

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

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

## TECHNICAL SPECIFICATIONS

# Additional Specification Data

Width Tolerance	0 to -0.4 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

<b>A1</b> <small>EN 13501-1 NON-COMBUSTIBLE</small>	<b>PVDF</b> <small>AAMA 2605 COATING CERT</small>	<b>185 MPa</b> <small>ULTIMATE STRENGTH AA3003</small>	<b>15-20 yr</b> <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	QUALICOAT Class 2	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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