

RESIDENTIAL SERIES THERMALHEART®

MAIN FEATURES

- A thermally efficient range of windows and doors that comply with NZBC clause H1 Energy Efficiency (all climate zones) when used in conjunction with high performing Low-E double glazing
- Ideal for minimising the transfer of heat or cold to reduce overheating or condensation
- The ThermalHEART® insulator or thermal break is made from glass fibre-reinforced nylon (polyamide) and is placed between the aluminium exterior and interior
- Standard glass thickness (IGU) of 24mm (must include Low-E coating to be compliant in most residential situations). A 32mm IGU can be used with a wedged bead.
- Frames are based on a large 44mm platform ensuring suitability for a wide range of residential projects
- Jointing process for window and door profiles ensures optimum straightness and rigidity
- Products include fixed, awning and casement windows, sliding, stacking and bi-folding windows and doors, and hinged and French doors
- Recommended maximum 2200mm high doors in Extra High wind zones — for larger sizes consider using Metro Series ThermalHEART®

WINDOWS

Awning / Casement / Fixed Light Windows use the facing frame (20100). A facing sash (20600) is used as standard. Profiles are available for the inclusion of passive ventilation options – Vented Sash, Aerovent and Ventient. Seven mullion / transoms are offered – one flush on the interior face (20300), two with inward projecting stiffening boxes (20360 / 20370) and four with exterior fins (20310 / 20320 / 20330 / 20340). Two corner posts are offered for 90° and 45° corners (20420 / 20430). An insert frame (20130) is available for replacement windows.

Sliding Windows use the sliding door system. The small interlocker mullion (22450) is generally used. The Interlocker stiles are flush in the closed position. An over-light transom (22500) allows sashed or fixed overlights in association with sliding panels

Bi-fold Windows use the bi-fold door system with a smaller stile and smaller top and bottom panel rail (26360). The system is bottom rolling with an in-frame track.

GLAZING BEADS

Residential Series ThermalHEART® windows use square beads

FINISH / COLOUR

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

GLASS

Standard glass panel thickness (IGU) of 24mm but 32mm IGU can be used with a wedged bead. Must include Low-E coating to be compliant in most residential situations. Glass thickness and type to be used is covered by the Human Impact Safety requirements of NZS4223.

PERFORMANCE

Complies with NZ 4211: 2008 Performance of Windows. A guarantee for all First Windows and Doors windows is provided under normal conditions of use against failure of materials and workmanship for a period of five years from the date of practical completion.

SIZES

Awning and casement windows are capable of a range of sizes up to 1400mm high x 1000mm wide and casements up to 1400mm high x 800mm wide recommended. Larger sashes are able to be constructed dependent on the width, height, weight (including glass), hardware and wind zone. Consult your window manufacturer for professional advice on appropriately sized fixed lights and sashes. For larger sizes consider using the Metro Series ThermalHEART®.

Bi-fold windows use the bi-fold door system and are therefore capable of tall heights with a maximum width of 900mm per panel.

HARDWARE

Window fasteners are available in a range of styles and finishes, including Urbo, Miro (powdercoated) and Icon (stainless steel) options.

For sliding windows, surface mounted or mortice lock options are available.

Bi-fold windows have swivel operator choices – Urbo, Miro (powdercoated) or Icon (stainless steel) with locking pins at head and sill. A ‘D’ handle / hinge is also available for tall windows.