



**FIRE  
TECHNOLOGY  
SERVICES**

## **Confidential Report**

**Our Ref: 27/03835Supp2/04/16**

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

**Fire Technology Services  
A division of BTTG T & C Ltd  
Wira House, West Park Ring Road,  
Leeds, LS16 6QL**

**Tel No: +44 (0)113 2591999**





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27 May 2016

Our Ref: 27/03835Supp2/04/16  
Your Ref:

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Client: Kalsi Plastics Ltd  
Kalsi House  
5 Tomey Road  
Tyseley  
Birmingham  
B11 2NJ

Job Title: **Fire Test on One Sample of Plastic Panels**

Clients Order Ref: ---

Date of Receipt: 9 March 2016

Description of Sample: One sample of plastic panels, referenced: **High Gloss White 8mm Panels, Batch No: DBS1615.**

Also received a tube of adhesive referenced, Swish General Purpose Adhesive.

Work Requested: Fire Technology Services were requested to carry out a fire test on the sample supplied to BS 476 Part 7.

This is a supplementary report to the one issued on the 1<sup>st</sup> April 2016 under our report reference 27/03835/03/16.





4 May 2016

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Kalsi Plastics Ltd

**FIRE TESTS ACCORDING TO BS 476:PART 7:1987 (AS AMENDED)  
(Method for classification of the surface spread of flame of products)**

**Date of Test: 01/04/2016**

**Conditioning**

The sample was conditioned to constant mass at a temperature of 23±2°C and a relative humidity of 50±10% and maintained in this condition until required for testing

**Procedure**

The test was carried out in accordance with BS 476: Part 7: 1987(1993). The sponsor sampled the material and the panels were cut from the sample to the dimensions set out in the standard by FTS. The specimens were tested stuck down onto 12mm calcium silicate board using the adhesive Swish General Purpose adhesive which was supplied by the client.

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.

**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.





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### Results

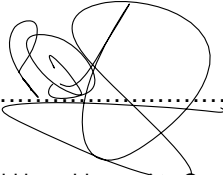
The test results relate only to the behaviour of the test specimens of the product under the particular conditions of test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

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)
165	215	265	455	710			
---	---	---	---	---	75	75	62
---	---	---	---	---	75	75	61
---	---	---	---	---	75	75	62
---	---	---	---	---	75	75	61
---	---	---	---	---	75	75	61
---	---	---	---	---	75	75	62

The results indicate that the sample met 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 (Mrs), Fire Technician

Countersigned by:  ..... 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:-

Overall:           ±20%

