

PRODUCTION ACP ECO / ACP ECO SLIM

Technical Data Sheet



Panel Thickness	Standard	Unit	2mm	3mm
Thickness of Aluminium	DIN 1784	mm	0,2	0,2
Aluminium thickness deviation	DIN 1784	mm	±0,02	±0,02
Weight		kg/m ²	2,83	3,98
Tolerance in length	DIN 16927 / ISO 11833-1	mm	-3/+3	-3/+3
Tolerance in width	DIN 16927 / ISO 11833-1	mm	-2/+2	-2/+2
Tolerance in thickness	DIN 16927 / ISO 11833-1	mm	± 0,15	± 0,15
Technical Properties				
Section Modulus W	DIN 53293	cm ³ /m	1,55	1,68
Rigidity (Poisson's ratio $\mu = 0,3$) E.I	DIN 53293	kNm ² /m	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/mm ²	70000	
Tensile Strength of Aluminium	EN 485-2	N/mm ²	Rm ≥ 145	
0,2% Proof Stress	EN 485-2	N/mm ²	Rp0,2 ≥ 90	
Elongation	EN 485-2	%	A50 ≥ 3	
Linear Thermal Expansion	EN 1999 1-1	mm/m/°C	2,4 at 100 °C Temp difference	
Core				
Polyethylene, Typ LD-PE		g/cm ³	0,935	
Surface/ Coil Coating				
Lacquering			PE	
Thickness of coating		µm	≥15	
Gloss (initial value)	ECCA T2	%	20-100	
Pencil Hardness	ECCA T4		2H	
Acoustical Properties				
Sound Absorption Factor s	ISO 354		0,05	
Sound Transmission Loss RW	ISO 717-1	DB	23	25
Loss Factor d	EN ISO 6721		0,0065	0,0072
Thermal Properties				
Thermal Resistance R	DIN 52612	m ² K/W	0,0042	0,0069
Heat Transition Coefficient U	DIN 4108	W/m ² K	5,78	5,65
Temperature Range		°C	-50 – +80	