

Technical Data Sheet ALUCOBOND® PLUS

Properties	Standard	Unit	Values
Panel Thickness		[mm]	4
Width		[mm]	1250 / 1500
Weight		[kg/m ²]	7.6
Technical Properties:			
Section Modulus W	DIN 53293	[cm ³ /m]	1.75
Rigidity (Poisson's ratio $\mu = 0,3$) E-I	DIN 53293	[kNcm ² /m]	2400
Alloy Grade	EN 573-3		EN AW-5005 (AlMg 1)
Temper of Al	EN 515		H22/24 (bare aluminium coil) H42/44 (coated aluminium coil)
Elasticity Modulus of Al	EN 1999 1-1	[N/mm ²]	70,000
Tensile Strength of Al	EN 485-2	[N/mm ²]	min. 125 & max. 185
0.2% Proof Stress	EN 485-2	[N/mm ²]	Rp0.2 \geq 90
Elongation	EN 485-2	[%]	A ₅₀ \geq 4
Linear Thermal Expansion	EN 1999 1-1		2.4 mm / m at 100°C temperature difference
Core:			Non-combustible mineral filled polymer
Surface:			Coil Coating Fluorocarbon based (e.g. PVDF)
Lacquering			24 ~ 34
Thickness of coat	ISO 2360	[μ]	30 ~ 80 (\pm 5%)
Gloss (initial value)	EN 13523-2	[%]	HB ~ F
Pencil Hardness	EN 13523-2		
Acoustical Properties:			
Sound Absorption Factor α_S	ISO 354		0.05
Sound Transmission R _w	ASTM E90	[dB]	STC: 30 OITC:24
Thermal Properties:			
Thermal Resistance R		[m ² K/W]	0.009
Temperature Resistance	ASTM C518	[°C]	-50 to +80
Fire Properties :			
Fire Classification	EN 13501-1 ASTM E 84 NFPA 285		Class B - s1, d0 Class I Pass
Dimensional Tolerances:			
Thickness		[mm]	4 mm \pm 0.2 mm
Thickness of Aluminium Layers		[mm]	0.50 \pm 0.02 mm
Weight		[kg/m ²]	7.6 \pm 5%
Width		[mm]	Upto 1575 mm + 4mm
Length		[mm]	Till 4000 mm + 6 mm Above 4000 mm +10 mm