Architectural Envelopes

Manufacturer

54B McNulty Rd, Cromwell 9310
PO Box 37, Lake Hawea 9345

V25 Interlocking Panel System

This specification document describes supply and fixing of V25 Interlocking Panel System.

1.0 SUPPLIER
Architectural Envelopes Ltd
PO Box 37 , Lake Hawea 9345
New Zealand
M 021 578739 P 021 578 739 Workshop/Operations 021 736299
Email: bruce@architecturalenvelopes.nz
Reference Documents

1.1 REFERENCE DOCUMENTS
Documents of reference relevant to this product are;

- NZBC E2/AS1 External moisture
- NZBC B2/AS1 Durability
- AS/NZS 1170.2 Structural design actions - Wind actions
- AS/NZS 2728 Prepainted sheet metal products, Interior/exterior performance
- NZS 2295 Pliable permeable building underlays
- NZS 3604 Timber-framed buildings
- AS/NZS 2484, E2 VM1
- NZMRM NZ Metal roof and wall cladding - Code of practice
- BRANZ BU 467 Principles of Flashing Design
- BRANZ BU 519 Fastener Selection

1.2 MANUFACTURERS DOCUMENTS
ARCHITECTURAL ENVELOPES Installation Guide
Warranty

1.3 WARRANTY
Warrant work under normal environmental and use conditions against failure of workmanship, materials, fixing, waterproofing, weatherproofing and surface coatings.

INSTALLATION WARRANTY
Period: 5 years against workmanship
From: Date of completion.

MANUFACTURERS/INSTALLERS WARRANTY
Period: 15 years against Perforation
From: Date of completion.
Requirements

1.4 INSTALLATION OPERATIVES

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All installation operatives must be approved ARCHITECTURAL ENVELOPES trained installers, who are specifically trained in the installation and handling of V25 Panel Systems

1.5 FIXINGS - WIND
Refer to Specific Design by Structural Engineer

1.6 PERFORMANCE
Accept responsibility for the performance of the panel system including penetrations and associated flashings

2.0 PRODUCTS

2.1 PANEL
The V25 Panel Cladding will be fabricated to the panel sizes indicated on the plans and will be fixed to the main structure using a stainless steel top hat channel or timer batten, set horizontally at 600mm centres (or as specified on the consented drawings).
The material itself will be 0.55mm/0.7mm Colourseel, 1mm Zinc, 1mm Copper or 1mm Aluminium. See Architectural Envelopes for recommended choice.

2.2 FABRICATION
The V25 panels will be fabricated in our Cromwell factory, and then sent to site.

2.3 HANDLING
Finished V25 panels must be stored in well ventilated conditions that guard against condensation separated from the ground by a pallet which allows air space sufficient to permit ventilation whilst not allowing deformation of the items. Panels to be stored flat on a clean, smooth surface.

2.4 FLASHINGS
As required from a nominal 0.55mm pre-painted steel, finish to match V25 panel. To E2/AS1; 4 and AS/NZS 2904, supplied purpose made for the project. Flashings to be installed to allow expansion of metal.

2.5 SEALANT
100% natural cure non-acid based silicone rubber to match panels.
Use in accordance with manufacturer's instructions.

3.0 DELIVERY/STORAGE
Accept delivery of undamaged panels.
Reject all damaged materials. Store in a location on site that is protected from weather and damage, on a firm, level base.
Maintain good ventilation between packs.

3.1 HANDLING
Lift each panel carefully, do not drag or distort.
Protect surface finish and edges.

3.2 EXAMINE CLADDING STRUCTURE
Examine panel structure with installer present.
Ensure panel structure is in place, complete, and to the required standard to carry out installation works.

3.3 PANEL SET OUT
Consider the position of side laps, and set out panels making sure they are square and neatly placed. Do not allow creep and spread during fixing.

3.6 FIXING IN GENERAL
Fixing in accordance with ARCHITECTURAL ENVELOPES recommendations, and in accordance with NZBC E2/AS1 and NZMRM NZ Metal Roof and Wall Cladding Code of Practice requirements.

3.7 CUTTING AND MARKING
Use metal cutting shears. Do not use black lead pencils for marking.

3.8 SHEARED EDGE
Cut edges are left untouched, edge sealing is not required.

3.9 FIX PANELS
Fix panels directly in accordance with ARCHITECTURAL ENVELOPES instructions using fixing method specified.

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3.10 FLASHINGS - GENERALLY
Flash up-stands, junctions and abutments to ARCHITECTURAL ENVELOPES details, and in accordance with NZBC E2/AS1; Pre-form required shapes wherever possible. Cut neatly and precisely, notch, scribe, flute or dress down as required and fix to form a weatherproof cover and to suit profile.

3.11 FLASHINGS
Cut neatly and precisely and fasten to purlins through the leading edge of the panels to NZBC E2/AS1.

3.12 FLASHING TO PANEL PENETRATIONS
Flash all panel penetrations to NZBC E2/AS1: 8.1.7 to provide a weather-tight seal. Use two part flashings, (base and cover), fit pipe flashings with manufacturers proprietary collar flashings.

3.15 DISSIMILAR MATERIALS
Prevent direct contact between incompatible metals, and between chemically treated timber and coated steel or aluminium. Position isolators where necessary when dissimilar materials are close together. Use separation strips or a low transmission coating between surfaces. Use neoprene washers on screws where necessary.

3.16 FINISH
Finish installation work with all elements correctly and permanently installed.

3.17 CLEAN CLADDING
Clean cladding daily, pay attention to metal filings, swarf, etc, and remove as soon as possible. Do not under any circumstances allow this material to remain on the panels overnight, or during inclement weather.
Remove all general rubbish, surplus materials, wrappings etc associated with this trade and leave in a clean and tidy condition.