Insulated Doors & Rolling Shutters
SD600 Sectional Overhead Door

Applications
SD600 is designed to suit individual openings for all types of commercial and industrial buildings where the need for energy conservation is desired.

Operation
Push up
For doors up to 3100mm high or 9m², the standard method of operation is push up with pull down rope.

Geared Hand Chain
For doors up to 25m² geared hand chain is available. This is optional on doors under 3100mm high.

Electric
When frequent use is called for, electrical operation is recommended. The drive is usually mounted directly to the spring shaft, but can be independently mounted, if more convenient. Emergency hand chain is included as standard. Motors usually supplied as standard 415 Volt 3 phase with low level push button controls. Single phase available.
**Specification**

Doors are usually assembled from 610mm x 40mm thick panels constructed from 0.50mm thick horizontally ribbed galvanised steel sheet with an integrally CFC free foamed core of rigid polyurethane producing a very strong and rigid section having an excellent thermal transmittance (U value) of 1.50w/m²K based on a door area of approximately 25m². The ends of the panel are fitted with galvanised end caps, which carry the roller/hinge assemblies. Each panel has rebated meeting edges incorporating built in seals of closed cell PVC foam to form weathertight joints.

An 80mm thick panel is also available.

**Finish**

- Internal face of panel polyester stucco white
- External face available in a range of Kingspan XL200, HP200 Plastisol, HPS200 Scintilla, PVF2 Metallic Silver and painted finishes to standard BS/RAL colours
- Tracks are hot dipped galvanised as standard

**Hardware**

Manual doors include inside and outside footstep handle and one internal spring loaded shoot bolt.

Cylinder key locking available at extra cost.
Seals
Flexible black rubber seals are fitted to all four sides. The top seal compresses against the lintel. The bottom seal has 3 points of contact with the floor.

We recommend the threshold is finished with a small incline away from the opening to prevent water penetrating under the door.

Options
- Full width single and double glazed aluminium framed ‘panoramic’ door panels
- 610mm x 330mm ‘Oval’ vision windows
- 680mm x 370mm ‘Rectangular’ vision windows
- 300mm diameter vision windows
(Other vision windows available)
(One vision window per metre width only)
- Wicket Door (Clear walk through 850mm x 1830mm) with cylinder rim lock and door closer as standard. (Other locking methods available)
- Ventilation Grilles
- Fully perforated panel infill suitable for car park applications
- Safety Edge
- Infra Red photo cell safety beam
- Full range of electrical controls, i.e. radio control, induction loop, pull cord switch, radar, with or without automatic timed closing

Power Supply Requirements
Power operated doors require a ‘live’ 3 phase 5 pin or single phase 3 pin ‘euro’ plug which should be mounted at 1500mm above floor level on the motor side. Any special requirements if required will be noted in our quotation.

Additional visits will be chargeable if commissioning cannot be carried out by our installers on the day(s) of installation.

Framing/Opening Preparation
Prior to installation the opening must be fully prepared by the customer and the floor must be laid.

Support is required for both the spring unit(s) and the tracks. The provision of a timber mounting frame is strongly recommended on masonry openings to provide a perfectly flat surface to fix the door. (See technical page for relevant details). On steelwork the door may be fitted direct. It is the customers responsibility to provide a suitable structure for the suspension of the door tracks. Track hangers are provided up to a maximum of 2000mm.

Maintenance
Doors are built to last but periodic maintenance will ensure a long life and trouble free operation. Maintenance agreements can be arranged with our service department.
SD600 Technical Information
Further technical information is given on our web site.

