

<b>ALUCOBOND®</b>				
<b>Technical Data Sheet</b>				
<b>ALUCOBOND® plus</b>				
Panel Thickness	Standards	Units	3 mm	4 mm
Thickness of Aluminium Layers		[mm]	0.50	
Weight		[kg/m <sup>2</sup> ]	5.9	7.6
<b>Technical Properties</b>	DIN 53293	[cm <sup>3</sup> /m]	1.25	1.75
Section Modulus $W$	DIN 53293	[kNcm <sup>2</sup> /m]	1250	2400
Rigidity (Poisson's ratio $\mu = 0,3$ ) E-I Alloy /	EN 573-3	[N/mm <sup>2</sup> ]		
Temper of Cover Sheets Modulus of Elasticity	EN 515	[N/mm <sup>2</sup> ]		
Tensile Strength of Aluminium 0.2% Proof Stress Elongation	EN 1999 1-1	[N/mm <sup>2</sup> ] [%]	EN AW-5005A (AlMg1), H22 / H42	
Linear Thermal Expansion	EN 485-2		70'000	
	EN 485-2		$R_m \geq 130$	
	EN 1999 1-1		$R_{p0,2} \geq 90$	
			$A_{50} \geq 5$	
			2,4 mm / m at 100°C temperature difference	
<b>Core</b> Mineral filled polymer				
<b>Surface</b>			Coil Coating	
Lacquering			Fluorocarbon based (e.g. PVdF)	
Gloss (initial value) Pencil Hardness	EN 13523-2	[%]	30 – 80	
	EN 13523-4		HB - F	
<b>Acoustical Properties</b>	ISO 354		0.05	
Sound Absorption Factor $\alpha_s$	ASTM E90	[dB]	STC: 30	OITC: 24
Sound Transmission $R_w$				
<b>Thermal Properties</b>	EN 12667	[m <sup>2</sup> K/W]	0.0021	0.0032
Thermal Resistance (core) R		[°C]		
Temperature Resistance			-50 to +80	
<b>Fire Classification</b>	acc. to EN 13501-1: Class B-s1,d0			
<b>Calorific value</b> PCS <sub>core</sub>	ISO 1716	MJ/kg	≤ 13,9	

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