

ALUCOSUN TECHNICAL DATA SHEET

# X Panel (3D) A2

Proprietary Three-Dimensional Corrugated Aluminium Lattice Core Panel

A2-s1,d0 · EN 13501-1



A structurally innovative aluminium sandwich panel built around a proprietary three-dimensional corrugated aluminium lattice core. The lattice geometry distributes structural load in multiple directions simultaneously, delivering superior rigidity-to-weight performance, exceptional panel flatness under thermal load, and outstanding wind-driven deflection resistance — particularly suited to large-span, high-performance facade applications.

Document Reference / ALCS-3D-TDS-001 Product Code / ALCS-3D Version / v1.0 · 2026

**A2-s1,d0**

FIRE CLASSIFICATION

**Proprietary 3D c**

CORE TYPE

**3.8 kg/m<sup>2</sup> (3mm)**

PANEL WEIGHT

**1,570 mm**

MAX WIDTH

## Technical Specifications

<b>Fire Classification</b>	A2-s1,d0 · EN 13501-1
<b>Core Type</b>	Proprietary 3D corrugated aluminium lattice
<b>Panel Thickness</b>	3mm / 4mm (standard) /6mm
<b>Skin Thickness</b>	0.5mm / 0.6mm / 0.7mm
<b>Aluminium Alloy</b>	AA3003 / AA5005
<b>Panel Weight</b>	3.8 kg/m <sup>2</sup> (3mm) · 4.3 kg/m <sup>2</sup> (4mm)
<b>Max Width</b>	1,570 mm
<b>Max Length</b>	6,000 mm
<b>Coating System</b>	PVDF / FEVE liquid coating: certified to AAMA 2605

## SECTION 02

# Performance, Coating & Applications

## Specifications Continued

<b>Coating Warranty</b>	Up to 30 years based on AAMA 2605-certified PVDF fluorocarbon coating systems. Warranty period subject to coating specification, project location, maintenance programme, and warranty registration. Contact ALUCOSUN for project-specific warranty terms.
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<b>Width Tolerance</b>	-0 / +1.0 mm
<b>Length Tolerance</b>	+/- 3.0 mm
<b>Thickness Tolerance</b>	+/- 0.2 mm
<b>Diagonal Tolerance</b>	≤ 3.0 mm
<b>Surface Finish</b>	Solid Colour · Metallic · Anodised-look · Woodgrain
<b>Fabrication</b>	CNC routing · V-groove folding · CNC cutting

## Standards & Certifications

<b>A2</b> EN 13501-1 · FIRE CLASS	<b>s1,d0</b> SMOKE & DROPLET · LIMITED · NONE
<b>PVDF</b> AAMA 2605 · COATING CERT	<b>Warranty</b> PROJECT-SPECIFIC TERMS

## Coating Systems

Coating System	Standard	Warranty	Notes
<b>PVDF Fluorocarbon</b>	AAMA 2605	Up to 30 years, subject to project warranty terms	Standard — full architectural palette
<b>FEVE Fluorocarbon</b>	AAMA 2605	Up to 25 years, subject to project warranty terms	Available for special colour requirements
<b>Anodised-look PVDF</b>	AAMA 2605	Up to 30 years, subject to project warranty terms	Gold, silver, bronze, champagne effects
<b>Powder coating, where applicable</b>	QUALICOAT Class 2	Project-specific	Do not list as PVDF certification

## Typical Applications

- High-rise commercial and residential curtain wall systems
- Public and civic architecture subject to A2 fire code requirements
- Large-format feature facade panels and architectural skins
- Transportation infrastructure: airports, transit terminals
- Healthcare and education buildings requiring non-combustible cladding

### TECHNICAL CONTACT

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