

Classification Report

Fire classification of construction products and building elements.
Classification using data from reaction to fire tests in accordance
with BS EN 13501-1: 2018

Project ID 20251105-001605

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Revision A

Product Name "Board & Batten+ Cladding System"

Issue Date 25 June 2026

Prepared For The Millboard Company
1 Argosy Court
Scimitar Way
Coventry
CV3 4GA



Change History

Issue Date	Revision	Created by	Authorised by	Description of Change
25/06/2026	A	MS	MD	Initial issue

Signatories

	
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*For and on behalf of United Kingdom Testing and Certification.

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1 Introduction

This classification report defines the classification assigned to “Board & Batten+ Cladding System”, a cladding system in accordance with the procedures given in BS EN 13501-1: 2018. Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests.

2 Details of classified product

2.1 General

The test sponsor confirmed that the product is intended to be used as a cladding system and does not fall within the scope of a designated standard or harmonised product standard.

2.2 Product description

The product, “Board & Batten+ Cladding System”, is described below and in the test reports provided in support of classification listed in § 3.1. Unless stated, the description of the specimens given has been prepared from information provided by the sponsor. Unless tolerances are given, all values quoted are nominal.

General Description	Millboard Board & Batten+ cladding, fixed through the tongue to treated timber battens with Millboard Corner Profiles and aluminium trims	
Product reference	“Board & Batten+ Cladding System”	
Name of manufacturer	Millboard	
Orientation of planks	Horizontal or vertical orientation	
Component 1 - cladding	Product reference	“Board & Batten+ Cladding System”
	Generic type	Profiled cladding board made from a UV stable coating, a 2K coated elastomer layer and a natural mineral / polyester resin and fiber reinforced core
	Name of manufacturer	Millboard
	Diagram of cladding	
	Density	12.2 kg/m ²
	Overall component thickness	26mm
	Colour	Any colour
	Flame retardant details	See note 1 below
	Fixing method	Fixed through the tongue and board face to treated battens

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Component 2 – corner profile	Product reference	“Square Corner Trim”
	Generic type	UV stable 2K coated flexible polymer
	Name of manufacturer	Millboard
	Density / weight per unit area	13.2 kg/Unit
	Overall component thickness	50mm x 50mm
	Colour	Any colour
	Flame retardant details	See note 1 below
	Fixing method	Fixed with perforated closure and accessories fixings
Component 3 – aluminium trims	Product reference	“Envello Aluminium Trims”
	Generic type	Aluminium Perforated Closures, located at the bottom and top of cladding area to allow ventilation behind the boards
	Name of manufacturer	Millboard
	Density / weight per unit area	0.4kg Unit
	Overall component thickness	50 mm by 25 mm
	Wall thickness of plastic component	1.5mm
	Colour	Mill
	Flame retardant details	See note 2 below
Component 4 – Timber battens	Product reference	“Treated Timber Battens”
	Generic type	Treated Timber Battens, treated with preservative
	Name of manufacturer / supplier	See note 3 below
	Location	Fixed at 600mm centres
	Overall component thickness	50mm by 25 mm
	Colour	Timber coloured
	Flame retardant details	See note 2 below
	Fixing method	Fixed to wall framing with external grade fixings
Component 5 – Breather membrane	Product reference	“Vapour Permeable Underlay”
	Generic type	Vapour permeable underlay breather membrane
	Name of manufacturer / supplier	See note 3 below
	Weight per unit area	See note 3 below
	Overall component thickness	0.7 mm
	Colour	Green
	Flame retardant details	See note 2 below
	Fixing method	Stapled to sheathing board
Component 6 – Sheathing board	Product reference	“OSB Sheathing Board”
	Generic type	OSB sheathing board
	Name of manufacturer / supplier	See note 3 below
	Overall component thickness	11 mm
	Weight per unit area	20kg unit
	Density	650kg/m ³
	Colour	Timber coloured
	Flame retardant details	See note 2 below

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Mounting and fixing details	Mounted utilising timber battens creating a 40mm airspace and backed by the standard calcium silicate based backing board (EN 13238: 2010)
Brief description of manufacturing process	Products are made through a layering process in wood-grained moulds, before being machined to form the finished profile

Note 1 – The sponsor was unwilling to provide this information.

