

## TECHNICAL DATA

# PROBOND<sup>®</sup>ultra<sup>®</sup> RAPTOR BLACK

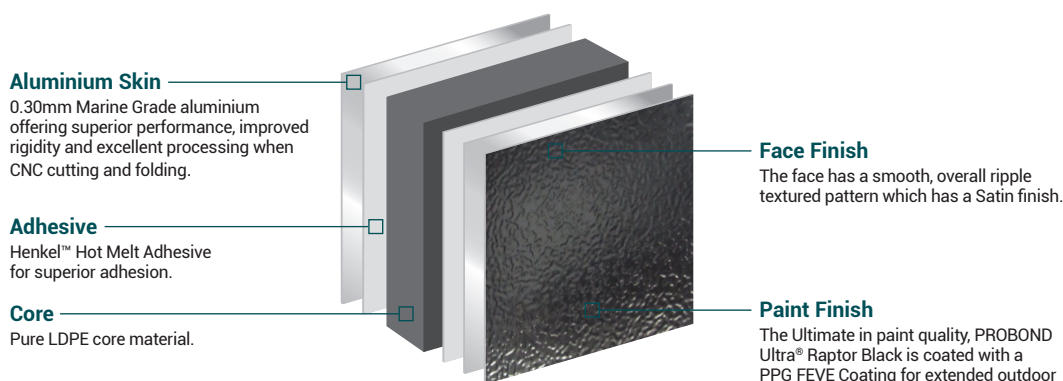
PROBOND Ultra<sup>®</sup> Raptor Black is the ultimate aluminium composite panel and is suitable for high quality long-lasting cladding details in mobile situations. It is particularly suited for use as stoneguard protection, the textured surface allows for retouching with minimum visual impact.

Also suitable for industrial situations, PROBOND Ultra<sup>®</sup> Raptor Black offers a stylish finish in typically punishing environments.

This unique panel has a PPG FEVE Coating for extended outdoor durability designed to withstand the harsh Australian UV conditions.

PROBOND Ultra<sup>®</sup> Raptor Black is the first choice for high quality long-term use.

\* Not suitable for horizontal applications or complete cladding.



### PROBOND Ultra Raptor Black - Properties

Panel Thickness (mm)	3mm
Aluminium Thickness (mm)	0.30mm
Weight (kg/m <sup>2</sup> )	4.5kg
Sound Absorption	0.05
Sound Attenuation	24
Water Absorption % by Volume	0.01
Thermal Performance R Values	0.008
Core Composition	LDPE
Tensile Strength of Aluminium Layers	39.5 MPa
Bending Strength	> 60 MPa
Bending Elastic Modulus	> 1.5 x 10 <sup>4</sup> MPa
Penetration Resistance	> 5.0kN
Shearing Strength	> 20.0MPa
Standard Sizes (mm)	2440mm X 1220mm, 3660mm X 1220mm

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### 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)	25±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	7.5 N/mm

### Recyclability and Recycling Service

All PROBOND<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> Aluminium Composite Panel no substances containing CFC, VOCs are released.

All finishes used in the production of PROBOND<sup>®</sup> 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.

PAGE 2/2 - MARCH 2019