

iBOND® (Architecture)

Aluminum Composite Panel

			0.5	0.5	
	DIN 1784		±0.01	±0.01	±0.01
Weight		Kg/m ²	4.65	5.63	7.42
Tolerance in length	DIN 16927 / ISO 11833-1		- 1 / +3	- 1 / +3	- 1 / +3
Tolerance in width	DIN 16927 / ISO 11833-1		- 1 / +1.5	- 1 / +1.5	- 1 / +1.5
Tolerance in thickness	DIN 16927 / ISO 11833-1		± 0.15	± 0.15	± 0.15
Horizontal flatness	DIN ISO 1101				
Longitudinal roughness	DIN ISO 1101				
Technical Properties					
Section Modulus W		cm ³ /m	1.25		2.75
Rigidity (Poisson's ratio $\mu = 0.3$) E.J	DIN 53293	kNm ² /m	0.14	0.28	0.63
	EN 573-3	ENAW	1100		
Temper of Cover Sheets	EN 515				
Modulus of Elasticity		N/mm ²	70,000		
Tensile Strength of Aluminium		N/mm ²	R _m ≥ 145		
0.2% Proof Stress	EN 485-2	N/mm ²	R _{p0.2} ≥ 100		
Elongation	EN 485-2	%	A ₅₀ ≥ 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			two coating: ≥26, three coating: ≥32		
Gloss (initial value)	ECCA T2	%	30 - 80		
Pencil Hardness	ECCAT4				
Acoustical Properties					
Sound Absorption Factor α_s	ISO 354		0.05		
Sound Transmission Loss R _w			25	26	28
Loss Factor d	EN ISO 6721		0.0072	0.0087	0.0138
Thermal Properties					
Thermal Resistance R	DIN 52612	m ² /KW	0.0069	0.0103	
		W/m ² K	5.65	5.54	
Temperature Range		°C	-50...+80		

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