### Preparation of Opening

<table>
<thead>
<tr>
<th>Track Arrangements</th>
</tr>
</thead>
<tbody>
<tr>
<td>44mm Woodframe or Steel</td>
</tr>
<tr>
<td>750 mm Min. Opening Height</td>
</tr>
<tr>
<td>1500 mm Opening Height</td>
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</tbody>
</table>

**Door Weight:**
- 40mm Panel - 15kg/m²
- 80mm Panel - 20kg/m²

**Average Speed:** 200mm/second

**Track Type**
- Standard: 8000 x 6100 (48m²)
- Low: 6000 x 4000 (16m²)
- High: 8000 x 6100

Spring support beam available on doors up to 4000mm wide x 4000mm high with a minimum 1m high lift track arrangement. See web site for details.

### Typical Door Assembly

**Recommended Threshold Details**

Due to unpredictable floor condition, it is impossible to guarantee a perfect floor seal, therefore, to minimise the ingress of water, we
Sometimes the nature of the opening makes it impossible to install a traditional "overhead" sectional door. If this is the case the 'Compact' door might just be the perfect solution since it has all the benefits of the sectional overhead door but only requires the minimum of space.

The Compact door’s unique patented folding mechanism stacks the insulated panels directly above the door opening. Lights, roof glazing and overhead cranes are not obstructed by traditional ‘overhead’ door tracks.

The insulation value for the solid door panel is 0.76 w/m² °k and for the fully glazed panel is 2.80 w/m² °k.

Simple, quick installation
The Compact door is delivered to site ready for installation. The folded door assembly is simply fixed to the door surround at each side, followed by the side tracks. The motor is then simply plugged in.

Low maintenance
The electrically operated Compact door has no counter balancing springs or weights which require adjustment or regular maintenance.
Technical Specification

- The Compact door is constructed from aluminium sandwich panels, 610mm high x 40mm thick with CFC free polystyrene fill. The Compact door has seals around the perimeter and between the panels.
- Electric operation is by a 380 Volt three phase or for limited use doors, 220 Volt single phase motor with standard 3 push button control station.
- The motor is side mounted or where space is restricted it can be top or front mounted.
- The door includes an anti-lift device for added security.
- Maximum door size: 7000mm wide x 7900mm high.

Finish

The standard internal panel face colour is RAL9002 Grey/White.
The external face can be finished in one of the following standard colours:

- RAL 3002 Signal Red
- RAL 5010 Steel Blue
- RAL 5017 Traffic Blue
- RAL 5017 Traffic Blue
- RAL 7016 Slate Grey
- RAL 7032 Pebble Grey
- RAL 9002 Grey/White
- RAL 9006 Metallic Silver

Other colours available at extra cost.
The hardware is finished hot dipped galvanised as standard but can be powder coated.

Options

- 675mm x 365mm double-glazed acrylic vision windows
- Fully glazed panels, set in silver anodised frames, using single or double glazed acrylic, double glazed Lexan or 4mm thick safety glass
- Wicket Door (clear walk through width 850mm, 2100mm high from floor, with threshold of approximately 235mm)
  Max door width 5000mm, min height 2400mm
- Operation by: Radio Control, Pull Cord Switch, Radar, Induction Loop control with or without automatic timed closing
- Keyswitch control
- Safety Bottom Edge, Photo Safety Beam, etc.
- External mounting with hood
- Smoke Vents

Power Supply Requirements

Power operated doors require a ‘live’ 3 phase 5 pin or single phase 3 pin ‘euro’ plug which should be mounted at 1500mm above the floor on the motor side. Any special requirements if required will be noted in our quotation.

Additional visits will be chargeable if commissioning cannot be carried out by our installers on the day(s) of installation.

Maintenance

Doors are built to last but periodic maintenance will ensure a long life and trouble free operation. Maintenance agreements can be arranged with our service department.
Compact Door Technical Information

Further technical information is given on our web site.

