

Production Description

gobond Aluminium Composite Panel is a decorative material used ever increasingly by developers, designers and architects world wide for various applications. The advantages of using this material over conventional material like stone, tiles and paint are far too many.

gobond Aluminium Composite Panel consists of a Polyethylene core sandwiched between two aluminum sheets. These Panels are very versatile and can be used in many applications. The entire panel consists of 3 main layers. The Top Aluminium Sheet is coated with either Polyester or PVDF Paint. The Core is either Normal Polyethylene Based or a

FR (Fire-Resistant) Core which is specially treated for fire resistance. The Bottom Aluminium Sheet comes in either Mill Finish or if customers require we can provide a thin layer of Polyester Paint coat with (6~8um) backside paint.

Panel Physical Properties

PROPERTY	MEASUREMENT
Panel Thickness	2 mm, 3 mm, 4 mm, 5 mm, 6 mm
Aluminum Thickness	0.10 mm, 0.20 mm, 0.30 mm, 0.40 mm, 0.50 mm
Standard Panel Size	1250 x 2500 mm, 1500 x 3050 mm, 2000 x 3050 mm
Customs Panel Size	Maximum Width: 2000 mm, Maximum Length: 6000 mm
Panel Weight	2.7 kg/m ² (2 mm/0.18 mm) 3.6 kg/m ² (3 mm/0.18 mm) 4.1 kg/m ² (3 mm/0.30 mm) 5.7 kg/m ² (4 mm/0.50 mm) 6.7 kg/m ² (5 mm/0.50 mm) 7.5 kg/m ² (6 mm/0.50 mm)

Panel Tolerances

Width	+/-2 mm
Length	+/-3 mm
Thickness	+/-0.2 mm
Diagonals Windage	Less than 3 mm
Edge Wave	Less than 1 mm/m
Warpage	Less than 3 mm/m

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Mechanical Properties

PROPERTY	3mm	4mm
Unit Weight	3.8~4.1kg/m ²	4.9~5.8kg/m ²
Bending Strength	83MPa	108MPa
Bending Elasticity Module	2.2 x 10 ⁴ MPa	2.83 x 10 ⁴ MPa
Penetrating Resistance	5.5Kn	12Kn
Shear Strength	22Mpa	30Mpa
180 Peel Strength	7N/mm	10.4N/mm
Thermal Expansion	1.60 x 10 ⁻⁵ °C	1.60 x 10 ⁻⁵ °C
Temperature Resistance	109 °C	108 °C

Acoustic Properties

PROPERTY	Result
Transmission Loss (100HZ TO 5KHZ)	29dB

Coating Properties

PROPERTY	PVDF	Polyester
Coating Thickness	Min 25 um	Min 16 um
Pencil Hardness	2H	3H
Coating Flexibility	2T	2T
Adhesion	Grade 1 Circling Grade 0 by Cross Cutting	Grade 1 Circling Grade 0 by Cross Cutting
Impact Resistance	50kg/cm, no coating remove No aluminum crack	50kg/cm, no coating remove No aluminum crack
Washing and Brushing	>10000 no change	>10000 no change
Aberration ≤3.0	1.4	N/A
Chalking Grade	Grade 1	N/A
Other aging properties	Grade 0	N/A

Fire Behavior

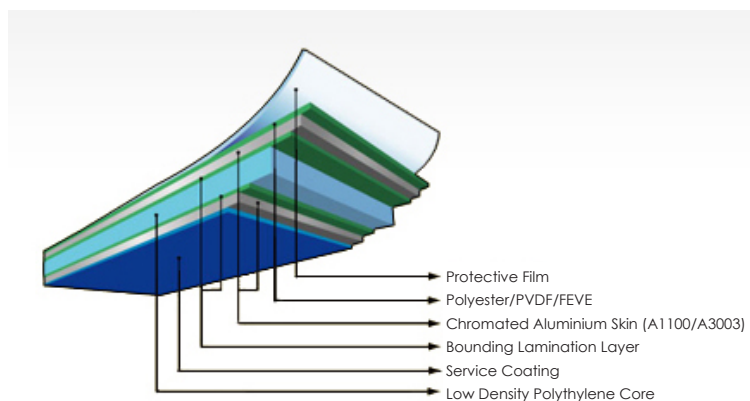
PROPERTY	Result
DIN4102	B 2

PROPERTY	Result
Metal Group Number	Group 3
Average Specific extinction area	305.9 m ² /kg

In accordance with specification A2.4 of the Building Code of Australia
 Refer to Specification C1.10A section 3(c) of the Building Code of Australia
 Data from CSIRO Manufacturing & Infrastructure Technology as per AS3837

Quality Assurance

goBOND® Aluminum Composite Panels are manufactured in accordance with Management systems: ISO9001, ISO14001, ISO18001. ASTM, CE, BS standard.



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