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 the outer frame jambs no matter what position the door is in during its opening mode.

This device ensures that the hinged side of the door is always in contact with the outer frame jambs 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 further information please contact Smart Systems Technical Department.

AUTOMATIC DOOR OPERATING SYSTEM

Working with Beaton, 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.

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 jams members are square cut to size and all relevant machining for lock cut-outs, hinge fixing and mechanical fixings are 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, delays, locations and hardware is carried out by drill and punch tool technology. Unique mechanical details are located into jambs members and fixed into position by socket head screws. Horizontal members are pushed into position over the cills and fixed. All finished joints offer exceptional strength ensuring high performance doors.

HARDWARE

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

- Centre Pivot Swing Doors
  - Adams Rite ARG-51 Overhead transom concealed 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 250kg.
  - 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 closer and a rebate system along head and jamb. A full range of hardware and accessories is available to suit.

- Aluminium Profiles
  - Profiles are extruded from aluminum alloy 6063 T5 and comply with the recommendations of BS 1474.
  - Sections are pre-treated and finished:
    - anodised AA25 to BS 3897 in natural self colour and other agreed colours.
    - polyester powder organic coating to BS 5409 in white or black.
    - polyester powder organic coating to BS 5409 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 4302 arced stroke, offers formidable obstruction to unlawful intrusion. The locking system is designed to accept any standard 7mm Europrofile cylinder/Thumbturn or 22mm Kaba round profile cylinder/Thumbturn. Many locks, including armed flush bolt, multi-point locks, latch deadlocks, together with reinforced strikes, are available for use in frame doors and mortised stiles to meet all requirements. A full range of fire-rated and 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 opening 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.

- Fire 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

Glaze shall conform to the requirements of BS 6262 for thickness and type, and being either heavy duty glazing or bead glazing, is set dry against EPDM or nitrile gaskets. Glazing beads and gaskets will accommodate glass of 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 16mm, 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, when joined together, form an even, right line of 50mm on face with an insulating depth of 100mm. The system is specially designed for normal installations and can be based glazed for high security requirements where the glass is required to be glazed from the inside. Framework designed drainage will remove any ingress of moisture within the system.

CONSTRUCTION

Profiles are square cut and a suitable small gap seal is applied to the abutment faces and members joined to other by means of self-tapping screw driven through the rebate. The rebate is of the traditional type. Excess sealant is then promptly removed. All fixings used in construction are either stainless steel or other suitable corrosion resistant material to provide resistance to both airborne and electrolytic corrosion. Drainage at sill is provided by incorporating a 50mm x 5mm drainage slot, detail of which is provided in the Smart Systems Shopline Technical Manual.

PRODUCT RANGE

Commercial screenwork and entrance doors to satisfy all floor treatments are manufactured to the required design. Site 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 profile, type of glazing used, location of a height of building. Smart Systems Commercial Sales Team is available at all times to discuss projects and provide the 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

For further information contact your local Smart Systems team on 0845 603 0303 or email: info@smartsystems.co.uk