

100 SERIES GLAZING SYSTEM

SYSTEM: SERIES 100

The Spectrum 100 Series system is the most versatile overhead glazing system of its kind.

Most overhead glazing systems usually end up with a compromise of design, strength and economy.

The 100 Series is designed to accommodate 50mm or 2inch wide structural rafters of depths calculated to economically span the distance required.

the structural rafters can be aluminium, timber or steel RHS, UB, RSJ or pipe. Composite or laminated beams to suit the situation and interior effect that the client requires can also be used.

CASCADING INTERIOR GUTTER

Incorporated in the design of both the glazing bar and the purlin is an interior cascading gutter system which allows moisture or condensation to drain from the purlin into the glazing bar and escape at the sill. This system eliminates the dependence on sealant that other systems have and ensures that all purlin joints are waterproof.



100 series: specifications

scale: n/a - revision: 30/08/10

 **spectrum**
architectural metals

4.01

Product Catalogue 2010 Spectrum
Architectural Metals.
Technical Specification subject to
change without notice.

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Designation: Residential or low rise commercial.

Component Parts: Refer extrusion and component pages.

Maximum Unsupported Span: Varies according to the structural rafter. Refer to 22 Series span chart.

Bar Centres: Recommended 900mm maximum

Alloy and Temper: 6063 T5

Minimum Radius: Varies according to the structural rafter

STANDARDS AND TESTING

As each barrel vault or overhead glazed unit manufactured by Spectrum Aluminium is a purpose made special product, we do not undertake to test any units without express chargeable directions from the client. We do however take every care to assemble each structure to comply with NZS 4211:1985A3.

SURFACE FINISHES

Powder-coat: All standard powder-coat colours are available, applied in accordance to Wanz specifications for powder-coating architectural products.

High Performance Finishes: We can supply a range of high performance finishes for specialised situations.

Anodising: All standard colours from 12 - 25 microns are available, carried out in accordance with Wanz SFA 3503-03:2005.

All surface finishes are applied after the curving process.



MATERIALS

Screws: Stainless Steel grade 304 3/16" Whit. capscrews.

Gaskets: 'Santoprene' synthetic rubber co-extruded with polypropylene semi rigid backing.

Sealant: Special compound small joint sealant.

Hardware: Aluminium, Stainless Steel or Galvanised Steel brackets and anchors purpose made as required.

ASSEMBLY

Small barrel vaults up to 4m² can be assembled and glazed at the Spectrum Aluminium factory. However most structures are too large for transportation, and we recommend they be ordered in kitset form.

To ensure precise fitting on-site, we pre-assemble complex structures at the Spectrum Aluminium factory, and then disassemble before dispatching to site.

GLAZING

Extended life polycarbonate and Acrylic sheets: 4.5mm minimum thickness

Twinwall Polycarbonate sheet: All available thicknesses

Mono Glazed: 4.5mm minimum thickness

Double Glazed: Up to 30mm thickness