

6762

**THOMAS BELL-WRIGHT  
INTERNATIONAL CONSULTANTS**

In accordance with UKAS accreditation to ISO 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, Turkey*

for

**“ALBOND FR”**

**4 mm thick Aluminium Composite Material  
(ASTM E84-16, ASTM D1929-16 and UNE-EN 13501-1:2007+A1:2010)**

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 7<sup>th</sup> day of November 2021



*Sandy Dweik*

Sandy Dweik  
Chief Executive Officer

*Nicholas Purcell*

Nicholas Purcell  
Director of Certification

**Certificate Number: TBW0300768**

Initial registration: November 07, 2021  
File Name: VD031\_CRT\_SD03RX\_FR\_(f)

Issued: November 07, 2021

Expiration: November 06, 2024  
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 Certification. This certificate remains the property of Thomas Bell-Wright International Consultants, PO 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 7 Issued Feb 2020

# “ALBOND FR”

## 4 mm thick Aluminium Composite Material

- A. Certification is given for “ALBOND FR” Aluminium Composite Material for Reaction to Fire performance to test standards ASTM E84-16 for Flame Spread Index (FSI) and Smoke Developed Index (SDI), ASTM D1929-16 for Spontaneous Ignition Temperature (SIT) and Flash Ignition Temperature (FIT), and Reaction to Fire classification according to UNE-EN 13501-1:2007+A1:2010 – “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 this Certification is listed in Table 1 below.

**Table 1. Summary of the scope of certification**

Product Name/Reference	Reaction to Fire performance		Report Reference
	Result	Standard	
“ALBOND FR” Aluminium Composite Panel	Class A <sup>(Note 1)</sup> (FSI: 0, SDI: 35)	ASTM E84-16	RD104-6 (Rev.0)
	B - s1, d0	UNE-EN 13501-1:2007 + A1:2010	3358T17-2
	SIT: 396 °C, FIT: 416 °C	ASTM D1929-16	103262274MID-001b Rev1
3 mm thick core of “ALBOND FR” Aluminium Composite Panel	SIT: 420 °C, FIT: 420 °C	ASTM D1929-16	SC137-1 (Rev.01)

Note: (1) Certification is based on ASTM E84-16 test result, and classification is based on the International Building Code 2015, Section 803.1.1 according to Flame Spread Index (FSI) and Smoke Developed Index (SDI) values.

- B. Readers of this document should be familiar with Reaction to Fire Testing 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 listed.
- C. The product is approved on the basis of TBWIC Product Certification Scheme SD03 for Exterior Wall Assemblies, Curtain Walls, Building Materials, Products & Assemblies, which includes pre-test sampling, evidence of performance (under report reference(s) mentioned 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 product as tested and described in Section E.
- D.2. The response of the material to heat and flame was measured under controlled conditions in accordance with the requirements of the test standard(s) covered under this certification. The result(s) described in the respective test report shall not be used as the sole criteria for fire-hazard or fire-risk assessment of the product, material or system assembly under actual fire conditions.
- D.3. Changes to the product composition and manufacturing process are not permitted 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 wall system, construction build-up or assembly comprising the material.

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 Director of Certification  
 Nicholas Purcell

Seal number: 101551

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Issued: 07 Nov. 2021  
Valid to: 06 Nov. 2024

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D.5. This Certification does not address the following:

- a. Measurement of heat transmission
- b. Effect of aggravated flame spread behaviour of an assembly resulting from the proximity of combustible walls and ceilings.
- c. Classification or definition of material as non-combustible
- d. Any Resistance to Fire rating
- e. The toxicity level of smoke developed during combustion
- f. Fire propagation characteristics when tested as large-scale façade cladding assembly
- g. Fire performance of panels having perforations or discontinuous surface
- h. Other characteristics such as durability, weather-resistance, physical and mechanical properties etc.

E. Product details

E.1. Product description

Reference: "ALBOND FR" Aluminium Composite Panel

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

Weight per unit area:  $7.4 \text{ kg/m}^2 \pm 10\%$

Panel thickness:  $4 \pm 0.2 \text{ mm}$

E.2. Product component details

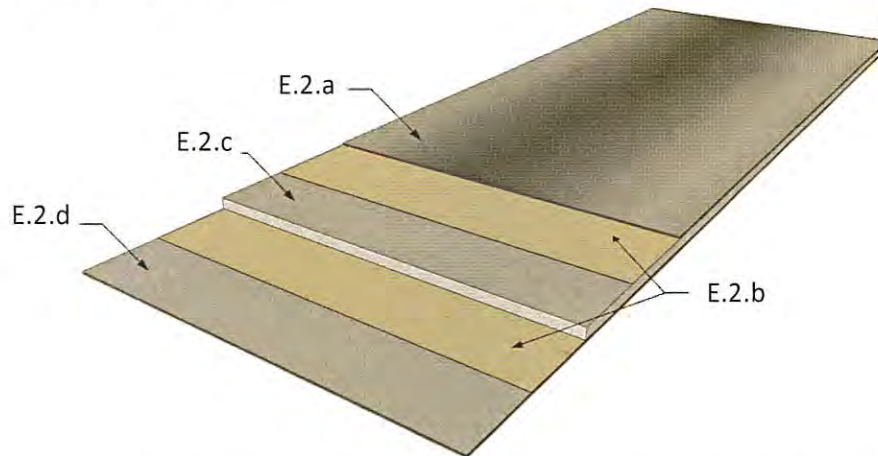



Figure 1: "ALBOND FR" Aluminium Composite Panel - Typical details

- a. Exterior Skin (top skin):  
Material: Aluminium Alloy, EN-AW 3105-H44  
Thickness:  $0.5 \pm 0.02 \text{ mm}$   
Coating type: Polyvinylidene Fluoride (PVDF)  
Coating thickness:  $25 \pm 4 \text{ microns}$
- b. Adhesive Film  
Material: Modified ethylene vinyl acetate (EVA) resin  
Maximum thickness: 120 microns  
Nominal density:  $930 \text{ kg/m}^3$

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- c. Core  
Description: mineral-filled polymer  
Thickness:  $3 \pm 0.2$  mm  
Colour: White  
Density:  $1550 \pm 100$  kg/m<sup>3</sup>
- d. Interior Skin (bottom skin)  
Material: Aluminium Alloy, EN-AW 3105-H44  
Thickness:  $0.5 \pm 0.02$  mm  
Coating type: Polyester (PE)  
Coating thickness:  $5 \pm 2$  microns

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

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