

# HINGED & FRENCH DOORS

## MAIN FEATURES

- Maximum 2.1m high doors in very high wind zones. For larger sizes consider using the METRO SERIES (Section 4) or APL ARCHITECTURAL SERIES (Section 6)
- Wide top and bottom rails for a strong, substantial appearance
- An optional 85mm bottom rail extender is available to create an even deeper look in the classic French door style
- Flat-faced frame for a clean, contemporary look
- Square cut corners for improved aesthetics
- Rebated meeting stiles give a flush appearance where French doors overlap and provide superior weathering (narrow and wide options)
- Parliament hinges allow doors to open a full 180° in a brick veneer application
- Secure weathering is achieved through a sill drainage system and backing seal design.

## FRAME TYPES

**Open Out** box section door frame.

**Open In** box section door frame.

**Insert** box section door frame.

**Replacement** frame open in/out.

**Flush** door threshold.

**Awning or casement** sashes can be installed into hinged or French door panels, or directly into sidelights using hinge door mullion.

## MULLIONS AND TRANSOMS

All beaded for double glazing up to 22mm or single glazing up to 11mm.

**Hinged Door Sidelight Mullion / Overlight Transom.**

**Heavy Duty Mullion / Overlight Transom.**

**Coupling bars - overhead, 90°, 135° and 180°**

## TOP AND BOTTOM RAILS

All beaded for double glazing up to 22mm and single glazing up to 11mm.

**Deep Rail** (115mm).

**120mm Stile/Rail.**

**Narrow Rail.**

**Curving Rail** for single or double glazing for doors with a curved top.

**Rail Extender** for deepening the appearance of bottom rails.

## VISION RAILS

All beaded for single and double glazing.

**Vision Rails** (62mm and 74mm)

**Fixed Light Rail** (117mm).

## DOOR STILES

All beaded for single and double glazing.

**Hinged Door Stile.**

**120mm Stile /Rail** ideal for 60mm backset locks.

**French Door Rebated Lock Stile (narrow and wide options).**

**French Door Rebated Keeper Stile (narrow and wide options).**

## **GLAZING BEADS**

Beads come in three types to cater for different looks and glass thicknesses:

**Flat (or Flush)** where double glazing is used.

**Sloped** for single glazed sashes and fixed lights.

**Square** to achieve a strong, solid look - when single glazing is used.

## **COLONIAL GLAZING BARS**

These come in three bar widths -18mm, 24mm and 28mm. For single glazing the raised bar is adhered to the glass exterior with the matching size flat bar applied to the inside. For double glazing the flat bar must be used both internally and externally.

## **FLASHINGS**

Altherm has a range of standard flashings.

## **CURVING**

Altherm has a range of hinged door extrusions that can be curved to suit most requirements.

## **FINISH / COLOUR**

Powder Coated in a wide range of colours.

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

## **GLASS**

Double glazed units to a maximum of 22mm thickness are possible. Single glazing also available. Glass thicknesses should be in accordance with NZS4223: Glazing in Buildings. The full range of glass types can be included in this product. For further information consult your local Altherm manufacturer. For glass panels over 0.5m<sup>2</sup> Grade A safety glazing must be used.

## **PERFORMANCE**

Altherm complies with NZS4211: 2008 Performance of Windows. Certificates provided on request.

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

## **SIZES**

WAZ test sizes are 2010mm high x 910mm wide for hinged doors and 2010mm high x 1710mm wide for French doors. For glazed hinged doors a maximum door size of 2100mm high x 900mm wide is recommended in very high wind zones. Higher doors may be possible in lower wind zones.

Door size is also dependent on weight - with each hinge rated to a load of 20kg - and the ability to ensure satisfactory sealing at top and bottom. Alternatively consider using doors from the METRO SERIES or APL ARCHITECTURAL SERIES).

## **HARDWARE**

Altherm hinged doors are fitted with a lever handle and mortice lockset in the stile.

French door flush bolts are concealed from view in the leading edge of the 'lazy' door panel. Available in black or can be coloured to match when specified. Alternatively, a twin bolt lock can be used.

Door hinges are purpose made butt hinges with three or four per door (depending on panel weight and height). Standard colour is black. Other powder coat colours are available.

Parliament hinges are available which allow recessed doors to open 180° if preferred. Standard colour is black. Other powder coat colours are available.