



## Typical Dibond PE Specification

Dibond PE Aluminium Composite Material (ACM) as manufactured by 3A Composites GmbH shall be 2mm/3mm/4mm/6mm thick and consist of 2 layers of 0.3mm thick aluminium sandwiching a core containing UV stabilized virgin low density polyethylene.

The aluminium skins shall be of alloy AlMg 1 (EN AW 5005 nearest equivalent) having a minimum tensile strength of 145 MPa and 0.2% proof stress of 110 MPa.

Aluminium skins of reduced corrosion resistance produced from 3000 series or 1100 series alloys are not acceptable.

Core materials containing re used core material, which could contain other impurities proven to be detrimental to the integrity and long term performance of laminated materials shall not be used.

The face sheet of aluminium shall be finished in a factory applied modified Polyester coil coating in accordance with EN13523, ECCA Quality Label and Voluntary Specification AAMA 2605-11

Rear face aluminium sheet to be left in chemically cleaned mill finish condition unless noted otherwise.

Front face sheet, shall be factory pre finished in colour or finish selected from the manufacturers Standard Dibond Colour Range.

Other available finishes from the Specialties range of finishes include:

- Butler Finish Colour Range
- Mirror Range
- Décor Wood Finishes
- Structure Finish Range
- Anodised Finish Range

Non standard colours or finishes to customer's selection will be subject to minimum order quantities.

Factory applied coil coatings shall be protected by strippable PE foil, and should be removed immediately upon installation.

The factory applied finish shall be suitable for application of silk screening, graphic lamination or overspraying with polyurethane or acrylic spray finishes without the use of any pretreatments, primers or undercoats.

All 3<sup>rd</sup> party applied finishes shall be in accordance with their manufacturer's recommendations.

### Dibond PE shall be have been tested to the following Australian & International Fire Standards.

Test	Description	Result
AS 1530.3	Simultaneous determination of Ignitability, Flame Propagation, Heat Release and Smoke Release"	Ignitability Index 0 Flame Propagation 0 Heat Release 0 Smoke Release 0-1
EN1305.1	Classification Of Reaction To Fire Performance	D
DIN 4102.1	Fire Behaviour Of Building Materials & Elements	B2

Dibond PE panels, prior to fabrication shall be stored horizontally on a dry, flat, level surface and protected from damage. Fabrication techniques as recommended by 3A Composites and Alucobond Architectural shall be strictly adhered to. These include cutting, grooving, folding, bending, rolling and edge treatment. Information relating to these processes and other requirements can be obtained from Alucobond Architectural.

Dibond PE to be supplied with a single 5 year warranty covering manufacturing defects, delamination and factory applied paint performance and shall be supplied by the panel manufacturer, 3A Composites GmbH.

All warranties for 3<sup>rd</sup> party applied finishes must be obtained separately from their respective manufacturers or applicators.

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