



SPECIFICATION TEMPLATE

ULTRASURE Non-combustible Prefinished Solid Aluminium Panel

1. SCOPE OF WORK

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

2. MATERIAL AND FINISHES

Cladding Material:

Aluminium cladding material shall be supplied by Blue Chip Group Pty Ltd (Ph: 1300 945 123) comprising of 3mm thick solid pre-finished aluminium cladding panels which are minimum 3003 H14 aluminium alloy.

****NO ALTERNATIVE MATERIALS WILL BE ACCEPTED FOR THIS PROJECT****

Colour Selection:

Refer to exterior finishes schedule.

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

[ULTRASURE Non-combustible Prefinished Solid Aluminium Panel](#)

Fire Properties:

Manufactured by Blue Chip Group Pty Ltd; ULTRASURE is a DTS Non-Combustible product in accordance with the NCC 2022 clause C2D10(6)(e) when tested to AS 1530.1 and AS 1530.3.

ULTRASURE			
TEST STANDARD	RESULT		
AS 1530.1	PASS (Deemed 'Non-combustible')		
AS 1530.3	PASS	Ignitability Index	0
	PASS	Heat Evolved	0
	PASS	Spread of Flame	0
	PASS	Smoke Developed	0-1

Applied Finish:

The external panel surface shall be factory prefinished by the manufacturer with a Fluoropolymer coating of either PVDF or FEVE or combination of both applied through a continuous coil coating process. The coated surface shall meet or exceed the minimum requirements of: AAMA 2605 -11 "Voluntary Specifications, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminium Extrusions and Panels" or EN13523 "Coil Coated Metals – Test Methods" Application of the Fluoropolymer coating system by means of spray coating before or after forming and shaping of the cladding elements shall not be permitted.

Protective Peel Off Foil:

The finished surface shall be factory protected with a self-adhesive UV stabilised peel-off foil to protect the applied finish during fabrication, delivery and installation processes and shall not be removed until panels have been installed.

Colour-matched Fixings:

Shall be EUROFIX colour-matched screws supplied by Blue Chip Group Pty Ltd. The screws shall be installed using fixed and floating locations as per ULTRASURE Install Details.



3. FABRICATION

Technical Manual:

The panels shall be fabricated and installed in accordance with the most recent version of the ULTRASURE Technical Manual 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.

Stiffeners:

If stiffening of the panel is required, a minimum 40 x 20 x 3mm RHS stiffener shall be bonded to the reverse side of the panel using double-sided tape such as TESA 7044 ACXplus applied as per the manufacturer's specification and recommendations. The ends of the stiffener shall be mechanically fastened to the panel sub-frame or panel returns if panels are break-pressed.

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

Pop rivets used for fastening cassette return legs to aluminium ULTRAZED support profiles shall be aluminium and of suitable size for the use intended. 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.

Factory Fabrication:

All cladding panels shall be factory fabricated and assembled in compliance with the manufacturer's Data Sheets and to the best standard of workmanship under experienced factory supervision and control. All panels shall be cut and routed using CNC equipment and tools recommended and approved by the panel manufacturer.

Important Note:

The common v-groove 'route & return' cassette-fix system with offset z-angles which is widely used for ACP and aluminium core panels is not recommended for **ULTRASURE or any other brand of SOLID aluminium panel**. This is due to the high risk of score-fractures at the folds causing the panels to crack resulting in structural failure and water ingress issues.

Panel Marking:

Each panel shall be marked on the reverse side for easy identification of panel size and location. Under no circumstances should any self-adhesive labels, tapes or marker pens be applied to the applied finish or to the protective peel off film.



Warranty:

ULTRASURE 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 manufacturer trained and approved installer with a minimum 5 years' experience.

4. INSTALLATION

Installation Details:

The panels shall be fabricated and installed in accordance with the most recent version of the ULTRASURE 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:

Panels shall be stored on site in vertical position, face-to-face resp. back-to-back, with adequate protection to prevent scratches and dents. Any component parts which are observed to be defective in any way, including warped, bowed, dented, abraded and broken members must not be installed.

No cutting, trimming, welding or brazing of any component parts during erection, in any manner which would damage the finish, decrease the strength or result in a visual imperfection or failure in performance shall be executed during erection.

Component parts which require alteration shall be returned to shop for fabrication, if necessary, replaced with new parts. 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 insulated façade system use BICEP façade brackets and support profiles with IROCK non-combustible insulation to achieve an engineered acoustic and thermal barrier.



Sarking:

The sarking shall be ULTRAPERM vapour permeable membrane which is; deemed-to-satisfy 'non-combustible' as per NCC 2022 Clause C2D10(6)(f), is AS 4200.1 compliant and classified as a 'water barrier' as per NCC 2022 Clauses F3D3 and F8D3(1), is classified as 'class 4 vapour permeable' for compliant use in all climate zones 1-8 as per NCC 2022 Clauses F8P1 and F8D3(2), and is installed in accordance with AS 4200.2 for deemed-to-satisfy weatherproofing.





Sub-framing System:

The sub-framing system shall be STUDTEK steel top-hats 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. Size and 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 installed in a matrix layout to provide full perimeter support to each panel as required to adequately support the cladding system.



Colour-matched Screws:

Shall be EUROFIX colour-matched screws supplied by Blue Chip Group Pty Ltd. The screws shall be installed using fixed and floating locations as per ULTRASURE Install Details.



Panel Joint Sealant:

Panel joints are to be sealed with PROLASTIK NC silicone sealant supplied by Blue Chip Group Pty Ltd and installed over closed cell foam backing rod to manufacturer's specifications.



Stiffeners & Tape (Break-press Application Only):

As a minimum, the stiffeners shall be ULTRAFIX 40 x 20 x 3mm RHS (rectangle hollow section) extruded aluminium alloy AA 6063-T5 supplied by Blue Chip Group Pty Ltd. The stiffeners are to be fixed to the back of the ULTRACORE IQ panel using two continuous strips of 12mm wide TESA 7044 ACXplus double-sided tape and a suitable structural adhesive. All stiffeners shall be mechanically fixed to the cassette-fix panel returns at each end in accordance with the manufacturer's install details. Tapes should be applied in accordance with all tape manufacturer's guidelines for preparation and application.

