



# Confidential Report

**Our Ref: 27/06077A/01/23**





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Website: [www.bttg.co.uk](http://www.bttg.co.uk)

Date: 22 February 2023

Our Ref: 27/06077A/01/23

Your Ref: ---

Page: 1 of 10

**Client:**

**Flamentek Limited**

Compass House  
Bunwell Road  
Besthorpe  
Attleborough  
Norfolk  
NR17 2NZ

**Job Title:**

Fire Classification of One Sample of Fabric Wallcovering

**Clients Order Ref:**

JG/BTTG-KV.21988

**Date of Receipt:**

30 January 2023

**Description of Sample:**

One sample of Fabric Wallcovering, referenced; 'Broken Twill Weave' - woven fabric (100% post-consumer recycled polyester). Treated with a Duraflam® flame retardant formulation by Fabric Flare Solutions Ltd. Ref: 21988 - Kvadrat A/S

**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 items tested.



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Date: 22 February 2023

Our Ref: 27/06077A/01/23  
Your Ref: ---

Page: 2 of 10

Client: **Flamentek Limited**

## **FIRE TESTS ACCORDING TO BS EN ISO 11925-2:2020**

**Reaction to fire tests – Ignitability of building products subjected to direct impingement of flame – Part 2 Single-flame source test.**

**Date of Test: 20/02/2023**

### **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. The sponsor sampled the material and the specimens were cut to the dimensions stated.

Three length and three width specimens were prepared 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 30 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



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Date: 22 February 2023

Our Ref: 27/06077A/01/23

Your Ref: ---

Page: 3 of 10

Client: **Flamentek Limited**

## Duration of test

For a flame application time of 30 seconds, the total test duration is 60 seconds after application of the flame.

## Classification Criteria

The samples were classified according to BS EN 13501-1:2018 Fire classification of Construction Products and Building Elements: Part 1: Classification using Test Data from Reaction to Fire Tests.

For construction products excluding floorings to meet the performance criteria taken from Table 1:

| Classification | Classification Criteria (mean values)                      |
|----------------|--|
| E<br>F         | $F_s \leq 150\text{mm}$ within 20 seconds<br>Fails Class E |

| Classification | Classification criteria for flaming droplets            |
|----------------|---|
| None<br>d-2    | Pass = no ignition of paper<br>Fail = Ignition of paper |



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Date: 22 February 2023

Our Ref: 27/06077A/01/23

Your Ref: ---

Page: 4 of 10

Client: **Flamentek Limited**

## Results

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

| Specimen                       | Ignition<br>(Yes or No) | Tip of flame reaches 150mm |                | Flaming droplets |  |    |
|--------------------------------|-------------------------|----------------------------|----------------|------------------|--|----|
|                                |                         | Yes or No                  | Time taken (s) | Yes or No        | Ignition of<br>Filter paper<br>(Yes or No) |    |
| Machine<br>Direction           | 1                       | No                         | No             | N/A              | No   | No |
|                                | 2                       | No                         | No             | N/A              | No   | No |
|                                | 3                       | No                         | No             | N/A              | No   | No |
| Across<br>Machine<br>Direction | 1                       | No                         | No             | N/A              | No   | No |
|                                | 2                       | No                         | No             | N/A              | No   | No |
|                                | 3                       | No                         | No             | N/A              | No   | No |

## Note

Sample was tested as an essentially flat product, the specimens were tested wrapped and stapled onto a 12mm calcium silicate board as defined in BS EN 13238:2010. A surface exposure was carried out only.

Test BS EN ISO 11925-2:2020 is accredited under our flexible scope policy.





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Date: 22 February 2023

Our Ref: 27/06077A/01/23

Your Ref: ---

Page: 5 of 10

Client:

Flamentek Limited

### Photograph of Specimen



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Date: 22 February 2023

Our Ref: 27/06077A/01/23  
Your Ref: ---

Page: 6 of 10

Client: **Flamentek Limited**

## **FIRE TESTS ACCORDING TO BS EN 13823:2020**

**Reaction to fire tests for Building Products - Building Products excluding floorings exposed to the thermal attack by a single burning item.**

**Classified According to BS EN 13501-1:2018**

Date of Test: 20/02/2023

### **Conditioning**

The specimens were conditioned in accordance with BS EN 13238:2010.

