

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

to

Alucopanel Middle East LLC

National Industries Park, P.O. Box 416557,
Dubai, United Arab Emirates

for

“Alucopanel® A2”

**4 mm thick Aluminium Composite Material “Close-Joint”
Non-Loadbearing Exterior Wall Cladding System**

Test Method: NFPA 285-2012 Edition

(System Designation: A111H81-4)

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 17th day of June 2026



Sandy Dweik
Chief Executive Officer

Luma Qabalan
Director of Certification

Certificate Number: TBW0300148

Initial registration: February 16, 2017

Issued: June 17, 2026

Expiration: April 6, 2029

*This certificate is issued with a three-year validity period. The current certification status, including
any suspension or interruption, should be verified at www.tbwcert.com*

File Name: AN137_CRT_SD03FP_4mm_A2_Issue7_148_(f)

Issue 7

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 the Certification.
This certificate remains a property of Thomas Bell-Wright International Consultants.

P.O. Box 26385, Dubai, UAE. | Tel: +971 4 8215777 | Email: certification@bell-wright.com | Web: 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 9 Issued Mar 2026

“Alucopanel® A2”
4 mm thick Aluminium Composite Material “Close-Joint”
Non-Loadbearing Exterior Wall Cladding System
(System Designation: A111H81-4)

- A. Certification is given for “Alucopanel® A2” 4 mm thick Aluminium Composite Material “Close-Joint” Non-Loadbearing Exterior Wall Cladding System, which has successfully met the requirements for fire propagation characteristics when evaluated against NFPA 285-2012 Edition - “Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components”, subject to the limitations stated herein.
- B. Readers of this document should be familiar with the fire test standard 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 12), which includes pre-test sampling, evidence of performance (under report reference no. QJ118 Rev.01), 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 fire propagation characteristics of exterior wall assembly when evaluated against the NFPA 285 fire test method. The exterior wall assembly has been evaluated for fire propagation characteristics as specified in the following*:
- a. The ability of the wall assembly to resist flame propagation over the exterior face of the wall assembly*;
 - b. The ability of the wall assembly to resist vertical flame propagation within the combustible components from one story to the next*;
 - c. The ability of the wall assembly to resist vertical flame propagation over the interior surface of the wall assembly from one story to the next*; and,
 - d. The ability of the wall assembly to resist lateral flame propagation from the compartment of fire origin to adjacent compartments or spaces*
- D.2. This Certification covers the performance of the exterior wall assembly when exposed to fire from an interior room that reaches flashover, breaks exterior windows, and exposes the building façade. It is not intended to address the effect of exterior radiation from nearby fires but is relevant to fires that start at the exterior wall assembly*.
- D.3. This Certification covers the exterior wall assembly in its entirety. It does not extend to the individual components of the assembly.
- D.4. The actual field installations of the non-loadbearing exterior wall system covered under this certification shall not limit the use of the methods and materials employed to seal the gap between the edge of the floor slab and the interior surface of the test specimen during the test, provided that approved sealing methods and materials are used in the field*.

* NFPA 285:2012

Certificate No.: TBW0300148

Seal No.: 103417

Page 2 of 8
Issue 7


Director of Certification
Luma Qabalan

Issued: 17 Jun 2026
Valid to: 06 Apr 2029

- D.5. The design of the exterior wall assembly covered under this certification, including the exact specification of the components, method of fixing, and condition of such components which were subjected to the fire test, shall be duplicated when installed on the site. The design and components of the non-loadbearing exterior wall cladding assembly are not permitted to be substituted, eliminated or interchanged unless recognized and approved by this certification.
- D.6. The method, technique and sealing materials at the panel joint gaps was evaluated and certified as part of the exterior wall cladding for fire propagation characteristics only. Physical performance, such as (but not limited to), resistance to weathering, resistance to impact/movement, adhesion, mechanical resistance and stability, or thermal properties, are not considered.
- D.7. This Certification does not address the following:
- Air and Water Permeability
 - Measurement of heat transmission
 - Classification or definition of material as non-combustible
 - Any Resistance to Fire rating
 - The toxicity level of smoke developed during combustion
 - Effect of aggravated flame spread behaviour of an assembly resulting from the proximity of combustible materials
 - Effects of combustible accessories installed or fixed on the surface of exterior cladding material such as laminates, banners, signage, and alike
 - Effects of radiation from nearby fires

