

Testing. Advising. Assuring.

WF Report No. 375575/I

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8<sup>th</sup> November 2016

## Polypipe Building Products

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Dear Sirs

### **Review of Test Report Referenced WARRES No. 112891**

#### **1 Introduction**

The report referenced WARRES No. 112891 relates to a fire resistance test performed utilising the general principles given in BS 476: Part 20: 1987 in conjunction with additional guidelines given in prEN 1366-4: 1998, on two specimens of linear gap sealing systems and two specimens of cavity closer/barrier.

The wall assembly was constructed from 150 mm thick autoclaved blockwork and incorporated two vertical gaps 25 mm wide by 900 mm high. A single specimen of 'Stonecor' PVC backed, mineral fibre insulation was installed into each gap. For the purpose of the test the seals were referenced Specimens A and B and were of overall dimensions 25 mm wide by 150 mm deep and 25 mm wide by 100 mm deep respectively.

The horizontal assembly incorporated two simulated cavity wall constructions formed from masonry and timber studwork into which were installed one specimen of 'Rigid-Cor/F' and one specimen 'Weathercor/F'. For the purpose of the test these specimens were referenced C and D respectively. Specimen C was of overall dimensions 40 mm thick by 100 mm wide by 1000 mm long and Specimen D was of overall dimensions 30 mm thick by 100 mm wide by 1000 mm long. Each specimen was installed with a central butt joint and covered with a section of 12.7 mm thick plasterboard and softwood window frame section.

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

Specimen Reference	Integrity – Mins	Insulation - Mins
A (Stonecor 150 mm)	33	33
B (Stonecor 100 mm)	33	33
C (Rigid/Cor/F)	33	33
D (Weathercor/F)	33	33

## 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 WARRES No. 112891.

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 could, 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 WARRES No. 112891 its contents should remain valid until 1<sup>st</sup> 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:



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