Note 2 – The sponsor stated that no flame retardant additives were utilised in the manufacture of the product/component.

Note 3 – The sponsor was unable to provide this information.

3 Supporting Evidence

3.1 General

The following reports(s) support this family assessment:

Name of Laboratory	Name of Test Sponsor	Report Reference No.	Relevant Standard(s)
United Kingdom Testing & Certification Limited Cairnmuir House Cairnmuir Road East Kilbride Glasgow G74 4GY	The Millboard Company 1 Argosy Court Scimitar Way Coventry CV3 4GA	TR20251105-001605-20i Revision A	BS EN 13823: 2020 + A1: 2022
		TR20251105-001605-21i Revision A	
		TR20251105-001605-24i Revision A	
		TR20251105-001605-22 Revision A	
		TR20251105-001605-30 Revision A	
		TR20251105-001605-11 Revision A	EN 15725: 2023 and EN/TS 15117: 2005

The following standards were considered during the family assessment:

Standard	Document title	Issue date
BS EN 15725	Extended application on the fire performance of construction products and building elements: Principle of EXAP standards and EXAP reports	2023
EN/TS 15117	Guidance on direct and extended application	2005

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3.2 Test results

Test method & test number	Parameter	Number of tests	Report	Results	
				Continuous parameter – mean (m)	Compliance parameter
BS EN 13823: 2020 + A1: 2022	FIGRA _{0.2MJ} (W/s)	Indicative	20251217-000511-20i – RV	200	–
		Indicative	20251217-000511-21i – RH	210	–
		Indicative	20251217-000511-24i – LV	181	–
		Formal	20251217-000511-22 – DH	221	–
	FIGRA _{0.4MJ} (W/s)	Indicative	20251217-000511-20i – RV	200	–
		Indicative	20251217-000511-21i – RH	210	–
		Indicative	20251217-000511-24i – LV	181	–
		Formal	20251217-000511-22 – DH	221	–
	THR _{600s} (MJ)	Indicative	20251217-000511-20i – RV	21.3	–
		Indicative	20251217-000511-21i – RH	22.0	–
		Indicative	20251217-000511-24i – LV	21.0	–
		Formal	20251217-000511-22 – DH	26.1	–
	LFS	Indicative	20251217-000511-20i – RV	–	Compliant (Nil)
		Indicative	20251217-000511-21i – RH	–	Compliant (Nil)
		Indicative	20251217-000511-24i – LV	–	Compliant (Nil)
		Formal	20251217-000511-22 – DH	–	Compliant (Nil)
	SMOGRA (m ² s ²)	Indicative	20251217-000511-20i – RV	102	–
		Indicative	20251217-000511-21i – RH	99.7	–
		Indicative	20251217-000511-24i – LV	105	–
		Formal	20251217-000511-22 – DH	130	–
	TSP _{600s} (m ²)	Indicative	20251217-000511-20i – RV	650	–
		Indicative	20251217-000511-21i – RH	693	–
		Indicative	20251217-000511-24i – LV	729	–
		Formal	20251217-000511-22 – DH	761	–
	Fall of Flaming Droplet/Particle?	Indicative	20251217-000511-20i – RV	–	Compliant (Nil)
		Indicative	20251217-000511-21i – RH	–	Compliant (Nil)
		Indicative	20251217-000511-24i – LV	–	Compliant (Nil)
		Formal	20251217-000511-22 – DH	–	Compliant (Nil)
	Flaming of Fallen Particle Exceeding 10s?	Indicative	20251217-000511-20i – RV	–	Compliant (Nil)
		Indicative	20251217-000511-21i – RH	–	Compliant (Nil)
		Indicative	20251217-000511-24i – LV	–	Compliant (Nil)
		Formal	20251217-000511-22 – DH	–	Compliant (Nil)

