

ALUCOBOND TECHNICAL DATA SHEET

Alucobond Type			Alucobond PE			Alucobond PLUS			Alucobond A2			
Panel Thickness	Standard	Unit	3mm	4mm	6mm	3mm	4mm	6mm	3mm	4mm	6mm	
Aluminium skin thickness		mm	0.5									
Core			Virgin LDPE			70% Mineral Filling			93% Mineral Filling			
Weight		kg/m ²	4.5	5.5	7.3	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	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	25	26	27	27	27	27	27	27	27
Loss Factor	d	EN ISO 6721		0.0072	0.0087	0.0138				0.004	0.005	

Thermal Properties

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

Fire Behaviour

Australian Fire Classification			Cert. No. CMA - CM40022 Type C Construction Only Mechanical & adhesive fixing techniques permitted	Cert. No. CMA - CM40032 Type A & B Construction Mechanical Fixing Only	Cert. No. CMA - CM40059 Type A & B Construction Mechanical Fixing Only
				Type C Construction Mechanical & adhesive fixing techniques permitted.	Type C Construction Mechanical & adhesive fixing techniques permitted.
	AS ISO 9705			Group 3 Material SMOGRA 3.198 m ² /s ²	Group 1 Material SMOGRA 1.385 m ² /s ²
AS1530.3			Ignitibility = 0 Heat Evolved = 0	Flame Spread = 0 Smoke Developed = 0 - 1	

Sheet Sizes

Widths: 1250mm & 1575mm held in stock. 1000mm, 1500mm and special widths up to 2000mm available as project order.

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

Surface Finishes

- Standard Colour Range
- Spectra Colour
- Sparkling Effect
- Anodized Look
- NaturAL
- NaturAL Finesse
- Wood Design
- Design Decor

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.

Alucobond is an ECOSPECIFIER Verified Product and its use can contribute towards AGBC Green Star points.

<http://www.ecospecifier.com.au/products/product-summary.aspx?prodid=3644>

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