

## Alucore – Industrial / Transport / Architectural / Façade Applications

### Technical data Sheet

Thickness	6mm	10mm	10.5mm	15mm	20mm	25mm	40mm
<b>Aluminium Skin Thicknesses</b>	1.00mm thick skin to front side						
	0.5mm thick skin to reverse face		1.00mm skins to reverse face				
<b>Mass</b> (kg/m <sup>2</sup> )	4.9	5.3	6.4	7.0	7.4	7.8	7.5
<b>Section Modulus Z</b> (mm <sup>3</sup> 10 <sup>3</sup> /m)	2.63	4.63	9.52	14.00	19.00	24.00	38.00
<b>Moment Of Inertia I</b> (mm <sup>6</sup> 10 <sup>4</sup> /m)	.0102	.0313	.0500	.1050	.1900	.3000	.7600
<b>Rigidity EI</b> (kNm <sup>2</sup> /m)	0.71	2.19	3.50	7.55	13.90	22.17	58.52
<b>Alloy</b>	Architectural / Façade Panels EN5005A AIMg1 H42 Industrial / Transport Panels EN5745 AIMg3 H42						
<b>Modulus of Elasticity E</b> (MPa)	70,000						
<b>Tensile Strength of Cover Sheets</b>	Architectural / Façade Panels = 125 MPa Industrial / Transport Panels = 220 MPa						
<b>0.2% Proof stress</b> (MPa)	Architectural / Façade Panels = 74 MPa Industrial / Transport Panels = 130 MPa						
<b>Maximum Design Stress (Permissible)</b>	Architectural / Façade Panels = 48.5 MPa Industrial / Transport Panels = 79 MPa						
<b>Linear Thermal Expansion</b>	2.4 mm /m at 100°C temperature difference						
<b>Temperature Resistance</b>	-50 - +80deg Celsius						
<b>Core cell size</b>	6.3 mm						12.7 mm
<b>Cell density</b>	65 kg/m <sup>3</sup>						42 kg/m <sup>3</sup>
<b>Bare compressive strength</b>	2.5 – 4 MPa						1.5 MPa
<b>Surface Finish</b>	Industrial / Transport - Coil coated Modified Polyester both sides (Platinum White) Architectural / Façade – Coil coated Fluoropolymer (PVDF or FEVE)						
<b>Panel widths</b>	1250mm & 1500mm widths only						
<b>Panel Lengths</b>	From 2,000mm up to a maximum of 13,000mm Industrial / Transport - Minimum of 500m <sup>2</sup> per nominated length Architectural / Façade – Minimum 1,000m <sup>2</sup> per nominated length						
<b>Approximate Cost A\$/m<sup>2</sup></b>	110	120	125	145	160	175	N/A

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