



**THOMAS BELL-WRIGHT
INTERNATIONAL CONSULTANTS**

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

to

Alstrong Enterprises India Pvt. Ltd.

*25, DSIIIDC Shed Scheme 2nd, Okhla Industrial Area,
Phase-II, 110020 – New Delhi, India*

for

**“Alstrong FR B1 - ACP”
4 mm thick Aluminium Composite Material
(Classified according to 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, Curtain Walls, Building Materials,
Products & Assemblies*

In witness whereof, this Certificate is issued this 4th day of January 2023



Sandy Dweik

Sandy Dweik
Chief Executive Officer

Nicholas Purcell

Nicholas Purcell
Director of Certification

Certificate Number: TBW0300899

Initial registration: January 4, 2023

Issued: January 4, 2023

Expiration: January 3, 2026

File Name: WG019_CRT_SD03RX_Issue1_(f)

Issue1

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

“Alstrong FR B1 - ACP”

4 mm thick Aluminium Composite Material

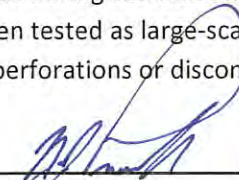
- A. Certification is given for “Alstrong FR B1 - ACP” 4 mm thick Aluminium Composite Material for Reaction to Fire classification according to BS EN 13501-1:2018 – “Fire Classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests”, subject 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 Reference
	Result	Standard	
“Alstrong FR B1 - ACP” 4 mm thick Aluminium Composite Material	B - s1, d0	BS EN 13501-1:2018	WG020-4 Rev.01

- 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 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 products 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 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.
- 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 combustibles 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

Certificate Number: TBW0300899



Director of Certification
Nicholas Purcell

Seal number: 101813

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Issue1

Issued: 04 Jan 2023
Valid to: 03 Jan 2026

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E. Product Details

E.1. Product Description

Reference: "Alstrong FR B1 - ACP"

Panel thickness: 4.0 ± 0.2 mm

Weight Per Unit Area: $7.70 \text{ kg/m}^2 \pm 5\%$

E.2. Product component details

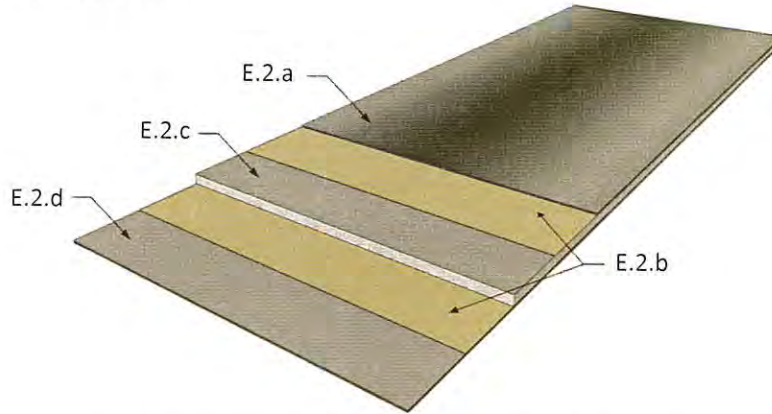


Figure 1. Aluminium Composite Panel - Typical details

- a. Exterior Facing (Top Skin)
Material: Aluminium, Alloy 3003 / 3105 / 5005
Minimum Thickness: 0.5 mm
Coating Type: Polyvinylidene Fluoride (PVDF)
Maximum Coating Thickness: 27 microns
- b. Adhesive
Reference: "FR-PolyGlue"
Thickness: 80 ± 5 microns
Nominal Density: $934 \text{ kg/m}^3 \pm 5\%$
- c. Core
Description: Mineral-filled inorganic core
Thickness: 3 ± 0.1 mm
Density: $1630 \text{ kg/m}^3 \pm 5\%$
- d. Interior Facing (Bottom Skin)
Material: Aluminium, Alloy 3003 / 3105 / 5005
Minimum Thickness: 0.5 mm
Coating Type: Polyester (PE)
Maximum Coating Thickness: 10 microns

F. Approved Manufacturing Location

Alstrong Enterprises India Pvt. Ltd.
Unit no. 2, SIDCO, Industrial Growth Centre,
Phase 2, Samba, Jammu,
Jammu & Kashmir - 184121, India

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