

Alubond-Stone (FR - A2)

Panel Thickness	4 mm
Alloy Series	1xxx, 3xxx, 5xxx
Width	1000 mm, 1250mm, 1500 mm
Length	upto 6000 mm

*special sizes on request, min quantity 2000sqm (incl 1000mm width)

Dimension Tolerance

Thickness	± 0.05	0.5 mm
Weight	± 0.05	8 Kg/m ²
Standard Width	± 2	1250 mm
Panel thickness	± 0.03	4 mm

Mechanical Properties

			Alloy 1xxx,	Alloy 3xxx,	Alloy5xxx
Section Modulus(W)	DIN 53293	cm ³ /m	1.62	1.7	1.75
Rigidity (Poisson's ratio $\mu = 0,3$)	DIN 53294	KN cm ² /m	2300	2320	2400
Alloy	EN 573-3	.....	EN AW- 1100	EN AW- 3105	EN AW- 5005A (Al mg1)
Temper	EN 515	.....	H16/H18	H14/H16	H16/18
Modulus of Elasticity	EN 1999 1-1	N/mm ²		≥70000	
Tensile Strength of Aluminium	EN 485-2	N/mm ²	Rm ≥ 135	Rm ≥ 140	Rm ≥ 145
0.2% Proof Stress	EN 485-2	N/mm ²	Rpo ≥ 85	Rpo ≥ 90	Rpo ≥ 95
Elongation	EN 485-2	%	A ₅₀ ≥ 6	A ₅₀ ≥ 5	A ₅₀ ≥ 5
Linear Thermal Expansion	EN 1999 1-1	mm/m @100°C		2.4	

Thermal Properties

Thermal resistance R	ASTM C518	M2 K/W	0.007	0.009
Temperature resistance	ASTM C518	°C	-50....+80	

Core Properties

Core	EN +1:2007-13501 A1:2009 CLAUSE 8 & NFPA 285 /BS6853 UBC5-17	CLASS- A2,S1,d0 Passed	Mg (OH) ₂ Based polymeric bonded core
Surface Burning test	ASTM E84	.....	passed
Fire Behaviour	AS 1530 PART 3	.....	passed
Fire Behaviour	BS 476	Part 6 Class 0 & Part 7 Class 1	Passed

Surface Finish Properties

Type / Finish	PVDF / FEVE			
Gloss @60°C	ECCA T2	%	PVDF 30-45	FEVE 20-80
Pencil hardness	ECCA T4	.....	min HB	

Accoustical Properties

Sound absorbtion factor	ISO 354	.....	0.05	
Sound transmission Loss (Rw)	ASTM E90	dB	STC: 26	OITC:22