

ALUCOBOND TECHNICAL DATA SHEET

Alucobond Type			Alucobond PLUS			Alucobond A2			Alucobond PE			
Panel Thickness	Standard	Unit	3mm	4mm	6mm	3mm	4mm	6mm	3mm	4mm	6mm	
Aluminium skin thickness		mm	0.5									
Core			70% Mineral Filling			93% Mineral Filling			Virgin LDPE			
Weight		kg/m ²	5.9	7.6	10.8	5.9	7.6	10.8	4.5	5.5	7.3	
Section Modulus	Z	DIN 53293	cm ³ /m	1.25	1.75	2.75	1.25	1.75	2.75	1.25	1.75	2.75
Rigidity	EI	DIN 53293	kNcm ² /m	1250	2400	5900	1250	2400	5900	1250	2400	5900
Modulus of Elasticity	E	EN 1999 1.1	Mpa	70,000								
Alloy		EN 573.3	EN AW 5005A (AlMg1)									
Temper		EN 515	H22 / H42									
Tensile Strength		EN 485.2	MPa	R _m => 130								
0.2% Proof Stress		EN 485.2	MPa	R _{p0.2} => 90								
Elongation		EN 485.2	%	A ₅₀ => 5								
Linear Thermal Expansion		EN 1999 1.1	2.4mm/m at 100 ^o C temperature difference									
Finish			Coil Coated Fluoropolymer (PVDF or FEVE)									
Gloss		EN 13523.2	Finish Dependant - Standard = 30 - 40%									
Pencil Hardness		EN 13523.4	HB - F									

Acoustic Properties

Sound Absorption factor	α_s	ISO 354		0.05								
Sound Transmission Loss	R _w	EN ISO 140.3	dB	27	27	27	27	27	27	25	26	27
Loss Factor	d	EN ISO 6721					0.004	0.005		0.0072	0.0087	0.0138

Thermal Properties

Thermal Resistance	R	DIN 52612	m ² K/W	0.006	0.009	0.0151	0.002	0.003	0.005	0.0069	0.0103	0.0172
Thermal Conductivity	λ	DIN 52612	W/mK	0.33/mm thickness of core			1.00/mm thickness of core			0.29/mm thickness of core		
Heat Transition Coefficient	U	DIN 4108	W/m ² K	5.68	5.58	5.34	5.83	5.80	5.71	5.65	5.54	5.34
Temperature Resistance			°C	-50 up to +80								

Fire Behaviour

Australian Fire Classification			Cert. No. GM CM 3070 Type A and B Constructions Mechanical fixing								
			Type C Constructions Mechanical and tape fixing								
	AS ISO 9705		Group 1 Material			Group 1 Material			Group 3 Material		
	EN13501.1		B-s1-d0			A2-s1-d0					
NFPA 285		PASS									

Sheet Sizes

Widths: 1250mm & 1575mm held in stock. 1000mm, 1500mm and special widths 1750mm & 2050mm available as project order.

Note: 1750mm width requires minimum 2000m² order. 2050mm width requires 6000m² order and cannot be mixed with standard width colours.

Lengths: 2500mm, 3200mm & 4000mm held in stock. Other lengths up to 10,000mm available as project order.

Surface Finishes

- | | | | | |
|--------------------------|--------------------|---------------------|------------------|-----------------|
| 1. Standard Colour Range | 2. Spectra Colour | 3. Sparkling Effect | 4. Anodized Look | 5. Urban Design |
| 6. NaturAL | 7. NaturAL Finesse | 8. Wood Design | 9. Design Decor | 10. Terra |

High quality Fluoropolymer finishes (PVDF and/or FEVE) with optimum UV & weathering properties are used exclusively.

Non standard custom colours are available subject to minimum quantity requirements.

Solar Reflective Indices (SRI) and Light Reflective Values (LRV) for most of the above finishes are available upon request.

Environment, Health & Safety

During the life cycle of ALUCOBOND no substances containing CFC, VOC's are released. The core material does not contain any Nitrogen, Chlorine or Sulphur.

3A Composites were one of the first companies to develop its own environmental management systems which is regularly audited by independant auditors and is certified to EN ISO 14001

All Alucobond finishes are RoHS compliant and contain no Lead, Cadmium, Mercury or Chromium.

Recycling

Alucobond can be fully recycled, ie. Both the core material and aluminium skins can be recycled and reused for the production of new material.

MELBOURNE	SYDNEY	BRISBANE	PERTH	ADELAIDE
25 West Park Drive	29 Henderson Street	128 – 132 Mica Road	72 Bushland Ridge	57 Barnes Avenue
Derrimut VIC 3030	Turrella NSW 2205	Carole Park QLD 4300	Bibra Lake WA 6163	Marleston SA 5033
T. (03) 9394 3100	T. (02) 8525 6900	T. (07) 3718 2360	T. (08) 9494 0100	T. (08) 8348 6800
F. (03) 9394 3129	F. (02) 9556 6068	F. (07) 3718 2399	F. (08) 94940190	F. (08) 8445 8455