

Confidential Report

Our Ref: 26/02628Supp/10/19



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



Telephone: +44 (0) 113 259 1999 Email: <u>info@bttg.co.uk</u>

Website: www.bttg.co.uk

Date: 13 May 2020

Our Ref: 26/02628Supp/10/19

Your Ref:

Page: 1 of 8

Client:	ITD Vertriebsgesellschaft m.b.h. Gewerbestrabe 10 2542 Kottingbrunn Austria
Job Title:	Fire Test on One Sample of Flooring
Client's Order No:	
Date of Receipt:	3 October 2019
Description of Sample(s):	One sample of flooring, referenced: IGNIS
Work Requested:	We were asked to make the following test(s): BS EN 13501-1
	This is a supplementary report to the one issued on the 28 th October 2019 under our report reference 26/02628/05/20.
	Note: This report relates only to the samples submitted and as described in the report.

subcontracted test, UKAS accredited

*** not UKAS accredited

subcontracted test, EN ISO/IEC 17025 accredited





Telephone: +44 (0) 113 259 1999 Email: <u>info@bttg.co.uk</u>

Website: www.bttg.co.uk

Date: 13 May 2020

Our Ref: 26/02628Supp/10/19

Your Ref:

Page: 2 of 8

Client: ITD Vertriebsgesellschaft m.b.h

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: 25/10/2019

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 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.





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

Email: info@bttg.co.uk

Website: www.bttg.co.uk

13 May 2020 Date:

Our Ref: 26/02628Supp/10/19

Your Ref:

Page: 3 of 8

Client: ITD Vertriebsgesellschaft m.b.h.

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

			Tip of flame re	eaches 150mm	Flaming droplets	
Specim	ien	Ignition (Yes or No)	Yes or No	Time taken (s) Yes or		Ignition of Filter paper (Yes or No)
	1	Yes	No	N/A	No	No
Warp	2	Yes	No	N/A	No	No
	3	Yes	No	N/A	No	No
Weft	1	Yes	No	N/A	No	No
	2	Yes	No	N/A	No	No
	3	Yes	No	N/A	No	No

Note

The specimens of floor covering were tested adhered to a 6mm fibre cement board, as defined in BS EN 13238:2010 using F3 Adhesive





Telephone: +44 (0) 113 259 1999 Email: <u>info@bttg.co.uk</u>

Website: www.bttg.co.uk

Date: 13 May 2020

Our Ref: 26/02628Supp/10/19

Your Ref:

Page: 4 of 8

Client: ITD Vertriebsgesellschaft m.b.h.

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: 25/10/2019

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. 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/m^2 to 1.0 kW/m^2 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.





Telephone: +44 (0) 113 259 1999 Email: info@bttg.co.uk

Website: www.bttg.co.uk

Date: 13 May 2020

Our Ref: 26/02628Supp/10/19

Your Ref:

Page: 5 of 8

Client: ITD Vertriebsgesellschaft m.b.h.

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.





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

one: +44 (0) 113 259 1999 Email: <u>info@bttg.co.uk</u>

Website: www.bttg.co.uk

Date: 13 May 2020

Our Ref: 26/02628Supp/10/19

Your Ref:

Page: 6 of 8

Client: ITD Vertriebsgesellschaft m.b.h.

Results (Continued)

Specimen No.	Direction of	Smoke Obscuration		<u>Maximum</u>	Critical Heat	Duration of
	<u>specimen</u>	Max %	<u>% x min</u>	Flame front	Flux (kW/m ²)	Flaming (sec)
				<u>(mm)</u>		
1	Machine	79	339	480	4.2	1800
2	Across	60	288	351	6.0	900
3	Machine	79	279	411	5.2	1230
4	Machine	77	303	412	5.2	1027
Mean of 3	Machine	78	307	434	4.9	1352
specimens	Widefille	70	307	757	7.5	1332

<u>Distance</u>	Time for each specimen to burn (s)				
Burnt (mm)	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	
50	140	146	150	141	
100	200	196	170	180	
150	280	230	206	272	
200	310	267	253	291	
250	360	354	300	340	
300	443	545	364	410	
350	465	750	650	521	
400	952		900	760	
450	1200				

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 stuck down onto a 6mm fibre cement board as defined in BS EN 13238:2010 using F3 Adhesive





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

Email: info@bttg.co.uk
Website: www.bttg.co.uk

Date: 13 May 2020

Our Ref: 26/02628Supp/10/19

Your Ref:

Page: 7 of 8

Client: ITD Vertriebsgesellschaft m.b.h.

Comments

In our opinion, based on the tests carried out on the sample supplied;

- a) the results of the BS EN ISO 11925-2:2010 test indicate the sample meets the requirements of a Class E_{FL}. It should be noted that this is only class that can be achieved when tested to this method alone.
- b) the results of the BS EN ISO 9239-1:2010 test indicate the sample meets the requirements of a Class C_{FL}-s1 when tested to this method alone.

Conclusion

In our opinion, the results indicate that the sample when classified to BS EN 13501-1:2007+A1:2009 meets an overall classification of: Class C_{f} -s1.

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, Executive Manager

Enquiries concerning this report should be addressed to Customer Services.





Telephone: +44 (0) 113 259 1999

Email: <u>info@bttg.co.uk</u> Website: <u>www.bttg.co.uk</u>

Date: 13 May 2020

Our Ref: 26/02628Supp/10/19

Your Ref:

Page: 8 of 8

Client: ITD Vertriebsgesellschaft m.b.h.

Uncertainty Budget - Annex

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

Overall (BS EN ISO 9239-1)

The uncertainty varies, therefore:

At position between a **Euroclass B to C ± 15%**At position between a **Euroclass C to D ± 15.5%**At position between a **Euroclass D to E ± 17.5%**

