

## DATA SHEET

### MAIN FEATURES

- A thermally efficient range of windows and doors for residential purposes.
- Ideal for those jobs where minimising the transfer of cold and reducing condensation are priorities.
- The Thermal Heart™ insulator or 'thermal break' is made from glass fibre-reinforced nylon (polyamide) and is placed between the aluminium interior and exterior.
- Designed to be used in conjunction with double glazing for a fully effective barrier system.
- Standard glass panel thickness of 24mm.
- Ideal for those projects where conformity with the energy efficiency requirements of NZ Building Code Clause H1 is a design difficulty issue.
- Jointing process for window and door profiles ensures optimum straightness and rigidity.
- Frames are based on a large 46mm platform ensuring suitability for a wide range of residential projects.
- Condensation channels are not required in frame designs.
- Doors are generally suitable to heights of 2.1m in 'very high' wind zones.

### DOORS

**Hinged Doors** have 52mm-thick panels and are available in open-out and open-in formats. The open-in frame will also accommodate entry doors with a thickness range of 38-45mm. The open-out frame and open-in frame can be coupled with sidelights and overlights. French doors have rebated meeting stiles for a clean, flush look. For thermally efficient formal entrance doors thermally improved Axis or Latitude Panels are available. Cedar panels can also be used.

**Bi-fold Doors** are bottom rolling with an in-frame track. Panels are 52mm thick. Overlights can be included.

**Sliding Doors** slide on an internal track with fixed sidelight. The (65400) frame is used for single sliding panels and the (65410) frame for stacking sliders. The stacker slider has three thermal breaks rather than two because of the wide frame depth. Interlocker stiles and mullions are flush in the closed position. Stiffening boxes or fins project externally. Overlights can be included on 2-panel and 4-panel sliders (not stacker doors).

### GLAZING BEADS

Altherm Thermal Heart™ doors use flush or square edged beads with double glazing.

### FINISH / COLOUR

**Powder coated** in a wide range of colours. The thermal break is painted the same colour as the aluminium.

**Anodised** silver and bronze as standard in 12 micron thickness. Other colours and thicknesses are available. In anodised product the thermal break appears in natural black.

### GLASS

Double glazed units of a standard 24mm thickness are generally supplied. 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. A guarantee for all Altherm Thermal Heart™ windows is provided under normal conditions of use against failure of materials and workmanship for five years from the date of practical completion.

### SIZES

**Hinged Doors** are rated to a maximum size of 2100mm high x 900mm wide in very high wind zones. Higher doors may be possible in lower wind zones. Alternatively consider using doors from the Metro Thermal Heart™ series

**Bi-fold Doors** have recommended maximum dimensions of 2100mm (h) x 900mm (w) for very high wind zones. Higher doors may be possible in lower wind zones!

**Sliding Doors** have recommended dimensions of 2100mm high x 1200mm wide 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 55kg each, allowing double glazed doors of maximum 110kg weight. For larger doors designers should also consider using the Metro Thermal Heart range.

### HARDWARE

For hinged doors a range of lever locks are available including the Miro™, Urbo™ or Icon (stainless steel) options with key or interior snib. French doors can have a lever handle on both panels (activating two-point locking at top and bottom) or a lever lock on the active panel and flush bolts in the leading edge of the lazy panel.

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.

The same ranges of hardware are available for sliding doors.