

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

System Laboratories UK
LTD
Unit 13
Apex Park
Leighton Road
Leighton Buzzard
LU7 3RE
United Kingdom


Report Number 1116
Issue A
Prepared for CGL System Ltd.
Date 10/10/2024

Issue	Date	Notes
A	10/10/2024	First issue

Prepared by

Name Oliver Bauld

Position Laboratory Technician


Signature 

Authorised by

Name Asaf Gitarts

Position Laboratory Manager

Date 10/10/2024

Signature 

This report is made on behalf of System Laboratories UK LTD and may only be distributed in its entirety, without amendment, and with attribution to System Laboratories UK LTD to the extent permitted by the terms and conditions of the contract. Test results relate only to the specimens tested. System Laboratories UK LTD has no responsibility for the design, materials, workmanship or performance of the product or specimens tested. This report does not constitute an approval, certification or endorsement of the product tested and no such claims should be made on websites, marketing materials, etc. Any reference to the results contained in this report should be accompanied by a copy of the full report, or a link to a copy of the full report.

System Laboratories UK LTD's liability in respect of this report and reliance thereupon shall be as per the terms and conditions of contract with the client and System Laboratories UK LTD shall have no liability to third parties to the extent permitted in law.

Contents

1.	Introduction	4
2.	Details of classified product	5
2.1.	General	5
2.2.	Traceability	5
2.3.	Sample details	5
2.4.	Detailed product description	6
3.	Reports and results in support of this classification	7
3.1.	Reports	7
3.2.	Results	8
4.	Classification and field of application	9
4.1.	Reference of classification	9
4.2.	Classification	9
4.3.	Field of application	9
5.	Limitations	9
6.	References	10

1. Introduction

This classification report defines the classification assigned to CGL Wallplank Cladding System, 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:	CGL System Ltd.
Prepared for:	CGL System Ltd.
Place of manufacture:	2 Young Place, Kelvin Industrial Estate, East Kilbride, G75 0TD, UK
CAB Number:	N/A
Classification report No.:	1116-A
Date of issue	10/10/2024

This classification report may only be used or reproduced in its entirety.

2. Details of classified product

2.1. General

Classification according to BS EN 13501-1:2018 of CGL Wallplank Cladding System.

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 CGL System Ltd.
2 Young Place
Kelvin Industrial Estate
East Kilbridge
G75 0TD
Scotland
UK

Place of manufacture As above

Trade name CGL Wallplank System
Sample description (as provided by sponsor) Aluminium panel cladding system

Product data (as provided by sponsor)

Generic type of product Aluminium panel cladding system
Nominal thickness (mm) 95
Density of core (kg/m³) 100
Mass per unit area (kg/m²) Sponsor could not provide this information
Colour Interpon D2525 Y2214F Bronze Polyester Powder Coating
Test face Coated aluminium face

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

Substrate and ventilation conditioned

Substrate Glass Fibre Mat Faced Gypsum Board
Type of air gap 50 mm

2.4. Detailed product description

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

Paint	Type of product/layer	Polyester powder coating
	Product/layer reference	Polyester powder coating
	Thickness	110 µm
	Colour	Interpon D2525 Y2214F Bronze
	Construction form	PPC applied to aluminium
Aluminium	Type of product/layer	Aluminium sheet
	Product/layer reference	Aluminium sheet
	Thickness	2 mm
	Colour	Metallic
	Construction form	Aluminium sheet
Mineral Wool	Type of product/layer	Rock fibre mineral wool slab
	Product/layer reference	Mineral wool
	Thickness	50 mm
	Colour	Brown
	Construction form	Mineral Wool Insulation sandwiched between aluminium sheet and Gypsum Board with 50mm air cavity
Gypsum Board	Type of product/layer	Glass fibre mat faced gypsum board
	Product/layer reference	Gypsum board
	Thickness	12.5 mm
	Colour	White
	Construction form	Gypsum board substrate

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	CGL Systems Ltd.	529-A	BS EN ISO 1716:2018
System Laboratories UK	CGL Systems Ltd.	530-A	BS EN ISO 1716:2018
System Laboratories UK	CGL Systems Ltd.	1074-A	BS EN 13823:2020+A1:2022

3.2. Results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean	Compliance with class A2-s1,d0
BS EN 13823:2020+A1:2022	FIGRA _{0,2}	3	54.05 W/s	≤ 120 W/s Compliant
BS EN 13823:2020+A1:2022	THR ₆₀₀	3	2.25 MJ	≤ 7.5 MJ Compliant
BS EN 13823:2020+A1:2022	LFS	3	No spread to edge	No spread to edge Compliant
BS EN 13823:2020+A1:2022	TSP ₆₀₀	3	16.78 m ²	≤ 50 m ² Compliant
BS EN 13823:2020+A1:2022	SMOGRA	3	0.78 m ² /s ²	≤ 30 m ² /s ² Compliant
BS EN 13823:2020+A1:2022	Flaming Droplets	3	No flaming droplet	No flaming droplet Compliant
BS EN ISO 1716:2018 (b) Powder Coating	MJ/m ²	3	3.488 MJ/m ²	≤ 4 MJ/m ² Compliant
BS EN ISO 1716:2018 (a) Mineral Wool	MJ/kg	3	0.344 MJ/kg	≤ 3 MJ/kg Compliant
BS EN ISO 1716:2018 (e) Product as a whole	MJ/kg	3,3	0.401 MJ/kg	≤ 3 MJ/kg Compliant

Note:

Metals were not tested in the calorimeter due to BS EN ISO 1716:2018 clause 9.4.1 were metals are deemed to have a calorific value of 0.

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 CGL Wallplank System, in relation to reaction to fire behaviour is classified:

Fire behaviour Smoke production Flaming droplets
 A2 - s 1 , d 0

Reaction to fire classification:	A2-s1,d0
---	-----------------

4.3. Field of application

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

Thickness	All other greater thicknesses of mineral wool insulation layer with the same density and the same or better reaction to fire classification (EAD090062-00-0404)
Colour	No variation allowed
Composition/build up	No variation allowed
Density of core	No variation allowed
Mass per unit area	No variation allowed
Substrate	Glass fibre mat faced gypsum board only
Air gap	≥ 50 mm (EAD090062-00-0404)
Type of joints	Horizontal and vertical

5. Limitations

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

This classification report may only be used or reproduced in its entirety.

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

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 1716:2018 – Reaction to fire tests for products — Determination of the gross heat of combustion (calorific value)

EAD090062-00-0404 - Kits for external wall claddings mechanically fixed

-End of Report-