

DOORS

A range of profiles is available to produce pivot swing doors, hinged pivot doors and sliding doors. Stiles are in sizes to suit doors for use in heavy traffic areas and for doors in very heavy traffic area such as hospitals, schools and supermarkets, etc.

Doors are bead glazed for high security internal and are hung over a low threshold or no threshold for wheelchair access and a safe pedestrian walkthrough. A full range of hardware and accessories is available in stock.

CENTRE PIVOT SWING DOOR

A twin weather-stripped swing door offering the maximum offensive to foul weather conditions is suitable as a single door or as double doors for installation into screenwork or direct to building.

Doors have a flat feature to inside face of stile allowing the fitment of various locking systems. The lock face is situated between lines or weather-stripping, thereby eliminating the need to break the seal about the locking area. The lock is securely mounted into stiles by means of pillar support tapped through the rear of the stile or by means of unique fixing tags inserted into housing inside the stile. The lock face plate is flush with the surface of the stile.

Doors are hung using concealed overhead transom door closers and floor or threshold pivot sets and security is offered by means of a high security hook bolt, which locks into armoured keeps set into mating outer frame jamb member or into slave stile when a pair of doors is required.

CENTRE PIVOT SWING DOOR WITH ANTI-FINGER TRAP DEVICE

With the ever increasing demand for safety in use an anti-finger trap device is included for use with the centre pivot swing doors.

This device ensures that the hinged side of the door is always in contact with the outer frame jamb no matter what position the door is in during its opening mode.

This door offers the same qualities of twin weather-stripping as well as full range of hardware and accessories to suit.

HINGED PIVOT DOOR

Having all the features of the pivot swing door, this door is hung by three face mounted hinges and incorporates a face mounted door closer and a rebate system along head and jambs. A full range of hardware and accessories is available to suit.

SLIDING DOORS

Using standard Shopline profiles, sliding doors can be constructed to suit commercial application. For full details please contact Smart Systems Technical Department.

AUTOMATIC DOOR OPERATING SYSTEM

Working with Besam, the following automation can be incorporated into the doors.

Sliding

Surface mounted, in-header and telescopic systems for door widths from 1 metre to 3 metres. Silent, unobtrusive and safe, they are ideal for entrances to public premises of all types.

Swinging

Electro-hydraulic surface mounted and electro-mechanical in-header operation for entrances, halls and corridors in hospitals, hotels, banks, shops and offices. For full information, please contact Smart Systems Technical Department.

Shopline is an architectural aluminium system designed especially to suit the needs of commercial ground floor treatment.

A proven system, Shopline is successful in the British marketplace, complying with the demands of architects, local authorities and property managers for projects around the UK.



commercial screening

- Fully weatherstripped for high performance
- Suitable for single or double glazing
- Wide choice of paint and anodised finishes
- Choice of specialist hardware to suit all requirements
- Anti-finger trap stile



- Accommodates glazing from 6mm single to 28mm double glazed units or panels
- Choice of 75mm, 145mm and 200mm midrails
- Three anti-finger trap stile options
- Choice of six stile options to suit all hardware requirements
- Larger cleats

Smart Systems Ltd have been trading autonomously within the UK for 25 years. They can be considered a 'one stop shop' for the window fabrication industry with a product range that includes windows with various opening facilities, (i. e. tilt/ turn, projecting, fully reversible, sliding); doors - manual or automatic; glazed screen and curtain walling; roof glazing and conservatories. Smart Systems Ltd are active in the aluminium, aluminium/ PVC- U composite and aluminium/ timber composite sectors of the UK architectural market.

Further information on Smart Systems' products may be found on our website www.smartsystems.co.uk, by email: sales@smartsystems.co.uk or by contacting the Marketing Department on 01934 876100.

CONSTRUCTION

Door jamb members are square cut to size and all relevant machining for lock cut-outs, hinge fixing and mechanical cleat fixing is carried out by means of router and punch tool technology. Horizontal members, such as top, bottom and middle rails, are square cut to size and all relevant machining for letter boxes, cleat locations and hardware is carried out by drill and punch tool technology. Unique mechanical cleats are located into jamb members and fixed into position by socket head screws. Horizontal members are pushed into position over the cleats and fixed. All finished joints offer exceptional strength ensuring a high performance door.

