ALUCOBOND® ALUCOBOND® plus

1978



1996

1111



years of excellence

1998

Pioneer & World Leader in Aluminium Composite Materials

Alcan Composites' ALUCOBOND® celebrates its 40th anniversary in 2009. In the years since its inception, the company has gained a solid reputation as the world leading manufacturer of aluminium composite materials by initiating creativity along with cost efficiency and design solutions. The company has been able to provide its customers with high quality products and superior service.



THE WORLD LEADER IN ALUMINIUM COMPOSITE MATERIALS

2008

ALUCOBOND[®] ALUCOBOND[®] plus

Product Information

 ${\sf ALUCOBOND}^{\circledast}$ aluminium composite panels consist of a polyethylene core sandwiched between two sheets of aluminium.

 ${\sf ALUCOBOND}^{\$}{\sf plus}$ aluminium composite panels consist of a mineral filled core sandwiched between two sheets of aluminium.

	Available	e Sizes							
	ALUCOBOND®			ALUCOBOND [®] plus					
	Thickness	Standard: 4 mm For special application 3 mm, 6 mm		Thicknes	s Standa For spe	rd: 4 mm ecial applicatio	on 3 mm		
	Width	Standard: 1000,1250,1 Special: min. 850 mn max. 1575 n	500 mm 1 1m	Width Standard: 1250, 15 Special: min. 100 max. 15		rd: 1250, 150 I: min. 1000 max. 1575	0 mm mm mm		
	Length	To customer's specific max. 8000 mm	ation	Length To cus max. 8		tomer's specification 6000 mm			
	Technical Data								
	Panel-Thickness:				3mm	4mm	6mm		
	Thickness of Aluminium Cover Sheets		ets [r	mm]	0.50	0.50	0.50		
	Weight ALUCOBOND®		[}	kg/m²]	4.5	5.5	7.3		
ALUCOBOND®plus		[}	kg/m²]	6.0	7.6	N.A.			
	Technical F	nical Properties:							
	Section Mod	dulus	Ζ [σ	cm³/m]	1.25	1.75	2.75		
Rigidity			EI [ŀ	Ncm ² /m1	1250	2400	5900		

Linear Thermal Expansion 2.4 mm/m at 100.C C temperature difference **Acoustical Properties:** 0.05 Sound Absorption Factor 0.05 0.05 α Airborne Sound Insulation Index R [dB] 25 26 27 Loss Factor 0.0072 0.0087 0.0138 d **Fire Behaviour**

3xxx or 5xxx series

-50.C to +80.C

Temperature Resistance

Alloy

Country	Test according to	Results / Classification			
Australia	AS1530, part 3 Ignitability Heat evolved Spread of flame Smoke developed	Indicative results: Index 0 Index 0 Index 0 Index 0			
Malaysia	Approved for usage for Buildings less than 18 metres high. Approved for all external cladding applications as per BS 476. Part 6 & Pa				

ALUCOBOND[®]plus

 $\label{eq:loss} ALUCOBOND^{\$} plus has been developed exclusively to meet Asian and international standards for fire regulations in architectural applications.$

Country	Test according to	Results / Classification			
EU	EN 13501-1	Class B, s1, d0			
British Standard	BS 476, Part 6 BS 476, Part 7	Index I≤12 i≤6 Class 1			
United Kingdom	meets therefore Class 0 (National Building Regulations)				
China	GB8624-2006	Class B s1, d0, t0			
Malaysia	Approved for external wall cladding for any type of building without r				
Singapore	Approved for external wall cladding for any type of building without restriction in height (test according to NFPA 285) PSB tested, approved and listed				
USA	UBC 8-1 (ASTM E84)	Class I			
	NFPA 285 & UBC 26-9 (Intermediate Scale Multi-story Test)	passed			

For more details in the correct application and possible limitations of these systems request for a full set of ALUCOBOND[®] data sheets or consult our nearest technical advisor for advice.

ALCAN ALUCOBOND (FAR EAST) PTE LTD

73 Bukit Timah Road #06-01 Rex House, Singapore 229832 Telephone: +65 6501 1160 Fax: +65 6501 1165 E-mail: alucobond.ap@alcan.com Website: www.alucobond.com.sg



Surface Finishes

Fluorocarbon (PVDF) coating

The coating is applied to the aluminium coil prior to lamination into a composite panel, using a continuous coil coating process which is based on the latest technology. The multiple layers of coating are individually baked at temperatures between 200-260°C. The quality of the coating is tested according to latest standards.

Fluorocarbon (PVDF) coating system combines good formability with excellent surface durability. They are extremely resistant against weathering, strong solar radiation and pollution attack.

For exterior application, ALUCOBOND[®] is available in many specially selected standard colours (solid and metallic), naturAL, timberAl, anodised and spectra. For details, refer to the ALUCOBOND[®] colour charts. Custom colours are available on request.

Protective Peel-off foil

The finished surface is factory protected with a self-adhesive peel-off foil, tested to withstand at least 6 months exposure to local weather condition without losing the original peel-off characteristfc or causing stains or other damages.

Flatness

With a standard gloss of approx. 30-40% acc. to Gardner Scale, the panel surface taken individually shall not have any irregularities such as oil canning, waves, buckles and other imperfections when viewed from any position but not less than at an angle of 15 degrees to the true plane of the panel, with natural lighting of incident of not less than the same angle.

Storage

ALUCOBOND[®] should be stored on pallets or shelves. The stacking height should not exceed 2m. Ensure dry storage.

Cleaning and maintenance

The frequency of cleaning and the choice of a suitable cleaning agent depends largely on the location of the building and the condition of the panel surface. The cleaning can be carried out with water and sponge or a soft brush. In case of more severe soiling add a neutral detergent.

Examples of Fixing Methods



riveted system



tray panel screw fixed



tray panel suspended on pins

