

METRO SERIES

MAIN FEATURES

- A stylish and versatile range of heavy-duty windows and doors based on a unified and contemporary design approach.
- Occupies an intermediate position between the FIRST residential suite and the high-performance APL ARCHITECTURAL SERIES.
- Suitable for residential and architectural applications in demanding environments.
- Frames and profiles feature clean, flat surfaces for a modern appearance.
- The product portfolio comprises sliding doors, hinged and bi-fold doors and awning, casement and sliding windows, all designed to reflect a coordinated aesthetic.
- Sliding doors and awning / casement windows are suitable in 'Specific Design' environments.
- Doors are suitable to a height of 2.4 metres in most wind exposures.
- Sliding doors are bottom-rolling for excellent support and feature the flushline sill which provides level access inside and out.
- An overwall slider option is available.
- The bi-fold door can be supplied with a 'lay-back' option in some configurations where the panels swing back against adjoining walls for minimal projection on to decks.
- Awning and casement sashes have a flush, non-facing design, though a facing sash option is available.
- Double glazing up to a maximum thickness of 30mm is possible on sliding doors with a 24mm maximum on hinged and bi-folding doors. A 28mm maximum applies on awning and casement windows.

DOORS

Hinged Doors have 45mm-thick panels and are available in open-out and open-in formats. The open-out frame (04451) and open-in frame (04450) have flat faces and can be coupled with sidelights and overlights. French doors have rebated meeting stiles for a clean, flush look.

Sliding Doors slide on an external track with fixed sidelight. Stiffening boxes on interlocker stiles and mullions are flush in the closed position. Externally sliding doors optimise weathertightness and ensure suitability in a wide range of demanding locations. (Note that the external track means that outward opening windows cannot be placed in adjoining sidelights). Opening sashes can be included in coupled sidelights.

Bi-fold Doors are bottom rolling with an in-frame track. A lay-back option is available for certain configurations - 2p, 2+2 and 2+1 - where the open panels fold back against an adjoining wall for an unobstructed deck.

GLAZING BEADS

For double glazing, beads lie near flush with the glass.

FINISH / COLOUR

Powder Coated in a wide range of colours.

Anodised silver and bronze as standard, 12 micron thickness. Other colours and thicknesses are available.

GLASS

Double glazing to a maximum of 30mm thickness on sliding doors and 24mm on hinged and bi-folding doors can be used. Glass thickness and type to be used is covered by the Human Impact Safety requirements of NZS4223.

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PERFORMANCE

Complies with NZS 4211: 2008 Performance of Windows. Certificates can be provided on request. METRO SERIES sliding doors are suitable for 'Specific Design' applications provided they do not exceed recommended size guidelines (open-in hinged door for 'very high' wind zones).

A guarantee for all METRO SERIES products is provided under normal conditions of use against failure of materials and workmanship for five years from the date of practical completion.

SIZES

Sliding doors are suitable for 'Specific Design' applications in wind pressures of 1.3 kPa serviceability provided they do not exceed recommended size guidelines. A maximum panel size of 2400mm high x 2000mm wide is recommended in 'very high' wind zones. Larger heights or widths may be possible with different aspect ratios or in lower wind zones. Sliding door rollers are rated to 100kg each (200kg panel weight), allowing 30mm double glazing if desired.

Hinged doors (open-out) are suitable for up to 'very high' wind zones provided they do not exceed recommended size guidelines. A recommended maximum size of 2400mm high x 900mm wide applies in 'very high' wind zones. Taller open-out panels are likely to perform satisfactorily in lower wind zones. Open-in hinged doors are suitable in wind pressures of 'very high' wind zones at heights of 2400mm.

Bi-fold doors are suitable in up to 'very high' wind zones at maximums of 2400mm high and 900mm width per panel.

For larger sizes consider using the APL ARCHITECTURAL SERIES.

HARDWARE

For hinged doors the Miro™, Urbo™ or Icon stainless steel lever lock is available with key or interior snib.

For sliding doors the surface mounted Miro™ Endeavour lock or Miro™ 'D' handle (choice of small or large) with morticed one-point hook lock can be used or the Icon stainless steel 'D' handle or flush pull with morticed one-point hook lock. An Urbo™ handle is also available.

Bi-fold doors have a swivel operator (Miro™, Urbo™ or Icon stainless steel) with locking pins at head and sill. A 'D' handle / hinge is also available for overheight doors.