

ALUCOSUN TECHNICAL DATA SHEET

Solid Panel A1

Non-Combustible Solid Aluminium Panel
A1 · EN 13501-1 (Non-Combustible)



A single-skin solid aluminium panel carrying full A1 non-combustible classification to EN 13501-1. Precision-fabricated from AA3003 or AA5052 aluminium alloy with no organic components in the panel body. A1 classification is achieved through material composition and is a permanent property of the panel.

A1

EN 13501-1 NON-COMBUSTIBLE

185 MPa

ULTIMATE STRENGTH AA3003

15-20 yr

PVDF COATING WARRANTY

25 yr

PANEL STRUCTURE

Technical Specifications

Fire Classification	A1 · EN 13501-1 (Non-Combustible)
Aluminium Alloy	AA3003 (standard) / AA5052 (high-strength)
Standard Thickness	1.5 mm / 2.0 mm / 2.5 mm / 3.0 mm
Application Note	1.5 mm: interior, soffit, decorative only. 2.0-3.0 mm: exterior facade and curtain wall. Thickness subject to structural review.
Custom Thickness	Available on request
Tensile Ultimate Strength	185 MPa (AA3003)
Tensile Yield Strength	165 MPa (AA3003)
Elastic Modulus	68.9 GPa
Density	2.73 g/cm ³

TECHNICAL SPECIFICATIONS

Additional Specification Data

Width Tolerance	+/- 2.0 mm
Length Tolerance	+/- 3.0 mm
Thickness Tolerance	+/- 0.2 mm
Flatness	≤ 0.5% of panel width
Coating System	PVDF / FEVE liquid coating: certified to AAMA 2605
Coating Warranty	15 years (PVDF) · 20 years (PVDF premium grade)
Surface Finish	Solid Colour · Metallic · Anodised-look · Woodgrain · Brushed
Fabrication	Press brake bending · CNC routing · Punching · Drilling

Standards & Certifications

A1 <small>EN 13501-1 NON-COMBUSTIBLE</small>	PVDF <small>AAMA 2605 COATING CERT</small>	185 MPa <small>ULTIMATE STRENGTH AA3003</small>	15-20 yr <small>PVDF QUALIFIED WARRANTY</small>
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Available Coating Systems

Coating	Standard	Warranty	Notes
PVDF Fluorocarbon	AAMA 2605	Up to 30 years subject to project terms	Exterior — full architectural palette
FEVE Fluorocarbon	AAMA 2605	Project-specific	Special colour requirements
Powder coating	AAMA 2604	Project-specific	Where applicable; separate from liquid PVDF certification
Mill Finish / Anodised	—	—	Available — contact technical team

Typical Applications

- Buildings above statutory height thresholds requiring non-combustible cladding.
- Fire escape routes, refuge floors, and fire-critical architectural zones.
- Hospitals, schools, and public buildings under enhanced fire code requirements.
- Internal architectural cladding where A1 materials are specified.
- Premium facade applications where coating depth and surface consistency are paramount.
- Renovation and retrofit projects requiring full fire compliance upgrade.

TECHNICAL CONTACT

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