



FIRE
TECHNOLOGY
SERVICES

Confidential Report

Our Ref: 27/02383A/10/11



1066

18 November 2011

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Your Ref:

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Client: Plastivan N.V
Wantestraat 3
B-8780 Oostrozebeke
Belgium

Job Title: **Fire Test on One Sample of Cladding**

Clients Order Ref: --

Date of Receipt: 14 October 2011

Description of Sample: One sample of exterior cladding and sidings.

Ranges Covered: **Durasid**

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

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**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: 2/11/11

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. The sponsor sampled the material and the specimens were cut from the sample to the dimensions set out in the standard by FTS. The specimens were tested loose laid onto Airspace Boards.

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			
--	--	--	--	--	70	70	61
--	--	--	--	--	70	70	61
--	--	--	--	--	70	70	61
--	--	--	--	--	70	70	60
--	--	--	--	--	70	70	61
--	--	--	--	--	70	70	61

The results indicate that the sample met the performance requirements of Class 1.

Observations

Specimen 5 slumped out at 300 seconds
 Specimen 6 slumped out at 338 seconds



BTTG Testing & Certification Ltd.
Wira House
West Park Ring Road
Leeds, LS16 6QL
England

Tel: +44 (0)113 259 1999
Fax: +44 (0)113 278 0306
Web: <http://www.bttg.co.uk>
Email: CSLeeds@bttg.co.uk

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An estimation of uncertainty of measurement has not been taken into account when making a judgement to any pass/fail criteria.

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

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

PP M. NUNNEY
Enquiries concerning this report should be addressed to Customer Services.

