

IBOND® (Architecture)

Aluminum Composite Panel

Panel Thickness	Standard	Unit	3mm	4mm	6mm
Thickness of Aluminium	DIN 1784	mm	0.5	0.5	0.5
Aluminum thickness deviation	DIN 1784	mm	±0.01	±0.01	±0.01
Weight		Kg/m ²	4.65	5.63	7.42
Tolerance in length	DIN 16927 / ISO 11833-1	mm	- 1 / +3	- 1/ +3	- 1/ +3
Tolerance in width	DIN 16927 / ISO 11833-1	mm	- 1 / +1.5	- 1 / +1.5	- 1 / +1.5
Tolerance in thickness	DIN 16927 / ISO 11833-1	mm	± 0.15	± 0.15	± 0.15
Horizontal flatness	DIN ISO 1101	mm	6	5	5
Longitudinal roughness	DIN ISO 1101	mm	7	6	6
Technical Properties					
Section Modulus W	DIN 53293	cm ³ /m	1.25	1.75	2.75
Rigidity (Poisson's ratio $\mu = 0.3$) E.J	DIN 53293	kNm ² /m	0.14	0.28	0.63
Alloy	EN 573-3	ENAW	1100		
Temper of Cover Sheets	EN 515		H16/H18		
Modulus of Elasticity	EN 1999 1-1	N/mm ²	70,000		
Tensile Strength of Aluminium	EN 485-2	N/mm ²	$R_m \geq 145$		
0.2% Proof Stress	EN 485-2	N/mm ²	$R_{p0.2} \geq 100$		
Elongation	EN 485-2	%	$A_{50} \geq 2$		
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			Fluorocarbon based (PVdF)		
Thickness of coating		μm	two coating: ≥ 26 , three coating: ≥ 32		
Gloss (initial value)	ECCA T2	%	30 - 80		
Pencil Hardness	ECCA T4		H		
Acoustical Properties					
Sound Absorption Factor α_s	ISO 354		0.05		
Sound Transmission Loss R_w	ISO 717-1	DB	25	26	28
Loss Factor d	EN ISO 6721		0.0072	0.0087	0.0138
Thermal Properties					
Thermal Resistance R	DIN 52612	m ² K/W	0.0069	0.0103	0.0172
Heat Transition Coefficient U	DIN 4108	W/m ² K	5.65	5.54	5.34
Temperature Range		°C	-50...+80		

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