

TECHNICAL DATA SHEET

ALUCORE CLAD



PROPERTIES	STANDARDS	UNIT	VALUES
Panel Standard Thickness	Nominal	[mm]	10 / 15 / 20 / 25
Coated Skin Thickness, Front Side	Nominal	[mm]	1.0
Coated Skin Thickness, Rear Side	Nominal	[mm]	0.5 (10mm) / 1.0
Weight	Nominal	[kg/m ²]	5.0 / 6.7 / 7.0 / 7.3
TECHNICAL PROPERTIES:			
Section Modulus W		[cm ³ /m]	4.5 / 13.1 / 18.1 / 23.1
Rigidity E · I		[kNcm ² /m]	21,900 / 75,500 / 138,900 / 221,600
Alloy of Cover Sheets	ASTM B209-04		3105 / 5005
Temper of Cover Sheets	ASTM B209-04		H24
Modulus of Elasticity	ASTM E8	[N/mm ²]	70,000
Tensile Strength of Aluminium	ASTM E8	[N/mm ²]	R _m ≥ 125
0.2% Proof Stress	ASTM E8	[N/mm ²]	R _{p0.2} ≥ 90
Elongation	ASTM E8	[%]	A ₅₀ ≥ 4
Linear Thermal Expansion	ASTM D696		2.4mm/m at 100°C temperature difference
CORE:			
Bare Compressive Strength		[N/mm ²]	0.4 ~ 1.0 approx.
Cell Size		[mm]	10 ~ 19
SURFACE:			
Lacquering			Coil coating Polyester coated / PVDF upon request
Gloss (Initial Value)	ASTM D523		As per the colour shade
Pencil Hardness	ASTM D3363		HB ~ F
ACOUSTICAL PROPERTIES:			
Sound Absorption Factor α _s	ISO 354		0.05 ~ 0.07
Air-borne Sound Insulation Index R _w	ISO 717	[dB]	21 ~ 25
THERMAL PROPERTIES:			
Temperature Range		[°C]	-40 to +80
CORE FIRE PROPERTIES:			
Fire Classification	BS 476- Part 4 EN 13501-1		Passes Class A2- s1, d0
ENVIRONMENT & HEALTH ASPECTS:			
Environment Management System			ISO 14001 : 2015
Occupational Health & Safety Management System			ISO 45001 : 2018
Quality Management System			ISO 9001 : 2015
DIMENSIONAL TOLERANCES:			
Panel Thickness		[mm]	± 0.2mm (upto 15mm) ± 0.3mm (upto 25mm)
Thickness of Coated Skin		[mm]	± 0.02mm
Weight		[kg/m ²]	± 5%

Specifications are subject to change without prior notice/intimation.