



Classification of reaction to fire performance of construction products and building elements in accordance with BS EN 13501-1:2018

Report Number 319

Issue B

Prepared for The Millboard Company Ltd.

Date 23/06/2023

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Issue	Date	Votes			
A	21/06/2023	First issue			
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Report No.:

319-B



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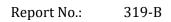
Signature

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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

UK

CV2 5DB

Place of manufacture The Millboard Company Ltd.

Ryton Lodge Oxford Road Coventry CV8 3EJ

UK

Trade name Board & Batten + Cladding

Sample description (as Millboard Board & Batten + cladding, fixed through the tongue to

provided by sponsor) treated timber battens with Millboard Corner Profiles and

aluminium trims

Product data (as provided by sponsor)

Generic type of product Composite cladding made with recycled natural minerals blended in

a polymer resin with long fibre reinforcement

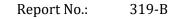
Nominal thickness (mm) 26mm (Provided by sponsor, excluding battens)

Density of core (kg/m³) 530kg/m³ (Provided by sponsor, excluding battens)

Mass per unit area (kg/m²) 12.7kg/m² (Provided by sponsor, excluding battens)
Colour Burnt Cedar (Black), Limed Oak (White), Jarrah (Red)

Test face 2K Coated fire rated elastomeric surface layer.

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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.

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

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

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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

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3.2. Results

		Number	Results		
Standard/Decision	Parameter	of tests	Continuous	Compliance with class	
		or tests	parameter mean	D-s3,d0	
BS EN 13823:2020	FIGRA _{0.4}	3	226.3 W/s	≤750 W/s	
D3 EN 13023.2020	1 1010A _{0.4}	3	220.3 W/S	Compliant	
BS EN 13823:2020	Flaming	3	No flaming droplets	No flaming droplets	
B3 EN 13023:2020	Droplets		No fiaming droplets	Compliant	
BS EN ISO 11925-2:2020	F_s	666	<150mm within 60s	<150mm within 60s	
Jarrah (Red)	I's	6,6,6	<130IIIII WILIIIII 008	Compliant	
BS EN ISO 11925-2:2020	r.	6.6.6	<150mm within 60s	<150mm within 60s	
Limed Oak (White)	F_s	6,6,6	<150IIIIII WIUIIII 608	Compliant	
BS EN ISO 11925-2:2020	E.	6.6.6	<150mm within 60s	<150mm within 60s	
Burnt Cedar (Black)	F_s	6,6,6	<150IIIIII WIUIIII 60S	Compliant	

The product was given s3 smoke classification as it had achieved 560.8 m 2 TSP $_{600s}$, thus failing the requirement of s2

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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:	D-s3,d0
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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.

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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-

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