

Technical Data Sheet DIBOND® anodised 5 µm

Panel thickness :		3 mm	4 mm
Thickness of Aluminium Layers	[mm]	0.30	
Standard width	[mm]	1250 and 1500	
Weight	[kg/m ²]	3.80	4.75
Technical Properties :			
Section Modulus	W [cm ³ /m]	0.81	1.11
Rigidity (Poisson's ratio $\mu = 0.3$)	E-I [kNcm ² /m]	865	1620
Alloy of Aluminium Layers		AlMg1 (EN AW-5005A) H 24	
Modulus of Elasticity	[N/mm ²]	70'000	
Tensile Strength of Aluminium	[N/mm ²]	R _m 145 – 185	
0.2% Proof Stress	[N/mm ²]	R _{p0.2} 110 – 175	
Elongation	[%]	A ₅₀ ≥ 3	
Linear Thermal Expansion		2.4 mm/m at 100°C temperature difference	
Core :			
Polyethylene, Type LD PE	[g/cm ³]	0.92	
Surface :			
Front side		Anodised natural finish For interior applications only.	
Rear side		Coated aluminium-metallic	
Acoustical Properties :			
Sound Absorption Factor	α_s	0.05	
Sound Transmission Loss	R _w [dB]	24	25
Loss Factor	d	0.0057	0.0072
Thermal Properties :			
Thermal Resistance	R [m ² K/W]	0.0080	0.0113
Heat Transition Coefficient	U [W/m ² K]	5.61	5.50
Range of Application	[°C]	-50...+80	