



## SPECIFICATION TEMPLATE

### ULTRANAMEL Vitreous Enamel Panel

#### 1. SCOPE OF WORK

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

#### 2. MATERIAL AND FINISHES

##### Cladding Material:

The cladding shall be ULTRANAMEL supplied by Blue Chip Group Pty Ltd (Ph: 1300 945 123) comprising of a 1.5mm decarbonised steel face-skin bonded to a 12mm aluminium honeycomb supporting panel with 0.5mm steel backing sheet. The panels shall be finished with minimum 250um of baked vitreous enamel coating comprising of base coat and coloured top-coats to match the selected colour as per approved control samples.

**\*\*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)

[ULTRANAMEL Vitreous Enamel Panel](#)

##### Deemed-to Satisfy Non-combustible:

ULTRANAMEL cassette-fixed panels are deemed-to-satisfy non-combustible as per the requirements of the NCC 2022, clause C2D10(6)(g) and C2D15(1) for use on any building of types A, B & C construction, classes 2-9.

##### Fire Performance:

ITEM	TEST STANDARD	UNIT	RESULT
DTS Non-combustible	AS 1530.1	-	Pass
Spread of Flame Index	AS 1530.3	-	0
Smoke Developed Index	AS 1530.3	-	1
DTS Non-combustible (NCC 2019)	NCC C1.9(e)(vii)	-	Pass
DTS Non-combustible (NCC 2022)	NCC C2D10(6)(g)	-	Pass
Non-combustible (Euro Class)	BS 476.4	-	Pass
Fire Propagation Index (Euro Class)	BS 476.6	-	0
Smoke Toxicity Testing	DIN 4102 Part 1	-	A2

##### Vitreous Enamel Coating:

The outstanding feature of ULTRANAMEL is the vitreous enamel finish which is applied using a special static powder enamelling process including baking at 800 degrees. This produces a virtually indestructible finish which is one of the most durable exterior coatings in the world, and is also highly resistant to graffiti, chemicals, abrasion and impact damage.

The ULTRANAMEL vitreous enamel finish shall be applied in accordance with BS 1344, the internationally recognised coating standard for vitreous enamel panels, to match the selected colour as per approved control samples.



### 3. FABRICATION

#### **Technical Manual:**

The panels shall be fabricated and installed in accordance with the most recent version of the ULTRANAMEL Technical Manual which is available online at [www.bluechipgroup.net.au](http://www.bluechipgroup.net.au) or by emailing [sales@bluechipgroup.net.au](mailto: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:**

ULTRANAMEL 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 cladding installer shall have a minimum 5 years' experience.

### 4. INSTALLATION

#### **Installation:**

Mechanical cassette-fix installation is the recommended installation system for ULTRANAMEL cladding in accordance with C2D15(1) using the well-proven offset aluminium clips method.

#### **Installation Details:**

The panels shall be fabricated and installed in accordance with the most recent version of the ULTRANAMEL Installation Details which are available online at [www.bluechipgroup.net.au](http://www.bluechipgroup.net.au) or by emailing [sales@bluechipgroup.net.au](mailto: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 / 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. 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 brackets and horizontal / vertical support profiles along with IROCK non-combustible insulation to achieve an engineered exterior insulation zone. For type C construction projects, IBOARD Rigid PIR insulation can be used if preferred.



### 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.



### 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.

