

ALUCOSUN TECHNICAL DATA SHEET

ACP A2 Core

Non-Combustible Core Aluminium Composite Panel — A2-s1,d0 Classification



A non-combustible core aluminium composite panel achieving A2-s1,d0 classification to EN 13501-1. The non-combustible inorganic mineral core enables A2 fire performance within the slim composite panel format — retaining the 4mm profile, wide format availability, full PVDF coating depth, and standard ACP fabrication methods. The specification solution that resolves the conflict between A2 fire compliance and composite panel design intent.

Document Reference / ALCS-ACP-A2-TDS-001 Product Code / ALCS-ACP-A2 Version / v1.0 · 2026

<p style="font-size: 24px; font-weight: bold; margin: 0;">A2-s1,d0</p> <p style="font-size: 10px; margin: 5px 0 0 0;">FIRE CLASSIFICATION</p>	<p style="font-size: 24px; font-weight: bold; margin: 0;">s1 (limited smok</p> <p style="font-size: 10px; margin: 5px 0 0 0;">SMOKE CLASSIFICATION</p>	<p style="font-size: 24px; font-weight: bold; margin: 0;">Non-combustible</p> <p style="font-size: 10px; margin: 5px 0 0 0;">CORE TYPE</p>	<p style="font-size: 24px; font-weight: bold; margin: 0;">7.0 – 8.0 kg/m²</p> <p style="font-size: 10px; margin: 5px 0 0 0;">PANEL WEIGHT</p>
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Technical Specifications

Fire Classification	A2-s1,d0 · EN 13501-1
Smoke Classification	s1 (limited smoke production)
Droplet Classification	d0 (no flaming droplets)
Core Type	Non-combustible inorganic mineral compound
Total Thickness	4mm (standard) · custom available
Skin Thickness	0.3mm / 0.4mm / 0.5mm
Aluminium Alloy	AA3003 / AA1100
Panel Weight	7.0 – 8.0 kg/m ² (varies by core density)
Max Width	1,575 mm

SECTION 02

Performance, Coating & Applications

Specifications Continued

Max Length	6,000 mm
Coating System	PVDF / FEVE liquid coating: certified to AAMA 2605
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 · Anodised-look · Woodgrain
Fabrication	CNC V-groove routing + hand folding · CNC cutting

Standards & Certifications

A2 EN 13501-1 · FIRE CLASS	s1 SMOKE · LIMITED PRODUCTION
d0 DROPLETS · ZERO FLAMING	PVDF AAMA 2605 · COATING CERT

Coating Systems

Coating System	Standard	Warranty	Notes
PVDF Fluorocarbon	AAMA 2605	Project-specific warranty	Standard — full architectural palette
FEVE Fluorocarbon	AAMA 2605	Project-specific warranty	Available for special colour requirements
Powder coating, where applicable	QUALICOAT Class 2	Project-specific	Do not list as PVDF certification

Typical Applications

- High-rise commercial towers in markets applying EN 13501-1 A2 code requirements
- Hospitality and mixed-use facades on buildings above regulatory height thresholds
- Public buildings and civic architecture requiring A2-classified cladding
- Specification upgrades from B1 ACP where code change requires A2
- Markets with tightening fire regulations where future-proof specification is required
- Premium facade applications where composite panel format is architecturally preferred over solid panel

TECHNICAL CONTACT

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