

Technical Data Sheet ALUCOBOND[®] plus

PANEL-THICKNESS:	Standard	Unit	4 mm
Thickness of Aluminium Layers		[mm]	0.50
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 /		EN 573-3	EN AW-3003 (AlMn1Cu),
Temper of Cover Sheets		EN 515	H24/H44
Modulus of Elasticity		EN 1999 1-1	[N/mm ²] 70'000
Tensile Strength of Aluminium		EN 485-2	[N/mm ²] $R_m \geq 145$
0.2% Proof Stress		EN 485-2	[N/mm ²] $R_{p0.2} \geq 130$
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:			
Mineral material based on Aluminium-Hydroxide, polymeric bonded			
Surface:			
Lacquering			Coil Coating Fluorocarbon based (e.g. PVdF)
Gloss (initial value)	ECCA T2	[%]	25 - 60
Pencil Hardness	ECCA T4		HB - F
Acoustical Properties:			
Sound Absorption Factor	α_S	ISO 354	0.05
Sound Transmission Loss	R_W	ISO 717-1	[dB] 26
Loss Factor	d	EN ISO 6721	0.0087
Thermal Properties:			
Thermal Resistance	R	DIN 52612	[m ² K/W] 0.022
Heat Transition Coefficient	U	DIN 4108	[W/m ² K] 5.81
Temperature Range			[°C] -50...+80