

<b>Panel Thickness</b>	<b>Standard</b>	<b>Unit</b>			<b>3mm</b>						
Thickness of Aluminium	DIN 1784	mm			0.2						
Aluminum thickness deviation	DIN 1784	mm			±0.02						
Weight		Kg/m <sup>2</sup>			4.28						
Tolerance in length	DIN 16927 / ISO 11833-1	mm			±2						
Tolerance in width	DIN 16927 / ISO 11833-1	mm			- 0 / +1.5						
Tolerance in thickness	DIN 16927 / ISO 11833-1	mm			± 0.10						
Longitudinal roughness	DIN ISO 1101	mm			5						
Horizontal flatness	DIN ISO 1101	mm			3						
Corner warpage	DIN ISO 1101	mm			3						
Section Modulus W	DIN 53293	cm <sup>3</sup> /m			1.05						
Rigidity (Poisson's ratio $\mu = 0.3$ ) E.I	DIN 53293	kNm <sup>2</sup> /m			0.14						
Alloy	EN 573-3	ENAW							1100		
Temper of Cover Sheets	EN 515								H16/H18		
Modulus of Elasticity	EN 1999 1-1	N/mm <sup>2</sup>							70,000		
<b>Tensile Strength of Aluminium</b>	<b>EN 485-2</b>	<b>N/mm<sup>2</sup></b>							<b>R<sub>m</sub> ≥ 145</b>		
0.2% Proof Stress	EN 485-2	N/mm <sup>2</sup>							R <sub>p0.2</sub> ≥ 100		
Elongation	EN 485-2	%							A <sub>50</sub> ≥ 2		
Linear Thermal Expansion	EN 1999 1-1	mm/m/°C							2.4 at 100°C temperature difference		
<b>Core</b>											
Polyethylene, Typ LD-PE		g/cm <sup>3</sup>							0.935		
<b>Surface</b>									<b>surface coating</b>		
Lacquering									polyester		
Thickness of coating		µm	≥16	≥16	≥16	≥16	≥16	≥16	≥16	≥16	≥16
Gloss (initial value)	ECCA T2	%							20 - 100		
Pencil Hardness	ECCA T4								2H		
<b>Acoustical Properties</b>											
Sound Absorption Factor $\alpha_s$	ISO 354								0.05		
Sound Transmission Loss R <sub>w</sub>	ISO 717-1	DB	23	25	25	25	26	26	28	25	28
Loss Factor d	EN ISO 6721		0.0062	0.0064	0.0065	0.0072	0.0078	0.0087	0.0138	0.0064	0.013
<b>Thermal Properties</b>											
Thermal Resistance R	DIN 52612	m <sup>2</sup> K/W	0.0036	0.0040	0.0042	0.0069	0.0095	0.0103	0.0172	0.0041	0.0162
Heat Transition Coefficient U	DIN 4108	W/m <sup>2</sup> K	5.98	5.88	5.78	5.65	5.55	5.54	5.34	5.73	5.42
Temperature Range		°C							-50...+80		
FR test	EN – 13501								B (with Fireproofing core)		
Colour difference	matt (white, silver)								ΔE ≤ 1.0		
	bright (red, yellow, blue, green)								ΔE ≤ 2.0		

Longitudinal roughness, Horizontal flatness and Corner warpage should be tested on a horizontal surface