E. System Configuration

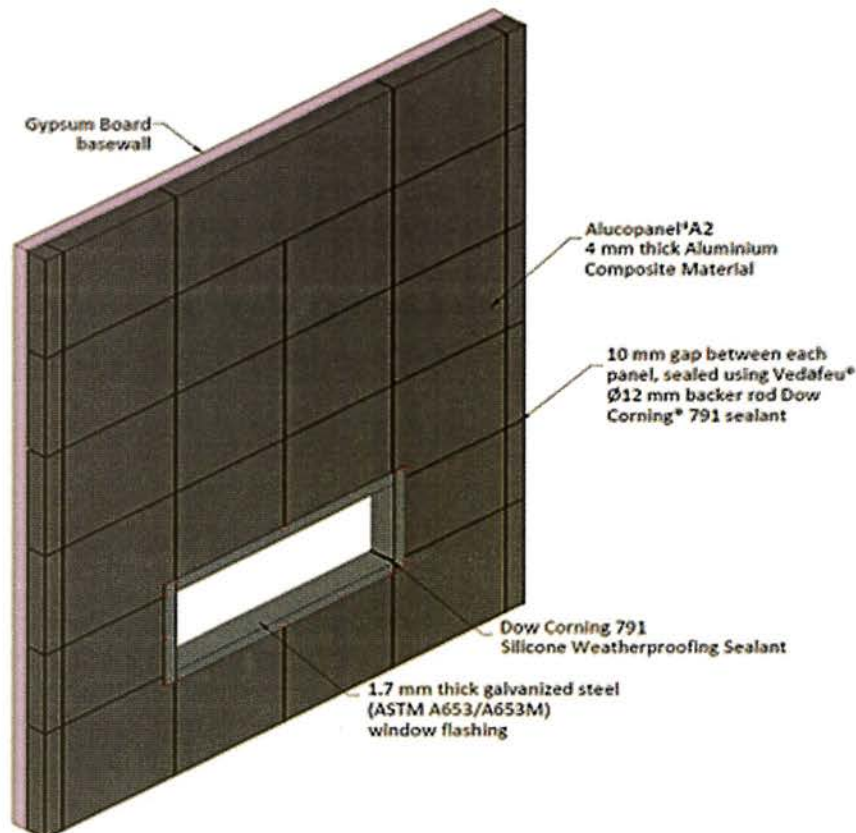
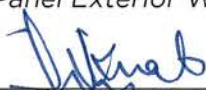


Figure 1. Aluminium Composite Panel Exterior Wall Cladding System - Typical Details

