

TECHNICAL DATA

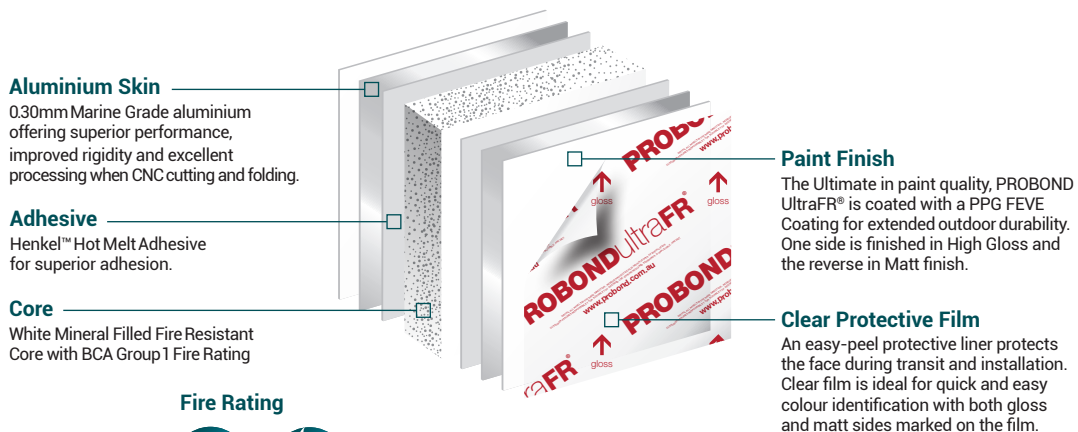
PROBOND UltraFR®

PROBOND UltraFR® is one of the only Fire Resistant Signage Grade panels in the world and is designed for where a fire resistant panel with a Group1 BCA Classification is required for signage applications.

The mineral core is designed to resist burning under extreme fire conditions and the external aluminium has a PPG FEVE Coating for extended outdoor durability designed to withstand the harsh Australian UV conditions. It is the highest standard of panel for all signage applications.

PROBOND UltraFR® has a total thickness of 3mm and an aluminium skin thickness of 0.3mm. It is suitable for folding, grooving and CNC routing and can be guillotine cut or sawn using standard aluminium blades.

PROBOND UltraFR® is available in a wide range of colours and surface finishes* and is extremely flat and rigid. It is recommended for exterior and interior flat face signage, shop fitouts and all display applications particularly where fire resistant properties are required.



Fire Rating

PROBOND UltraFR - Properties

Panel Thickness (mm)	3mm
Aluminium Thickness (mm)	0.30mm
Weight (kg/m ²)	5.0kg
Sound Absorption	0.05
Sound Attenuation	24
Water Absorption % by Volume	0.01
Thermal Performance R Values	0.008
Core Composition	Magnesium Hydroxide (Mg(OH) ₂) - Fire Resistant
Fire Performance*	Group 1 according to AS ISO 9705:2003
Tensile Strength of Aluminium Layers	38.3 MPa
Bending Strength	> 60 MPa
Bending Elastic Modulus	> 1.5 x 10 ⁴ MPa
Penetration Resistance	> 5.0kN
Shearing Strength	> 20.0MPa
Standard Sizes (mm)	2440mmX1220mm, 3050mmX1500mm, 4000mmX1500mm

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PROBOND[®]ultraFR[®]

Dimensional tolerances

Panel Thickness (mm)	3mm
Width (mm)	-0 +2 (+/- 0.2)
Length (mm)	-0 +3 (+/- 0.2)
Diagonal	-0 +5 (+/- 0.2)
Thermal Expansion	2.4mm/m @100°C temp difference
Aluminium Thickness	0.30 mm

Surface Properties

Paint Thickness (microns)	26±1µm
Pencil Hardness	2H
Toughness of Coating	≤ 2T
Temperature Resistance	- 50°C - 80°C
Impact Strength (kg/CM2)	50kg/cm2. No crack
Boiling Water Resistance	Boiling for 2 hours without change
Acid Resistance	Immerse surface with 2%HCL(v/v) for 24H without change
Alkali Resistance	Immerse surface with 2%NaOH(m/m) for 24H without change
Oil Resistance	Immerse surface with 20# engine oil for 24H without change
Solvent Resistance	Clean 100 times with Methyl Ethyl Ketone (MEK) without change
Peel Strength	7.0 N/mm

Recyclability and Recycling Service

All PROBOND[®] Architectural Aluminium Composite Panel are fully recyclable.

The aluminium skins and core material can be fully recycled and reused in the production of new materials.

With a commitment to the environment, PROBOND[®] Architectural conducts a complete recycling program and receives Aluminium Composite Panel waste and off-cuts for the purposes of recycling.

Environment and Health and Safety

During the lifecycle of PROBOND[®] Aluminium Composite Panel no substances containing CFC, VOCs are released.

The mineral filled core does not contain Chlorine, Nitrogen or Sulphur.

All finishes used in the production of PROBOND[®] Aluminium Composite Panel are RoHS compliant and do not contain Lead, Cadmium, Chromium or Mercury.

Published information concerning PROBOND products is based upon research which the company believes to be reliable but such information does not constitute a warranty. Because of the variety of possible uses for PROBOND products and the continuing development of new uses, the purchaser should carefully consider the fitness and performance of the product for each intended use and the purchaser assumes all risks in connection with such use. Seller shall not be liable for damages in excess of the purchase price of the product of for incidental or consequential damages.

All specifications subject to change without prior notice.