

DATA SPECIFICATION

MAIN FEATURES

- For low to high rise applications.
- Three systems with different levels of performance available – 125mm, 150mm, and 168mm.
- A four-sided, structural glazed, fully panelised system.
- Unobtrusive opening sashes for ventilation.
- Single and double glazing options, including within the same façade with retention of the glass plane.
- Glazing is on the outer edge of the extrusions, reducing the visual effect of aluminium as viewed from the outside.
- The 168mm system has thermally broken and thermally shielded options.
- Sun control fins can also be applied to the outside of the transoms to aid solar control and accentuate the horizontal line.
- Can also be used as a strip curtain wall system.
- Can accommodate interfloor deflection - 125mm series, 14mm; 150mm, 24mm; 168mm, 22mm.

FRAME TYPES

125mm Single Glazed (10107) within seismic frame (10063) at head with (10097) at sill with (10061) subsill. At jambs (10108) within (10065) flashing.

125mm Double Glazed (10103) also sits within the seismic frame (10063) at head, with (10042) at sill within (10061) subsill. At jambs (10104) within 10065) flashing.

150mm Single Glazed (10109) within seismic frame (10078) at head, and (1009) at sill with (10076) subsill. At jambs (10110) within (10079) flashing.

150mm Double Glazed (10105) within seismic frame (10078) at head with (10054) at sill within (10076) subsill. At jambs (10106) with (10079) flashing.

168mm Thermally Shielded (10214) at head with (10218/10219) subheads. At sill (10213) with (10218/10200) subsills.

168mm Thermally broken (10214) at head with (10218/10219) subheads. At sill (10213) with (10218/10200) subsills.

REFER CROSS SECTIONAL DRAWINGS.

MULLIONS

125mm Single Glazed Split (10038 / 10039)

125mm Double Glazed Split (10034 / 10035)

150mm Single Glazed Split (10046 / 10047)

150mm Double Glazed Split (10046 / 10047)

168mm Thermally Shielded Split (10203 / 10227 / 10204)

168mm Thermally Broken Split (10201 / 10227 / 10202)

Two-piece mullions and transoms facilitate practical transportation of pre-fabricated sub-assemblies that can be joined conveniently on site to create facades and strip windows.

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TRANSOMS

125mm Single Glazed One Piece (10096)
125mm Single Glazed Split (10097 / 10098)
125mm Double Glazed One Piece (10069)
125mm Double Glazed Split (10042 / 10043)
125mm Double Glazed (10020) beaded, or (10040 / 10041) split transom.
150mm Single Glazed One Piece (10071)
150mm Double Glazed Split (10054 / 10055)
168mm Thermally Shielded One Piece (10216)
168mm Thermally Shielded Split (10213 / 10218 / 10219 / 10215)
168mm Thermally Broken One Piece (10216)
168mm Thermally Broken Split (10213 / 10218 / 10219 / 10214)
REFER SPAN TABLES FOR MULLION AND TRANSOM REQUIREMENTS.

SASH TYPES

Four sided structural glazed (08115) sash, for maximum 32mm double glazing within sash subframe (00450).

FLASHINGS

Commercial systems often require project specific flashings dependent on application, cladding type and site exposure. Refer to your ALITHERM manufacturer for specific installation information.

REFER SECTION 1.6 AND 2.9 INSTALLATION & WEATHERTIGHTNESS.

FINISH / COLOUR

Powdercoated in a wide range of colours.

Anodised silver or bronze as standard, 20 micron thickness. Other colours and thicknesses are available.

REFER SECTION 1.3 SURFACE FINISHING.

GLASS

Single glazing to a maximum 18mm thickness and 38mm for double glazing in accordance with NZS 4223: Glazing in Buildings.

The full range of single glazed glass types can be included in this product. For further information consult your local glass specialist.

PERFORMANCE

Commercial window applications often require project specific testing. Consult your ALITHERM manufacturer for further information and costs.

INSTALLATION

Windows made with the Structural Glaze system are generally pre-assembled in sections at the factory and joined and sealed on site. Frames are glazed on site. Shop drawings can be supplied by ALITHERM manufacturers when specified.