HARDWARE

To offer maximum security against unlawful entry through the doors, yet maintaining a pleasing appearance to the building, Smart Systems would recommend the following or equivalent to be used: -

Centre Pivot Swing Doors

Adams Rite ARC-51 Overhead transom concealed door closer in a range of strengths for door widths

- Internal up to 1250mm
- External up to 1150mm*

A range of floor/threshold pivots is available for use with the overhead closer for door weights up to 200kgs*. When wider doors are required, contact Smart Systems Technical Department.

Hinged Pivot Doors

Having all the features of the pivot swing door, this door is hung by face mounted hinges and incorporates a face mounted door closer and a rebate system along head and jambs. A full range of hardware and accessories is available to suit.

Aluminium Profiles

Profiles are extruded from aluminium alloy 6063 T6 and comply with the recommendations of BS 1474.

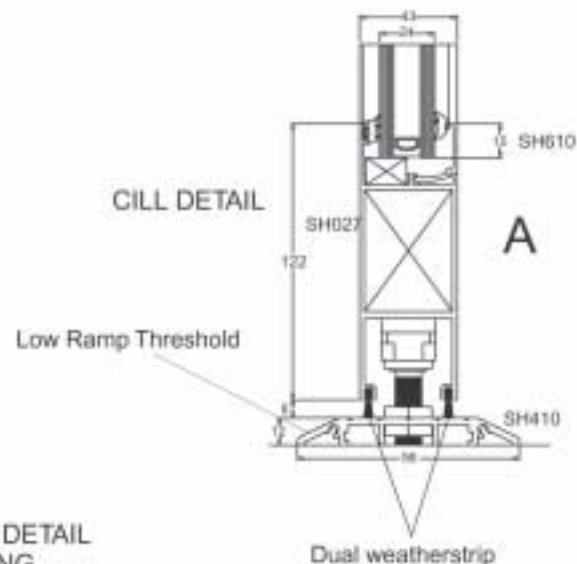
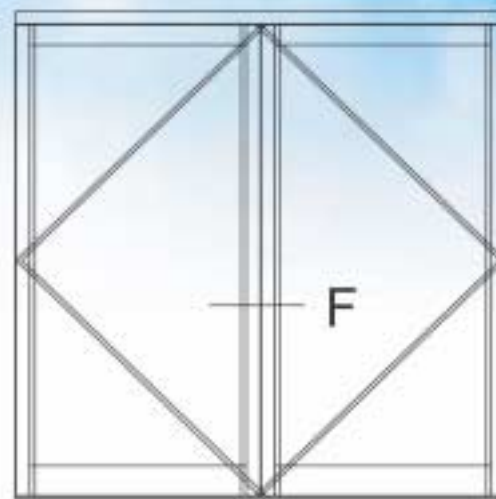
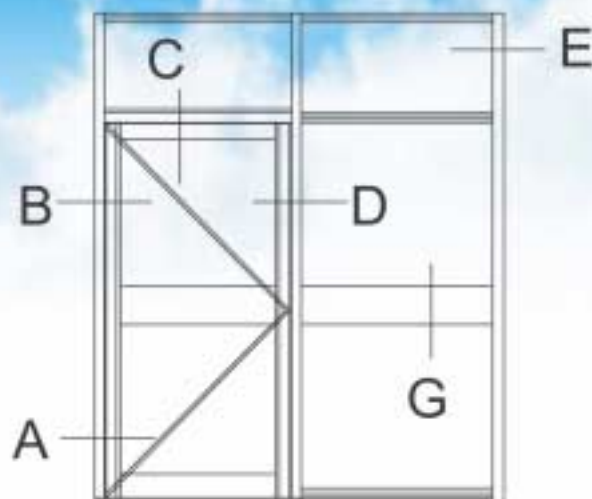
Sections are pre-treated and finished:

- anodised AA25 to BS 3987 in a natural self colour and other agreed colours.
- polyester powder organic coating to BS 6496 in white high gloss.
- polyester powder organic coating to BS 6496 in agreed colours, matt or gloss finish.

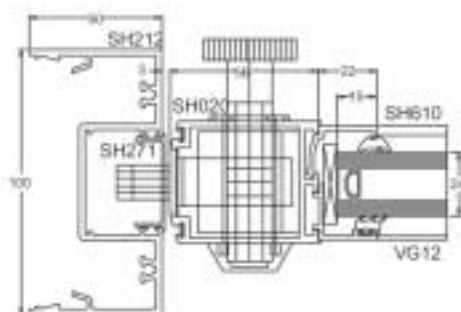
SECURITY OPTIONS

Smart Systems highly recommends Adams Rite locking/security systems and in particular, the MS2200 maximum security deadlock, hook bolt which, when used in conjunction with the 4052 armoured strike, offers formidable obstruction to unlawful intrusion. The locking system is designed to accept any standard 17mm Europrofile cylinder/thumbturn or 22mm Kaba round profile cylinder/thumbturn. Many locks, including armoured flush bolt, multi-point locks, latch deadlocks, together with reinforced strikes, are available for use in door frames and mating stiles to meet all requirements. A full range of fire-rated exit devices and provision for an emergency exit from inside the building by means of a panic release horizontal crash bar, is available for single acting open-out doors. A range of push-pull pad handles is available in anodised and paint finish and colours by agreement.

