ALUCOSUN

Solid Panel
A1

Precision Facades. Global Standards.

A1
EN 13501-1

AAMA 2605
PVDF Coating Standard

Non-combustible Solid Aluminium Facade Panel

The Highest Fire Class. No Compromise.

Where building codes demand the maximum, A1 non-combustible classification, zero organic content, and unrestricted use at any building height, Solid Panel A1 closes the gap between regulatory requirement and architectural ambition.

The ALUCOSUN Solid Panel A1 is a single-skin aluminium alloy panel carrying full A1 non-combustible classification to EN 13501-1. There is no core material, no lamination, and no combustible element of any kind.

Precision-fabricated from AA3003, AA5052, or AA5754 aluminium alloy and finished with PVDF fluorocarbon coating to AAMA 2605 standard, Solid Panel A1 delivers the highest achievable fire performance without sacrificing surface quality or dimensional precision.

Specified for fire-critical facade zones, buildings above statutory height thresholds, and public architecture where code requirements leave no room for compromise.

Fire Classification	A1 · EN 13501-1 · Non-Combustible
Aluminium Alloy	AA3003 / AA5052 / AA5754
Standard Thickness	2mm / 3mm / 4mm
Max Panel Width	2,000mm
Max Panel Length	6,000mm
Coating System	PVDF Fluorocarbon · AAMA 2605
Coating Warranty	Up to 30 years · project-specific terms

A1
EN 13501-1 · Non-Combustible

AAMA 2605
PVDF Coating

2,000mm
Max Panel Width

Four Reasons Architects Specify Solid Panel A1.

01 A1 — The Maximum Achievable Classification

A1 is the highest fire performance classification under EN 13501-1, non-combustible, with no contribution to fire or smoke development. No organic content in the panel body. It is the direct specification response for fire-critical facade zones.

02 Unrestricted Use at Any Height

A1 classification places no restriction on building height or occupancy type. Solid Panel A1 satisfies stringent fire code requirements as a material property, not a system workaround. This simplifies material selection for regulated projects.

03 Architectural Surface Quality

Monolithic aluminium construction enables a surface finish quality that laminated composite panels cannot replicate, with consistent colour, depth, and gloss across full project supply. It is well suited to large metallic and light-colour facades.

04 Dimensional Precision at Project Scale

Width tolerance +/- 2mm, length tolerance +/-3mm, and thickness tolerance +/-0.2mm support predictable installation and minimal joint variance across large-format facades. Consistency remains critical when panels are supplied in project quantities.

Specification Reference.

Complete technical data is available in the Solid Panel A1 Technical Data Sheet. Contact ALUCOSUN for project-specific documentation packages.

DIMENSIONS & FORMAT	
Standard Thickness	2mm / 3mm / 4mm
Max Panel Width	2,000mm
Max Panel Length	6,000mm
Width Tolerance	+/- 2mm
Length Tolerance	+/-3mm
Thickness Tolerance	+/-0.2mm

MATERIAL PROPERTIES	
Aluminium Alloy	AA3003 / AA5052
Tensile Ultimate Strength	185 MPa
Tensile Yield Strength	165 MPa
Elastic Modulus	68.9 GPa
Core	None · monolithic aluminium

FIRE PERFORMANCE	
Fire Classification	A1 · EN 13501-1
Combustibility	Non-combustible
Gross Calorific Value	<= 2.0 MJ/kg · EN ISO 1716
Smoke Production	Not classified (A1)
Burning Droplets	Not classified (A1)

COATING SYSTEM	
Coating Type	PVDF Fluorocarbon
Coating Standard	AAMA 2605 · QUALICOAT Class 2
Coating Warranty	Up to 30 years · qualifying projects
Gloss Range	10% – 70%
Custom Colour	RAL / NCS / Pantone on request

Every Finish. One Standard.

All Solid Panel A1 surfaces are finished using PVDF fluorocarbon coating technology, applied in ISO-controlled conditions for consistent colour, gloss, and long-term performance. Every finish is tested to AAMA 2605. The monolithic aluminium surface delivers finish depth and consistency for demanding facade applications.

Solid & Metallic

Full-depth opaque PVDF colours across the complete RAL and NCS spectrum. Mica-particle metallic finishes and anodised-effect coatings support architectural depth and tone variation.

Solid Colour · Metallic · Anodised Effect

Brushed & Textured

Mechanically brushed surface texture with directional grain, available in silver, champagne, bronze, and custom tones. Stucco and embossed surface textures are available where tactile variation is required.

Brushed · Stucco · Custom Texture

Custom & Architectural

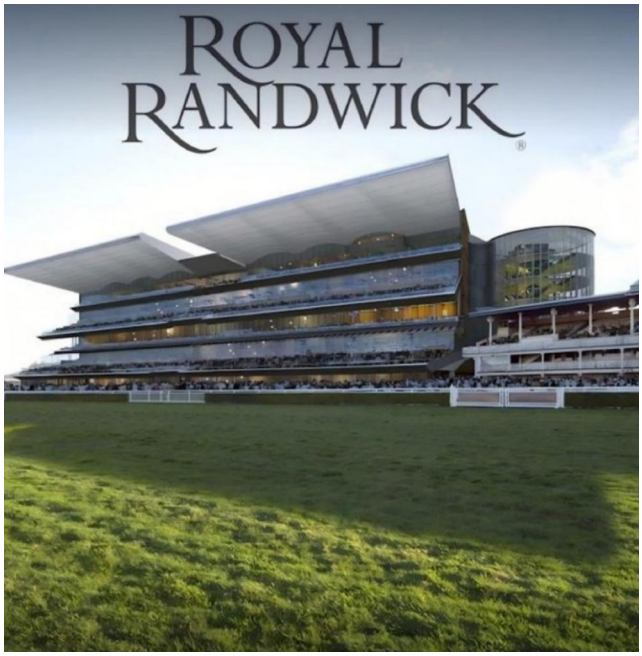
Full custom colour matching to RAL, NCS, and Pantone references. Bespoke gloss levels from 10% to 70%, with 2mm to 4mm panel thicknesses for structural and architectural requirements.

Custom RAL · NCS · Pantone

Up to 30-year PVDF coating warranty available for qualifying projects. Warranty period is subject to coating specification, project location, maintenance programme, and warranty registration. Contact ALUCOSUN for project-specific warranty terms.

Selected Projects · Australia · Europe · Asia

Specified Where Fire Class Is Non-Negotiable.



Royal Randwick Racecourse

Sydney, Australia · Solid Panel A1 · 8,000 m^2 · PVDF Coating

A landmark sports and leisure facility in Sydney's eastern suburbs, where non-combustible aluminium cladding was required for the grandstand facade. Solid Panel A1 was specified for A1 fire classification, dimensional consistency, and long-term PVDF surface performance in a coastal environment.

Greater Bay Area Science Forum

Guangzhou Nansha · Solid Panel A1 · 8,000 m^2+ · Fluorocarbon Coating

A civic landmark at Lingshan Island featuring sail-like facade elements and roof decoration in solid aluminium panel systems. The sculptural geometry required precise panel fabrication and consistent surface quality across a complex facade envelope.

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ALUCOSUN · PRECISION FACADES. GLOBAL STANDARDS.

Specify the Solid Panel A1.

Our specification team supports architects, facade engineers, and project developers from system selection through to site delivery, including A1 fire certification documentation, dimensional schedule review, coating sample supply, and project-specific warranty terms.

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