### **Principle**

Test specimens, consisting of two vertical wings forming a right-angled corner, is exposed to the flames of a burner placed at the bottom of that corner. The flames are obtained by the combustion of propane gas, injected through a sandbox to give a heat output of  $30.7 \pm 2.0$  kW.

The performance of the test specimen is evaluated over a period of 20 minutes. The performance requirements are: heat production, smoke production, lateral flame spread and falling flaming droplets and particles.

The heat production is measured by use of oxygen calorimeter that uses the principle that the amount of oxygen consumed in a fire is proportional to the amount of heat produced. The smoke production is measured by use of a light attenuation instrument installed in the exhaust duct alongside the sampling equipment used to measure the heat release. Visual observations are made of the horizontal flame spread and falling of flaming droplets and particles.



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Date: 22 February 2023

Our Ref: 27/06077A/01/23

Your Ref: ---

Page: 7 of 10

**Client:** Flamentek Limited

## Procedure

The test was carried out in accordance with BS EN 13823:2020.

Each specimen was tested wrapped and stapled onto a 12mm calcium silicate board as defined in BS EN 13238:2010.

Each specimen was placed in the trolley as per the instructions given and placed underneath the hood in the testing chamber. The volume flow of the exhaust was set to  $0.60 \pm 0.05 \text{ m}^3/\text{s}$  and maintained at this throughout the test period.

The temperatures in the exhaust hood and the ambient temperature should be within  $4^\circ\text{C}$  with the ambient temperature being within  $20 \pm 10^\circ\text{C}$ . The other pre-test conditions of ambient pressure and ambient relative humidity were also recorded.

The recording of baseline data is started at 0 s. At 120 s the auxiliary burner is ignited and the propane mass flow adjusted to the specified flow before 150 s, this flow to be kept constant throughout the test.

With the pre-test conditions met, the propane supply is switched from the auxiliary burner to the main burner at 300 s.

The burning behaviour of the specimen was recorded both automatically and visually over a period of 1,260 s from when the main burner was ignited.

At 1560 s the gas supply was terminated along with the automatic recording of the data. The conditions at the end of the test were recorded at least one minute after any remaining combustion has been totally extinguished.

The individual pre-test and baseline conditions, apparatus specifications, test validity criteria, burner details was found to be within specified parameters. The graphs of HRR, HRR(30), THR, FIGRA, SPR, SPR(60), TSP and SMOGRA are found below with the results and classification.



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Date: 22 February 2023

Our Ref: 27/06077A/01/23

Your Ref: ---

Page: 8 of 10

Client: **Flamentek Limited**

## Classification Criteria

The samples were classified according to BS EN 13501:2018 Fire classification of Construction Products and Building Elements: Part 1: Classification using Test Data from Reaction to Fire Tests.

For construction products excluding floorings the classes are:

| Classification | Classification Criteria (mean values) |                              |                  |                          |
|----------------|---------------------------------------|------------------------------|------------------|--------------------------|
|                | FIGRA <sub>0.2MJ</sub> (W/s)          | FIGRA <sub>0.4MJ</sub> (W/s) | LFS              | THR <sub>600s</sub> (MJ) |
| A2             | ≤120                                  | N/A                          | Edge of specimen | ≤7.5                     |
| B              | ≤120                                  | N/A                          | Edge of specimen | ≤7.5                     |
| C              | N/A                                   | ≤250                         | Edge of specimen | ≤15                      |
| D              | N/A                                   | ≤750                         | No requirement   | No requirement           |

To meet classification A2 the sample also has to meet the requirements of either BS EN ISO 1182 or BS EN ISO 1716.

To meet classification B, C and D the sample also has to meet the requirements of BS EN ISO 11925-2.

