

**THOMAS BELL-WRIGHT**

A PHENNA GROUP COMPANY



In accordance with IAS accreditation to ISO/IEC 17065  
Certification is Hereby Granted

to

## **Albond Alüminyum Sanayi ve Ticaret A.Ş.**

Ayazağa Mah. Mimar Sinan Sk. Seba Center İş Merkezi No: 21 D,  
Blk Kat:2 Kapı No: 15 Sarıyer, İstanbul, Türkiye

for

**“ALBOND FR”**

**4 mm thick Aluminium Composite Material  
(BS EN 13501-1, ASTM E84 and ASTM D1929)**

which, subject to limitations described on the following pages and continued  
listing on [www.tbwcert.com](http://www.tbwcert.com), complies with Product Certification Scheme  
*SD03 Exterior Wall Assemblies, Curtain Walls, Building Materials,  
Products & Assemblies*

In witness whereof, this Certificate is issued this 17<sup>th</sup> day of February 2025



*Sandy Dweik*

Sandy Dweik  
Chief Executive Officer

*Nicholas Purcell*

Nicholas Purcell  
Director of Certification

**Certificate Number: TBW0301110**

Initial registration: February 17, 2025

Issued: February 17, 2025

Expiration: February 16, 2028

File Name: Y1088\_CRT\_SD03RX\_FR\_Issue1\_1110\_(f)

Issue 1

This certificate and schedules are held in force by regular Factory Inspections by Thomas Bell-Wright International Consultants (TBWIC).  
Refer to [www.tbwcert.com](http://www.tbwcert.com) or contact TBWIC Certification Division to validate the current status of the Certification.

This certificate remains a property of Thomas Bell-Wright International Consultants.  
P.O. Box 26385, Dubai, UAE. | Tel: +971 4 8215777 | Email: [certification@bell-wright.com](mailto:certification@bell-wright.com) | Web: [www.bell-wright.com](http://www.bell-wright.com)

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F 19 Scheme Certificate Issue 8 Issued Mar 2024

# “ALBOND FR”

## 4 mm thick Aluminium Composite Material

- A. Certification is given for “ALBOND FR” 4 mm thick Aluminium Composite Material for Reaction to Fire Performance to test standard ASTM E84- “Standard Test Method for Surface Burning Characteristics of Building Materials” for Flame Spread Index (FSI) & Smoke Developed Index (SDI), ASTM D1929 - “Standard Test Method for Determination Ignition Temperature of Plastics” for Spontaneous Ignition (SIT) & Flash Ignition Temperature (FIT), and Reaction to Fire classification according to BS EN 13501-1 - “Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire test”, subject to the limitations stated herein. The summary of the scope of certification is stated below.

**Table 1. Summary of the Scope of Certification**

| Product Name/Reference                                 | Reaction to Fire Performance                |                              | Report Reference       |
|--|---|------------------------------|------------------------|
|  | Result                                      | Standard                     |                        |
| “ALBOND FR”<br>4 mm thick Aluminium Composite Material | B - s1, d0                                  | BS EN 13501-1 <sup>[1]</sup> | 3358T17-2              |
|  | Class A <sup>[2]</sup><br>(FSI: 0; SDI: 35) | ASTM E84 <sup>[3]</sup>      | RD104-6 (Rev.0)        |
|  | SIT: 396 °C<br>FIT: 416 °C                  | ASTM D1929 <sup>[4]</sup>    | 103262274MID-001b Rev1 |
| 3 mm thick core of<br>“ALBOND FR”                      | SIT: 420 °C<br>FIT: 420 °C                  | ASTM D1929 <sup>[4]</sup>    | SC137-1 (Rev.01)       |

<sup>[1]</sup> The achieved fire performance on tests conducted as per the requirement to UNE-EN 13501-1:2007+ A1: 2010 has been assessed to the latest edition of the standard, BS EN 13501-1:2018, and found to comply since the extent of revisions in the latest version does not impact the existing test evidence as documented in report Y1158-3/16/01/25/01.

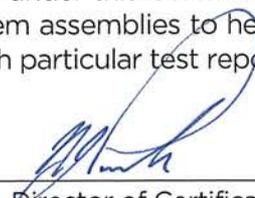
<sup>[2]</sup> Certification is based on ASTM E84-16 test result; and classification is based on the International Building Code 2021, Section 803.1.2 according to Flame Spread Index (FSI) and Smoke Developed Index (SDI).

<sup>[3]</sup> The achieved fire performance on tests conducted as per the requirement to ASTM E84-16 has been assessed to the latest edition of the standard, ASTM E84-24, and found to comply since the extent of revisions of the standard does not impact the existing test evidence as documented in report Y1158-1/16/01/25/01.

