concrete 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 section of wall was formed from pre-cast reinforced aerated concrete lintels and had overall dimensions of 1000 mm long by 1000 mm wide by 215 mm thick. The assembly was provided with two apertures nominally 900 mm long by 200 mm wide. The specimen seal were fitted in to the apertures after the wall was constructed.

The specimen was a section of cavity closer referenced "Firestop 200" and comprised a section of mineral fibre based insulation, nominally 200 mm wide by 40 mm thick, bonded to a strip of polyethylene DPC material. The seal was compressed over its thickness and inserted into the 200 mm wide aperture of the assembly such that the mineral fibre insulation was flush with the unexposed face of the assembly.

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

Integrity	:	66 minutes
Insulation	:	59 minutes

* The test duration. The test was discontinued after a period of 66 minutes.

The second specimen included in the test was the subject of a separate test report referenced WF No. 156698/B.

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. 156698/A.

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 utilised for the test 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.

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 WF No. 156698/A, 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.

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