Visofold 6000 Folding Doors

Designed for use as doors for single / double open in or out, sliding and folding screens open in or out, internally beaded, for domestic and light / medium applications.

Thermal breaks are formed with polyamide strips PA 6.6 25 reinforced with glass fibre, fitted between aluminium extrusions. All profiles are extruded from aluminium alloy 6060/6063 T5/T6 and comply with the recommendations of BS EN 12020-2; 2001/BS 755-9: 2001. Profiles can be Electrostatic powder coat finished in a range of RAL colours to APA Qualicoat guidelines with the option of BI-colour, different internal and external colours. Other finishes include anodised in satin with EWAA/EURAS-Qualanod quality label. Powder-coated woodstructure finishes are available on request.

The system is built up using integral rollers and top guides with inbuilt hinge.

The system allows for a variety of sash and opening combinations and is supplied with security locking on the main stiles. Options include outward or inward opening profiles, internal beading and up to 38mm glazing.

Product tested to BS6375: Part 1. Weathertightness classification:

Air Permeability – Class 2 300Pa

Water Tightness – Class 6A 250Pa

Wind resistance – Class A3 1200pa

**Note** – All testing conducted on a 2+1 leaf assembly including a travelling mullion. Complete new suite testing to commence at BSI end of Jan 2022 to include PAS24:2016

Doors are manufactured to the required design to within the following maximum limitations (subject to location).

Max height 2200mm. Max Sash width 1000mm. Weight limit 100Kg per leaf.

Subject to agreement it is possible to exceed these limitations depending on design criteria, contact Smart Systems Technical Department for details.

Consult Smart Systems Ltd technical literature for details. Smart Systems Ltd can also provide design and specification guidance and it is recommended that they are consulted early in the design process.

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**Product reference**: Visofold 6000 Door

**Materials**: All profiles are extruded from aluminium alloy 6060/6063 T5/T6 and comply with the recommendations of BS EN 12020-2; 2001/BS 755-9: 2001. Thermal breaks are formed with polyamide strips PA 6.6 25 reinforced with glass fibre sections capable of withstanding temperatures up to 200°C for over painting.

**Performance**: Product tested to BS6375: Part 1 (Air Permeability –Class 2 300Pa. Watertightness- Class 6A 250Pa. Wind resistance Class A3 1200Pa).

**Exposure**: Design Wind Pressure **TBA**

**Thermal**: All doors, in conjunction with a suitable glazing specification, to achieve an average project U-value to meet the current requirements of the approved Building Regulation Document L1/L2 for England and Wales. Target window U-value **1.5W/m2K**

**Structure**: All structural profiles to be designed so as the maximum deflection of any glass edge into a framing member under wind load shall not exceed L/175 of its span with no evidence of any permanent deformation once the load has been removed. All horizontal framing members to restrict dead load deflection to L/400, up to a maximum of 3mm.

**Construction**: All doorsets shall be manufactured & installed and glazed in strict accordance with Smart Systems instructions and guidelines as set down in the appropriate technical literature, details and specifications. Minimum depth of outer frame sections shall be 70mm incorporating two 18.6mm polyamide thermal break sections within the window profiles. All outer frame and vent members to be 45° mitred corner construction, reinforced by means of extruded aluminium cleats and stainless steel corner braces. All corner joints to be secured by gluing & crimping or gluing and mechanical corner Cleats. All mullions and transoms to be cut/shaped and secured using either stainless steel screws driven into integral screw ports within the sections or cruciform Cleats. All joints to be sealed during construction using suitable ‘small gap’ sealant. The doors to incorporate an internal pressure equalized drainage system with concealed down drainage through a sub sill or frontal drainage with snap on cover caps.

**Finish as Delivered:** Internal Colour: TBA External Colour: TBA

**Glazing details**: Windows shall be glazed and internally with square bead. Unit thickness. Overall thickness of up to 40mm. All internal glazed doors to be dry glazed using ‘snap in’ extruded aluminium beads and EPDM extruded gaskets.

**Target window u value based on a double glazed unit having a centre pane u value of 1.0W/m2K and including a suitable warm edge spacer such as Swisspacer Ultimate or better.**

**Ironmongery / Accessories:** No additional Ironmongery or Accessories required.

**Fixing**: All fixings to be in strict accordance with the relevant British Standards, including BS 6262 and BS8213 Part 4: 2007, and shall ensure the window is retained securely within the opening without incurring any damage or distortion to the window frame. Generally, fixings to be positioned 150mm from each corner and each mullion/transom and at centres not exceeding 600mm. Fixing lugs/straps only to be used where they can be suitably concealed to approval. All Fixing of windows to the supporting structure to be achieved using a suitable lug and/or frame anchor fixing method capable of accommodating all applicable loads, deflection, tolerances and expansion expected on site. Details of the proposed fixing method shall be submitted to the project engineer for approval prior to installation.