

Technical Data Sheet DIBOND® anodised 10 µm

Panel thickness :		4 mm
Thickness of aluminium layer	[mm]	0.30
Standard width	[mm]	1275 and 1525
Weight	[kg/m ²]	4.75
Technical Properties :		
Section Modulus	W [cm ³ /m]	1.10
Rigidity (Poisson's ratio $\mu = 0.3$)	E-I [kNcm ² /m]	1620
Alloy of Aluminium Layers		AlMg1 (EN AW-5005) H24
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 :		Both sides anodised natural finish
Acoustical Properties :		
Sound Absorption Factor	α_s	0.05
Sound Transmission Loss	R _w [dB]	25
Loss Factor	d	0.0072
Thermal Properties :		
Thermal Resistance	R [m ² K/W]	0.0113
Heat Transition Coefficient	U [W/m ² K]	5.50
Range of Application	[°C]	-50...+80

Please note: Anodised DIBOND composite panels have a surrounding contact area. Longitudinal approx. 10 mm and on the transverse edges approx. 25 mm. Please consider when choosing the formats.