

X Panel

3D Core A2

Precision Facades. Global Standards.

A2-s1,d0
EN 13501-1

AAMA 2605
PVDF Coating Standard

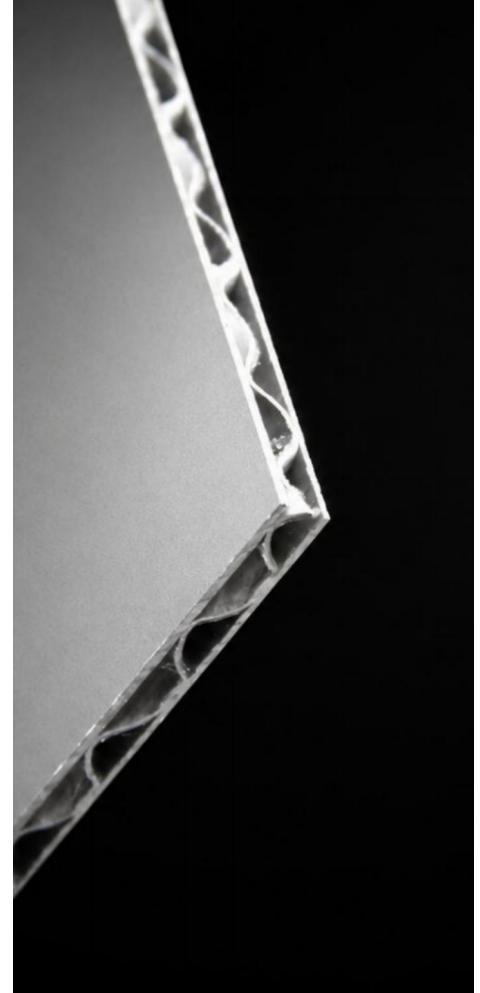
Engineered from the Inside Out.

Developed to bridge the gap between conventional ACP and solid aluminium facade systems, X Panel combines A2 fire performance, large-format rigidity, and lightweight construction in a single architectural panel solution.

The X Panel is ALUCOSUN's advanced A2 facade panel system, built around a proprietary three-dimensional aluminium grid core that expands the possibilities of aluminium facade systems.

Where conventional ACP relies on a flat mineral or polymer fill, the X Panel's 3D aluminium lattice distributes structural load in multiple directions simultaneously. The result is exceptional panel rigidity, superior flatness under thermal cycling, and outstanding resistance to wind-driven deflection.

A2-s1,d0 fire classification to EN 13501-1 is an inherent property of the all-aluminium construction, not a coating, treatment, or additive.



Fire Classification	A2-s1,d0 · EN 13501-1
Panel Thickness	4mm standard (3mm and 6 mm available)
Skin Thickness	0.7mm / 0.5mm (AA3003 / AA5005)
Panel Weight	4.2 kg/m ² (4mm)
Max Panel Format	1,570mm width · 8,000mm length
Coating System	PVDF Fluorocarbon · AAMA 2605
Coating Warranty	Up to 30 years · project-specific terms

