

Confidential Report

Our Ref: 26/02829/03/21



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



Wira House, West Park Ring Road, Leeds, LS16 6QL, UK. Telephone: +44 (0) 113 259 1999

Email: info@bttg.co.uk

: www.bttg.co.uk

Date: 26 March 2021

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Client:	Treatex Ltd
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Unit 1, Howland Road Business Park Howland Road Thame Oxfordshire OX9 3GQ

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Clients Order Ref: --

Date of Receipt: 02 March 2021

Description of Sample: One sample of wood particle board meeting the specification of BS EN 13238:2010,

treated with Treatex Hardwax Oil Ultra.

2 coats were applied at approximately 50 grams per m² per coat on to chipboard.

Work Requested: We were asked to make the following test(s):

BS EN 13501-1

- * subcontracted test, UKAS accredited
- ** subcontracted test, EN ISO/IEC 17025 accredited
- *** not UKAS accredited

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







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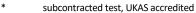
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** subcontracted test, EN ISO/IEC 17025 accredited

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Client: Treatex Ltd

FIRE TESTS ACCORDING TO BS EN ISO 11925-2:2010

Reaction to fire tests for building products – Part 2:

Ignitability when subjected to direct impingement of flame

Date of Test: 15/03/2021

Conditioning

Test specimens and filter paper conditioned as described in BS EN 13238:2010.

Procedure

The sample was tested in accordance with BS EN ISO 11925-2:2010.

Three specimens from each direction were tested in accordance with the above standard. Specified filter paper was placed beneath the specimen holder and replaced between tests.

The specimens were mounted vertically in the specimen holder so that one end and both sides were enclosed with the exposed end 30mm from the end of the frame. The burner was inclined at an angle of 45°. The flame height was set at 20 mm with the flame impinging on the specimen for 15 seconds on the centre line, 40 mm above the bottom edge.

A marker was placed 150 mm above the upper end of the burner and the time recorded when the flame tip reached the marker, if applicable. The following parameters were also recorded:-

- 1. If ignition occurs
- 2. Presence of flaming debris, if applicable
- 3. Ignition of the filter paper, if applicable

Duration of test

For a flame application time of 15 seconds, the total test duration is 20 seconds after application of the flame.







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Classification Criteria

The samples were classified according to BS EN 13501-1:2007+A1:2009 Fire classification of Construction Products and Building Elements: Part 1 - Classification using Test Data from Reaction to Fire Tests, Table 1 - Classes of reaction to fire performance for construction products excluding floorings.

Flaming Classification			
Classification	Criteria (mean values)		
E _{FL}	Fs ≤ 150mm within 20 seconds		
F _{FL}	None (No performance determined)		
Flaming droplets / particles classification			
Classification	Criteria		
No classification	Pass		
d2	Fail (Ignition of paper)		

Results

Specimen			Tip of flame re	eaches 150mm	Flaming droplets	
		Ignition (Yes or No)	Yes or No	Time taken (s)	Yes or No	Ignition of Filter paper (Yes or No)
	1	Yes	No	N/A	No	No
Non- Directional	2	Yes	No	N/A	No	No
Directional	3	Yes	No	N/A	No	No

The specimens of floor covering were tested loose laid over a 25mm air-space board, as defined in BS EN 13238:2010.





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FIRE TESTS ACCORDING TO BS EN ISO 9239-1:2010

Reaction to fire tests for Floorings - Part 1: Determination of the burning behaviour using a radiant heat source (ISO 9239-1:2010)

Date of Test: 26/03/2021

Conditioning

The specimens were conditioned in accordance with BS EN 13238:2010. The substrate used was a fibre cement board (ISO 390) with a thickness of (6±1)mm and a density of (1,800±200) Kg/m³ representing the standard substrate of Class A1fl or A2fl.

Procedure

The test was carried out in accordance with BS EN ISO 9239-1:2010. The sponsor sampled and cut the specimens to the dimensions stated.

Specimens were individually placed in the combustion chamber and allowed to preheat for two minutes under a radiant panel, which gives an imposed radiant flux ranging from approximately 11.0 kW/m² to 1.0 kW/m² along the specimen.

The pilot flame used was the line burner as described and was applied to the surface of the specimen for 10 minutes and then removed.

The flame front was measured at the end of the test or at 30 minutes if applicable.

Test termination was considered to be when the flame front self extinguished or at 30 minutes, which ever is the sooner.

The heat flux from the panel incident on the specimen when self extinguished or at 30 minutes (critical heat flux CHF or HF-30) was calculated from a prior calibration.





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Classification Criteria

The samples were classified according to BS EN 13501-1:2007+A1:2009 - Fire classification of Construction Products and Building Elements: Part 1: Classification using Test Data from Reaction to Fire Tests.

For floorings, including their surface coverings the classes are:

Classification	Classification Criteria (mean values) (kW/m²)
Bfl	8.0
Cfl	4.5
Dfl	3.0
	Smoke Production % x min
s1	≤ 750
s2	Not s1

When tested to BS EN ISO 11925-2:2010 the sample has to have a flame spread (Fs) of: Fs \leq 150mm within 20 seconds (Class Efl).

Results

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





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Results (Continued)

Specimen No.	Direction of	Smoke Ol	<u>oscuration</u>	Maximum Flame	Critical Heat	Duration of
	<u>specimen</u>	Max %	% x min	front (mm)	Flux (kW/m ²)	Flaming (sec)
1	Non-directional	13	63	280	7.4	1140
2	Non-directional	13	67	270	7.6	870
3	Non-directional	13	68	290	7.2	960
Mean of 3 specimens	Non-directional	13	66	280	7.4	990

<u>Distance</u>	<u>Ti</u>	me for each specimen to b	ourn (s)
Burnt (mm)	<u>1</u>	<u>2</u>	<u>3</u>
50	4.65	400	170
50	165	180	176
100	300	250	255
150	340	330	348
200	510	490	470
250	660	670	720

Note

One specimen was initially tested in each direction and whichever direction gave the worst result a further two specimens were tested. Only the results of the 3 specimens in the same direction were used to calculate the mean results.

The specimens of floor covering were tested loose laid over a 25mm air-space board, as defined in BS EN 13238:2010.





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Comment

The results meet the requirements of a Class C_{ff}-s1, as specified in BS EN 13501-1:2007+A1:2009.

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), Senior Fire Technician

Countersigned by: P Doherty Manager

Enquiries concerning this report should be addressed to Customer Services.





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Uncertainty Budget - Annex

The uncertainty budget for BS EN 13501-1:2007 + A1:2009 was determined as follows:-

BS EN ISO 11925-2:2010

Distance + 3mm, rest operator dependant but fully notable

BS EN 13823:2010

FIGRA 0.2MJ	+15%
FIGRA 0.4MJ	+15%
THR 600s	+10%
SMOGRA	+15%
TSP 600s	+20%

