

**System Laboratories UK LTD**  
**Classification Report**  
**Classification of reaction to fire**  
**performance of construction products and**  
**building elements in accordance with BS**  
**EN 13501-1:2018**

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Report Number 319  
Issue B  
Prepared for The Millboard Company Ltd.  
Date 23/06/2023

Issue	Date	Notes
A	21/06/2023	First issue
B	23/06/2023	Correction of report issues


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Date 23/06/2023

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## 1. Introduction

This classification report defines the classification assigned to Board & Batten+ Cladding, in accordance with the procedures given in BS EN 13501-1: 2018.

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

Sponsor: The Millboard Company Ltd.  
Prepared for: The Millboard Company Ltd.  
Place of manufacture: Ryton Lodge, Oxford Road, Coventry, CV8 3EJ, UK

CAB Number: N/A  
Classification report No.: 319-B  
Date of issue: 23/06/2023

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## 2. Details of classified product

### 2.1. General

Classification according to BS EN 13501-1:2018 of Board & Batten + Cladding.

### 2.2. Traceability

The test sample was supplied by the sponsor. System Laboratories UK LTD was not involved in the sampling process and therefore cannot comment upon the relationship between the samples supplied for the test and the products supplied to the market.

### 2.3. Sample details

Test sponsor	The Millboard Company Ltd. Unit A Castle Court Bodmin Road Coventry CV2 5DB UK
Place of manufacture	The Millboard Company Ltd. Ryton Lodge Oxford Road Coventry CV8 3EJ UK
Trade name	Board & Batten + Cladding
Sample description (as provided by sponsor)	Millboard Board & Batten + cladding, fixed through the tongue to treated timber battens with Millboard Corner Profiles and aluminium trims
	<b>Product data (as provided by sponsor)</b>
Generic type of product	Composite cladding made with recycled natural minerals blended in a polymer resin with long fibre reinforcement
Nominal thickness (mm)	26mm (Provided by sponsor, excluding battens)
Density of core (kg/m <sup>3</sup> )	530kg/m <sup>3</sup> (Provided by sponsor, excluding battens)
Mass per unit area (kg/m <sup>2</sup> )	12.7kg/m <sup>2</sup> (Provided by sponsor, excluding battens)
Colour	Burnt Cedar (Black), Limed Oak (White), Jarrah (Red)
Test face	2K Coated fire rated elastomeric surface layer.

Flame retardant added, or N/A  
 organic content limited  
 during production

**Substrate and ventilation conditioned**

Substrate N/A  
 Type of air gap N/A

## 2.4. Detailed product description

The product is configured as detailed below, front to back.

Cladding	Type of product/layer	Board & Batten + Cladding board
	Product/layer reference	Cladding
	Thickness	26mm (provided by sponsor)
	Colour	Jarrah (Red), Limed Oak (White), Burnt Cedar (Black)
	Construction form	Fixed through the tongue and board face to treated battens
Corner Profile	Type of product/layer	Board & Batten + Corner Profile
	Product/layer reference	Corner Profile
	Dimensions	50x50x3050mm (provided by sponsor)
	Colour	Jarrah (Red), Limed Oak (White), Burnt Cedar (Black)
	Construction form	Fixed with perforated closure and accessories fixings
Aluminium Trims	Type of product/layer	Envello Aluminium Trims
	Product/layer reference	Aluminium Trims
	Dimensions	50x25mm (provided by sponsor)
	Colour	Metallic
	Construction form	Fixed with accessories fixings
Timber Battens	Type of product/layer	Treated Timber Battens
	Product/layer reference	Timber Battens
	Dimensions	50x25mm (provided by sponsor)
	Colour	Timber Colour
	Construction form	Fixed to wall framing with external grade fixings
Breather Membrane	Type of product/layer	Breather Membrane
	Product/layer reference	Membrane
	Thickness	0.7mm (provided by sponsor)
	Colour	Black
	Construction form	Stapled to sheathing board

Sheathing Board	Type of product/layer	OSB Sheathing Board
	Product/layer reference	Sheathing Board
	Thickness	12mm (provided by sponsor)
	Colour	Timber Colour
	Construction form	Fixed to wall framing

### 3. Reports and results in support of this classification

#### 3.1. Reports

Name of laboratory	Name of test sponsor	Test report No.	Test method/field of application
System Laboratories UK	The Millboard Company Ltd.	289B	13823:2020 Indicative SBI
System Laboratories UK	The Millboard Company Ltd.	290B	13823:2020 Indicative SBI
System Laboratories UK	The Millboard Company Ltd.	291B	13823:2020 Indicative SBI
System Laboratories UK	The Millboard Company Ltd.	310A	BS EN ISO 11925-2:2020
System Laboratories UK	The Millboard Company Ltd.	311A	BS EN ISO 11925-2:2020
System Laboratories UK	The Millboard Company Ltd.	312A	BS EN ISO 11925-2:2020
System Laboratories UK	The Millboard Company Ltd.	313A	BS EN 13823:2020

White, Black and Red colours were tested to extend the field of application to all colours in accordance with EGOLF Recommendation 003-2016



### 3.2. Results

Standard/Decision	Parameter	Number of tests	Results	
			Continuous parameter mean	Compliance with class
BS EN 13823:2020	FIGRA <sub>0,4</sub>	3	226.3 W/s	≤750 W/s <b>Compliant</b>
BS EN 13823:2020	Flaming Droplets	3	No flaming droplets	No flaming droplets <b>Compliant</b>
BS EN ISO 11925-2:2020 Jarrah (Red)	F <sub>s</sub>	6,6,6	<150mm within 60s	<150mm within 60s <b>Compliant</b>
BS EN ISO 11925-2:2020 Limed Oak (White)	F <sub>s</sub>	6,6,6	<150mm within 60s	<150mm within 60s <b>Compliant</b>
BS EN ISO 11925-2:2020 Burnt Cedar (Black)	F <sub>s</sub>	6,6,6	<150mm within 60s	<150mm within 60s <b>Compliant</b>

The product was given s3 smoke classification as it had achieved 560.8 m<sup>2</sup> TSP<sub>600s</sub>, thus failing the requirement of s2

## 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 Board & Batten + Cladding, in relation to reaction to fire behaviour is classified:

Fire behaviour                      Smoke production                      Flaming droplets  
D                      - s                      3                      , d                      0

Reaction to fire classification:	<b>D-s3,d0</b>
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### 4.3. Field of application

This classification is valid for the following product and mounting and fixing parameters:

Thickness	No variation allowed
Colour	Any
Composition	No variation allowed
Mass Per Unit Area	±5% of tested samples
Joints	Vertical and horizontal
Orientation	Vertical and horizontal

## 5. Limitations

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

The laboratory has played no part in sampling of the product.

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## 6. References

BS EN 13501-1:2018 - Fire classification of construction products and building elements

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

BS EN ISO 11925-2:2020 - Reaction to fire tests. Ignitability of products subjected to direct impingement of flame - Single-flame source test

EGOLF Recommendation 003-2016

**-End of Report-**