DOOR WEIGHT: 20kg/m²
AVERAGE SPEED: 200mm/second

Minimum Fixing Face = 90mm

The Compact Door side tracks can only be fitted to steel openings

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<tr>
<th>Clear Height</th>
<th>Dim A</th>
<th>Dim B</th>
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<tbody>
<tr>
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<td>194</td>
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<tr>
<td>7930</td>
<td>870</td>
<td>214</td>
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</table>

Restrictions:
- Max Door Weight = 540 lbs
- Max Door Height = 330/330mm

Front Mounted Motor:
- Only necessary when less than 320mm side room and limited headroom available
- 160mm side room required each side

Top Mounted Motor:
- Only necessary when less than 320mm side room available
- 160mm side room required each side
**Thermaroll, Thermaroll 550 Fast Action Door & Aluflex**

**Applications**
Designed for all types of openings where energy conservation is required and with the ‘Thermaroll 550’ where a fast action door is needed.


The lath design of the door incorporates an insulating thermal CFC free foam infill, which conserves heat and also effectively reduces noise giving a ‘U’ value of 1.4 w/m²°k.

Draught insulation is provided by twin brush seals located in the guides which operate on internal and external door faces, plus head and threshold seals.

The ‘Thermaroll 550’ gives the added benefit of a fast action door operating at an average of 550mm per second, eliminating the need for a traditional ‘fabric’ high speed door and a rolling shutter for security.

‘Aluflex’ uses the same slat as the Thermaroll 550 allowing a match where high speed operation is not required.

**Operation**
- Electric operation with low level hand chain manual override is standard
- Internal push button operation is standard on the Thermaroll & Thermaroll 550
- Other means of operation are available, such as, radar, radio control, induction loop, etc.
- For safety Thermaroll 550 includes as standard a stop & return safety edge and low level infra red photocell

**TESTED & CERTIFIED**
EN 13241-1
Specification
- Advanced failsafe direct drive motor system standard on all doors
- Purpose designed guide section formed from cold rolled galvanised steel with twin vertical brush seals on both internal and external faces to reduce draught, friction and operating noise
- Twin interlocking 100mm deep lath with thermal CFC free foam infill
- No requirement for return overhead tracks and support steel leaving roof area free to accept lighting or heating systems. Coils in the manner of a conventional rolling shutter
- Integral bottom rubber weather seal
- High durability with lower maintenance costs

Options
- Coil casing (hood). Included as standard under 2500mm high
- Vision panels – each 200mm long x 46mm high double glazed acrylic. Thermaroll 550 includes three rows as standard
- Personnel (Wicket) doors
- Safety edge and infra red photo cell door protection systems (standard on Thermaroll 550)
- Full range of electrical controls, i.e. radio control, induction loop, radar, etc.

Finish
Thermaroll
- Both sides of curtain, guides and head plates as standard are pre-galvanised
- Curtain can be finished to one or both sides in the full range of HPS200 Scintilla colours, or powder coated in any standard BS/RAL colour
- Guides, end plates and coil casing (hood) can also be powder coated in any standard BS/RAL colour

Thermaroll 550 & Aluflex
- Shutter curtain finished in ARS Goosewing Grey to both faces.
- Guides, end plates and coil casing (hood) can also be powder coated in any standard BS/RAL colour

Power Supply Requirements
Power operated doors require a ‘live’ 3 phase 5 pin or single phase 3 pin ‘euro’ plug which should be mounted at 1500mm above the floor on the motor side. Any special requirements if required will be noted in our quotation.

Additional visits will be chargeable if commissioning cannot be carried out by our installers on the day(s) of installation.

Maintenance
Doors are built to last but periodic maintenance will ensure a long life and trouble free operation. Maintenance agreements can be arranged with our service department.

Also see our Secureflex Rolling Shutter with patented anti-cutting infill online at www.syston.com
Thermaroll & Aluflex Technical Information

Further technical information is given on our website.

