

**STRATUS BOND (0.15/0.21/0.3)**

Aluminium sandwich panel with compact polyethylene core. Double layer of polyester paint and protective film.

Available in 2 and 3 mm thickness and different finishes: white/natural, white/white, black/black, white/matt silver and brushed/brushed.

Maximum sheet sizes: 1500x3050, 2000x3050 y 1500x4050 mm.

TECHNICAL DATA			ADVERTISING/DIGITAL		
Panel thickness	Standard	Unit	3 mm	3 mm	3 mm
Aluminium thickness	DIN 1784	mm	0.15	0.21	0.3
Aluminium deflection thickness	DIN 1784	mm	±0.02	±0.02	±0.02
Weight		Kg/m <sup>2</sup>	3.68	3.95	4.76
Length tolerance	DIN 16927 / ISO 11833-1	mm	-0/+2	-0/+2	-0/+2
Width tolerance	DIN 16927 / ISO 11833-1	mm	-0/+1.5	-0/+1.5	-0/+1.5
Thickness tolerance	DIN 16927 / ISO 11833-1	mm	±0.10	± 0.10	± 0.10
Horizontal flatness	DIN ISO 1101	mm	4	3	3
Longitudinal roughness	DIN ISO 1101	mm	6	5	5
<b>Technical properties</b>					
Cross-section Modulus W	DIN 53293	cm <sup>3</sup> /m	1.73	1.68	1.55
Stiffness	DIN 5329	kNm <sup>2</sup> /m	0.06	0.08	0.16
Alloy	EN 573-3	ENAW		1100	
Protective film temperature	EN 573-3			H18	
Modulus of elasticity	EN 1999 1-1	N/mm <sup>2</sup>		70,000	
Aluminium tensile strength	EN 485-2	N/mm <sup>2</sup>		Rm ≥ 145	
0.2% tensile test	EN 485-2	N/mm <sup>2</sup>		Rp0.2 ≥ 115	
Elongation	EN 485-2	%		A50 ≥ 3	
Linear thermal expansion	EN 1999 1-1	mm/m/°C		2.4 at 100°C Temp difference	
<b>Core</b>					
Polyethylene, Typ LD-PE		g/cm <sup>3</sup>	1.05	1.05	0.935
<b>Surface</b>					
Lacquered				Fluorocarbon based (PE)	
Coating thickness		µm	≥17	≥17	≥17
Gloss (initial value)	ECCA T2	%		20-100	
Pencil hardness	ECCA T4			2H	
<b>Acoustic properties</b>					
Sound absorption	ISO 354			0.05	
Sound transmission loss	ISO 717-1	DB	23	25	26
Loss factor	EN ISO 6721		0.0062	0.0072	0.0072
<b>Thermal properties</b>					
Thermal resistance	DIN 52612	m <sup>2</sup> K/W	0.0036	0.0069	0.0069
Heat transition coefficient	DIN 4108	W/m <sup>2</sup> K	5.98	5.65	5.65
Temperature range		°C		-50...+80	

