



**THOMAS BELL-WRIGHT  
INTERNATIONAL CONSULTANTS**

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

to

*International Development Company Metal Industries  
– Sole Proprietorship L.L.C.*

*Plot No. 424, Mafraq Industrial Area, Al Mafraq,  
P.O. Box 2621, Abu Dhabi, United Arab Emirates*

for

**“ALUCLAD 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](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 30<sup>th</sup> day of November 2021



Sandy Dweik  
Chief Executive Officer

Nicholas Purcell  
Director of Certification

**Certificate Number: TBW0300794**

Initial registration: November 30, 2021

Issued: November 30, 2021

Expiration: November 29, 2024

File Name: VI017\_CRT\_SD03RX\_Issue1\_(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 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)

This document must not be reproduced, except in its entirety and with the express permission of Thomas Bell-Wright International Consultants  
F 19 Scheme Certificate Issue 7 Issued Feb 2020

# “ALUCLAD A2”

## 4 mm thick Aluminium Composite Material


- A. Certification is given for “ALUCLAD A2” 4 mm thick aluminium composite panel material for Reaction to Fire performance for Spontaneous ignition temperature (SIT) & Flash ignition temperature(FIT) to test standard ASTM D1929-16 – “Standard Test Method for Determining Ignition Temperature of Plastics”, 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 tests”, subject to the limitations stated herein. 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	
“ALUCLAD A2” 4 mm thick Aluminium Composite Panel Material	A2 - s1, d0	BS EN 13501-1:2018	TF180-5 Rev.0
	SIT: 512 °C FIT: 509 °C	ASTM D1929-16	TF180-7 Rev.0
3 mm thick core of “ALUCLAD A2” – Aluminium Composite Panel	SIT: 524 °C FIT: 523 °C	ASTM D1929-16	TF180-6 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](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 product 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, mix recipe, 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.

Certificate Number: TBW0300794

  
\_\_\_\_\_  
Director of Certification  
Nicholas Purcell

Seal number: 101518

Page 2 of 4  
Issue 1

Issued: 30 Nov. 2021  
Valid to: 29 Nov. 2024

This Certificate is the property of Thomas Bell-Wright International Consultants UAE.  
Registered office: P.O. Box 26385, Dubai, UAE. F 19 Scheme Certificate Issue 7 Issued: Feb 2020

This document must not be reproduced, except in its entirety and with the express permission of Thomas Bell-Wright International Consultants

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

E. Product Configuration

E.1. Product Details

Reference: "ALUCLAD A2"

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

Weight per unit area: 7.5 - 8.5 kg/m<sup>2</sup>

Panel thickness: 4.0 ± 0.2 mm

E.2. Product Component Details

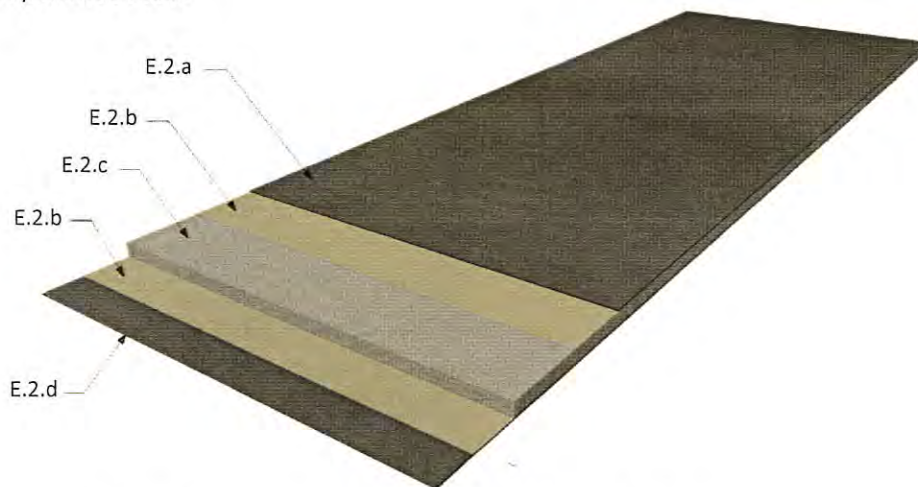



Figure 1. Aluminium Composite Panel - Typical details

- a. Exterior Facing (top skin)  
Material: Aluminium, Alloy 3003-H16  
Minimum Thickness: 0.5 mm  
Coating Type: Polyvinylidene Fluoride (PVDF)  
Maximum Coating Thickness: 26 microns
- b. Adhesive Film  
Material: "Maleic Anhydride Modified Polyethylene"  
Nominal Thickness: 80 microns  
Nominal Density: 932 kg/m<sup>3</sup>
- c. Core  
Material: "Mineral-filled Core"  
Reference: "ALUBOTEC"  
Density: 1.75 - 1.98 g/cm<sup>3</sup>

Certificate Number: TBW0300794

  
Director of Certification  
Nicholas Purcell

Seal number: 101518

Page 3 of 4  
Issue 1

Issued: 30 Nov. 2021  
Valid to: 29 Nov. 2024

This Certificate is the property of Thomas Bell-Wright International Consultants UAE.  
Registered office: P.O. Box 26385, Dubai, UAE. F 19 Scheme Certificate Issue 7 Issued: Feb 2020

This document must not be reproduced, except in its entirety and with the express permission of Thomas Bell-Wright International Consultants

- d. Interior Facing (bottom skin)  
Material: Aluminium, Alloy 3003-H16  
Minimum Thickness: 0.5 mm  
Coating Type: Polyester (PE)  
Maximum Coating Thickness: 6 microns

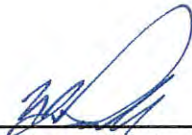
F. Approved Manufacturing Location

Property No. PRP 802817, Plot No. 424,  
Mafraq Industrial Area, Al Mafraq,  
P.O. Box 2621, Abu Dhabi,  
United Arab Emirates

---

Certificate Number: TBW0300794

Page 4 of 4  
Issue 1

  
\_\_\_\_\_  
Director of Certification  
Nicholas Purcell

Seal number: 101518

Issued: 30 Nov. 2021  
Valid to: 29 Nov. 2024

This Certificate is the property of Thomas Bell-Wright International Consultants UAE.  
Registered office: P.O. Box 26385, Dubai, UAE. F 19 Scheme Certificate Issue 7 Issued: Feb 2020

This document must not be reproduced, except in its entirety and with the express permission of Thomas Bell-Wright International Consultants