Certificate No.: TBW0300148

Page 3 of 8
Issue 7


Director of Certification
Luma Qabalan

Seal No.: 103417

Issued: 17 Jun 2026
Valid to: 06 Apr 2029

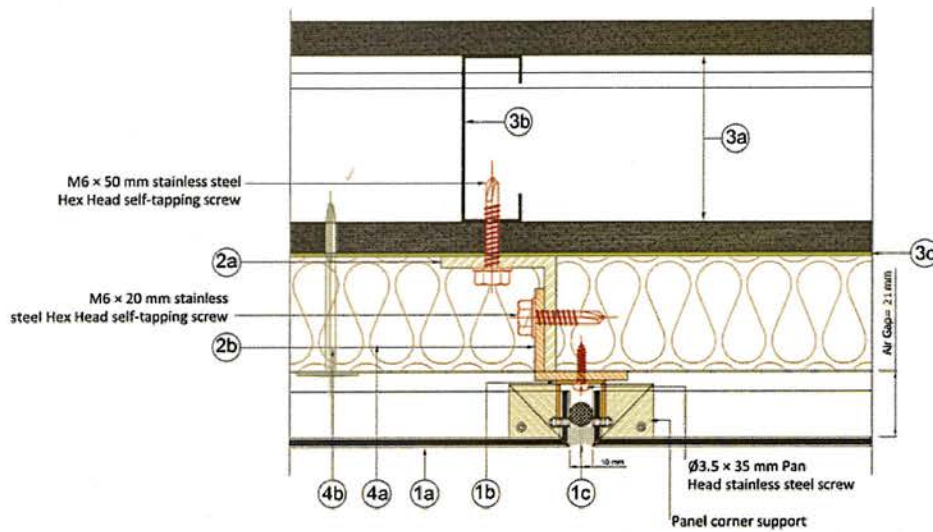


Figure 2. Horizontal section - joint detail

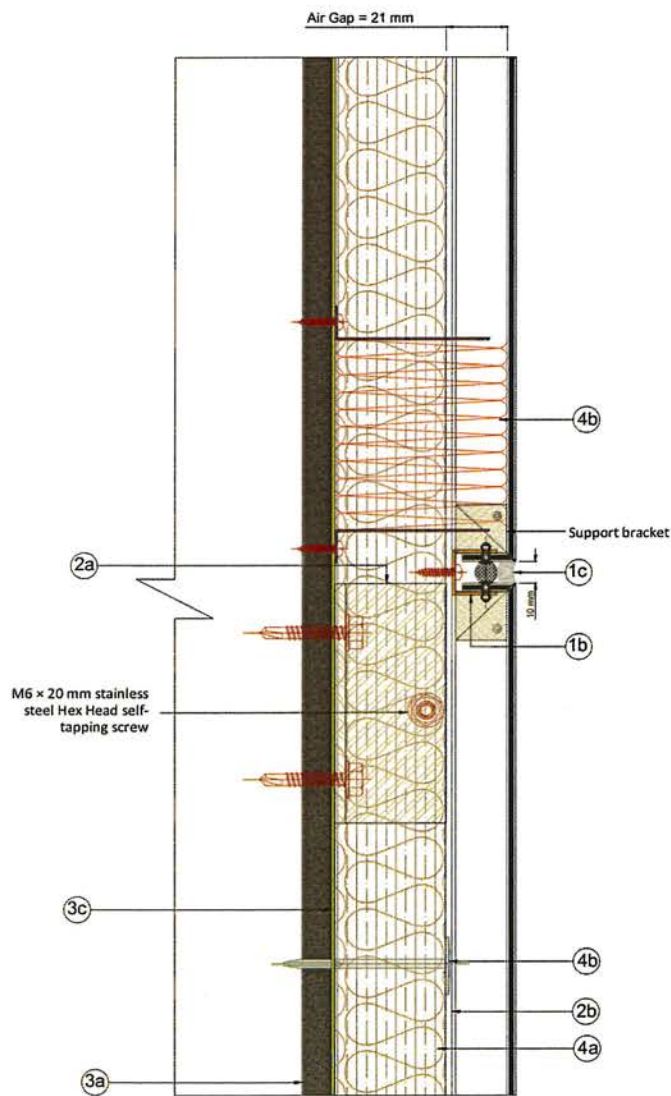
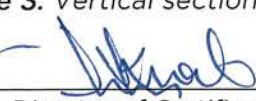


