

ALUCOSUN TECHNICAL DATA SHEET

ACP FR Core B1

Flame-Retardant Aluminium Composite Panel

B1 · GB 8624



A flame-retardant aluminium composite panel built around a mineral-filled FR core compound. B1 fire classification to GB 8624 and Class A to ASTM E84. Delivers the design flexibility and surface quality of composite construction within a B1 fire-performance envelope. Available with PVDF or polyester coating systems.

Document Reference / ALCS-ACP-B1-TDS-001 Product Code / ALCS-ACP-B1 Version / v1.0 · 2026

B1 per GB 8624

FIRE CLASSIFICATION

Class A per ASTM

ASTM RATING

Mineral-filled f

CORE TYPE

Approx. 5.5 kg/m

PANEL WEIGHT

Technical Specifications

Fire Classification	B1 per GB 8624
ASTM Rating	Class A per ASTM E84
Core Type	Mineral-filled flame-retardant (FR) compound
Total Thickness	3mm / 4mm (standard) · custom available
Skin Thickness	0.3mm / 0.4mm / 0.5mm
Aluminium Alloy	AA3003 / AA1100
Panel Weight	Approx. 5.5 kg/m ² (4mm standard)
Max Width	1,575 mm
Max Length	7,200 mm

SECTION 02

Performance, Coating & Applications

Specifications Continued

Coating System (Ext.)	PVDF / FEVE liquid coating: certified to AAMA 2605
Coating System (Int.)	Polyester · AAMA 2603
Coating Warranty	Up to 30 years based on AAMA 2605-certified PVDF fluorocarbon coating systems. Warranty period subject to coating specification, project location, maintenance programme, and warranty registration. Contact ALUCOSUN for project-specific warranty terms.
Width Tolerance	-0 / +1.5 mm
Length Tolerance	-0 / +3.0 mm
Thickness Tolerance	+/- 0.2 mm
Diagonal Tolerance	≤ 3.0 mm
Surface Finish	Solid Colour · Metallic · Woodgrain · Stone · Brushed
Fabrication	CNC routing · V-groove folding · Punching

Standards & Certifications

B1 GB 8624 · FIRE RATING	Class A ASTM E84 · SURFACE BURNING
PVDF AAMA 2605 · COATING CERT	Warranty PROJECT-SPECIFIC TERMS

Coating Systems

Coating System	Standard	Warranty	Notes
PVDF Fluorocarbon	AAMA 2605	Up to 25 years, subject to project warranty terms	Exterior — high-durability, fade/chalk resistant
Polyester	AAMA 2603	10 years	Interior or sheltered external — cost-optimised
Powder coating, where applicable	QUALICOAT Class 2	Project-specific	Do not list as PVDF certification

Typical Applications

- Commercial building exterior cladding (low to mid-rise)
- Retail and mixed-use development facades
- Interior architectural cladding: lobbies, atriums, reception areas
- Signage backer panels and architectural feature elements
- Renovation and refurbishment projects requiring FR-compliant cladding
- Educational and healthcare facilities under B1 code requirements

TECHNICAL CONTACT

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