Additional Classifications - Smoke and Flaming droplets/particles

| Classification | Classification Criteria (mean values)  |                                       |
|----------------|--|---------------------------------------|
|                | SMOGRA (m <sup>2</sup> /s <sup>2</sup> )   | TSP <sub>600s</sub> (m <sup>2</sup> ) |
| s1             | ≤30  | ≤50                                   |
| s2             | ≤180   | ≤200                                  |
| s3             | Not s1 or s2   | Not s1 or s2                          |
| d0             | No flaming droplets/particles within 600seconds                                    |                                       |
| d1             | No flaming droplets/particles persisting longer than 10 seconds within 600 seconds |                                       |
| d2             | Not d0 or d1   |                                       |



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Date: 22 February 2023  
 Our Ref: 27/06077A/01/23  
 Your Ref: ---  
 Page: 9 of 10

Client: **Flamentek Limited**

**Results**

| Classification criteria                  | Specimen |       |      | Mean | Class     |
|--|----------|-------|------|------|-----------|
|  | 1        | 2     | 3    |      |           |
| FIGRA <sub>0.2MJ</sub> (W/s)             | 54.8     | 17.0  | 46.7 | 39.5 | <b>B</b>  |
| FIGRA <sub>0.4MJ</sub> (W/s)             | 28.8     | 17.0  | 25.8 | 23.9 |           |
| THR <sub>600s</sub> (MJ)                 | 2.3      | 1.4   | 2.0  | 1.9  |           |
| LFS to edge (yes or no)                  | No       | No    | No   | No   |           |
| SMOGRA (m <sup>2</sup> /s <sup>2</sup> ) | 59.5     | 59.0  | 45.0 | 54.5 | <b>s2</b> |
| TSP <sub>600s</sub> (m <sup>2</sup> )    | 92.9     | 113.6 | 84.3 | 96.9 |           |
| FDP flaming ≤ 10 s (yes or no)           | No       | No    | No   | No   | <b>d0</b> |
| FDP flaming > 10 s (yes or no)           | No       | No    | No   | No   |           |

**Note**

The test results relate to the behaviour of the test specimen of a product under the particular conditions of the test; they are not intended to be the sole criteria for assessing the potential fire hazard of the product in use.


Test BS EN 13823:2020 is accredited under our flexible scope policy.


**Comment**

The results meet the requirements of a Class B, s2, d0, as specified in BS EN 13501-1:2018.

Where required to make a judgement to any pass/fail criteria an estimation of uncertainty of measurement has been taken into account. Under our Policy we have used a non-binary decision rule.

See our decision rules Policy (<https://www.bttg.co.uk/about-us/decision-rules-policy/>) for further information.

Reported by:  G Harvey (Mr), Laboratory Technician

Countersigned by:  A Shute, Section Leader

Enquiries concerning this report should be addressed to Customer Services.



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Date: 22 February 2023

Our Ref: 27/06077A/01/23

Your Ref: ---

Page: 10 of 10

Client: **Flamentek Limited**

## Uncertainty Budget - Annex

The uncertainty budget for BS EN 13501-1:2018 was determined as follows:-

### BS EN ISO 11925-2:2020

±2 seconds for time recorded removal of flame and terminate test

### BS EN 13823:2020

|             |      |
|-------------|------|
| FIGRA 0.2MJ | ±15% |
| FIGRA 0.4MJ | ±15% |
| THR 600s    | ±10% |
| SMOGRA      | ±15% |
| TSP 600s    | ±20% |



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Date: 22 February 2023  
Our Ref: 27/06077B/01/23  
Your Ref: ---  
Page: 1 of 6

## 1 Introduction

This classification report defines the classification assigned to Broken Twill Weave (as described by the sponsor) in accordance with the procedures given in EN 13501-1:2018.

# CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH BS EN 13501-1:2018

**Sponsor:** Flamentek Limited  
**Prepared by:** BTTG Testing & Certification Ltd  
**Product name:** Broken Twill Weave  
**Classification report no.:** 27/06077B/01/23  
**Issue number:** 1  
**Date of issue:** 22 February 2023

This classification report consists of six pages and may only be used or reproduced in its entirety.

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



Date: 22 February 2023  
Our Ref: 27/06077B/01/23  
Your Ref: ---  
Page: 2 of 5

Client: **Flamentek Limited**

## 2 Details of classified product

### 2.1 General

The product, Broken Twill Weave, is defined as a type of product according to BS EN 15102:2007+A1:2011.

