

Technical Data Sheet

PANEL-THICKNESS :		Unit	2 mm	3 mm	4 mm	6 mm
Thickness of Aluminium Layers		[mm]	0.30			
Weight		[kg/m ²]	2.90	3.80	4.75	6,60
Technical Properties :						
Section Modulus	W	[cm ³ /m]	0,51	0,81	1,11	1,71
Rigidity (Poisson's ratio $\mu = 0,3$)	E·I	[kNcm ² /m]	345	865	1620	3840
Alloy of Aluminium Layers			AlMg 1 (EN AW-5005), H44			
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, Typ LDPE		[g/cm ³]	0.92			
Surface :						
Lacquering			Coil Coating Mod. Polyester-System (for screen and digital printing)			
Gloss (initial value)			30 - 60 %			
Pencil Hardness			H - F			
Acoustical Properties :						
Sound Absorption Factor	α_S		0.05			
Sound Transmission Loss	R _w	[dB]	23	24	25	26
Loss Factor	d		0.0048	0.0057	0.0072	0,0102
Thermal Properties :						
Thermal Resistance	R	[m ² K/W]	0.0047	0.0080	0.0113	0,0180
Heat Transition Coefficient	U	[W/m ² K]	5.72	5.61	5.50	5,30
Range of Application		[°C]	-50...+80			