Dotmar iBOND Aluminium Composite Panel

Brushed panel is made by special processing on the original aluminium base. This technique does not only exhibit the unique natural essential colour of the aluminium surface, but also gives a classical touch to the product. Mirror-faced panel is made by anodic oxidation of the aluminium surface to make the product surface as bright as a mirror. It's safer in application and easier to be processed into various shapes than glass materials are.

Key Benefits:

- Base material of aluminium panel: High strength aluminium coils
- PE core: Non-toxic low density polyethylene
- Surface coating: Special coating



Applications:

• The dual colour aluminium composite panel is more applicable in interior & exterior decorations and commercial image shows.

Delivery Program:

Thickness:	3mm to 6mm
Width:	1000-2000mm;
	1220mm,1250mm &1500mm are recommended
Length:	Max is up to 5800mm, 2440mm,
	3050mm & 4050mm are recommended.
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Thickness of aluminium sheet: 0.3 - 0.5mm

Panel Thickness	Standard	Unit	2mm	3mm	4mm	6mm
Thickness of Aluminium	DIN 1784	mm	0.3	0.3	0.3	0.3
Aluminium Thickness Deviation	DIN 1784	mm	±0.01	±0.01	±0.01	±0.01
Weight		Kg/m ²	2.92	3.85	4.76	6.75
Tolerance in Length	DIN 16927 / ISO11833-1	mm	-0 / +2	-0 / +2	-0 / +2	-0 / +2
Tolerance in Width	DIN 16927 / ISO11833-1	mm	-0 / +1.5	-0 / +1.5	-0 / +1.5	-0 / +1.5
Tolerance in Thickness	DIN 16927 / ISO11833-1	mm	± 0.15	± 0.10	± 0.10	± 0.15
Horizontal Flatness	DIN ISO 1101	mm	6	5	4	4
Longitudinal Roughness	DIN ISO 1101	mm	6	5	5	5
Technical Properties						
Section Modulus W	DIN 53293	cm³/m	1.01	1.25	1.75	2.75
Rigidity(Poisson's ratio μ =0.3) E	E.J DIN 53293	kNm²/m	0.67	0.14	0.28	0.63
Alloy	EN 573-3	ENAW	1100			
Temper of Cover Sheets	EN 515		H16/H18			
Modulus of Elasticity	EN 19991-1	N/mm ²	70,000			
Tensile Strength of Aluminium	EN 485-2	N/mm ²	R _m ≥145			
0.2% Proof Stress	EN 485-2	N/mm ²	$R_{p0.2} \ge 100$			
Elongation	EN 485-2	%	$A_{50} \ge 2$			
Linear Thermal Expansion	EN 1999 1-1	mm/m⁰C	2.4 at 100°C Temp difference			
0						
Core Belyethylene, Typ I D BE		a/am ³	0.025			
Surface		g/cm²	Coil Coatin	9		
			Elugragerhan based (BE)			
Thickness of Coating					>16	>16
Close (initial value)	ECCA T2	μι ι •/	20 100	210	210	210
Bonoil Hardnoss	ECCA T4	/0	20 - 100			
Ferici Flaturiess	LOCA 14		211			
Acoustical Properties						
Sound Absorption Factor á	ISO 354		0.05			
Sound Transmission Loss Rw	ISO 717-1	DB	23	25	26	28
Loss Factor d	EN ISO 6721		0.0062	0.0072	0.0087	0.0138
Thermal Properties						
Thermal Resistance R	DIN 52612	m²K/W	0.0036	0.0069	0.0103	0.0172
Heat Transition Coefficient U	DIN 4108	W/m ² K	5.98	5.65	5.54	534
Temperature Range		°C	-50+80			
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This specification provides typical data to the best of our knowledge at the time of publishing. Due to our inability to control conditions of use and application, we are unable to make any recommendations or suggestions. Dotmar EPP PTY assumes no liability for use of information presented herein.

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