



SPECIFICATION TEMPLATE

FUNDERMAX Max Exterior F-Quality High Pressure Laminate Panel

1. SCOPE OF WORK

The scope of work includes the design, supply, fabrication and installation of FUNDERMAX cladding material, complete with all necessary sub-structures, anchors, hardware and fittings to provide a total installation from the structure out.

2. MATERIAL AND FINISHES

Cladding Material:

FUNDERMAX Max Exterior F-Quality High Pressure Laminate cladding material supplied by Blue Chip Group Pty Ltd (Ph: 1300 945 123) shall be duromer high-pressure laminates (HPL) produced in accordance with EN 438-6 Type EDF with double-hardened acrylic PUR resins. Produced in lamination presses under great pressure and high temperature the double-hardened acrylic PUR resins provide extremely effective weather protection that is particularly suitable for long-lasting balconies and façade claddings. The material shall be flame-retardant according to Fire Test EN 13501-1, B-s2, d0.

Colour Selection:

Refer to exterior finishes schedule.

(Select colour code/s from the 'Colour Chart' tab at the below link)

<http://www.bluechipgroup.net.au/natural-cladding-perth/fundermax-perth.html>

Material Properties:

As a standard, the Max Exterior panels come printed on both sides. The core contains phosphate based flame-retardant which achieves 0 for spread-of-flame when tested to AS 1530.3 and the surface is lightfast thanks to the double-hardened resin making it extremely weather resistant.

Panel Thickness & Weight:

6mm	8mm	10mm	12mm
8.7 kg/m ²	11.6 kg/m ²	14.5 kg/m ²	17.4 kg/m ²

Fire Properties:

Australia	AS 1530.3 - Ignitability - Spread of flame - Heat evolved - Smoke developed	13 0 0 4
	AS 3837 Average specific extinction area	Group 3 15.4 m ² /Kg
Europe	EN13501-1	B-s2, d0
Germany	DIN 4102	B1 for 6 - 10mm
France	NFP 92501	M1 for 2 - 10mm
Spain	UNE 23727-90	M1 for 6 - 10mm
USA	ASTM E84-15 - Classification - Flame Spread (FSI) - Smoke Developed (SDI)	A 15 70



Mechanical Properties:

Apparent density	EN ISO 1183-1	g/cm ³	≥ 1.35
Flexural strength	EN ISO 178	MPa	≥ 80
Modulus of elasticity	EN ISO 178	MPa	≥ 9.000
Coefficient of thermal expansion	DIN 52328	1/K	18 x 10 ⁻⁶
Thermal conductivity		W/mK	0.3
Water vapour diffusion resistance			ca. 17.200 μ
Artificial weathering	EN ISO 4892-2 3000 h	EN 20105-A02 greyscale	4-5

Tolerances in accordance with EN 438-6, 5.3:

Thickness 6mm Panel	±0.4mm
Thickness 8mm Panel	±0.5mm
Length	± 10mm
Width	± 10mm

3. FABRICATION

Technical Manual:

The panels shall be fabricated and installed in accordance with the most recent version of the FUNDERMAX Technical Documentation which is available online at www.bluechipgroup.net.au or by emailing sales@bluechipgroup.net.au or by calling **1300 945 123**.

Shop Drawings:

Prior to the commencement of fabrication, the approved fabricator shall supply shop drawings for approval. Shop drawings shall indicate all panel and joint layouts and include sectional details.

Fixings:

Fasteners, including concealed screws, nuts, bolts and other items required for connecting aluminium to aluminium or aluminium to steel shall be in accordance with AS 3566.2 and of a type to suit its application and exposure conditions.

- Class 1/2: Internal applications.
- Class 3: External applications, moderate industrial and marine applications.
- Class 4: Severe marine applications

All fixing anchors, brackets and similar attachments used in the erections, shall be of aluminium, non-magnetic stainless steel, zinc coated steel, or hot dip zinc galvanised steel.

Dissimilar Materials:

Where two surfaces of dissimilar material come into contact, such surfaces shall be separated with a layer of PVC or Polyethylene tape or powder-coat finish.

Warranty:

FUNDERMAX shall be covered by a manufacturer's warranty for a minimum period of 10 years. All work to be carried out in accordance with the manufacturer's recommendations and installation details. The warranty is subject to the cladding system being fabricated and installed by a trained and approved installer with a minimum 5 years' experience.

Product Life Expectancy: 33+ years.



4. INSTALLATION

Installation Details:

The panels shall be fabricated and installed in accordance with the most recent version of the FUNDERMAX Installation Details which are available online at www.bluechipgroup.net.au or by emailing sales@bluechipgroup.net.au or by calling **1300 945 123**. (Only PDF installation details are available online. For CAD/DWG installation details email or call as above).

General Guidelines:

All fixing and joint details shall be designed to provide for the expected thermal and structural movements. Apply a suitable weather seal gasket to all vertical panel joints and a horizontal backing strip to all horizontal joints. Use a suitable sealant for the corners, horizontal joints and other areas as required to ensure weatherproofing. Ensure adequate spacing at the top and bottom of the façade wall to allow required ventilation. All component parts shall be installed level, true to line with uniform joints and reveals.

5. SYSTEM COMPONENTS

Insulated Façade System - OPTIONAL:

For an optional exterior insulated façade system use BICEP façade system along with IROCK non-combustible insulation to achieve an engineered exterior insulation zone.



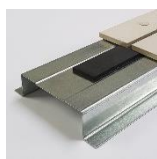
Sarking:

In climate zones 1-3, sarking shall be FIRESpan DTS non-combustible vapour barrier and in climate zones 4-8, sarking shall be FIRESpan Class 4 vapour permeable membrane, as per the requirements of NCC 2022 clause F8D3. Install and tape sarking in accordance with AS 4200.2 behind all cladding areas for DTS weatherproofing compliance as per NCC 2022 clause F3D3.



Sub-framing System:

The sub-framing system shall be STUDTEK steel top-hat Façade System attached to the main structure (or BICEP Façade System) in a manner to ensure all applied loadings to the cladding is transferred back to the main structure. Spacing of top hat members shall be determined according to applied loads and deflection limitations for any given project. Top-hat centres shall be maximum 600mm or as required to adequately support the cladding system.





Specialist Tools:

All fabrication and installation of FUNDERMAX shall be carried out using proprietary specialist tools supplied by Blue Chip Group Pty Ltd and used in strict accordance with manufacturer's recommendations and relevant OH&S precautions.



Rivets & Screws for Visible Mechanical Fixing:

Shall be proprietary COLOURFIX fixing systems supplied by Blue Chip Group Pty Ltd and used strictly in accordance with manufacturer's recommendations along with relevant specialist tools.



Rivets for Hidden Mechanical Fixing:

Shall be proprietary TUF-S hidden rivet system supplied by Blue Chip Group Pty Ltd and used in combination with a suitable hanger and rail system and relevant specialist tools all in accordance with manufacturer's recommendations and relevant project specific engineering.



Adhesive Fixing System (Internal Only):

Shall be the SIKATACK system supplied by Blue Chip Group Pty Ltd and used strictly in accordance with manufacturer's recommendations for preparation and application.

