

SPECIFICATION FOR FAIRVIEW STRYÜM

Premium, Deemed non-combustible interlocking aluminium panel

STRYÜM®

NON-COMBUSTIBLE ALUMINIUM FAÇADE / MANUFACTURED BY FAIRVIEW

WWW.FV.COM.AU

AUSTRALIA / NEW ZEALAND / UNITED KINGDOM

SALES ENQUIRIES 1800 007 175 HELPDESK.AU@FV.COM.AU

1.0 SCOPE

The summary of the work included in this section of the specification comprises the supply and fixing of all STRYÜM PREMIUM DEEMED NON-COMBUSTIBLE INTERLOCKING ALUMINIUM PANEL, 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

ALUMINIUM SOFFIT AND WALL CLADDING:

Materials and finishes: All cladding shall be Stryüm interlocking cladding by Fairview comprising an extruded aluminium section with a high performance finish. Aluminium shall be T5 Grade in 6060/6063 Alloy.

3.0 PERFORMANCE

3.1 GENERAL

- Design wind pressure (Pa): to AS/NZS 1170.2 or AS 4055
- Irregularities: Provide Stryüm interlocking cladding panels without irregularities such as oil canning, waves, buckles and other imperfections 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.
- Expansion and Contraction: The cladding shall be so fabricated and erected as to provide for all expansion and contraction of the components.

3.2 PROPERTIES

Profiles

Shadow 160:

- Extrusion Thickness - 1.8mm
- Profile Thickness - 17mm

Shadow 200:

- Extrusion Thickness - 2.5mm
- Profile Thickness - 18.3mm

Shadow 300:

- Extrusion Thickness - 3.5mm
- Profile Thickness - 18.3mm

Seam 260:

- Extrusion Thickness - 2.8mm
- Profile Thickness - 41.40

Step 250

- Extrusion Thickness - 2.8mm
- Profile Thickness - 21.70mm

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Mechanical Properties

- Tensile strength – 150Mpa (In accordance with AS/NZS 1866 Aluminium and Aluminium Alloys – Extruded Rod, Bar, Solid and Hollow Shapes)
- Panel Weight:

Shadow 160	6.9kg/m ²
Shadow 200	8.82kg/m ²
Shadow 300	11.29kg/m ²
Seam 260	11.07kg/m ²
Step 250	9.37kg/m ²

Finish

The external cladding panel surface shall be factory prefinished by the manufacturer with a Powder Coat or authentic anodised coating.

Powder Coat

Total dry-film thickness of the polyester powder coat shall be 60 – 80 microns minimum. The coated surface shall comply strictly with AAMA 2604 Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminium Extrusions and Panels.

Authentic Anodised

Total thickness of the anodic oxide coating shall be 25 microns average, with a minimum of 20 microns. The surface shall comply with Australian Standard 1231-2000 Aluminium and Aluminium Alloys - Anodic Oxidation coatings.

- Application of Powder Coat or anodic oxidisation after supply by Fairview shall not be permitted.

3.3 FIRE TESTING

TEST	DESCRIPTION	RESULT
AS 1530.1	Combustibility test for materials	Non-combustible
AS 1530.3 (Powder Coat)	Simultaneous determination of: Ignitability, Flame Propagation, Heat Release and Smoke Release	Ignitability Index: 11 Spread of Flame Index: 0 Heat Evolved Index: 0 Smoke Developed Index: 3

3.4 WEATHER PROOFING

The system should meet the weatherproofing clause FP1.4 of the NCC for a positive serviceable static wind pressure of up to 1500pa for weather resistance.

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4.0 INSTALLATION

4.1 FABRICATION

Panels shall be cut to size in accordance with the manufacturer's recommendations. Special care must be taken not prevent and defects made in the surface of the panels.

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: Accessories are available for Stryüm from Fairview as per the Technical Manual. Further trims are necessary to complete the installation including matching capping and some flashings, installed 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.

Stryüm 'S Section' must be used as primary framing to allow for thermal movement inert in panels.

4.5 SHEET LAYOUT

Colour consistency: On a single elevation / area of a facade install authentic anodised finished panels from a single order.

4.6 HORIZONTAL CLADDING SURFACES

Minimum slope: 1:15.

Staining: Slope away from visible vertical facade areas wherever possible to prevent staining.

4.7 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.

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4.8 CLADDING METHODS

Install and fix the panels using the latest 'STRYÜM TECHNICAL MANUAL' (refer Fairview Pty. Ltd.) to secure the panels in accordance with the manufacturer's instructions. Panels are to sit flat with even, straight, aligned and smooth joints.

Packers and Soft Faced mallets are to be used as required to ensure the panels are fully interlocked.

Panels are to be cut with special attention paid to not damage the surface coating.

5.0 COMPLETION

5.1 ON COMPLETION

ON COMPLETION: Clean down all wall cladding and remove all surplus materials, waste and scrap from the site and swarf that may have lodged on the face of panels.

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 Stryüm Warranty and Maintenance Manual.

5.4 WARRANTIES

Form: Stryüm material only, covering manufacturing defects, and factory applied finish appearance and performance.

Period: 15 years from completion of installation.

END OF DOCUMENT

DOCUMENT: MARCH 2020

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