



CBond Aluminium Composite Panels - Brushed Aluminium PVDF Coating Construction Grade

Panel Thickness	Standard	Unit	2mm	3mm	4mm	6mm
Thickness of Aluminium Layers Weight		mm	0.3			
Weight		Kg/m ²	3.38	4.56	5.74	8.1
Fabrication width		(mm)	1500	1 500	1 500	1 500
Technological values						
Section Modulus W	DIN 53293	cm ³ /m	0.51	0.81	1.11	1.71
Rigidity (Poisson's ratio $\mu = 0.3$) E.I	DIN 53293	kNcm ² /m	345	865	1620	3840
Alloy	EN 573-3	ENAW	1100	3003	3105	5005
Temper of Cover Sheets	EN 515		H18	H22	H24	H32
Modulus of Elasticity	GB/T 17748-2016	N/mm ²	$\geq 7.0 \times 10^4$	$\geq 7.0 \times 10^4$	$\geq 7.0 \times 10^4$	$\geq 7.0 \times 10^4$
Tensile Strength of cover sheets 0.2%	EN 485-2	N/mm ²	Rm \geq 145			
Proof Stress Elongation	EN 485-2	N/mm ²	Rp0.2 \geq 100			
Linear Thermal Expansion	EN 485-2	%	A50 \geq 2			
	GB/T 17748-2016	$^{\circ}\text{C}^{-1}$	2.4 at 100 $^{\circ}\text{C}$ Temp Difference			

Core

Light Density Polyethylene, LD-PE	g/cm ³	0.92-0.95
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Coating

	Polyester (PPG, Nippon, Valspar, Beckers)					
Thickness of coating	μm	≥ 17 to 21	≥ 17 to 21	≥ 17 to 21	≥ 17 to 21	≥ 17 to 21
Surface	Coil Coating.Fluorocarbon (e.g. PVDF)					
T-Bending	2T					
Gloss (initial value)	EN 13523-2	%		20%-95%		
Pencil Hardness	EN 13523-4			HB-F		
Temperature Range		$^{\circ}\text{C}$		-50 to + 80 $^{\circ}\text{C}$		

Warranty Period

Fluorocarbon Finish	10 years
Delamination	10 years

Fire Retardancy

	B2 is standard with option with extra cost for B1 or A2 or DIN 4102
ASTM E84	Class A
UL Listing	UL Components
CE Marking	Approved

All above information is considered as a guide line only. Buyers should independently test and determine the products' suitability. Longitudinal roughness, horizontal flatness and corner warpage should be tested on a horizontal surface only.

One Side Colour/ One Side Raw Primer. No print or vinyl application on the PVDF Coated Composite Panel

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