VS600 Vertical Sliding Window

Designed for use as vertical sliding windows, beaded glazed, for domestic and light / medium commercial 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. All sliding vents hung via spring balances and can include for inward tilt for cleaning.

Glazing conforms to the requirements of BS 6262 and Part ‘N’ of the Building Regulations for both thickness and type.

Aluminium profiles and EPDM gaskets will accommodate 24 or 28mm units.

Windows are manufactured according to customer requirements from a range of standard profiles.

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

Max height and width dependent upon wind load. Maximum width up to 1600mm, maximum height up to 2800mm. Max weight 50Kg per sliding leaf.

Outer frame width to height ratios as stated in technical fabrication manual.

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.

Product tested to BS6375: Part 1. Weathertightness classification:

Air Permeability – Class 3 600Pa.

Watertightness – Class 7A 300Pa.

Wind resistance – Class A4 1600Pa

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**Product reference** VS600 Windows.

**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.

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

**Thermal**: All windows, 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 **TBA**

**Structure**: All structural profiles to be designed to meet CWCT guidelines.

**Construction**: All windows 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 126mm (two tracks) incorporating four 24mm polyamide thermal break sections within the window profiles. All outer frame members to be square butt joint construction. All joints to be sealed during construction using suitable ‘small gap’ sealant. The windows to incorporate an internal pressure equalized drainage system with concealed down drainage and cill member frontal drainage. Subcill can include for downward drainage.

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

**Glazing details**: Glazing shall be factory fitted.

Aluminium profiles and EPDM gaskets to accommodate glazing thickness of 24 and 28mm.

**Ironmongery / Accessories: TBA**

**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.