

ALUCOSUN TECHNICAL DATA SHEET

ACP A2 CORE

Non-Combustible Core Aluminium Composite Panel – A2-s1,d0 · EN 13501-1

An aluminium composite panel achieving A2-s1,d0 classification to EN 13501-1, constructed from two aluminium skins laminated to a non-combustible inorganic mineral core. This construction makes the A2-s1,d0 fire classification an inherent material property. The ACP A2 Core retains the slim composite profile, routing and folding precision, and broad colour range of conventional composite panels, while delivering A2 fire compliance without treatment or additive.

Ref / ALCS-ACP-A2-TDS-001 Code / ALCS-ACP-A2 Version / v2.0 · 2026

A2-s1,d0 <small>EN 13501-1 · FIRE</small>	8.2 kg/m² <small>WEIGHT (4MM STD)</small>
ETA <small>ETA-23/0929</small>	Up to 30yr <small>COATING WARRANTY*</small>

TECHNICAL SPECIFICATIONS

EN 13501-1 Classification	A2-s1,d0
ETA Certification	ETA-23/0929
Core Type	Non-combustible inorganic mineral
Total Thickness	4mm standard · 3 / 6mm available
Front Skin Thickness	0.5mm standard · 0.4 / 0.3mm available
Rear Panel Thickness	0.5mm standard · 0.4 / 0.3mm available
Aluminium Alloy	AA3003 / AA5005 · H14 / H24
Panel Weight	8.2 kg/m ² (4mm standard)
Max Width	2,000mm
Max Length	6,000mm
Width Tolerance	±2mm
Length Tolerance	±4mm
Thickness Tolerance	±0.2mm
Diagonal Tolerance	≤5.0mm

WHY ACP A2 CORE

A2-s1,d0 as an inherent material property – not a treatment or additive.

Composite Format

Slim profile, full routing & folding precision retained

600+ Colours

Full PVDF palette – solid, metallic, wood, stone



SECTION 02

PERFORMANCE, COATING & APPLICATIONS

Specifications Continued

Surface Finish	Solid Colour · Metallic · Anodised · Woodgrain · Stone · Corten
Colour Range	600+ standard colours · Custom RAL / NCS on request
Fabrication	CNC V-groove routing + hand folding · CNC cutting · Punching
Fixing System	Concealed clip / bracket system
Smoke Production	s1 (minimal smoke)
Flaming Droplets	d0 (no flaming droplets)
Coating Thickness	≥30 µm (PVDF three-coat, AAMA 2605)
Coating Warranty	Up to 30 years (PVDF three-coat, qualifying projects)*

Standards & Certifications

A2-s1,d0
EN 13501-1
FIRE CLASS

ETA
ETA-23/0929
TECHNICAL ASSESSMENT

AAMA
AAMA 2605
PVDF COATING

30yr
COATING
WARRANTY*

Coating Systems

Coating System	Standard	Min. DFT	Warranty	Notes
PVDF Fluorocarbon – Three-coat	AAMA 2605	≥30 µm	Up to 30yr*	Standard exterior · full architectural palette
PVDF Fluorocarbon – Two-coat	AAMA 2604	≥25 µm	Project-specific	Available on request
FEVE Fluorocarbon	–	≥25 µm	Project-specific	Cold-cure option; metallic and special finishes

Typical Applications

- High-rise and supertall building facades requiring A2 fire classification within the composite panel format
- Complex folded, faceted, and project-specific façade geometries
- Landmark cultural, civic and governmental buildings
- Projects where the slim composite profile and routing precision of ACP are required alongside A2 fire compliance
- Retrofit recladding requiring A2-rated composite panels

TECHNICAL CONTACT

Technical Enquiries: spec@alucosun.com · Commercial: sales@alucosun.com · www.alucosun.com

* 30-year coating warranty applies to PVDF three-coat (AAMA 2605) on qualifying projects. Warranty registration required.