

ALUCOPANEL®



# Thomas Bell - Wright TBW0300135.3

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

**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*

*P.O. Box 18022, National Industries Park, 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, Cladding, Curtain Walls, Building Materials, Products and Assemblies*

In witness whereof, this Certificate is issued this 25<sup>th</sup> day of November 2019



*Sandy Dweik*

Sandy Dweik  
Chief Executive Officer

*Nicholas Purcell*

Nicholas Purcell  
Director of Certification

**Certificate Number: TBW0300135.3**

Initial registration: September 28, 2019

Issued: November 25, 2019

Expiration: November 24, 2022

File Name: TH077\_CRT\_SD03RX\_A2\_R3\_f(135.3)

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 Fire Compliance 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 4 821 5777, Email: [certification@bell-wright.com](mailto:certification@bell-wright.com). Web: [www.bell-wright.com](http://www.bell-wright.com) F 19 Scheme Certificate Issue 5 Dec 2016

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# “Alucopanel® A2” Aluminium Composite Material

1. Certification is given for “Alucopanel® A2” Aluminium Composite Material for Reaction to Fire performance to test standard ASTM D1929-16 for Spontaneous & Flash ignition temperature performance, ASTM E84-16 for Flame Spread Index (FSI) and Smoke Developed Index (SDI) and Reaction to Fire classification to BS EN 13501-1:2007+A1:2009/UNE EN 13501-1:2007+A1:2010/BS EN 13501:2018 – “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*

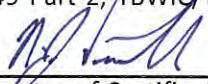
| Description   | Reaction to Fire performance                    |                             |
|---|---|-----------------------------|
|   | Result  | Standard                    |
| “Alucopanel® A2” 4 mm thick Aluminium Composite Panel         | Class A2 – s1, d0                               | BS EN 13501-1:2018          |
|   | SIT: 450 °C,<br>FIT: 450 °C                     | ASTM D1929-16               |
| “Alucopanel® A2” 3 mm thick core of Aluminium Composite Panel | Class A2 – s1, d0                               | BS EN 13501-1:2007+A1:2009  |
|   | SIT: 510 °C,<br>FIT: 510 °C                     | ASTM D1929-16               |
|   | FSI: 15, SDI: 15<br>(Class A <sup>Note1</sup> ) | ASTM E84-16                 |
| “Alucopanel® A2” 6 mm thick Aluminium Composite Panel         | Class A2 – s1, d0                               | UNE EN 13501-1:2007+A1:2010 |
|   | SIT: 450 °C,<br>FIT: 450 °C                     | ASTM D1929-16               |
| “Alucopanel® A2” 5 mm thick core of Aluminium Composite Panel | Class A2 – s1, d0                               | BS EN 13501-1:2007+A1:2009  |
|   | SIT: 510 °C,<br>FIT: 510 °C                     | ASTM D1929-16               |
|   | FSI: 15, SDI: 30<br>(Class A <sup>Note1</sup> ) | ASTM E84-16                 |

*SIT – “Spontaneous Ignition Temperature”, FIT – “Flash Ignition Temperature”*

*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) values*

2. 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.
3. 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.: TBWIC/QG048-1 Rev.0, TBWIC/QG048-2 Rev.0, Intertek/H7447.01-106-31 R0, Intertek/H7447.02-106-31 R0, and Intertek/G1024.01-106-31, and Classification report nos.: Applus/16/12569-1549 Part 2, TBWIC/TH083-9 Rev.0, TBWIC/SJ167-2 Rev.0 and

Certificate number: TBW0300135.3

  
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Director of Certification  
Nicholas Purcell

Seal number: 100984

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Issued: 25 Nov. 2019  
Valid to: 24 Nov. 2022

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TBWIC/SJ167-4 Rev.0), Technical Verification and Proof of Performance, compliance to Factory Production Control requirements and surveillance & Re-certification Inspection/ Audits.

4. This certification pertains to "Alucopanel® A2" Aluminium Composite Material panel composed of 0.5 mm thick coated aluminium facings adhered to the mineral-filled core. Refer to Section 6 for further details.

5. Limitations:

5.1. This Certification covers the specifications of the material as tested and described in the reference report(s).

5.2. The test standards covered under this certification were used to measure the response of materials, products, or assemblies to heat and flame under controlled conditions. The result of this test shall not be used as the sole criteria for fire-hazard or fire-risk assessment of product, system or assembly under actual fire conditions.

5.3. This certification pertains to the material as a standalone product; it does not extend to the overall system, construction build-up or assembly in which the product is installed.

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 a large-scale façade cladding assembly

5.4.7. Fire performance of panels having perforations or discontinuous surface

6. Product details and test results

6.1. Product description

a. Trade Name: "Alucopanel® A2"

b. Description: Aluminium Composite Material with mineral-filled core

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

d. Minimum weight per square metre:  $7.8 \pm 0.5$  kg/m<sup>2</sup> (4mm thick ACP Panel) /  $11.4 \pm 0.5$  kg/m<sup>2</sup> (6mm thick ACP Panel)

6.2. Product component details

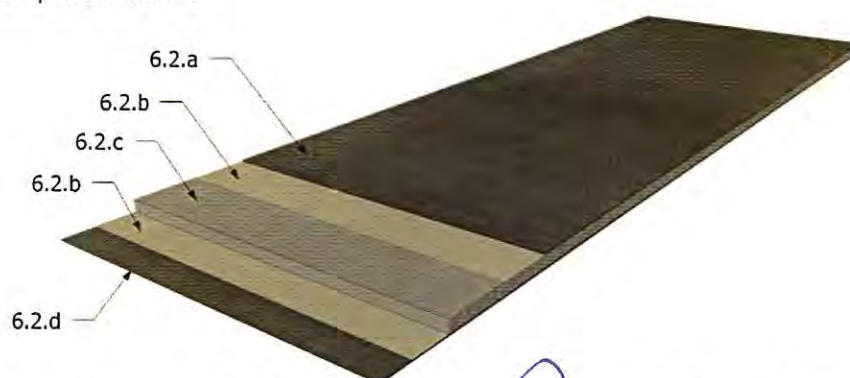



Figure 1: "Alucopanel® A2" Aluminium Composite Panel material - Typical details

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- a. Exterior Skin (top skin)  
Material: Aluminium, Alloy 3105-H16  
Minimum thickness: 0.5 mm  
Coating type: Polyvinylidene Fluoride (PVDF)  
Maximum Coating thickness: 0.027 mm
- b. Adhesive Film  
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  
Nominal Thickness:  $3 \pm 0.1$  mm /  $5 \pm 0.1$  mm  
Density:  $1800 \pm 10$  kg/m<sup>3</sup>
- d. Interior Skin (bottom skin)  
Material: Aluminium, Alloy 3105-H16  
Minimum thickness: 0.5 mm  
Coating type: Polyester (PE) Service Coat  
Maximum Coating thickness: 7 microns

7. Approved Manufacturing Location

Sublease Plot # TP010105B,  
National Industries Park,  
PO Box 18022,  
Dubai, United Arab Emirates

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