A2-s1,d0

EN 13501-1

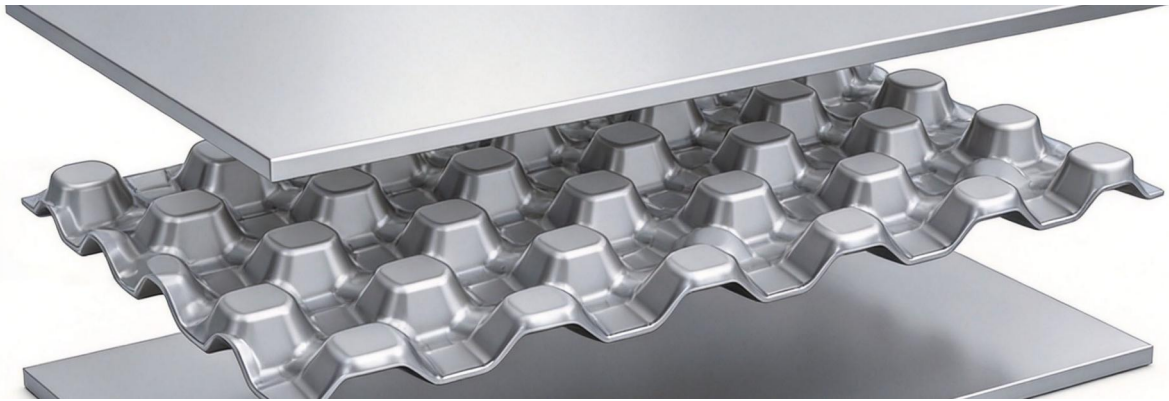
AAMA 2605

PVDF Coating Standard

8,000mm

Max Panel Length

Four Reasons Architects Specify X Panel.



01 Structural Rigidity at Large Format

The 3D aluminium lattice distributes load across the panel's full depth, delivering stiffness-to-weight performance that is difficult for flat-core panels to achieve at equivalent thickness. Engineered for large-format facade applications up to 8,000mm panel length.

02 A2 Fire Classification — Inherent, Not Applied

The all-aluminium core contains no combustible material. A2-s1,d0 classification to EN 13501-1 is a material property of the panel construction, independently tested and certified.

03 Visual Flatness Across Large Formats

The lattice geometry helps maintain visual flatness across large-format applications, managing thermal expansion within the panel structure. High-reflectivity finishes place the highest demands on surface consistency.

04 Full PVDF Finish Range

Every X Panel surface is finished using PVDF fluorocarbon coating, the architectural standard for long-term colour retention and weather resistance. Available in solid, metallic, anodised-effect and colour-shift finishes.

Specification Reference.

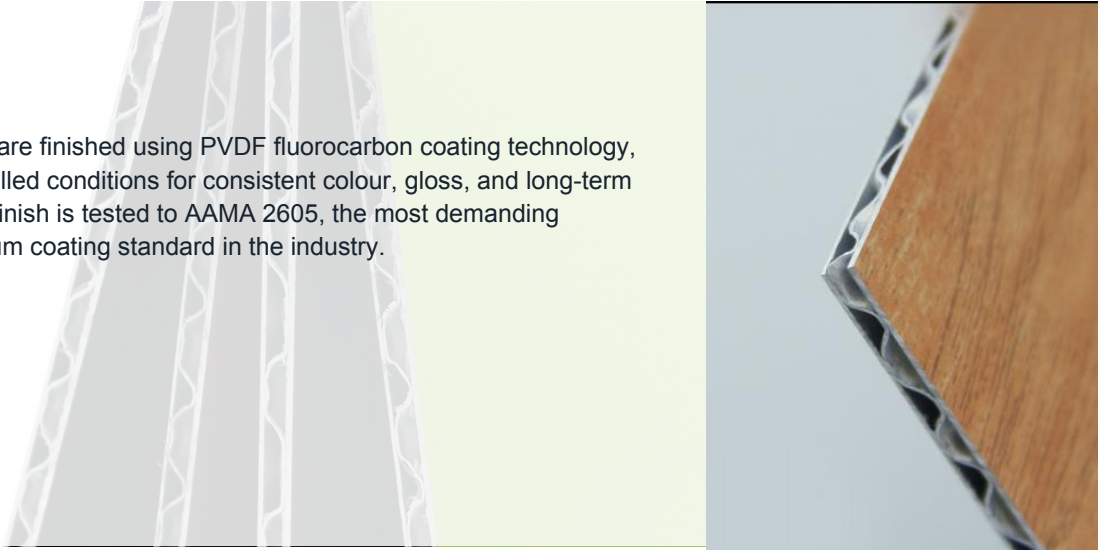
Complete technical data is available in the X Panel Technical Data Sheet. Contact ALUCOSUN for project-specific documentation packages.

