

BY TESTING

SURFACE SPREAD OF FLAME TEST TO

BS 476: PART 7: 1987 ON A SAMPLE OF

GLASBORD 385 FXI W/SURFASEAL

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SURFACE SPREAD OF FLAME TEST TO
BS 476: PART 7: 1987 ON A SAMPLE OF
GLASBORD 385 FXI W/SURFASEAL

TEST REPORT NO. WARRES R11240

Prepared for:

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Date:

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1. INTRODUCTION

A sample of Glasbord 385 FXI W/Surfaseal has been tested for Surface Spread of Flame in accordance with BS 476: Part 7: 1987.

The Sponsor's letter of 20 July 1994 refers.

2. MATERIAL SUBMITTED

The material received on 25 July 1994 was stated by the Sponsor to be:-

Glasbord 385 FXI W/Surfaseal GRP.

The resin to glass ratio were 2:1, the percentage glass by weight was 15:1, and the polyester resin present in the panel was "Reichhold Chemical 6131-MS".

The colour of the panels was white and they were of a nominal thickness of 2.3 mm. No post curing of the specimens occurred and no gel coat was present.

The thickness was determined as 2.1 mm.
The density was determined as 1524 Kg/m³.

3. TEST METHOD

Six specimens were tested on 29 July 1994 according to BS 476: Part 7: 1987, Method for Classification of the Surface Spread of Flame of Products as amended by AMD 6249 of 31st January 1990, AMD 7030 of 31st January 1992 and AMD 7612 of 15 April 1993, by exposure of the decorative face to thermal radiation.

4. OBSERVATIONS

Specimen 1 ignited at 49 seconds and extinguished at 1 minute with the pilot flame only to reignite at 3 minutes 22 seconds and to extinguish finally at 3 minutes 30 seconds.
Specimen 2 ignited at 51 seconds and extinguished with the pilot flame.
Specimen 3 ignited at 3 minutes 46 seconds and extinguished at 3 minutes 53 seconds.
Specimen 4 ignited at 28 seconds and extinguished with the pilot flame.
Specimen 5 ignited at 44 seconds extinguished with the pilot flame only to reignite at 3 minutes 32 seconds and to extinguish finally at 4 minutes 3 seconds.
Specimen 6 ignited at 36 seconds and extinguished at 1 minute.

Each specimen exhibited charring and flash and transitory flaming, (up to approximately 180 mm) and emitted light coloured smoke.

5. RESULTS

Surface Spread of Flame (mm)		Specimen Number					
		1	2	3	4	5	6
		1.5 minutes	30	30	NIL	40	40
	10 minutes	30	30	100	40	130	30

FLAME SPREAD CLASSIFICATION

Classification	Flame Spread at 1.5mins		Final Flame Spread	
	Limit	Limit for one Specimen In sample	Limit	Limit for one Specimen In sample
	mm	mm	mm	mm
1	165	+25	165	+25
2	215	+25	455	+45
3	265	+25	710	+75
4		Exceeding Class 3 Limits		

6. CONCLUSION

In accordance with the Flame Spread Classification given in the Standard and reproduced above, the results show that the material has a Class 1 surface.

"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".

The specification and interpretation of fire test methods are the subject of ongoing development and refinement. Changes in associated legislation may also occur. For these reasons it is recommended that the relevance of test reports over 5 years old should be considered by the user. The laboratory that issued the report will be able to offer, on behalf of the legal owner, a review of the procedures adopted for a particular test to ensure that they are consistent with current practices, and if required may endorse the test report.

This report details the results of a test carried out on a specimen submitted by the client. No selection of the test specimen was carried out by Warrington Fire Research Centre.

REPORTED BY *Miss E. Wyn-Thomas*
 MISS E. WYN-THOMAS

CHECKED BY *A.S. Hewitt*
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