

**THOMAS BELL-WRIGHT  
INTERNATIONAL CONSULTANTS**

In accordance with UKAS accreditation to ISO 17065  
Certification is Hereby Granted

to

*Alucopanel Middle East L.L.C*

*National Industries Park, P.O. Box 18022,  
Dubai, United Arab Emirates*

for

**“Alucopanel® A2”**

**Aluminium Composite Material**

**(ASTM E84-16, ASTM D1929-16, BS EN 13501-1:2018 /  
BS EN 13501-1:2007 + A1:2009 / 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 25<sup>th</sup> day of November 2022



*Sandy Dweik*

Sandy Dweik  
Chief Executive Officer

*Nicholas Purcell*

Nicholas Purcell  
Director of Certification

**Certificate Number: TBW0300135**

Initial registration: November 25, 2019

Issued: November 25, 2022

Expiration: November 24, 2025

File Name: WI014\_CRT\_SD03RX\_Issue5\_135\_(f)

Issue 5

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

# “Alucopanel® A2” Aluminium Composite Material

- A. Certification is given for “Alucopanel® A2” Aluminium Composite Material for Reaction to Fire performance to test standard ASTM E84-16 – “Standard Test Method for Surface Burning Characteristics of Building Materials” for Flame Spread Index (FSI) and Smoke Developed Index(SDI), ASTM D1929-16 – “Standard Test Method for Determining Ignition Temperature of Plastics” for Spontaneous Ignition Temperature (SIT) & Flash Ignition Temperature (FIT), and Reaction to Fire classification according to BS EN 13501-1:2018/BS EN 13501-1:2007 + A1:2009/UNE EN 13501-1:2007 + A1:2010 – “Fire Classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests”, 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	
“Alucopanel® A2” 4 mm thick Aluminium Composite Material	A2 - s1, d0	BS EN 13501-1:2018	TH083-9 Rev.0
	SIT: 450 °C FIT: 450 °C	ASTM D1929-16	G1024.01-106-31
3 mm thick core of “Alucopanel® A2” Aluminium Composite Material	A2 - s1, d0	BS EN 13501-1:2007 + A1:2009	SJ167-4 Rev.0
	SIT: 510 °C FIT: 510 °C	ASTM D1929-16	H7447.01-106-31 R0
	Class A <sup>[1]</sup> (FSI: 15, SDI: 15)	ASTM E84-16	QG048-2 Rev.0
“Alucopanel® A2” 6 mm thick Aluminium Composite Material	A2 - s1, d0	UNE EN 13501-1:2007 + A1:2010	16/12569-1549 Part 2
	SIT: 450 °C FIT: 450 °C	ASTM D1929-16	G1024.01-106-31
5 mm thick core of “Alucopanel® A2” Aluminium Composite Material	A2 - s1, d0	BS EN 13501-1:2007 + A1:2009	SJ167-2 Rev.0
	SIT: 510 °C FIT: 510 °C	ASTM D1929-16	H7447.02-106-31 R0
	Class A <sup>[1]</sup> (FSI: 15, SDI: 30)	ASTM E84-16	QG048-1 Rev.0

Note 1. Certification is based on ASTM E84-16 test result, and classification is based on the International Building Code 2012, Section 803.1.1, according to Flame Spread Index (FSI) and Smoke Developed Index (SDI).

Certificate Number: TBW0300135

  
 Director of Certification  
 Nicholas Purcell

Seal number: 101856

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Issued: 25 Nov 2022  
Valid to: 24 Nov 2025

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- 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 based on 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) 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 Section E.
- D.2. The test standards covered under this Certification were 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 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 material composition and manufacturing process unless 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 shall be limited to the colour range of the exterior PVDF coating listed in the manufacturer's colour chart (Reference: *APL/CC001*).
- D.6. This Certification does not address the following:
- Measurement of heat transmission
  - Effect of aggravated flame spread behaviour of an assembly resulting from the proximity of combustible walls and ceilings
  - Classification or definition of material as non-combustible
  - Any Resistance to Fire rating
  - The toxicity level of smoke developed during combustion
  - Fire propagation characteristics when tested as large-scale façade cladding assembly
  - Fire performance of panels having perforations or discontinuous surface

E. Product Details

E.1. Product Description

Reference: "Alucopanel® A2"

Panel thickness:  $4.0 \pm 0.2$  mm /  $6.0 \pm 0.2$  mm

Weight Per Unit Area:  $8 \pm 0.5$  kg/m<sup>2</sup> (4 mm thick ACP)

$11.8 \pm 0.5$  kg/m<sup>2</sup> (6 mm thick ACP)

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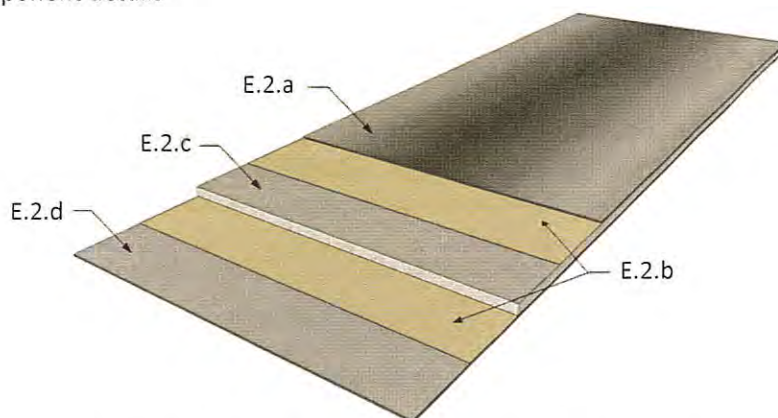
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## E.2. Product component details



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

- a. Exterior Facing (Top Skin)  
Material: Aluminium, Alloy 3105-H16  
Minimum Thickness: 0.5 mm  
Coating Type: Polyvinylidene Flouride (PVDF)  
Maximum Coating Thickness: 27 microns
- b. Adhesive  
Material: "High molecular content polymer adhesive"  
Thickness:  $70 \pm 2$  microns  
Density:  $920 \pm 10$  kg/m<sup>3</sup>
- c. Core  
Description: Mineral-filled inorganic core  
Thickness:  $3 \pm 0.1$  mm /  $5 \pm 0.1$  mm  
Density:  $1800 \pm 10$  kg/m<sup>3</sup>
- d. Interior Facing (Bottom Skin)  
Material: Aluminium, Alloy 3105-H16  
Minimum Thickness: 0.5 mm  
Coating Type: Polyester (PE)  
Maximum Coating Thickness: 7 microns

## F. Approved Manufacturing Location

Sublease Plot # TP010105B,  
National Industries Park,  
P.O. Box 18022, Dubai,  
United Arab Emirates

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