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Date: 18 December 2018  
Our Ref: 27/04850B/12/18  
Your Ref:  
Page: 1 of 5

Client: Flint Hire & Supply Ltd  
Unit 9 Deptford Trading Estate  
Blackhorse Road  
London  
SE8 5HY

Job Title: Fire Test on One Sample of Panels

Client's Order No: 041413

Date of Receipt: 11 December 2018

Sample reference: One sample of panels, referenced Plywood

Work Requested: We were asked to make the following test(s):  
BS 476 Part 7:1987

Note: This report relates only to the samples submitted and as described in the report.

- \* 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 (Including Amendments)**

### **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: 14/12/2018

#### **Conditioning**

The 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 (Including Amendments). The sample was supplied by the sponsor of the test. Each specimen was tested loose laid over a 12mm thick calcium silicate board.

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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TESTING • CERTIFICATION • AUDITING

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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			
91	144	169	199	--	--	--	--	70	410	588
79	166	252	340	--	--	--	--	90	275	431
79	127	149	224	--	--	--	--	90	425	600 ME
82	126	139	183	--	--	--	--	85	420	532
73	114	142	--	--	--	--	--	100	225	381
85	99	108	224	--	--	--	--	130	325	376

ME Manually Extinguished



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## Classification

The results indicate the sample meets the performance requirements of Class 2.

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), Senior Fire Technician

Countersigned by:..... *P Doherty* ..... P Doherty, Executive Manager

Enquiries concerning this report should be addressed to Customer Services..



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## Uncertainty Budget - Annex

The overall uncertainty budgets for BS 476-7:1987 are as follows:-

### BS 476-7:1987

Overall:  $\pm 20\%$



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