<sup>[4]</sup> The achieved fire performance on tests conducted as per the requirement to ASTM D1929-16 has been assessed to the latest edition of the standard, ASTM D1929-23, and found to comply since the extent of revisions of the standard does not impact the existing test evidence as documented in report Y1158-2/16/01/25/01.

- B. Readers of this document should be familiar with the fire test standard and the requirements of ISO/IEC 17065:2012. The Certification will be listed on [www.tbwcert.com](http://www.tbwcert.com) while it remains current. This Certification is not valid if it is not so listed.
- C. The product is approved based on TBWIC Product Certification Scheme SD03 Exterior Wall Assemblies, Curtain Walls, Building Materials, Products & Assemblies (Issue 12), which includes pre-test sampling, evidence of performance (under report reference(s) in Table 1), Technical Verification and Proof of Performance, compliance to Factory Production Control requirements and surveillance & Re-certification Inspection/Audits.
- D. Limitations
- D.1. This Certification covers the specifications of the products as tested and described in Sections E.
- D.2. The test standards, covered under this Certification, are used to measure the response of materials, products, or system assemblies to heat and flame under controlled conditions. The results described in each particular test report on its own shall not be used as the sole

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criteria for fire-hazard or fire-risk assessment of the materials, products, or system assemblies under actual fire conditions.

- D.3. No variations are allowed in the material composition and manufacturing process unless otherwise recognised and approved by this Certification.
- D.4. This Certification pertains only to the product as tested. It does not extend to the construction build-up or assembly comprising the material.
- D.5. This Certification does not address the following:
  - a. Air and Water Permeability
  - b. Measurement of heat transmission
  - c. Effect of aggravated flame spread behaviour of an assembly resulting from the proximity of combustible walls and ceilings.
  - d. Classification or definition of material as non-combustible
  - e. Any Resistance to Fire rating
  - f. The toxicity level of smoke developed during combustion
  - g. Fire propagation characteristics when tested as large-scale façade cladding assembly
  - h. Fire performance of panels having perforations or discontinuous surface

#### E. Product Details

##### E.1. Product Description

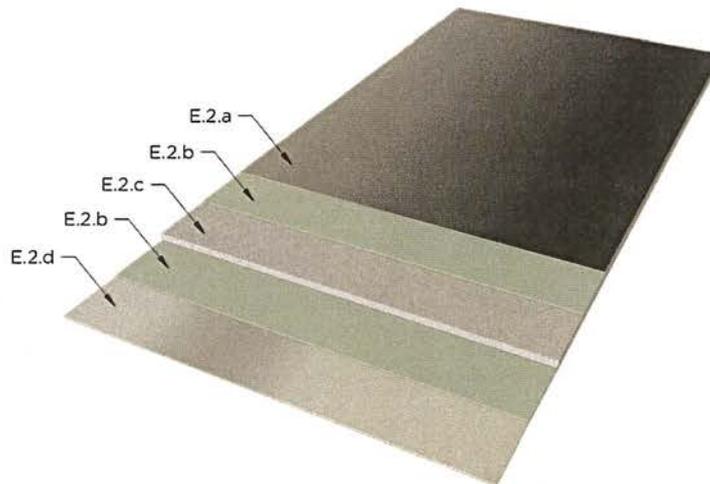
Reference: "ALBOND FR"

Description: 4 mm thick Aluminium composite material panel with mineral-filled core

Panel Thickness:  $4 \pm 0.2$  mm

Weight Per Unit Area:  $7.4 \text{ kg/m}^2 \pm 10\%$

##### E.2. Product Component Details



**Figure 1.** Aluminium Composite Material - Typical details

- a. Exterior Facing (Top Skin)
  - Material: Aluminium, Alloy EN-AW 3105-H44
  - Thickness:  $0.5 \pm 0.02$  mm
  - Coating Type: Polyvinylidene Fluoride (PVDF)
  - Coating Thickness:  $25 \pm 4$  microns
  - Colour: "Anthracite Gray"

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- b. Adhesive Film  
Material: Modified ethylene vinyl acetate (EVA) resin  
Maximum Thickness: 120 microns  
Nominal Density: 930 kg/m<sup>3</sup>
- c. Core  
Description: "Mineral-filled polymer core"  
Colour: White  
Thickness: 3 ± 0.2 mm  
Density: 1550 ± 100 kg/m<sup>3</sup>
- d. Interior Facing (Bottom Skin)  
Material: Aluminium, Alloy EN-AW 3105-H44  
Thickness: 0.5 ± 0.02 mm  
Coating Type: Polyester (PE)  
Coating Thickness: 5 ± 2 microns

F. Approved Manufacturing Location  
Hatip Mah. Ali Osman Celebi Bulvari No. 140,  
59860 - Corlu, Tekirdag, Türkiye

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