

# X Panel

## 3D Core A2

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Precision Facades. Global Standards.

**A2-s1,d0**  
EN 13501-1

**AAMA 2605**  
PVDF Coating Standard

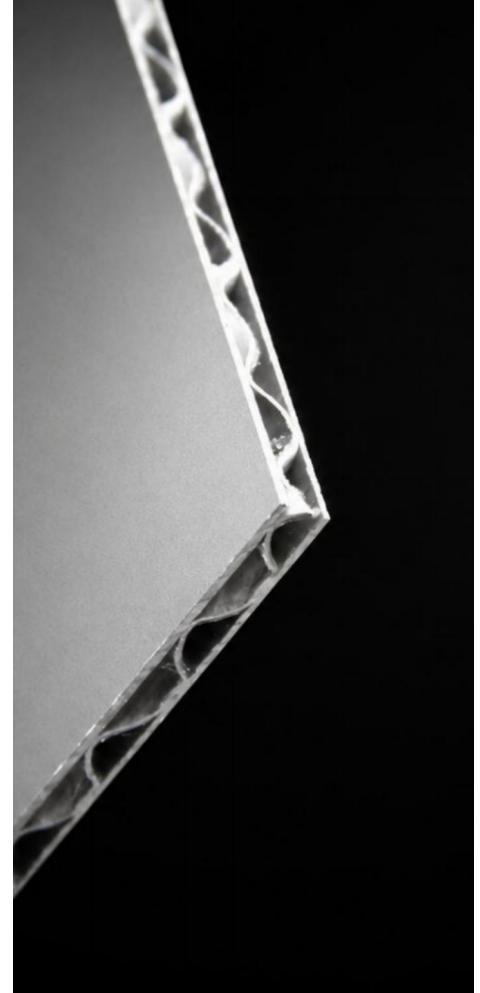
# Engineered from the Inside Out.

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.



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

**A2-s1,d0**

EN 13501-1

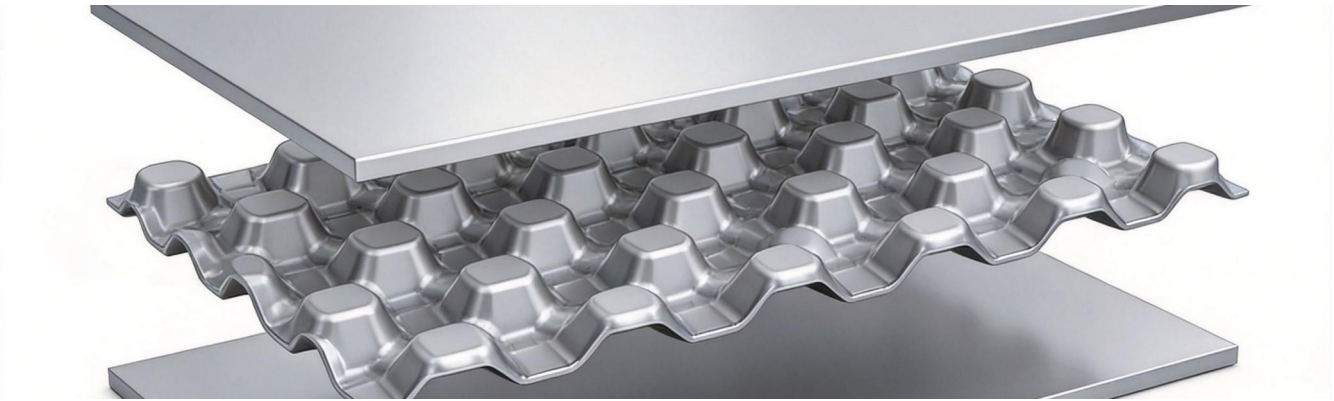
**AAMA 2605**

PVDF Coating Standard

**6,000mm**

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 6,000mm 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.

