



## SPECIFICATION TEMPLATE

NATURION Non-combustible Natural Finish Panel

### 1. SCOPE OF WORK

The scope of work includes the design, supply, fabrication, and installation of NATURION 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:

NATURION is a non-combustible natural finish panel supplied by Blue Chip Group Pty Ltd (Ph: 1300 945 123) and as the panel has an honest, pure and natural appearance, colour differences are possible. NATURION sheets are manufactured on a Hatschek machine, are double pressed, autoclaved, and calibrated. NATURION is made water repellent on the front and back by means of a hydrophobation process, along with clear or opaque surface coating depending on the finish, which combined with LUKO edge sealer, prevents moisture ingress into the core of the panel.

#### Colour Selection:

Refer to exterior finishes schedule.

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

<https://www.bluechipgroup.net.au/natural-cladding-perth/non-combustible-timber-panels.html>

#### Fire Properties:

NATURION is deemed-to-satisfy non-combustible as per the requirements of Volume 1 of NCC 2019, clause C1.9(e)(iv) and NCC 2022, clause C2D10(6)(iv) making it compliant for use as external cladding or internal lining on any building of types A, B & C construction, classes 2-9. NATURION is also deemed-to-satisfy non-combustible as per the relevant clauses of NCC Volume 2 for use on any class 1 building.

#### Fire Testing:

| ITEM / TEST                      | STANDARD        | UNIT       | RESULT                 |
|----------------------------------|-----------------|------------|------------------------|
| Non-combustible (DTS)            | NCC C1.9(e)(v)  | NCC 2019   | Pass                   |
| Non-combustible (DTS)            | NCC C2D10(6)(e) | NCC 2022   | Pass                   |
| Ignitability Index               | AS 1530.3       | AWTA       | 0                      |
| Spread of Flame Index            | AS 1530.3       | AWTA       | 0                      |
| Heat Evolved Index               | AS 1530.3       | AWTA       | 0                      |
| Smoke Developed Index            | AS 1530.3       | AWTA       | 2                      |
| Group Number                     | AS 5637         | AWTA       | 1                      |
| Average Heat Release Rate        | AS 3837         | AWTA       | 30.3 kW/m <sup>2</sup> |
| Average Specific Extinction Area | AS 3837         | AWTA       | 7.6 m <sup>2</sup> /Kg |
| Fire Reaction                    | EN 13501-1      | Euro Class | A2-s1, d0              |

#### Material Properties:

NATURION cladding boards conform to the requirements of European standard EN 12467 and Australian standard AS 2908.2 which apply to the production and performance of fibre cement flat sheets, product specifications and test methods. The results below are presented as defined by the above standards. See separate material data sheets for each different NATURION product for more specific results and performance measures.



**Performance to EN 12467:**

| ITEM / TEST                           | STANDARD | RESULT |
|---------------------------------------|----------|--------|
| Water Permeability Test               | EN12467  | Pass   |
| Warm Water Test                       | EN12467  | Pass   |
| Soak / Dry Test                       | EN12467  | Pass   |
| Freeze Thaw Test for Category A Panel | EN12467  | Pass   |
| Heat / Rain Test for Category A Panel | EN12467  | Pass   |
| Dimensional Tolerances                | EN12467  | Pass   |

**Performance to AS 2908.2:**

| ITEM / TEST                            | STANDARD  | RESULT     |
|--|-----------|------------|
| Dimensional and Geometrical Tolerances | AS 2908.2 | Compliant  |
| Bending Strength Classification        | AS 2908.2 | Category 5 |
| Water Permeability Test                | AS 2908.2 | Compliant  |
| Frost Resistance                       | AS 2908.2 | Compliant  |
| Warm Water Test                        | AS 2908.2 | Compliant  |
| Soak / Dry Test                        | AS 2908.2 | Compliant  |
| Heat / Rain Test                       | AS 2908.2 | Compliant  |

**3. FABRICATION**

**Technical Manual:**

The panels shall be fabricated and installed in accordance with the most recent version of the NATURION Technical Documentation 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:**

NATURION 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:** 50 years



## 4. INSTALLATION

### Installation Details:

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

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.



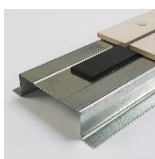
### Sarking:

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:

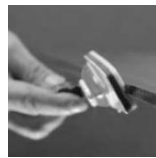
The sub-framing system shall be STUDTEK steel top-hat Façade System attached to the main structure (or BICEP Façade System) in a manner to ensure all applied loadings to the cladding is transferred back to the main structure. Spacing of top hat members shall be determined according to applied loads and 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 NATURION 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 SIKATAK system supplied by Blue Chip Group Pty Ltd and used strictly in accordance with manufacturer's recommendations for preparation and application.

