

ALUCOBOND TECHNICAL DATA SHEET

Alucobond Type			Alucobond Plus			Alucobond A2			
Panel Thickness	Standard	Unit	3mm	4mm	6mm	3mm	4mm	6mm	
Aluminium skin thickness		mm	0.05						
Core			70% Mineral Filling			93% Mineral Filling			
Weight		kg/m ²	5.9	7.6	10.8	5.9	7.6	10.8	
Section Modulus	Z	DIN 53293	cm ³ /m	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
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	Rm => 130					
0.2% Proof Stress		EN 485.2	MPa	Rp0.2 => 90					
Elongation		EN 485.2	%	A50 => 5					
Linear Thermal Expansion		EN 1999 1.1	2.4mm/m at 1000 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
Loss Factor	d	EN ISO 6721				0.004	0.005		

Thermal Properties

Thermal Resistance	R	DIN 52612	m ² K/W	0.006	0.009	0.0151	0.002	0.003	0.005
Thermal Conductivity	λ	DIN 52612	W/mK	0.33/mm thickness of core			1.00/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
Temperature Resistance			°C	-50 up to +80					

Fire Behaviour

Australian Fire Classification	ABC CodeMark Certification		Cert. No. GM CM 30070 Type A and B Constructions Mechanical fixing Type C Constructions Mechanical and tape fixing	
	AS ISO 9705		Group 1 Material	Group 1 Material
	EN13501.1		B-s1-d0	A2-s1-d0
	NFPA 285		PASS	
	BS-8414		Test data available	

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. Design Decor | 9. 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 independent 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 25 West Park Drive Derrimut VIC 3030 T. (03) 9394 3100 F. (03) 9394 3129 www.alucobond.com.au	SYDNEY 29 Henderson Street Turrella NSW 2205 T. (02) 8525 6900 F. (02) 9556 6068	BRISBANE 128 - 132 Mica Road Carole Park QLD 4300 T. (07) 3718 2360 F. (07) 3718 2399	PERTH 72 Bushland Ridge Bibra Lake WA 6163 T. (08) 9494 0100 F. (08) 94940190 info@alucobond.com.au	ADELAIDE 57 Barnes Avenue Marleston SA 5033 T. (08) 8348 6800 F. (08) 8445 8455 ABN 75 104 808 853
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