**THERMAROLL & ALUFLEX**

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</tr>
<tr>
<td>6000</td>
<td>6000</td>
<td>920</td>
<td>995</td>
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DOOR HOOD ADDITION = DIM B + 50

**DOOR WEIGHT:** 38kg/m²

**AVERAGE SPEED:** 150mm/second

**THERMAROLL**

MAX WIDTH: 9000mm
MAX HEIGHT: 9000mm
Larger sizes are possible

**ALUFLEX**

MAX WIDTH: 6000mm
MAX HEIGHT: 6000mm

Technical layout for Secureflex shutter as Thermaroll

**THERMAROLL 550**

<table>
<thead>
<tr>
<th>WIDTH</th>
<th>HEIGHT</th>
<th>DIM A</th>
<th>DIM B</th>
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<td>845</td>
</tr>
<tr>
<td>6000</td>
<td>6000</td>
<td>600</td>
<td>845</td>
</tr>
</tbody>
</table>

DOOR HOOD ADDITION = DIM B + 50

**DOOR WEIGHT:** 38kg/m²

**AVERAGE SPEED:** 550mm/second

MAX WIDTH: 6000mm
MAX HEIGHT: 6000mm

All can be fixed to either masonry or steel constructed openings.

Contact office for ‘Within Fit’ applications.

We recommend openings are formed to suit ‘Face Fit’ applications.
Swift Side Hung Bifolding Door

The Swift door is a side-hung, fast-acting, bi-folding door ideally suited for emergency service appliance bays and other industrial applications where safety, reliability, speed of operation, durability and security are prime considerations.

Automatic operation takes only seven seconds from closed to fully open - regardless of size. In the event of a power failure or for hand operated doors, manual operation is effortless - allowing access in as little as two seconds. No other doors will give you the speed of operation and full security at all times.

The door 'U' value is 1.1 W/m² °K.

Laboratory tested to reduce noise by 25dB.

Fully compliant with Part M for disabled person access.

Specification

- Panels are constructed from cold rolled galvanised channel frame, covered on both sides with min. 0.6mm thick steel sheets and pressure injected with CFC free foam. The panel thickness is 52mm.
- Double EPDM rubber seals are fitted at threshold, jambs and all joints between leaves. A brush seal is fitted at the head.
- The top guide track is a 50 x 50 x 3mm galvanised channel mounted with adjustable brackets.

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EN 13241-1
A bottom channel is not required. Galvanised threshold plate (100 x 10mm) is fitted on external doors to prevent water ingress. (Both edges can be chamfered to 45° if required)

Available in a range of configurations up to 5.7 metres wide and 6 metres high within a maximum 24m² door area

Finish
- External face of panel in Plastisol Poppy Red, Solent Blue, Ocean Blue, Olive Green, Goosewing Grey, White and Aztec Yellow
- Internal face in white
- Door can also be powder coated in any standard BS/RAL colours
- All hardware is anodised aluminium/zinc plated as standard. Aluminium trims are mill finished aluminium

Locking
- Manual doors include an internal drop bolt and a pull handle to each leaf and an espagnolette lock to the leading leaf
- On power operated doors the motor automatically 'locks' the door in the closed position. Lever at high level on motor allows door to be manually opened

Options
- External face or both faces of panel and all external hinges and seal trims polyester powder coated finish to any standard RAL colour
- Power operation (opening in under 7 seconds) using a quiet, quick action electro-hydraulic mechanism with a choice of safety and control options
- Double-glazed acrylic or toughened glass 680mm x 500mm vision panels (Other sizes available)
- Wicket door
- Other types of locking arrangements
- Cut outs for crane beams

<table>
<thead>
<tr>
<th>Type of Door</th>
<th>Manual Operation</th>
<th>Power Operated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Width</td>
<td>5700mm</td>
<td>4750mm</td>
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<tr>
<td>Maximum Height</td>
<td>6000mm</td>
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<tr>
<td>Maximum area of door</td>
<td>24m²</td>
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<tr>
<td>Sideroom Required</td>
<td>180mm</td>
<td>180mm</td>
</tr>
<tr>
<td>Headroom Required</td>
<td>150mm</td>
<td>150mm</td>
</tr>
<tr>
<td>Weight Required</td>
<td>18-20 kg/m²</td>
<td>18-20 kg/m²</td>
</tr>
</tbody>
</table>
Osprey Insulated Sliding Folding Door

An extremely versatile door, Osprey combines robust design with modern appearance to provide the ideal door system for wider span openings, on small aircraft hangars, workshops, loading bays, etc.

