



# DATA SPECIFICATION

## KLIMA SERIES

### MAIN FEATURES

- An innovative range of uPVC windows and doors optimised for New Zealand conditions.
- Designed for mainstream residential uses in line with the Vantage residential suite of aluminium windows and doors.
- Klima is rated to the maximum 6 energy stars under WEERS (Window Energy Efficiency Rating System) when used with Low-E double glazing (4.5 with standard clear double glazing).
- Based on the German Kommerling 76mm Series with thick profiles for maximum thermal insulation.
- Hidden steel reinforcing is incorporated in all uPVC profiles to ensure shape stability and structural excellence.
- The product portfolio comprises sliding, hinged and French doors and awning, casement and sliding windows.
- Tilt-and-turn hardware allows inward-opening casement / hopper windows.
- Doors are suitable to a height of 2.1 metres in very high wind zones.
- Sliding doors have colour-matching aluminium thresholds at the sill to ensure durability (also available for low threshold entry doors).
- Available as standard in white but can also be supplied with other exterior colours using the 'Aluclip' system with an exterior aluminium facing shell. The exterior colour choice then becomes virtually unlimited.
- Frames have been designed with a generous 25mm weather cover.
- Klima windows and doors are made from a highly durable 'hot country' uPVC, an environmentally-friendly lead-free formulation.
- Klima has been designed for 24mm double glazing as standard.

### WINDOWS

Awning / Fixed Light Windows use the facing frame (K76113). This has 25mm of cover to allow for overlap of the building cladding. The facing sash (K76210) is used as standard. A small and large mullion/transom (K76301 & K76303) is offered to cater for varying spans.

Tilt & Turn Casement / Hopper Windows use facing frame (K76114) with casement / hopper sash (K76201). A small and large mullion/transom (K76301 & K76303) is offered to cater for varying spans.

Sliding Windows use the sliding door system - frame (K76056) with a common rail / stile (76041).

## **GLAZING BEADS**

Beads are sloped in the awning and tilt-and-turn system. For sliding windows / doors the bead is flusher to the glass.

## **FINISH / COLOUR**

Klima products are available as standard in white but can also be supplied with other exterior colours using the 'Aluclip' system. This incorporates an exterior aluminium facing shell. The exterior colour choice then becomes virtually unlimited through the use of powder coated or anodised surface finishes.

REFER SECTION 1.3 SURFACE FINISHING

## **GLASS**

Double glazed units with a thickness of 24mm are used as standard. The full range of glass types can be included. Thickness and type to be used is covered by the Human Impact Safety Requirements of NZS4223. For further information consult your local Vantage manufacturer.

Klima is rated to the maximum 6 energy stars under WEERS (Window Energy Efficiency Rating System) when used with Low-E double glazing (4.5 with standard clear double glazing).

## **PERFORMANCE**

Klima windows from Vantage have been tested for performance and comply with NZS4211: 2008 Performance of Windows.

They can be expected to have a trouble-free serviceable life of not less than 15 years as required by section B2 of the New Zealand Building Code. This pertains specifically to the structural elements of the joinery.

In the course of normal maintenance decorative elements and non-structural fittings such as window fasteners, door rollers, hinges, weather pile and the like may need to be replaced as they wear out. This process does not contravene the B2 Durability requirements of the New Zealand Building Code.

## **SIZES**

Sashes are capable of a range of sizes with awnings up to 1400mm high x 900mm wide (casements 1400mm high x 800mm wide). Inward opening casement and hopper windows using tilt-and-turn hardware have maximum recommended sizes of 1400mm high x 800mm wide.

Because sliding windows are based on the door system, limitations are the same as for sliding doors.

## **HARDWARE**

The window fastener used on awning windows and outward opening casements is an Urbo style handle that activates an espagnolette two-point locking system for enhanced security. One handle is adequate for wide sashes. A venting position is also available to allow trickle ventilation. Available in a range of finishes.

Inward opening casement / hopper windows use tilt-and-turn hardware that is activated by an Urbo style handle, which is available in a range of finishes.

## **DOORS**

Hinged Doors have 76mm-thick panels and are available in open-out and open-in formats. The open-out frame (K76113) and open-in frame (K76114) have flat external faces in keeping with the look of window frames. Open-in doors have a low threshold option. In this, a colour-matched aluminium threshold is used. French doors can be supplied in both outward opening and inward opening formats. The inward opening

system features meeting stiles that are flush on the exterior, while in the outward opening system they are flush on the interior face. Meeting stiles have identical widths. Suitable to heights of 2.1m in very high wind zones.

Sliding doors slide on an interior track (K76056) with fixed sidelight. A perimeter frame extender (K76057) provides a deeper frame for multislider doors. On sliding and fixed panels a common rail / stile (76041) is used. There is no provision for adjoining opening windows. Colour-matching aluminium thresholds are used at the sill to ensure durability. Interlocker stiles and mullions are flush in the closed position. Suitable to heights of 2.1m in very high wind zones.

## **GLAZING BEADS**

Beads are sloped in hinged doors are flusher to the glass in sliding doors.

## **FINISH / COLOUR**

Klima products are available as standard in white but can also be supplied with other exterior colours using the 'Aluclip' system. This incorporates an exterior aluminium facing shell. The exterior colour choice then becomes virtually unlimited through the use of powder coated or anodised surface finishes.

REFER SECTION 1.3 SURFACE FINISHING

## **GLASS**

Double glazed units with a thickness of 24mm are used as standard. The full range of glass types can be included. Thickness and type to be used is covered by the Human Impact Safety Requirements of NZS4223. For further information consult your local Vantage manufacturer.

Klima products are rated to the maximum 6 energy stars under WEERS (Window Energy Efficiency Rating System) when used with Low-E double glazing (4.5 with standard clear double glazing).

## **PERFORMANCE**

Klima doors from Vantage have been tested for performance and comply with NZS4211: 2008 Performance of Windows.

They can be expected to have a trouble-free serviceable life of not less than 15 years as required by section B2 of the New Zealand Building Code. This pertains specifically to the structural elements of the joinery.

In the course of normal maintenance decorative elements and non-structural fittings such as window fasteners, door rollers, hinges, weather pile and the like may need to be replaced as they wear out. This process does not contravene the B2 Durability requirements of the New Zealand Building Code.

## **SIZES**

Hinged doors have a recommended maximum size of 2100mm high x 900mm wide. Sliding doors have recommended maxima of 2100mm high x 1200mm wide per panel.

## **HARDWARE**

Hinged doors have an Urbo style lever handle that activates four points of locking in the jamb frame. Hinges are made from colour-matched zinc. French doors have a similar system with an Urbo handle that operates four points of locking in the adjoining 'lazy' door stile. Sliding doors have an Urbo style lever handle. This operates four points of locking in the perimeter frame or adjoining door stile.

## **SUSTAINABILITY**

Klima windows and doors reduce energy consumption through their high thermal efficiency rating. Less home heating is required. Klima is rated to the maximum 6 energy stars under WEERS (Window Energy Efficiency Rating System) when used with Low-E double glazing.

The PVC used in Klima profiles does not contain the heavy metal lead. Stabilisers are based on the much more eco-friendly elements, calcium and zinc.

The Klima manufacturing facility incorporates advanced technologies that minimise waste. There is zero waste from the PVC welding process and minimal waste from profile cutting. It is envisaged that the small amount of scrap that is produced every year will be recycled either domestically or overseas.