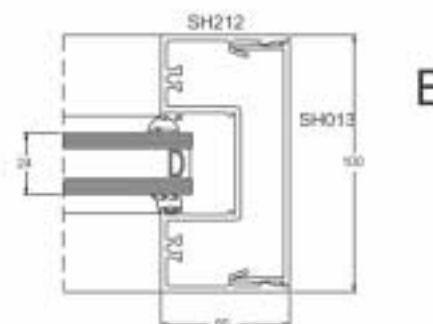
commercial screening system



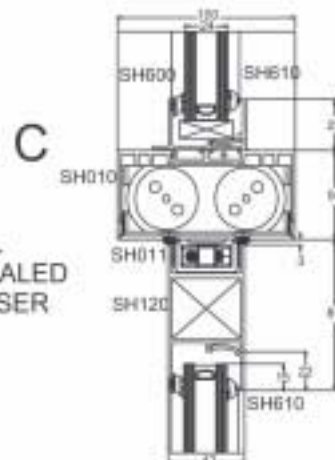
LOCKSTILE DETAIL SHOWING THUMBTURN



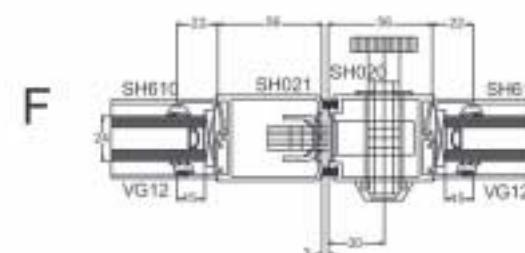
JAMB DETAIL



HEAD DETAIL SHOWING CONCEALED OVERHEAD CLOSER



MEETING STILES- DOUBLE ACTION DOORS



There is also the option to use other desirable furniture. Commercial letter box sets in anodised and paint finish are available to complement the system.

open-out doors. A range of push-pull pad handles is available in anodised and paint finish and colours by agreement. There is also the option to use other desirable furniture. Commercial letter box sets in anodised and paint finish are available to complement the system.

Glazing

Glass shall conform to the requirements of BS 6262 for thickness and type, and being either Pocket glazed or bead glazed, is set dry against EPDM PVC or nitrate gaskets. Glazing beads and gaskets will accommodate glass of 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 24mm, 25mm, 26mm, 27mm and 28mm nominal thickness and meet with the requirements of BS 6262 Code of Practice for Glazing for Buildings.

FRAMEWORK

Framework profiles, when joined together, form an even sight line of 50mm on face with an inside to outside depth of 100mm. The system is shuffle glazed for normal installations and can be bead glazed for high security requirements where the glass is required to be glazed from the inside. Framework designed drainage cill to remove any ingress of moisture within the system.

CONSTRUCTION

Profiles are square cut and a suitable small gap sealer is applied to the abutment faces and members joined to each other by means of self-tapping screws driven into screw receptacles in the profiles. Excess sealer is then promptly removed. All fixings used in construction are either stainless steel or other suitable corrosion resistant material to provide resistance to both atmospheric and electrolytic corrosion. Drainage at cill is provided by incorporating 25mm x 5mm drainage slots, details of which are provided in the Smart Systems Shopline Technical Manual.

PRODUCT RANGE

Commercial screenwork and entrance doors to satisfy all ground floor treatments are manufactured to the required design. Size limitations of screenwork or door is dependent on many factors such as type and weight of door, height of screenwork and the subsequent calculation results based on the mechanical strength of the profiles, type of glazing used, location and height of building. Smart Systems Commercial Sales Team is available at all times to discuss projects and provide help with design and specification for all aspects of ground floor treatments. CAD facilities are available service to all levels of specification. The Technical Department can provide assistance with the performance and design criteria of individual systems. Whilst the product range is one of the most comprehensive available, Smart Systems is happy to discuss the production of new or modified products to meet specific project requirements.

smart
SYSTEMS