

Alucore – Industrial / Transport / Architectural / Façade Applications Technical Data Sheet

Thickness	6mm	10mm	10.5mm	15mm	20mm	25mm	40mm
Aluminium Skin Thicknesses	1.00mm thick skin to front side						
	0.5mm thick skin to reverse face		1.00mm skins to reverse face				
Mass (kg/m ²)	4.9	5.3	6.4	7.0	7.4	7.8	7.5
Section Modulus Z (mm ³ 10 ³ /m)	2.63	4.63	9.52	14.00	19.00	24.00	38.00
Moment Of Inertia I (mm ⁶ 10 ⁴ /m)	.0102	.0313	.0500	.1050	.1900	.3000	.7600
Rigidity EI (kNm ² /m)	0.71	2.19	3.50	7.55	13.90	22.17	58.52
Alloy	Architectural / Façade Panels EN5005A AlMg1 H42 Industrial / Transport Panels EN5745 AlMg3 H42						
Modulus of Elasticity E (MPa)	70,000						
Tensile Strength of Cover Sheets	Architectural / Façade Panels = 125 MPa Industrial / Transport Panels = 220 MPa						
0.2% Proof stress (MPa)	Architectural / Façade Panels = 74 MPa Industrial / Transport Panels = 130 MPa						
Maximum Design Stress (Permissible)	Architectural / Façade Panels = 48.5 MPa Industrial / Transport Panels = 79 MPa						
Linear Thermal Expansion	2.4 mm /m at 100°C temperature difference						
Temperature Resistance	-50 - +80deg Celsius						
Core cell size	6.3 mm						12.7 mm
Cell density	65 kg/m ³						42 kg/m ³
Bare compressive strength	2.5 – 4 MPa						1.5 MPa
Surface Finish	Industrial / Transport - Coil coated Modified Polyester both sides (Platinum White) Architectural / Façade – Coil coated Fluoropolymer (PVDF or FEVE)						
Panel widths	1250mm & 1500mm widths only						
Panel Lengths	From 2,000mm up to a maximum of 13,000mm Industrial / Transport - Minimum of 500m ² per nominated length Architectural / Façade – Minimum 1,000m ² per nominated length						

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