# Smart Systems Ltd

Tel: 01934 876100

## L20 DOORS/SHUTTERS/HATCHES

### 280 . . . . . . DOORS

Smart Systems are a major supplier to the window and door fabrication industry and are active members of The Council for Aluminium in Building (CAB) and members of CWCT.  
Smart Systems aluminium and composite profile product range includes, doors, windows, glazed screens, curtain walling, roof glazing and conservatories, for both the commercial and domestic markets. An extensive range of ancillary items such as door panels, louvres, balustrades and glazed in trickle vents are available to complement each product range.   
Door and door frames are manufactured from grade 6060/6063 T5/T6. Size tolerances are in accordance with DIN and BS standards.  
Co-extruded profiles and EPDM seals are tested in accordance with DIN 7863, TV 110, NFP 85301, ISO 3994. Thermal breaks are formed with polyamide strips PA 6.6 25 reinforced with glass fibre, fitted between aluminium extrusions.   
Profiles can be Electrostatic powder coat finished in a range of RAL colours to APA Qualicoat guideline. Other finishes include anodised in satin with EWAA/EURAS-Qualanod quality label. Powder-coated woodstructure finishes are available on request.

#### Shopline Door

Designed for use as open out or open in, single or double doors, internally and external beaded, with sidelight options, for domestic and light / medium / heavy commercial applications.  
Door and door frames 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. Other finishes include anodised in satin with EWAA/EURAS-Qualanod quality label.  
All doors are hung on aluminium butt / face hinges or transom / floor closer and fitted with hook bolt or roller latch locking mechanisms.  
Glazing conforms to the requirements of BS 6262 and Part ‘N’ of the Building Regulations for both thickness and type. Weatherseals are EPDM set in undercut channels.  
Single glazing profiles accommodate 6mm to 12mm units.  
Double glazing profiles accommodate 24mm to 28mm units.  
Doors are manufactured according to customer requirements from a range of standard profiles and are designed to incorporate a range of options, therefore it is advisable to contact Smart Systems technical design department early in the design process.  
Doors are manufactured to the required design to within the following maximum limitations (subject to location).  
Single door – Max Sash width 1150mm. Max height 2400mm.  
Double door – Max width 2400mm. Max height 2400mm.  
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.

**Manufacturer**: Smart Systems Ltd., North End Road, Yatton, North Somerset. BS49 4AW. Tel: 01934 876100. Fax: 01934 835169. Email: sales@smartsystems.co.uk Web: www.smartsystems.co.uk   
**Product reference**: Shopline 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**: No thermal requirement required.   
**Structure**: All structural profiles to be designed so as the maximum deflection of any glass edge into a framing member under windload 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.Shopline outer frame sections shall be 50mm width with a depth of 100mm.  
Door profiles are square cut and a suitable small gap sealer is applied to abutments and joined using mechanical corner cleats.  
Drip bar shall be used to all doors.

**Finish as Delivered:**   
**Colour**: White.

**Glazing details**: Glazing shall be site glazed as section L40.  
Unit thickness. TBA  
All doors to be dry glazed using 'snap in' or shuffle extruded aluminium beads and EPDM extruded gaskets.

**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 shall ensure the door frame is retained securely within the opening without incurring any damage or distortion to the 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 door frames 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.