

## Alubond-Stone (FR- B1)

Panel Thickness	4 mm
Skin Thickness	0.5 mm
Weight	7 Kg / M <sup>2</sup>
Alloy Series	1xxx, 3xxx, 5xxx
Width	1250mm, 1500 mm
Length	upto 6000 mm

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

## Fire Behaviour Properties

Fire Behaviour	FR Classification	Section Number	Document Number	Testing Agency
BS 476 part 6&7	part 6 class 0 part 7 class 1	6&7	Certificate No : CF 5061	EXOVA WARRINGTON-UK
EN 13501-1	B, s1, d0	1	Certificate No : ME 5059	EXOVA WARRINGTON-UK
ASTM E 119	Min 1 hr 42 Min fire rating	-	Report No : 01.12694.307	SOUTH WEST RESEARCH INSTITUTE
DIN 4102-1	Class B1	Part 1	Report No : 2013-1400-2	EXOVA WARRINGTON-UK
NFPA 285	Assembly Meet The requirements / Passed	As per UAE civil defense code 4.2.6	Certificate No : WHI15 - 26553701	Intertek usa & Thomas Bell Wright International Consultant
ASTM E 84-12	Class A : Passed	As per UAE civil defense code 4.2.4 & 4.2.5	Certificate No : WHI15 - 26553702	Intertek usa & Thomas Bell Wright International Consultant

## Core Properties

Core	CLASS B	Mg (OH) <sub>2</sub> Based polymeric bonded core
------	---------	--

## Mechanical Properties

Section Modulus(W)	DIN 53293	cm <sup>3</sup> /m	1.62	1.7	1.75
Rigidity (Poisson's ratio $\mu = 0,3$ )	DIN 53294	KN cm <sup>2</sup> /m	2300	2320	2400
Aloy	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 <sup>2</sup>	≥70000		
Tensile Strength of Aluminium	EN 485-2	N/mm <sup>2</sup>	Rm ≥ 135	Rm ≥ 140	Rm ≥ 145
0.2% Proof Stress	EN 485-2	N/mm <sup>2</sup>	Rpo ≥ 85	Rpo ≥ 90	Rpo ≥ 95
Elongation	EN 485-2	%	A <sub>50</sub> ≥ 6	A <sub>50</sub> ≥ 5	A <sub>50</sub> ≥ 5
Linear Thermal Expansion	EN 1999 1-1	mm/m @100°C	2.4		

## Surface Finish Properties

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

## Acoustical Properties

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

## Thermal Properties

Thermal resistance R	ASTM C518	M2 K/W	0.03		
Temperature resistance	ASTM C518	°C	-50....+80		
Thermal Transition co-efficient ( h )	DIN 4108	W/M <sup>2</sup> k	5.34		