### 2.2 Product description

The product, Broken Twill Weave, is described below as:-

Woven fabric (100% post-consumer recycled polyester). Treated with a Duraflam® flame retardant formulation by Fabric Flare Solutions Ltd. Ref: 21988 - Kvadrat A/S:

## 3 Reports and results in support of this classification

### 3.1 Reports

| Name of Laboratory               | Name of sponsor   | Report reference number | Test method and date Field of application rules and date" |
|----------------------------------|-------------------|-------------------------|---|
| BTTG Testing & Certification Ltd | Flamentek Limited | 27/06077A/01/23         | BS EN ISO 11925-2:2020<br>BS EN 13823:2020                |

Client: **Flamentek Limited**

### 3.2 Results

| Test method and test number    | Parameter                                | No. Tests (specimens) | Results                         |  |
|--------------------------------|--|-----------------------|---------------------------------|--|
|                                |  |                       | Continuous parameter – mean (m) | Compliance with Class B, s2, d0 parameters |
| BS EN ISO 11925-2:2020         | FS (mm)                                  | 6                     | <150mm within 60s               | Compliant                                  |
|                                | Flaming Droplets / particles             |                       | No                              | Compliant                                  |
| BS EN 13823:2020               | FIGRA <sub>0.2MJ</sub> (W/s)             | 3                     | 39.5                            | Compliant                                  |
|                                | FIGRA <sub>0.4MJ</sub> (W/s)             |                       | 23.9                            |  |
|                                | THR <sub>600s</sub> (MJ)                 |                       | 1.9                             |  |
|                                | LFS to edge (yes or no)                  |                       | No                              |  |
|                                | SMOGRA (m <sup>2</sup> /s <sup>2</sup> ) |                       | 54.5                            | Compliant                                  |
|                                | TSP <sub>600s</sub> (m <sup>2</sup> )    |                       | 96.9                            |  |
|                                | FDP flaming ≤ 10 s (yes or no)           |                       | No                              |  |
| FDP flaming > 10 s (yes or no) | No                                       |                       |                                 |  |



Date: 22 February 2023  
Our Ref: 27/06077B/01/23  
Your Ref: ---  
Page: 4 of 5

Client: **Flamentek Limited**

## 4 Classification and field of application

### 4.1 Reference of classification

This classification has been carried out in accordance with BS EN 13501-1:2018.

### 4.2 Classification

The product Broken Twill Weave, in relation to its reaction to fire behaviour is classified:

**B**

The additional classification in relation to smoke is:

**s2**

The additional classification in relation to flaming droplets / particles is:

**d0**

| Fire behaviour |   | Smoke production |          |   | Flaming droplets |          |
|----------------|---|------------------|----------|---|------------------|----------|
| <b>B</b>       | - | <b>s</b>         | <b>2</b> | - | <b>d</b>         | <b>0</b> |

**Reaction to fire classification: B s2 d0**





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Date: 22 February 2023  
Our Ref: 27/06077B/01/23  
Your Ref: ---  
Page: 5 of 5

**Client:** Flamentek Limited

### 4.3 Field of application

This classification is valid for the following product parameters:

Woven fabric (100% post-consumer recycled polyester). Treated with a Duraflam® flame retardant formulation by Fabric Flare Solutions Ltd. Ref: 21988 - Kvadrat A/S

The classification is valid for the following end use applications:

The sample of wallcovering was tested over a 12mm calcium silicate board as defined in BS EN 13238:2010.


Each standard substrate represents end use substrates which have a density of at least 75 % of the nominal value of the density of that standard substrate.

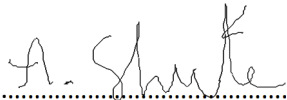
Standard substrates of classes A1 and A2-s1,d0 represent end use substrates of classes A1 and A2-s1,d0 only. The standard calcium silicate board substrate is not representative of a gypsum plasterboard end use substrate.

The classification is valid for loose laid applications where the fabric is mechanically fixed.

## 5 Limitations

This classification document does not represent type approval or certification of the product.

Reported by:   
SIGNED BY  
G Harvey,  
Fire Technician,

  
APPROVED BY  
A Shute  
Section Leader

Enquiries concerning this report should be addressed to Customer Services.