

Technical Data Sheet ALUCOBOND® plus

Panel Thickness		Standards	Units	3 mm	4 mm
Thickness of Aluminium Layers			[mm]	0.50	
Weight			[kg/m ²]	5.9	7.6
Technical Properties					
Section Modulus	W	DIN 53293	[cm ³ /m]	1.25	1.75
Rigidity (Poisson's ratio $\mu = 0,3$)	E-I	DIN 53293	[kNcm ² /m]	1250	2400
Alloy /		EN 573-3		EN AW-5005A (AlMg1),	
Temper of Cover Sheets		EN 515		H22 / H42	
Modulus of Elasticity		EN 1999 1-1	[N/mm ²]	70'000	
Tensile Strength of Aluminium		EN 485-2	[N/mm ²]	$R_m \geq 130$	
0.2% Proof Stress		EN 485-2	[N/mm ²]	$R_{p0,2} \geq 90$	
Elongation		EN 485-2	[%]	$A_{50} \geq 5$	
Linear Thermal Expansion		EN 1999 1-1		2,4 mm / m at 100°C temperature difference	
Core					
Mineral filled polymer					
Surface					
Lacquering					
Gloss (initial value)					
		EN 13523-2	[%]	30 – 80	
Pencil Hardness					
		EN 13523-4		HB - F	
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	ASTM C518	[m ² K/W]	0.007	0.009
Temperature Resistance			[°C]	-50 to +80	
Fire Classification		acc. to EN 13501-1: Class B, s1, d0			