Figure 3. Vertical section - joint detail

Certificate No.: TBW0300148

Seal No.: 103417

Page 4 of 8
Issue 7


Director of Certification
Luma Qabalan

Issued: 17 Jun 2026
Valid to: 06 Apr 2029

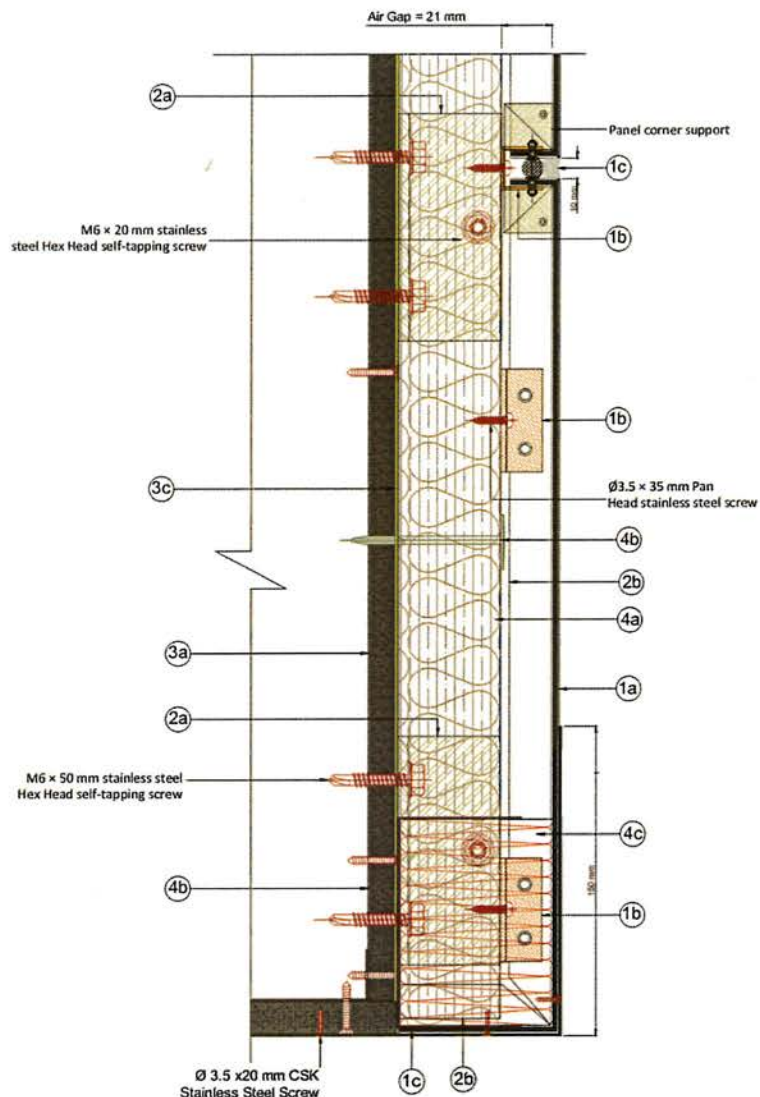


Figure 4. Vertical section - window detail

Table 1. System Details

1. Cladding Element		
1a. Aluminium Composite Panel	Reference:	"Alucopanel® A2"
	Fixing:	"Tray profile" Aluminium Composite Panel (ACP) with nominal 20 mm deep flanges. The corner flanges of the panel "tray" shall be reinforced with aluminium "L" angles (20 x 20 x 20 x 1.8 mm, leg x leg x depth x thickness) using 2 nos. of aluminium blind rivet per leg.
	ACP Details:	
	Panel Weight:	8 ± 0.5 kg/m²

Certificate No.: TBW0300148

Director of Certification
Luma Qabalan

Seal No.: 103417

Page 5 of 8
Issue 7

Issued: 17 Jun 2026
Valid to: 06 Apr 2029

	Panel Thickness:	4 ± 0.2 mm	
	Exterior Facing (Top Skin):	0.5 ± 0.02 mm thick, Aluminium Alloy 3105-H16, Polyvinylidene Fluoride (PVDF) finish, 27 microns max. coating thickness	
	Interior Facing (Bottom Skin):	0.5 ± 0.02 mm thick, Aluminium Alloy 3105-H16, Polyester (PE) coating, 7 microns max. coating thickness	
	Adhesive:	“High molecular content polymer adhesive”, Nominal Thickness: 70 microns, Nominal Density: 920 kg/m ³	
	Core:	“Mineral-filled inorganic core”, Nominal Thickness: 3 mm, Minimum density: 1800 kg/m ³	
	Maximum Panel Width:	2076 mm	
	Minimum Panel Width:	1033 mm	
	Maximum Panel Height:	1200 mm	
	Minimum Panel Height:	850 mm	
1b. Cladding Fixing	Material:	Aluminium Alloy 6063-T6	
	Dimension:	20 x 20 x 60 x 1 mm (leg x leg x width x thickness)	
	Details:	One leg shall be fixed to the flanges of the cladding panels within 150 mm to 200 mm from the corners and 500 mm centres using 2 numbers of aluminium blind rivets and the other leg fastened to the vertical subframe runner using Ø3.5 x 35 mm pan head stainless steel self-tapping screws.	
1c. Panel Joint Sealing	Reference:	Backer rod:	Ø12 mm “Vedafeu” fibreglass-braided mineral fibre rope
		Sealant:	“Dow Corning® 791”
	Joint Gap:	10 mm (max.)	
	Sealant Depth:	5 mm (min.)	
2. Sub-Frame			
2a. Wall Brackets	Description:	Aluminium “L angle” fixing brackets	
	Material:	Alloy 6063-T5	
	Dimension:	50 × 50 x 90 × 4 mm (leg × leg × length × thickness)	
	Application:	Shall be fixed to the substrate using two nos. of M6 × 50mm hexagonal head stainless steel self-drilling screws per bracket. The brackets shall be fixed at a	

Certificate No.: TBW0300148

Seal No.: 103417

Page 6 of 8
Issue 7

 Director of Certification
 Luma Qabalan
Issued: 17 Jun 2026
Valid to: 06 Apr 2029
 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 9 Issued Mar 2026

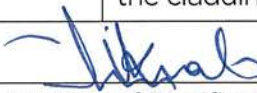
This document must not be reproduced, except in its entirety and with the express permission of Thomas Bell-Wright International Consultants.

