

Technical Data Sheet ALUCOBOND® eco

PANEL-THICKNESS:	Standard	Unit	3 mm	4 mm	
Thickness of Aluminium Layers		[mm]	0.30		
Weight		[kg/m ²]	3.8	4.75	
Technical Properties:					
Section Modulus	W	DIN 53293	[cm ³ /m]	0.81	1.11
Rigidity (Poisson's ratio $\mu = 0,3$)	E-I	DIN 53293	[kNcm ² /m]	865	1620
Alloy /		EN 573-3		EN AW-3003 (AL-Mn1Cu),	
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:					
Polyethylene, Type LD-PE blend			[g/cm ³]	0.92	
Surface:					
Lacquering				Coil Coating	
Gloss (initial value)		ECCA T2	[%]	Fluorocarbon based (e.g. PVdF)	
Pencil Hardness		ECCA T4		25 - 60	
				HB - F	
Acoustical Properties:					
Sound Absorption Factor	α_S	ISO 354		0.05	
Sound Transmission Loss	R_W	ISO 717-1	[dB]	24	25
Loss Factor	d	EN ISO 6721		0.0057	0.0072
Thermal Properties:					
Thermal Resistance	R	DIN 52612	[m ² K/W]	0.0080	0.0113
Heat Transition Coefficient	U	DIN 4108	[W/m ² K]	5.61	5.50
Temperature Range			[°C]	-50...+80	