The door ‘U’ value is 1.1 w/m² °k.

Laboratory tested to reduce noise by 25dB.

Specification

- Panels are constructed from cold rolled galvanised channel frame, covered on both sides with min. 0.6mm thick steel sheets and pressure injected with CFC free foam. The panel thickness is 52mm
- The multi-leaf construction allows the door to be partially opened when full aperture access is not required – reducing opening time, effort and heat loss
- Double EPDM rubber seals are fitted at threshold, jambs and all joints between leaves.
  A brush seal is fitted at the head
- The top guide track is a 5mm thick pressed steel ‘C’ section for direct sidewall or soffit fixing
- The bottom guide channel is a 3mm thick galvanised steel pressing with built in threshold and chamfered edges
Available in a range of configurations of unlimited width and up to 6 metres high (or more by special design)

**Finish**
- External face in Plastisol Poppy Red, Solent Blue, Ocean Blue, Olive Green, Goosewing Grey, White and Aztec Yellow
- Internal face in white
- Door can also be powder coated in any standard BS/RAL colours
- All hardware is anodised aluminium/zinc plated as standard. Aluminium trims are mill finished aluminium

**Locking**
- Manual doors include an internal drop bolt and a pull handle to each pair of leaves
- On power operated doors the motor automatically 'locks' the door in the closed position. Low-level manual release chains allow the motor to be disconnected at low level

**Options**
- External face or both faces of panel and all external hinges and seal trims polyester powder coated finish to any standard RAL colour
- Power operation with a choice of safety and control options
- Double-glazed acrylic or toughened glass 680mm x 500mm vision panels
- Wicket door
- Other types of locking arrangements

<table>
<thead>
<tr>
<th>Type of Door</th>
<th>Manual Operation</th>
<th>Power Operated</th>
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<tbody>
<tr>
<td>Maximum Width</td>
<td>Unlimited</td>
<td>20000mm</td>
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<tr>
<td>Maximum Height</td>
<td>6000mm</td>
<td>6000mm</td>
</tr>
<tr>
<td>Maximum area of door</td>
<td>50m² - door to one side</td>
<td>50m² - door to one side</td>
</tr>
<tr>
<td></td>
<td>100m² - door bi-parting</td>
<td>100m² - door bi-parting</td>
</tr>
<tr>
<td>Sideroom Required</td>
<td>Not required</td>
<td>See chart</td>
</tr>
<tr>
<td>Headroom Required</td>
<td>180mm</td>
<td>250mm</td>
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<tr>
<td>Weight</td>
<td>18-20 kg/m²</td>
<td>18-20 kg/m²</td>
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Syston Doors is a leading manufacturer and supplier of industrial doors, rolling shutters and associated products and has developed a comprehensive range to meet the requirements of the specifier, designer and end user.

Established since 1920 and with a wealth of experience, Syston Doors is based in Syston, near Leicester at the heart of the motorway network, offering nationwide service.

Our range includes:
- Rolling Shutters & Grilles in Steel, Aluminium and Timber
- Fire Resisting Rolling Shutters
- Rapid Action Doors
- Steel Doorsets
- Folding Shutter Doors
- Dock Shelters, Seals & Dock Levellers
- Insulated Rolling Shutters
- Insulated Sectional Doors
- Transparent Rolling Door Systems
- Sliding Folding Closures
- PVC Strip Curtains & Rubber Crash Doors
- Collapsible Grilles for Windows & Doorways
- Window Rolling Shutters
- Moveable Walls & Concertina Screens
- Domestic Garage Doors & Rolling Shutters
- Retractable Awnings & Shading Systems

Nationwide Repair & Service to all makes & types of Industrial Door

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