
WSDS



ROLLER SHUTTER DOORS

“Industrial doors for every application”

WSDS

17 Churchill Avenue, Bishops Waltham, Southampton, Hampshire, SO32 1DA
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Types of doors

Generally roller shutter doors have two broad classifications:

'Commercial' - comprising of manual self-coiling 'push up pull down' and electric single phase tubular motor doors.

'Industrial' - comprising of manual hand chain and electric three phase power operated doors.

Commercial shutters



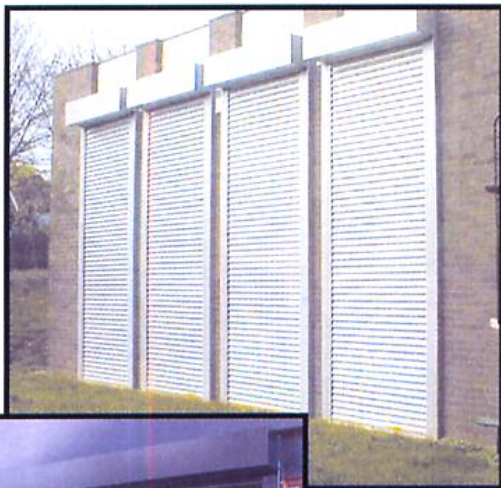
Our commercial roller shutter doors are used in many varied locations ranging from offices, shops and schools, to high street retail chain stores. They provide an ideal security solution to shop front entrances, windows, doorways, bar counters, servery hatches, garages and other high risk situations.



Manually operated 'push up/pull down' self coiling roller doors

An economic roller shutter door which is ideal for smaller apertures where the door will be opened/closed a limited number of times each day. The curtain of the door is manually raised, assisted by counter balancing springs within the roller barrel assembly. Mild steel 'flag-post' design guide assemblies are fixed vertically to the structure surrounding the

aperture to support the roller barrel assembly onto which the roller shutter curtain is secured. The maximum recommended size of this type of door is 3658mm (12'- 0") wide x 3658mm (12'- 0") high.



Electrically operated single phase 'tubular motor' roller shutter doors

The ideal roller shutter door for commercial applications where the door is only required to operate a limited number of times per day. The door can be actuated automatically by either key switch, rocker switch or hand held radio transmitter. Mild steel 'flag-post' design guide

assemblies are fixed vertically to the structure surrounding the aperture to support the roller barrel assembly, housing an internally fitted, single phase, 240 volt ac motor. A manual override hand crank facility is available in the event of a power failure.



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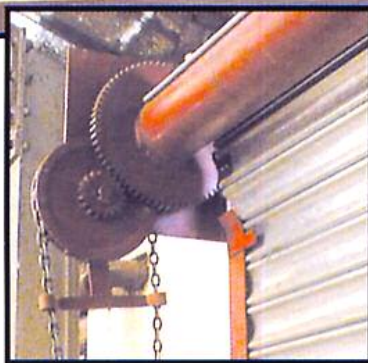
Industrial shutters

Our industrial roller shutter doors are used by many household named multi-national operations as well as sole traders alike. They provide access and security solutions to loading bays, goods inwards stores, car park entrances and many other 'high usage' locations.



Manually operated 'hand chain' roller shutter doors

Ideally suited to industrial applications, the curtain of the door is manually raised via a continuous haul chain which drives the fully sprung counter balanced roller barrel assembly. The roller barrel assembly is suspended by mild steel end plates that are either independently fixed from the side guides or with full length 'flag-post' angles to which the side guides are also secured. The spring assisted roller barrel is driven by a hand chain wheel mounted either directly at one end of the tube or via a series of reduction gears, dependant upon the size of the door.



Electrically operated 'industrial' roller shutter doors

Ideally suited for industrial applications that require frequent usage. All door components are identical to that of the manually operated 'hand chain' roller shutter door, except for the door being raised automatically by a 3 phase 415 volt electric motor in lieu of the hand chain wheel drive mechanism. The standard actuation method is via an up, down and stop push button station. A manual override continuous haul chain is provided for use in the event of a power failure. A single phase 240 volt option is available where site conditions dictate.



All electrically operated roller shutter doors can be fitted with any one of a combination of the actuation devices or safety features, as detailed below.

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Construction

There are four basic components that make up the construction of a roller shutter door:



Roller barrel

A mild steel tube with bright drawn mild steel support shaft, both of varying diameter, dependant upon opening size, housing either helical steel springs to counterbalance the torque of the shutter curtain, or a 240 volt ac motor for tubular motor roller shutter doors.

End plates

Mild steel plates to support the roller barrel assembly incorporating mild steel 'U' cups, to house the support shaft, secured to continuous 'flag-post' design fixing angles or independently mounted.



Guide channels

Rolled mild steel channel section, of varying depth, dependant upon opening size, mounted onto mild steel angles to captivate the shutter curtain on its opening and closing cycle. Doors subject

to high wind loading are fitted with 'windlock' guide section and is recommended for doors above 4500mm wide.



Shutter curtain

As standard, constructed from 76mm deep, concave profile, galvanised mild steel interlocking laths, with 'end-locks' pressure riveted at each end of each alternate lath to prevent lateral movement. The bottom rail is manufactured from galvanised mild steel inverted T section or 'L' section that interlocks with the lowest lath to ensure accurate closing at floor level.

(See curtain options page)



Insulated sectional 'up and over' doors

Insulated Sectional 'up and over' doors are an ideal alternative to roller shutter doors where temperature control between environments is of importance. Manual or electrically operated doors can be employed with an insulation 'U' value

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Curtain options

The roller shutter door curtain is constructed from fully interlocking laths which are retained by nylon, pressed metal or cast iron end locks, riveted at both ends of every alternate lath to prevent lateral movement, complete with appropriate bottom rail. The following options, dependant upon application are available:



Standard 76 mm concave lath

A 76mm deep, concave profile, rolled mild steel galvanised section, suitable for most applications, available in 18, 20 & 22swg thickness, offering a high degree of security.

Available in solid, perforated or plastisol styles, as illustrated.



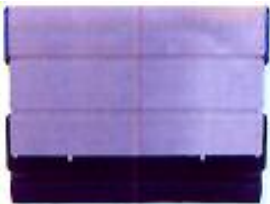
Standard 50 mm flat lath

A 50mm deep, flat profile, rolled mild steel galvanised section available in 20 & 22swg thickness, the most commonly used alternative for commercial roller shutter doors.



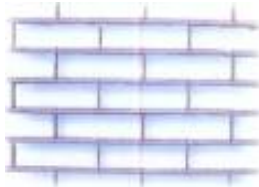
Aluminium 50 mm flat lath

A 50mm deep, mill finished extruded aluminium section available in 1.4mm thickness, ideal for counters and servery hatches.



Insulated lath

A flat lath profile, mild steel galvanised section available in 24swg thickness, interlocked to create a double skin section, filled with 20mm thick polystyrene insulation, providing a 'U' value of 0.733W/m²K. Ideal where temperature control between environments is of importance.



Tube and link grille

Constructed from galvanised mild steel or aluminium tubes and links fitted onto an 8mm diameter steel or aluminium bar giving an open 'brick bond' pattern approximately 223mm wide x 58mm deep, locked together by star lock serrated washers at both ends of every bar. This type of curtain is ideal for shop fronts, counters, car parks or areas requiring security, whilst still allowing good airflow and visibility.



'Fleur-de-lys'

Constructed from tough injection moulded plastic and fitted onto a 6mm diameter aluminium bar, locked together by star lock serrated washers at both ends of every bar. An aesthetically pleasing grille ideal for counters, bars and servery hatches.

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