



MATERIALS

All frames are manufactured from the REHAU Total70c & Total70s (70mm System) depending on customer preference. Total70c & Total70s (70mm) frames are available in a wide range of finishes including standard White, Mahogany, Mahogany on White, Light Oak, Light Oak on White, Rosewood and Rosewood on White, in addition a range of standard RAL colour paint finishes and coloured foils are also available to special order.

All profiles used are unplasticised polyvinyl chloride (PVCu) extrusions with high impact resistance and manufactured in accordance with BS 5750 Part 2 and BS 7413:1991. Profiles are produced by conventional extrusion techniques from material complying with Case B, as defined in BBA Moat No.17:1990. Recycled PVCu is never used.

REINFORCING

Window and Door frames (white finish) shall be reinforced where necessary, to comply with design limitations, Woodgrain or coloured Windows and Doors will be fully reinforced throughout. All reinforcing will be continuous in length and will be manufactured from 1.5mm - 2mm thick galvanised steel core sections to BS 1474.

CONSTRUCTION

Frames are usually constructed with internal glazing beads, this method provides the optimum security, as the glass cannot be removed from the outside. Total70c (70mm System) frames can also be manufactured with external glazing beads if preferred.

All frames shall incorporate drainage slots concealed within the profile chambers, pressure equalisation slots shall also be provided to assist the egress of water.

All frame, transom, mullion and sash joints shall be homogeneously fusion heat welded. The resulting joints shall be finished by the grooving method for White frames or the knifed method for Woodgrain frames.

Where Windows/Doors cannot meet the gusting requirements (in accordance with type testing to BS 7412) they will be sub-divided with reinforced joiners between the divisions.

FITTINGS - CASEMENT WINDOWS

All furniture and fittings are of the highest quality available. Opening Casements are hung on stainless steel Friction Hinges with Restrictor or easy clean Fire Escape Hinges also available. A non-clean Fire Escape option can be supplied if requested. Hinges are located in purpose designed grooves within the profile and are fixed with corrosion resistant screws. The size of the hinge will depend on size, weight, handing and exposure of the relevant openers. Hinges are manufactured from type 430 stainless steel to BS EN 10088-2 (formerly BS 1449:part 2).

Casement locks have been selected for their reliability and security characteristics. Both our Espagnolette and Shoot Bolt systems incorporate mushroom headed adjustable cams, all locking points locate into steel keeps. The Shoot Bolt Lock has been tested to 7.4kn. Which is more than double the current requirements of BS 7950: 1997.

Ergonomically designed handles are used to open the casement vents, these are available in a range of finishes including White, Polished Gold, Polished Chrome, Satin Silver and Black. Handles feature a push button release mechanism which can be key locked for added security.

FITTINGS - DOORS

Doors Sashes are hung on 3 no. adjustable Butt Hinges, or Heavy Duty Flag Hinges, as required, the latter offers a greater degree of security and a wider range of adjustment.

All Doors are fitted with High Security, Dual/Split Spindled Multipoint Locks designed and manufactured to the most stringent European standards. Locks incorporate latch, deadbolt, 2 roller cams and 2 steel hook bolts and 2 deadbolts.

The dead bolt and hook bolts have a 20mm throw and locate into steel keep plates with hardened adjustable hook bolt inserts. Locks fitted to French Doors have additional top and bottom shoot bolts. All locks have been approved by the ABI (Association of British Insurers) and meet the requirements of the new PAS 23/24 security standard.

Door Furniture is available in White, Polished Gold, Polished Chrome, Satin Silver and Black finishes. Lever handles or Lever Pad handles can be specified.

GLAZING GASKETS/WEATHER SEALS

Glazing gaskets and weather seals satisfy the requirements of BS 7412 class B. Glazing gaskets and weather seals are extruded from non-migratory EPDM (Ethylene Polypropylene Diene Monomer) and comply with BS 4244 Part 1.

All opening lights shall close against 2 weather seals.

Glazing gaskets are Low-Line and are designed to be unobtrusive around the perimeter of the glass. When used in externally glazed situations the gasket will incorporate a built in lowline security tape to prevent removal of the glazing from outside.

GLASS & GLAZING

Double glazed units, where supplied, are manufactured from 2 panes of 4mm float glass, 1 pane of which has a low emissivity coating, hermetically sealed around a perimeter spacer frame which provides a 20mm insulating air gap. The overall sealed unit thickness will therefore be 28mm. When it is necessary to use glass thicker than 4mm the air gap will be reduced accordingly.

Double glazed units can be manufactured to comply with the minimum energy requirements of Part L and above, and to meet the performance requirements of BS 5713:1979.

Glass shall be specified for type, quality and substance according to BS 952 and BS 6206 and the glazing of windows and doors shall be according to BS 6262. Glass shall be at least of the minimum thickness to meet the wind load requirements of BS 6262.

When advised of glazing within 800mm of floor level, glass will be toughened safety glass.

BAY CONSTRUCTION

Bays can be constructed using various methods dependant on the situation and/or angles. Fixed angles use either the 90° post, 135° or 150° kites & all other angles use the variable angle method. They are available in white and woodgrain finishes.

Load bearing bays can be catered for by using our jacking poles that permit vertically applied loads of up to 2 Tonnes. It is our customer's responsibility to determine if the bay should be load bearing.

95mm, 150mm and 180mm welded cills can be supplied in all finishes, & 225mm in white finish only.

Window outer frame heights are reinforced as standard to all bays, and frame all-round for conservatories.

PERFORMANCE

Air Permeability – Windows & Doors satisfy the requirements of BS 6375, Part 1:1989 for test pressure of minimum 600pa in accordance with BS 5368, Part 1:1976.

Water Tightness – Windows & Doors satisfy the requirements of BS 6375, Part 1:1989 for test pressure of minimum 300pa in accordance with BS 5368, Part 2:1980.

Wind Resistance – Windows & Doors satisfy the requirements of BS 6375, Part 1:1989 for test pressure of minimum 1500pa in accordance with BS 6368, Part 3:1978.

All information is correct at the time of printing however we reserve the right to make such changes as deemed necessary in line with our policy of continued product development.

For further assistance, call 01702 613733

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