

**FIRE
TECHNOLOGY
SERVICES**

Confidential Report

Our Ref: 27/02397/11/11



1066

29 November 2011

Our Ref: 27/02397/11/11
Your Ref:

Page 1 of 4

Client: Woven Image PTY Ltd
37-39 Chard Road
Brookvale
NSW 2100

Job Title: **Fire Test on One Sample of Wall Covering/Fixed Wall Tile**

Clients Order Ref: --

Date of Receipt: 11 November 2011

Description of Sample: One sample of wall covering/ fixed wall tile, referenced: **Mura 3D Tile**.

Work Requested: Fire Technology Services were requested to carry out a fire test on the sample supplied to BS476 Part 7.

29 November 2011

Page 2 of 4

Our Ref: 27/02397/11/11
 Your Ref:

Woven Image PTY 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: 28/11/11

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 the sponsor. The specimens were tested stapled onto 12mm 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.

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.

29 November 2011

Page 3 of 4

Our Ref: 27/02397/11/11
 Your Ref:

Woven Image PTY Ltd

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			
--	--	--	--	--	150	150	60
25	379	--	--	--	180	250	397
51	--	--	--	--	165	165	60
--	--	--	--	--	150	150	60
--	--	--	--	--	100	100	60
--	--	--	--	--	140	140	60

Observations

Specimen 1 - Flaming droplets

Specimen 2 - Product melted and slumped into base of specimen holder leaving droplets melted to the board which re-ignited during the test period. The melted product in the base of the specimen holder continued to burn during the test period.

Specimen 4 - Product melted and slumped into base of specimen holder within 60 seconds preventing flame front propagating further.

Specimen 5 - After one minute a hole formed preventing flame front propagating further.

Specimen 6 - As specimen 5.



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29 November 2011

Page 4 of 4

Our Ref: 27/02397/11/11
Your Ref:

Woven Image PTY Ltd

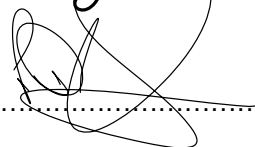
Comments

The results indicate that the sample met the performance requirements of Class 2Y

A suffix Y is added to the classification if any softening and/or any other behaviour that may effect the flame spread occurs. The Y suffix was added to this classification due to specimen softening and slumping within the holder after the initial first minute of testing.

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

Reported by:.....  R Ryan, Fire Technician

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

Enquiries concerning this report should be addressed to Customer Services.