		nominal spacing of 877 mm to 1146 mm vertically and 1033 mm horizontally
2b. Vertical Runners	Description:	Aluminium "L section" profiles
	Material:	Alloy 6063-T5
	Dimension:	40 x 40 x 3 mm (leg x leg x thickness)
	Application:	Shall be fixed to the wall brackets using M6 x 20 mm hexagonal head stainless steel self-drilling screw.
3. Base Wall		
3a. Interior and Exterior Gypsum Board	1200 x 2400 x 15.9 mm (width x length x thickness) Type X gypsum boards fixed onto 1.2 mm thick galvanised steel studs and tracks using Ø3.5 mm x 35 mm self-tapping screws spaced 300 mm centres. The board joints and screw heads were covered with glass fibre multi-purpose self-adhesive plasterboard jointing tape and jointing compound composed of calcium sulphate-based mineral fillers.	
3b. Steel Studs and Tracks	1.2 mm thick galvanised steel (ASTM A653, CS Type B) studs 93 x 32 x 34 x 9 mm (web x flange 1 x flange 2 x lip), and tracks 95 x 32 x 32 x 9 mm (web x flange 1 x flange 2 x lip) welded directly to test frame	
3c. Moisture Barrier	Reference:	"Nitoproof 110" as primer, "Nitoproof 120" as top-coat
	Manufacturer:	Fosroc
	Application:	A single coat of the primer followed by the topcoat shall be applied on the exterior gypsum board surface, each at a nominal application rate of 3 m ² /liter using a roller.
4. Exterior Insulation		
4a. Mineral Wool	Reference:	"S2XX"
	Nominal Thickness:	50 mm
	Nominal Density:	50 kg/m ³
	Dimension:	600 x 1200 mm (width x length)
	Manufacturer:	Fujairah Rockwool Factory
	Application:	A single layer of mineral wool, with FSK facing on one side, shall be fixed onto the base wall using metal insulation pins. The joints between the insulation slabs shall be covered with 45 mm wide aluminium foil tape ("HZZ Tapes Aluminium Tape"). A maximum air gap of 21 mm shall be maintained between the exterior insulation and the rear face of the cladding panels.

Certificate No.: TBW0300148

Seal No.: 103417

Page 7 of 8
Issue 7

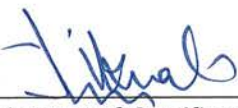

Director of Certification
Luma Qabalan

Issued: 17 Jun 2026
Valid to: 06 Apr 2029

4b. Insulation Fixing	Material:	Galvanised Steel
	Reference:	"MBA-08110"
	Dimension:	Ø8 mm x 110 mm
	Manufacturer:	Rawlplug UK
	Application:	Minimum 5 nos. fixed per slab
4c. Cavity Fire Barrier	Material:	Mineral wool with FSK facing on one side
	Reference:	"S2XX"
	Dimension:	100 x 100 mm (width x thickness)
	Manufacturer:	Fujairah Rockwool Factory
	Nominal Density:	100 kg/m ³
	Application:	At following locations: 1. Directly above the window headers, 2. Within the cavity void at locations coinciding with every floor slab termination. Fixing method is described below:
	Fixing Details:	
	Material:	Galvanised steel "L" angle sections
	Dimension:	60 x 60 x 0.9 mm (Leg x Leg x thickness)
	Application:	Two nos. of angles, fixed with overlapping legs to form a "C" channel to create the housing for mineral wool. The angles shall be fixed to the base wall, using Ø3.5 x 35 mm self-tapping screws located at 300 mm centres.
5. Window Flashing		
Material:	Galvanized steel (ASTM A653, CS Type B) flashings	
Application:	Shall be bent into "U" shape - 150 x 232 x 150 x 1.7 mm (web x flange x web x thickness - and fitted around the window perimeter by continuous welding (at corners) and mechanically fastened via Ø3.5 x 20 mm stainless steel self-tapping screws. The flashing shall wrap over the substrate wall as well as the cladding panel by at least 150 mm.	

P. Approved Manufacturing Location
Sub lease Plot # TP010105B,
National Industries Park,
P.O. Box 416557, Dubai,
United Arab Emirates

Certificate No.: TBW0300148


Director of Certification
Luma Qabalan

Seal No.: 103417

Page 8 of 8
Issue 7

Issued: 17 Jun 2026
Valid to: 06 Apr 2029