UKAS PRODUCT CERTIFICATION
6762

THOMAS BELL-WRIGHT
INTERNATIONAL CONSULTANTS

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

to

Alucpanel Middle East LLC

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

for

"Alucopanel® A1"
4 mm thick Aluminium Composite Material
(BS EN 13501-1:2018 and ASTM D1929-16)

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, Curtain Walls, Building Materials, Products & Assemblies

In witness whereof, this Certificate is issued this 30th day of September 2023

THOMAS BELL-WRIGHT INTERNATIONAL CONSULTANTS
101768
CERTIFIED

Sandy Dweik
Chief Executive Officer

Nicholas Purcell
Director of Certification

Certificate Number: TBW0300647

Initial registration: September 30, 2020 Issued: September 30, 2023 Expiration: September 29, 2026
File Name: XG146_CRT_SD03RX_A1_Issue2_647_(f) Issue 2

"Alucopanel® A1"
4 mm thick Aluminium Composite Material

A. Certification is given for "Alucopanel® A1" 4 mm thick Aluminium Composite Material for 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 tests" and Reaction to Fire performance to test standard ASTM D1929-16 – "Standard Test Method for Determining Ignition Temperature of Plastics" for Spontaneous Ignition Temperature (SIT) & Flash Ignition Temperature (FIT), 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 References
	Result	Standard	
"Alucopanel® A1" 4 mm thick Aluminium Composite Material	A1	BS EN 13501-1:2018	UB032-4 Rev.0
	SIT: 525 °C FIT: 524 °C	ASTM D1929-16	UB031-2 Rev.0
3 mm thick core of "Alucopanel® A1" Aluminium Composite Panel	A1	BS EN 13501-1:2018	UB032-5 Rev.0
	SIT: >750 °C FIT: >750 °C	ASTM D1929-16	UB031-1 Rev.0

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 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 11), 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 product(s) 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 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.

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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:

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

E. Product Details

E.1. Product Description

Reference: "Alucopanel® A1"
Description: Aluminium composite material with an inorganic modified mineral core
Panel Thickness: 4.0 ± 0.2 mm
Weight Per Unit Area: 7.8 ± 0.5 kg/m²

E.2. Product Component Details

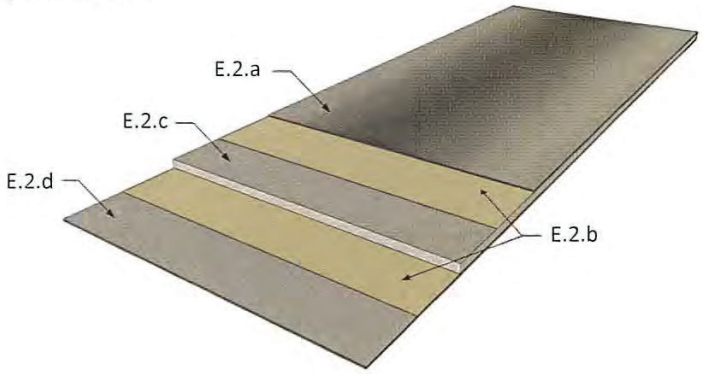

Figure 1. *Aluminium Composite Panel - Typical details*

a. Exterior Facing (Top Skin)
Material: Aluminium, Alloy 3105-H16
Thickness: 0.5 ± 0.02 mm
Coating Type: Polyvinylidene Fluoride (PVDF)
Coating Thickness: 25-27 microns

b. Adhesive
Material: Polyethylene-based film
Thickness: 30 ± 2 microns
Density: 920 ± 10 kg/m³

c. Core
Material: Inorganic modified mineral core
Thickness: 3 ± 0.1 mm
Density: 1600-1900 kg/m³

d. Interior Facing (Bottom Skin)
Material: Aluminium, Alloy 3105-H16
Thickness: 0.5 ± 0.02 mm
Coating type: Polyester (PE)
Coating thickness: 5-7 microns

F. Approved Manufacturing Location

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

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