



# Confidential Report

Our Ref: **27/04277/06/17**



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Notified Body  
for PPE Directive,  
Construction Products Regulation  
& Marine Equipment Directive  
I.D. No. 0338 & 0339



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Date: 27 July 2017

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Client: Retford Wallcovering Ltd  
Corringham Road  
Gainsborough  
Lincolnshire  
DN21 1QB

Job Title: Fire Test on Composite Samples

Client's Order No: ---

Date of Receipt: 30 June 2017

Description of Sample(s): One composite sample consisting of Wallrock Thermal FR Adhesive, Wallrock Fireliner and Leyland Johnstones Trade Matt Paint.

Work Requested: BTTG were requested to test the composite sample to BS 476:Part 7 after the following application instructions:-  
  
Apply Wallrock Thermal Liner with Wallrock Thermal FR adhesive at 0.6kg per m<sup>2</sup>.  
  
Once dried, apply Wallrock Fireliner with Wallrock Thermal FR adhesive at 0.5kg per m<sup>2</sup>.  
  
Once dried, apply 2 coats of Leyland Johnstones Trade Matt at 115g per m<sup>2</sup> with a medium pile roller.

\* subcontracted test, UKAS accredited  
\*\* subcontracted test, EN ISO/IEC 17025 accredited  
\*\*\* not UKAS accredited



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## FIRE TESTS ACCORDING TO BS 476-7:1987

### Fire tests on building materials and structures. Method of test to determine the classification of the surface spread of flame of products

Date of Test: 26/07/2017

#### Conditioning

The composite sample was conditioned to constant mass at a temperature of  $23\pm 2^{\circ}\text{C}$  and a relative humidity of  $50\pm 10\%$ .

#### Procedure

The test was carried out in accordance with BS 476-7:1987. The sample was supplied by the sponsor of the test. Each composite specimen was adhered to a 12mm thick calcium silicate board following the application instructions specified.

The following were recorded:-

- a) the time at which the flame front crosses each vertical reference line;
- b) the maximum extent of flame spread during the first 1.5 min from the start of the test;
- c) the maximum extent of flame spread during the whole test i.e. 10 min or less (if applicable)
- d) the time (and distance) at which maximum flame spread is reached.

The flame spread at 1.5min and the final flame spread results were compared with the standard class limits and a classification was assigned.



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## Requirements

The class limits for flamespread, detailed in BS 476:Part 7: are set out below.

	Flame spread at 1.5 min (mm)	Final flame spread (mm)
Class 1	165 (+25)	165 (+25)
Class 2	215 (+25)	455 (+45)
Class 3	265 (+25)	710 (+75)
Class 4	Exceeding Class 3 limits.	

A definitive classification is based on a sample of six specimens and the figure in brackets gives the tolerance by which only one specimen in six may exceed the class limit assigned.

## Results

The test results relate only to the behaviour of the test specimens of the product under the particular conditions of test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

Time for flame spread to reach (s) (mm)								Flame spread at 1.5 min (mm)	Maximum flame spread (mm)	Time to reach maximum flame spread (s)
75	165	215	265	455	710	785	825			
--	--	--	--	--	--	--	--	75	75	120
--	--	--	--	--	--	--	--	70	70	80
--	--	--	--	--	--	--	--	70	70	85
--	--	--	--	--	--	--	--	75	75	80
--	--	--	--	--	--	--	--	80	80	70
--	--	--	--	--	--	--	--	80	80	70

## Observations

--



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## Classification

The results indicate the composite sample meets the performance requirements of Class 1.

Uncertainty of measurement has not been taken into account when presenting the test result. The relevant uncertainty value is included as an annex which forms an integral part of the report.

Reported by:..... *B Marsden* ..... B Marsden (Mrs), Fire Technician

Countersigned by:..... *P Doherty* ..... P Doherty, Operational Head

Enquiries concerning this report should be addressed to Customer Services.





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## Uncertainty Budget - Annex

The overall uncertainty budget for BS 476-7:1987 is as follows:-

**BS 476-7:1987**

Overall:  $\pm 20\%$



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