Where, R = Reddest colour, L = Lightest colour, D = Darkest colour, V = Vertical, H = Horizontal

Test method & test number	Parameter	Number of tests	Report	Results	
				Continuous parameter – mean (m)	Compliance parameter
BS EN ISO 11925-2 : 2026 (30s exposure – surface)	F _s	6	TR20251105-001605-30	-	Compliant (≤40 mm)
	Flaming droplets / particles			-	Compliant (Nil)
BS EN ISO 11925-2 : 2026 (30s exposure – edge)	F _s	6		-	Compliant (≤40 mm)
	Flaming droplets / particles			-	Compliant (Nil)
BS EN ISO 11925-2: 2026 (30s exposure – edge turned at 90 °)	F _s	6		-	Compliant (≤110 mm)
	Flaming droplets / particles			-	Compliant (Nil)

4 Classification

4.1 Reference to classification

This classification has been carried out in accordance with BS EN 13501-1: 2018 and where relevant, harmonised standards BS EN 15725 and EN/TS 15117 have been used to consider the field of application.

4.2 Classification

The product, “Board & Batten+ Cladding System” in relation to its reaction to fire behaviour is classified:

Classification in reaction to fire behaviour
D
The additional classification in reaction to smoke production is
s3
The additional classification in reaction to flaming droplets/ particles is
d0

The format of the reaction to fire classification for flooring applications is:

Fire Behaviour		Smoke Production			Flaming Droplets	
D	-	s	3	,	d	0

i.e. D-s3, d0

Reaction to Fire Classification
D-s3, d0
This document does not represent type approval or certification of the product

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4.3 Field of application

This classification is valid for the following product parameters:

Product parameters	Field of application	Reference to rule
Orientation of Ribs	Vertical or horizontal	EN 15725: 2023 and EN/TS 15117: 2005
Product colour	Any colour	EGOLF Recommendation 003-2016
Surface texture	No variation allowed	...
Product / Component thickness	No variation allowed	...
Product / Component weight per unit area	No variation allowed	...
Product / Component density	No variation allowed	...
Product / Component formulation	No variation allowed	...
Flame retardant details	No variation allowed	...

This classification is valid for the following end use applications:

Parameter	Field of application	Reference to rule
Substrate	Construction applications applied over any substrate with a minimum density of 870kg/m ³ , having a minimum thickness of 12mm and a fire performance of A2 _{fl} -s1 or better.	BS EN 13238: 2010
Fixing	Mechanically fixed	...
Joints	Vertical and horizontal joints allowed	...
Air gaps	40 mm airspace	...

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5 Limitations

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

According to the information provided by the sponsor, at the time the classification report for the tested material/product was issued, the product did not fall within the scope of a harmonised designated / product standard for UKCA or CE+UK(NI) marking. When such a product standard is published, this report may be submitted again to the laboratory to evaluate the adequacy of the report for UKCA or CE+UK(NI) marking.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.”

At the time the standard EN 13501-1: 2018 was published, no decision was made about the duration of validity of a classification report.

The test results and classification relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use, nor can the results be extrapolated and applied to other products.

Test and classification reports are based upon the information provided to United Kingdom Testing and Certification. United Kingdom Testing and Certification takes no responsibility for the accuracy or completeness of such information. The results stated in this report apply to the sample as received. Any differences in composition, production process, thickness, density or colour of the product may significantly affect the performance and will therefore invalidate the application of the test results to the variant product. Any variation to the tested configuration or product should be checked with the test sponsor. The test sponsor should then obtain appropriate documentary evidence of compliance from United Kingdom Testing and Certification or another approved testing authority.

The supplier of the product is responsible for ensuring that the product which is supplied for use is identical to the test sample as received. This test report may only be reproduced in full. Extracts or abridgements shall not be published without the express written permission of United Kingdom Testing and Certification.