

APPENDIX A

Requirements specific to Northern areas* (Wind regions C and D)

*Northern areas: Sites located north of 27° latitude.

0242 LANDSCAPE – FENCES AND BARRIERS

1 GENERAL

1.1 DESIGN

General

Requirement: Conform to the following:

- AS/NZS 1170.2 for Wind Regions C or D and Terrain Category 2 (TC2).
- AS 4055, as appropriate for the project site conditions.

Submission: Provide documentation of fencing details, supports and connection by a professional structural engineer.

0342 LIGHT STEEL FRAMING

1 GENERAL

1.1 STANDARDS

General

Framing and trusses: Conform to the following:

- AS/NZS 1170.2 for Wind Regions C or D and Terrain Category 2 (TC2).
- AS 4055, as appropriate for the project site conditions.
- Maximum truss spacing: 1200 mm centre.

3 EXECUTION

3.1 GENERAL

Cyclone debris screens

Noggings: Provide as required to support screen fixings.

Roof battens: Provide as required to support screens under verandahs and eaves when in the fully open position.

Fixing of roof sheeting

Roof batten: G550 steel battens with minimum 0.75 mm BMT, total coated thickness of 0.8 mm.

0382 LIGHT TIMBER FRAMING

1 GENERAL

1.1 STANDARDS

General

Framing and trusses: Conform to the following:

- AS/NZS 1170.2 for Wind Regions C or D and Terrain Category 2 (TC2).
- AS 4055, as appropriate for the project site conditions.
- Maximum truss spacing: 1200 mm centre.

3 EXECUTION

3.3 WALL FRAMING

Trimmers

Noggings: Provide to facilitate cyclone debris screen fixings.

0421 ROOFING

2 EXECUTION

2.1 SHEET METAL ROOFING

Roof sheet installation

Fixing of roof sheeting: To the manufacturer's recommendations and as follows:

- Cyclonic fasteners and washer: Galvanized steel EPDM bonded to the manufacturer's recommendations for the appropriate substrate.

0431 CLADDING

2 EXECUTION

2.1 CONSTRUCTION GENERALLY

Cladding

Cyclonic fasteners and washer: Galvanized steel EPDM bonded to the manufacturer's recommendations for the appropriate substrate.

0451 WINDOWS AND GLAZED DOORS

1 GENERAL

1.1 STANDARDS

General

Selection and installation: To AS 2047 for the following:

- Serviceability design wind pressure: To AS/NZS 2047 Table 2.1, as appropriate for the project site conditions.
- Ultimate strength test pressure: To AS/NZS 2047 Table 2.5, as appropriate for the project site conditions.

Testing

Debris impact resistance for glazed sidelights and sliding doors: Tested for loading conforming to AS/NZS 1170.2 clause 2.5.8.

2 PRODUCTS

2.2 COMPONENTS

Cyclone debris screens

Location: Provide to all windows.

Requirement: Powder coat finished stainless steel screw clamped 0.9 mm strand type 304 stainless steel wire mesh screens.

Testing: Provide certification that screen has been tested to withstand impact loading from wind borne debris conforming to AS/NZS 1170.2 clause 2.5.8.

3 EXECUTION

3.1 INSTALLATION

Cyclone debris screens

Mounting: Top hung, fully framed, mitred and staked to protect from side impact and insects.

- Hinge: Minimum three 70 mm fixed pin hinges for each screen.
- Hinge position: 170 to 180 mm from outer edge of screen at 500 mm centres.

Screen (surround) frame: 70 x 20 mm.

Base frame:

- Fixing: Screw fixed to the building structure, through cladding into wall framing, with 10g tamper resistant screws at 100 mm from the corners and 300 mm centres.
- Drainage points: Minimum two 20 x 5 mm (elongated) holes to prevent water pooling.
- Wire surface clearance: Provide projection so that wire clearance from glazing is not less than the rate of instantaneous deflection measured during testing, 105 mm optimum.

Screen configuration: Align with window configuration.

- Maximum panel dimension: 1200 x 1500 mm.

Gravity self-centring hook: Provide hook to hang screen from rafter or eaves when in the fully open position.

- Hook material: 6 mm galvanized steel rod.

Screen finish:

- Mesh: Black powder coat.
- Frame: Powder coat.

Marking: Provide the manufacturer's name in 3 mm high letters on the internal face of the frame, using one of the following methods:

- Embossing the frame.
- Adhesive, transparent acrylic, untearable polyester film label.

0454 OVERHEAD DOORS

1 GENERAL

1.2 SUBMISSION

Certification

Requirement: Submit manufacturer's data verifying the following:

- Materials, products and installation: The door is able to withstand wind pressure to AS/NZS 4505 Table 5.2 for the wind classification appropriate to the project site.
- Testing: In conformance with AS/NZS 4505 Appendix A for cyclonic regions.

0802 HYDRAULIC DESIGN AND INSTALL

3 EXECUTION

3.3 COLD AND HEATED WATER

Solar and heat pump systems

Roof mounted collectors: Install using cyclone mounts or frame to the manufacturer's recommendations.

Photovoltaic panel mounting frame: Galvanized steel frame and fixings able to withstand wind classification as defined in AS/NZS 4505 appropriate to the project site.

Collector panel stone guards: Provide powder coat finished galvanized steel framed welded mesh (stone guard) enclosure, to all roof mounted collector panels, to the solar heater manufacturer's recommendations. Colour to match roof finish.

0902 ELECTRICAL DESIGN AND INSTALL

3 EXECUTION

3.1 GENERAL

Accessories

Electrical accessories (including switches and socket outlets): To have an International Protection (IP) Rating, to AS/NZS 3000, if installed in a location where water ingress is possible, including where exposed to cyclonic conditions.