

PRODUCT TYPE CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH UNE-EN 13501-1:2019

E/F
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Sponsor: **Gusclad Ltd**
Ballyfarnon, Boyle
Co. Roscommon
Ireland

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Notified Body No: **0370**

Product name: **Gusclad 40 mm panel**

Classification report nº: **20/23913-3134-2**

Date of issue: **08th January, 2021**



1.-INTRODUCTION

This classification report defines the classification assigned to "Gusclad 40 mm panel" in accordance with the procedures given in the UNE-EN 13501-1:2019 standard.

2.- DETAILS OF CLASSIFIED PRODUCT

2.1.-General

The product, Gusclad 40 mm panel, is defined as "Self-supporting double skin metal faced insulating panels – Factory made products - Specifications" according to European standard UNE-EN 14509-2014 VC-2016.

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2.2.-Product description

In accordance with the technical specifications provided by the petitioner:

Product trade name: Gusclad 40 mm panel

PIR panel

The product is composed by 3 layers:

- Layer 1: PVC coated steel (outer sheet), thickness of 0,55 mm, approximate density of 7600 kg/m³, superficial density of 3602 kg/m², olive colour and leather-grain appearance.
- Layer 2: PIR foam (core material), thickness of 40 mm, average density of 41,17 kg/m³, superficial density of 1,79 kg/m² (inc. ribs), yellow colour and light coarse foam appearance.
- Layer 3: Smooth polyester coated steel (inside linear sheet), thickness of 0,38 mm, approximate density of 7600 kg/m³, superficial density of 2744 kg/m², white colour and smooth appearance.

The petitioner did not provide more information.

Fixing system: The test is carried out without substrate.

Manufacturer: Gusclad Ltd, Ballyfarnon, Boyle, Co. Roscommon, Ireland.

3.-REPORT AND RESULTS IN SUPPORT OF THIS CLASSIFICATION

3.1- Reports

| Name of Laboratory | Name of sponsor | Report ref. no. | Test method and date |
|--------------------|-----------------|-----------------|---|
| Applus – LGAI | Gusclad Ltd | 20/23913-3134-1 | EN ISO 11925-2:2020 15-12-2020 |
| | | | UNE-EN 13823:2012+A1:2016 15-12-2020 |

3.2- Results of the Tests

| Test Mode | RESULTS – Gusclad 40 mm panel | | | |
|---------------------------|---|-----------------|----------------|-------------------|
| | CRITERIA CLASS B | Nº TESTS | AVERAGE | COMPLIANCE |
| EN ISO 11925-2:2020 | $F_s \leq 150$ mm within 60 s | 18 | $F_s < 150$ mm | YES |
| UNE-EN 13823:2012+A1:2016 | $FIGRA_{0,2 MJ} \leq 120$ W/s | 3 | 67,16 | YES |
| | LFS < edge of the sample | 3 | <to edge | YES |
| | $THR_{600s} \leq 7,5$ MJ | 3 | 3,19 | YES |
| | CRITERIA subclass 's1' | Nº TESTS | AVERAGE | COMPLIANCE |
| | $SMOGR_A \leq 30$ m ² /s ² | 3 | 17,48 | YES |
| | $TSP_{600s} \leq 50$ m ² | 3 | 104,01 | NO |
| | CRITERIA subclass 's2' | Nº TESTS | AVERAGE | COMPLIANCE |
| | $SMOGR_A \leq 180$ m ² /s ² | 3 | 17,48 | YES |
| | $TSP_{600s} \leq 200$ m ² | 3 | 104,01 | YES |
| | CRITERIA subclass 'd0' | Nº TESTS | AVERAGE | COMPLIANCE |
| | Fall of droplets/particles in flames within 600 s | 3 | NO | YES |

4.- CLASSIFICATION AND FIELD OF APPLICATION

4.1- Reference of classification

This classification has been carried out in accordance with UNE-EN 13501-1:2019: "Classification in terms of the behaviour to fire of construction products and building elements. Part 1: Classification made from the data gathered during fire reaction tests".

4.2- Classification

The product, Gusclad 40 mm panel, in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s2

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

d0

| Fire Behaviour | | Smoke Production | | | | Flaming droplets | |
|-----------------------|---|-------------------------|---|---|---|-------------------------|--|
| B | - | s | 2 | , | d | 0 | |

REACTION TO FIRE CLASSIFICATION : B-s2,d0

This classification is only valid for the final conditions of use described in the present report.

4.3- Field of application

- This classification is valid for the following product parameters:

The classification is only valid for the product characteristics shown.

- The classification is valid for the following final use applications:

The product is intended for use as an exterior building envelope. External wall panel use only.

| | |
|---------------|---------------------------------|
| Substrate | None |
| Fixing method | N/A |
| Joints | Vertical |
| Air gap | 40 mm separation and ventilated |
| Others | - |

4.4.- LIMITATIONS

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

The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 of AVCP and CE marking under the Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products.

The manufacturer has made a declaration, which is held on file. This confirms that the products design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate. 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.

Laboratory Manager
LGAI Technological Center S.A. (APPLUS)

Technician Responsible of Euroclasses
LGAI Technological Center S.A. (APPLUS)

The results refer exclusively to the samples tested at the time and under the conditions indicated. The results refer exclusively to the samples tested at the time and under the conditions indicated. At the customer's request, the agreed decision rule to declare conformance to the specification or standard, is by following a simple binary decision rule. In this case, the upper limit of the probability value of false acceptance or false rejection, according to ILAC G8, is 50%.

Applus+ guarantees that this task has been carried out in compliance with the requirements of our Quality and Sustainability System, and furthermore, that the contractual terms and legal regulations have been complied with. In the framework of our improvement programme, we would appreciate any comments you may deem appropriate. These should be addressed to the manager who signs this document, or to the Quality Director of Applus+, at the following address: satisfaccion.cliente@applus.com