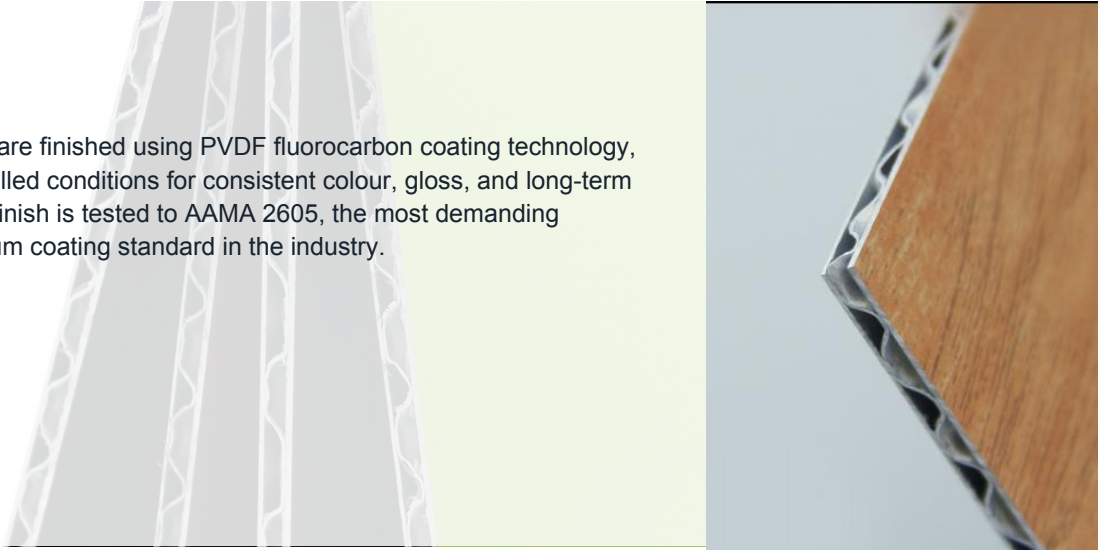
DIMENSIONS & FORMAT		WEIGHT & STRUCTURE	
Panel Thickness	3mm / 4mm /6mm standard	Panel Weight (3mm)	4.2 kg/m <sup>2</sup>
Front Skin Thickness	0.7mm	Panel Weight (4mm)	4.2 kg/m <sup>2</sup>
Back Skin Thickness	0.5mm	Core Material	3D corrugated aluminium lattice
Aluminium Alloy	AA3003 / AA5005	Core Construction	Non-combustible · 100% aluminium
Max Panel Width	1,570mm		
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	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.

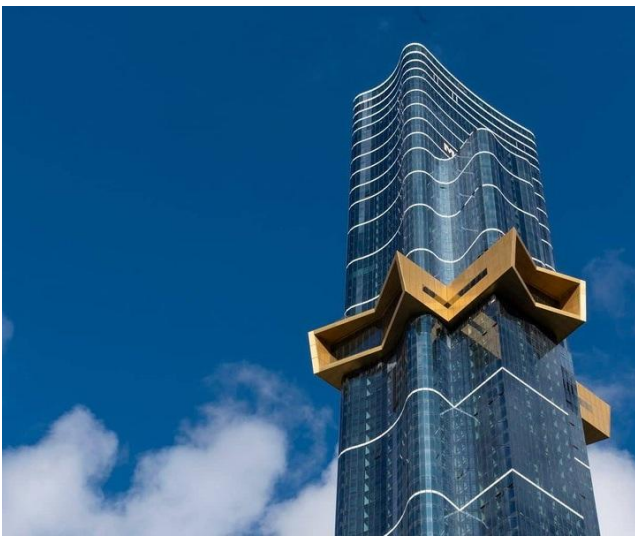
Woodgrain · Marble Effect · Stone Effect

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.

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### Australia 108

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Melbourne, Australia · 2020 · 6,000 m<sup>2</sup> · 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

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Bangkok, Thailand · 2021 · 10,000 m<sup>2</sup> · 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.

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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

[spec@alucosun.com](mailto:spec@alucosun.com)

## Commercial Enquiries

[sales@alucosun.com](mailto:sales@alucosun.com)

## Europe Office

Paseo de la Independencia, 24-28, 7-8  
50004 Zaragoza, Spain  
+34 655 67 67 95  
[europe@alucosun.com](mailto:europe@alucosun.com)