

Panel Thickness	Standard	Unit	2mm	3mm	3mm	3mm	3mm
Thickness of Aluminum with coating	DIN 1784	mm	0,15	0,15	0,18	0,21	0,3
Aluminium thickness deviation	DIN 1784	mm	±0.02	±0.02	±0.02	±0.02	±0.02
Weight		Kg/m2	2,8	4,1	4,2	4,3	4,5
Tolerance in length	DIN 16927 / ISO 11833-1	mm	-3/+5	-3/+5	-3/+5	-3/+5	-3/+5
Tolerance in width	DIN 16927 / ISO 11833-1	mm	-3/+5	-3/+5	-3/+5	-3/+5	-3/+5
Tolerance in thickness	DIN 16927 / ISO 11833-1	mm	± 0.15	± 0.15	± 0.15	± 0.15	± 0.15
Horizontal flatness	DIN ISO 1101	mm/m	5	4	4	4	3
Longitudinal roughness	DIN ISO 1101	mm/m	6	5	5	5	5
Technical Properties							
Section Modulus W	DIN 53293	cm3/m	1	1,34	1,45	1,55	1,68
Rigidity (Poisson's ratio $\mu = 0.3$) E.I	DIN 53293	kNm2/m	0,06	0,12	0,13	0,14	0,16
Alloy	EN 573-3	ENAW	1100				
Temper of Cover Sheets	EN 515		H16/H18				
Modulus of Elasticity	EN 1999 1-1	N/mm2	70000				
Tensile Strength of Aluminium	EN 485-2	N/mm2	Rm \geq 145				
0.2% Proof Stress	EN 485-2	N/mm2	Rp0.2 \geq 90				
Elongation	EN 485-2	%	A50 \geq 3				
Linear Thermal Expansion	EN 1999 1-1	mm/m/oC	2.4 at 100°C Temp difference				
Core							
Polyethylene, Typ LD-PE(BROKEN MIX 20% UNBROKEN)		g/cm3	1,1	1,25			
Surface/ Coil Coating							
Lacquering			PE				
Thickness of coating		μ m	average \geq 15				
Gloss (initial value)	ECCA T2	%	30 for matt, 80 for gloss				
Pencil Hardness	ECCA T4		2H				
Acoustical Properties							
Sound Absorption Factor α_s	ISO 354		0,05				
Sound Transmission Loss RW	ISO 717-1	DB	24	25			
Loss Factor d	EN ISO 6721		0,0041	around 0.0072			
Thermal Properties							
Temperature Range		°C	-50...+80				