DIMENSIONS & FORMAT		WEIGHT & STRUCTURE	
Panel Thickness	3mm / 4mm(standard) /6mm	Panel Weight (3mm)	3.9 kg/m ²
Front Skin Thickness	0.7mm	Panel Weight (4mm)	4.2 kg/m ²
Back Skin Thickness	0.5mm	Panel Weight (6mm)	4.6 kg/m ²
Aluminium Alloy	AA3003 / AA5005	Core Material	3D corrugated aluminium lattice
Max Panel Width	1,570mm	Core Construction	Non-combustible · 100% aluminium
Max Panel Length	8,000mm		
Width Tolerance	±2mm		
Length Tolerance	±5mm		
Thickness Tolerance	±0.2mm		

FIRE PERFORMANCE		COATING SYSTEM	
Fire Classification	A2-s1,d0 · EN 13501-1	Coating Type	PVDF Fluorocarbon
Smoke Production	s1 — Very limited	Coating Standard	AAMA 2605 · QUALICOAT Class 2
Burning Droplets	d0 — None	Coating Warranty	Up to 30 years · qualifying projects
Test Standard	EN 13501-1	Gloss Range	10% – 70%
		Custom Colour	RAL / NCS / Pantone on request

Every Finish. One Standard.

All X Panel 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 most demanding architectural aluminium coating standard in the industry.



Solid & Metallic

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

Solid Colour · Metallic · Anodised Effect · Brushed Effect

Colour-Shift

Proprietary iridescent PVDF that changes tone with viewing angle and lighting conditions. Specified for the EnCo Terminal Building, Bangkok, in colour-shift finish.

Each colour-shift specification is developed for the project.

Natural Effect

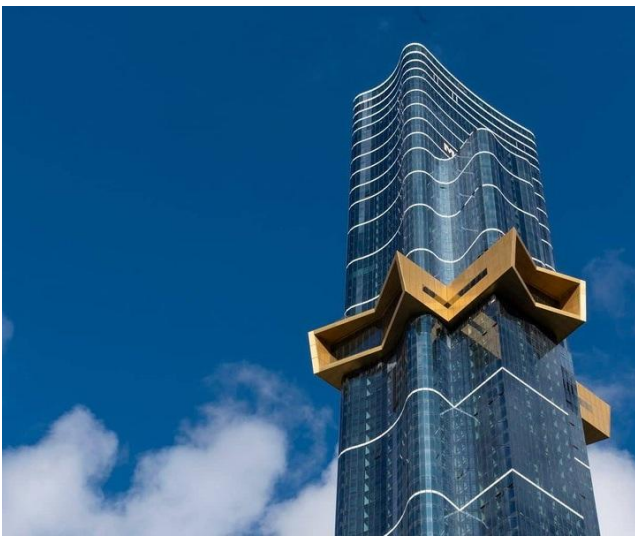
High-definition surface prints reproducing timber and stone textures for applications requiring natural material appearance with the performance of PVDF-coated aluminium.

Woodgrain · Marble Effect · Stone Effect

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 Landmark Projects · Australia · Thailand · Middle East

Specified Where Performance Cannot Be Compromised.



Australia 108

Melbourne, Australia · 2020 · 6,000 m² · Gold Anodised PVDF

The crown of one of the Southern Hemisphere's tallest residential towers. Australia 108 rises 100 storeys above Melbourne's Southbank precinct, with large-format gold panels amplifying natural light across the skyline. X Panel was specified for large-format performance, high-reflectivity surface consistency, and A2 fire classification.



EnCo Terminal Building

Bangkok, Thailand · 2021 · 10,000 m² · Colour-Shift PVDF

A landmark of contemporary Thai commercial architecture, defined by a sinuous facade that shifts between silver, blue, and iridescent gold depending on viewing angle and light conditions. X Panel supported complex three-dimensional facade geometry with multi-batch colour and shift-angle consistency.

Specify the X Panel.

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

Technical Specification

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