

ALUCOPANEL®



Thomas Bell - Wright TBW0300591

ASTM D1929-16 and BS EN 13501-1:2018

A2



**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+”
4 mm thick Aluminium Composite Material
(ASTM D1929-16 and BS EN 13501-1:2018)

which, subject to limitations described on the following pages and continued listing on www.tbwcert.com, complies with Product Certification Scheme *SD03 Exterior Wall Assemblies, Cladding, Curtain Walls, Building Materials, Products and Assemblies*

In witness whereof, this Certificate is issued this 12th day of March 2020



Sandy Dweik

Sandy Dweik
Chief Executive Officer

Nicholas Purcell

Nicholas Purcell
Director of Certification

Certificate Number: TBW0300591

Initial registration: March 12, 2020
File Name: TK128_CRT_SD03RX_A2+_(f)

Issued: March 12, 2020

Expiration: March 11, 2023

This certificate and schedules are held in force by regular Factory Inspections by Thomas Bell-Wright International Consultants (TBWIC). Refer to 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
Web: www.bell-wright.com

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F 19 Scheme Certificate Issue 7 Issued Feb 2020

“Alucopanel® A2+”

4 mm thick Aluminium Composite Material

- Certification is given for “Alucopanel® A2+” – Aluminium Composite Panel for Reaction to Fire performance to test standard ASTM D1929-16 for Spontaneous & Flash ignition temperature performance, and Reaction to Fire classification according to BS EN 13501-1:2018 – “Fire classification of construction products and building elements-Part 1: Classification using data from reaction to fire test”, subject to the limitations stated herein. Readers of this document should be familiar with Reaction to Fire Testing and the requirements of ISO/IEC 17065:2012. The scope of certification is stated below:

Table 1: Scope of Certification

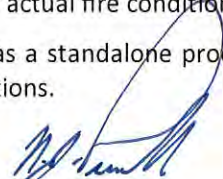
Reference	Reaction to Fire performance		Report No.
	Result	Standard	
“Alucopanel® A2+” – Aluminium Composite Panel ▪ Panel thickness: 4.0 ± 0.2 mm ▪ Weight per unit area: 8.1 ± 0.5 kg/m ²	A2 - s1,d0	BS EN 13501-1:2018	TK130-4 Rev.0
	SIT: 501 °C FIT: 501 °C	ASTM D1929-16	TK131-1 Rev.0
3 mm thick core of “Alucopanel® A2+” – Aluminium Composite Panel Density: 1800 - 1850 kg/m ³	A2 - s1,d0	BS EN 13501-1:2018	TK130-5 Rev.0
	SIT: 484 °C FIT: 483 °C	ASTM D1929-16	TK131-2 Rev.0

Note: (1) SIT – Spontaneous Ignition Temperature, FIT – Flash Ignition Temperature

- Certification is subject to the limitations stated herein. This Certification will be listed on www.tbwcert.com, while it remains current. The Certification is not valid if it is not listed.
- The product is approved on the basis of TBWIC Product Certification Scheme SD03 for Exterior Wall Assemblies, Cladding, Curtain Walls, Building Materials, Products and Assemblies which includes pre-test sampling, evidence of performance (under reference test report nos.: TK131-1 Rev.0 & TK131-2 Rev.0, and Classification report nos. TK130-4 Rev.0 & TK130-5 Rev.0) Technical Verification and Proof of Performance, compliance to Factory Production Control requirements and surveillance & Re-certification Inspection/Audits.
- This certification pertains to “Alucopanel® A2+” – Aluminium Composite Panel composed of mineral core adhered to aluminium facings. Refer to section 6 for further details.
- Limitations:
 - This certification covers the specifications of the material as tested and described in the respective test report(s).
 - 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 the respective test report(s) shall not be used as the sole criteria for fire-hazard or fire-risk assessment of an installation system or assembly under actual fire conditions.
 - This certification pertains to the material as a standalone product; it does not extend to the overall system or assembly under actual fire conditions.

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 Nicholas Purcell

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- 5.4. The test (and Certification) do not address the following:
 - 5.4.1. Measurement of heat transmission
 - 5.4.2. Effect of aggravated flame spread behaviour of an assembly resulting from the proximity of combustible walls and ceilings
 - 5.4.3. Classification or definition of material as non-combustible
 - 5.4.4. Any Resistance to Fire rating
 - 5.4.5. The toxicity level of smoke developed during combustion
 - 5.4.6. Fire propagation characteristics when tested as large-scale façade cladding assembly
 - 5.4.7. Fire performance of panels having perforations or discontinuous surface

6. Product configuration and test results

6.1. Product description

- a. Reference: "Alucopanel® A2+" - Aluminium Composite Panel
- b. Description: 4 mm thick Aluminium composite material panel with "Nocobond™ A2 core"
- c. Weight per unit area: $8.1 \pm 0.5 \text{ kg/m}^2$
- d. Panel thickness: $4.0 \pm 0.2 \text{ mm}$

6.2. Product component details



Figure 1: "Alucopanel® A2+" Aluminium Composite Panel - Typical details

- a. Exterior Skin (top skin)
 - Material: Aluminium, Alloy 1100-H16
 - Minimum thickness: 0.5 mm
 - Coating system type: Polyvinylidene Fluoride (PVDF)
 - Maximum coating thickness: 27 microns
- b. Adhesive Film
 - Material: "High molecular content polymer adhesive"
 - Nominal thickness: 70 microns
 - Weight per unit area: $930 \pm 10 \text{ kg/m}^3$
- c. Core
 - Reference: Nocobond™ A2 core
 - Thickness: $3.0 \pm 0.04 \text{ mm}$
 - Density: 1800 – 1850 kg/m^3

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- d. Interior Skin (bottom skin)
 - Material: Aluminium, Alloy 1100-H16
 - Minimum thickness: 0.5 mm
 - Coating system type: Polyester (PE)
 - Maximum coating thickness: 7 microns

7. Approved Manufacturing Location

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

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