

PROPOSED SPECIFICATION FOR FAIRVIEW ARGETON RAINSCREEN TERRACOTTA FAÇADE SYSTEM

External Wall Cladding



1.0 SCOPE

The summary of the work included in this section of the specification comprises the supply and fixing of the ARGEON rainscreen terracotta façade system, including all necessary framing members, fixings and associated trimming, together with all consequential and/or incidental work which may be or may become necessary though not specified or shown in detail.

2.0 MATERIALS

Argeton Rainscreen Panels:

- Manufacturer: ArGeTon Oldenburger
- Distributor: Fairview Architectural
- Material: Terracotta clay
- Thickness: 30mm, twin skinned
- Panel Size: [Standard module heights of 150mm*, 162.5mm*, 175mm*, 187.5mm*, 200mm, 212.5mm, 225mm, 237.5mm, 250mm, 300mm, 350mm & 400mm in 30mm thick. Standard module lengths up to 1500mm, (900mm for module heights referenced *)
Finish: [Smooth, Terzo, Lineo, Wire dragged, Riven, Brushed, Glazed, Engobe]
- Colour: [Salmon Pastel Red, Tuscan Red, Natural Red, Tizian Red, Burgundy, Light Brown, Coffee, Brick Red, Chocolate, Bright Grey, Silver Grey, Light Grey, Platinum Grey, Granite Grey, Iron Grey, Ferro Grey, Basalt, Volcano Grey, Volcano Black, Glacier Blue, Pearl White, Cream, Carrara White, Apricot Beige, Sand, Sahara Yellow – or in colour glaze / engobe finish to match sample provided by clients representatives] .
- Fixing: Aluminium tile clips and horizontal rails, in accordance with manufacturer's installation details.
- Vertical joint type: Closed with incorporated coloured aluminium water management / drainage profile, which also acts as a baffle medium preventing subsequent rattle of installed tiles. Width: [4mm, 8mm] .
- Horizontal joint type: Interlocking. Width 12mm.
- Cladding cavity: Minimum 25mm.
- Secondary support/framing system: Vertically spanning steel tophats minimum 25mm in height. 1.1BMT, G300 Z250 or equivalent. Aluminium rail system if <100m from breaking salt water.
- Moisture control layer: Flexible membrane compliant to AS4200 for performance, NCC 2019 Vol. 1 Amendment 1, clauses C1.9e(vi) and F6.1 for fire and condensation compliance. Alternatively a rigid air barrier for higher windloads.
- Accessories: [Continuous closer clip, base clips for use at the base of the installation, aluminium corner profiles, spring support profiles] .

3.0 PERFORMANCE

3.1 General

- Design wind pressure (Pa): to AS/NZS 1170.2 or AS 4055
- Maximum frame or subframe deflection: 1/150 of the clear span.
- Irregularities: Tiles shall appear flush and even when viewed at any position but not less than at an angle of 15 degrees to the true plane of the panel, with natural lighting of incident of not less than the same angle.

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- Expansion and Contraction: The cladding shall be so fabricated and erected as to provide for all expansion and contraction of the components. Any temperature change due to climatic conditions shall not cause harmful buckling, opening of joints, undue stress on fastening and anchors, noise of any kind or other defects.

3.2 Mechanical Properties

- Bending Strength: >2.0g/cm³
- Water Absorption: 2-8%
- Proven frost resistance

3.3 Fire Compliance

Terracotta Clay façade shall have been tested to AS 1530.1 and be deemed not to be combustible. All components shall comply with clause C1.9

3.4 Weatherproofing

The system will need to be assessed to the weatherproofing performance requirement FP1.4 of the NCC for a positive serviceable static wind pressure of up to [Project serviceability windload requirement] for weather resistance.

3.5 Condensation & moisture management

If used, the flexible membrane or rigid air barrier shall comply to the requirements of FP6.1

4.0 INSTALLATION

4.1 Design

Rainscreen cladding system and associated features: Complete detailed design in accordance with this specification and the preliminary design drawings and submit before commencement of fabrication. Related works: Coordinate in detailed design.

Submission of alternative proposals: Preliminary design drawings indicate intent. Other reasonable proposals will be considered.

4.2 Installation

Install panel system as follows:

- Plumb, level, straight and true within acceptable building tolerances.
- Fixed or anchored to the building structure in conformance with the wind action loading recommendations.
- Isolated from any building loads, including loads caused by structural deflection or shortening.
- Allow for thermal movement.

4.3 Accessories and Trim

Requirement: Provide accessories and trim necessary to complete the installation including matching capping and flashings, and install in conformance with the manufacturer's recommendations.

4.4 Substrates or Framing

Preparation: Before fixing cladding, check and, if necessary, adjust the alignment of substrates or framing.

4.5 Metal Separation

Requirement: Prevent direct contact between incompatible metals, by either of the following materials:

- Applying an anti-corrosion, low moisture transmission coating to contact surfaces.
- Inserting a separation layer such as tape.

4.6 Cladding Methods

Install and fix the panels using the latest ARGETON installation guides to secure the panels in accordance with the manufacturer's instructions. Panels are to sit flat with even, straight, aligned and smooth joints. Tiles are to be brought on the site fully protected against damage.

4.7 Handling and Storage

Do not deliver to site any rainscreen cladding products and units which cannot be installed immediately or unloaded into a suitable well protected storage area. Store products and units on level bearers clear of the ground and separate with resilient spacers.

5.0 COMPLETION

5.1 On Completion

Clean down all wall cladding and remove all surplus materials and waste and scrap from the site.

5.2 Final Inspection

On completion of the wall cladding work and before any subsequent work, or as may be otherwise arranged, arrange for the work to be inspected by the Architect.

5.3 Maintenance

Reference: To the Argeton warranty and maintenance procedures

5.4 Warranties

Form: Product warranty covering manufacturing defects, finish appearance and performance.

Period: 10 years from completion of installation.

END OF DOCUMENT