

TRADITIONAL SINGLE SKIN STEEL ROLLER SHUTTERS

Roller shutter doors are perhaps the most popular type of industrial or commercial door. They are suitable for a wide range of sizes and applications and are constructed to individual requirements to ensure suitable strength, durability and security. This type of door is versatile in use and cost effective to maintain and repair.

We offer steel, single skin, non-insulated roller shutters in a choice of four model ranges:

The COMMANDER

COMMERCIAL / SECURITY SHUTTER

Suitable to cover smaller openings as a manually operated (push up / pull down) shutter or to cover wider spans such as shop fronts when electrically operated by means of a single-phase tubular motor.

The CHIEFTAIN

INDUSTRIAL ROLLER SHUTTER

Suitable for most day-to-day industrial applications such as warehouse loading bays. Manually operated by geared hand hauling chain as standard. Alternative operation by means of 3ph or 1ph industrial motor.

The SUPREME

HEAVY DUTY INDUSTRIAL ROLLER SHUTTER

Designed for larger openings, our Supreme range of roller shutters offers excellent performance and increased strength to withstand high winds in exposed locations. We recommend and offer 3-phase electrical operation as standard but can advise on the suitability of manual hand chain operated shutters for each application.

The STEADFAST

BUDGET INDUSTRIAL ROLLER SHUTTER

Made to the same high standard as our Commander and Chieftain roller shutters. The Steadfast is suitable for smaller industrial applications and internal locations where security and strength are not the primary criteria. Manually operated by hand hauling chain as standard. 3ph electric operation also available.

Please see our individual product leaflets for more details.



Electric Roller Shutter Door (shown with Plastisol coated lath)
Approx size: 4500mm (15') wide x 4500mm (15') high

STANDARD FINISHES

Unless otherwise specified, shutter curtains and canopies are supplied galvanised and all remaining steelwork components are supplied primer painted only for final painting on site by others.

Options

Curtains and canopies can be offered in HP200 Colorcoat Plastisol (subject to colour and availability) and to one side only. Powder coating is also available — please check on colour availability at time of enquiry.

PERSONNEL / WICKET DOORS

If a building has no other means of access a personnel (wicket) door can be incorporated within the shutter curtain.

These personnel doors allow first entry to and final exit from the building with the shutter closed and hinge aside clear of the curtain and opening when the shutter is to be operated. A 'Yale' type deadbolt is provided as standard.



Options

Emergency escape through the personnel door can be provided by means of suitable panic hardware with options for additional locking if required. If the roller shutter is to be electrically operated, the personnel door will require an electrical interlock device to prevent operation of the shutter until the personnel door is in a fully open and safe position.

PRODUCT STANDARD BS EN 13241-1

Our doors are designed, manufactured and tested to meet the requirements of BS EN 13241-1:2013 — The Product Standard for Industrial, Commercial and Garage Doors and Gates — Part 1: Products without fire resistance or smoke control characteristics. They are also CE marked to show compliance.

GENERAL SPECIFICATION

CURTAIN

The shutter curtain is constructed from interlocking, galvanised steel lath as standard. Whether the door rolls inward or outward, rain cannot enter through the face of the curtain. Nylon, pressed steel or cast iron endlocks are riveted to both ends of alternate laths to prevent lateral movement.

Options

The curtain can be constructed from various gauge lath dependent upon the application or size of door and can be slotted or perforated to enable visibility through to the covered area. Wind anchor endlocks can be fitted to prevent excessive deflection of the door curtain in high winds.

BOTTOM RAIL

The curtain bottom rail is constructed from a braced single or double mild steel angle(s), of various dimensions as dictated by the size of the door.

Options

Purpose made rubber weatherseal can be fitted to accommodate minor floor irregularities and provide resistance to rain water ingress. A tapered bottom rail can be provided to accommodate sloping floors.

We recommend that the threshold be formed with an external incline away from the opening to allow run-off and prevent pooling.

CURTAIN GUIDES

The vertical curtain guides are constructed from cold rolled steel channel, of various dimensions as dictated by the amount of security required or the size of the shutter. The guides are mounted on mild steel angles for fixing to the jambs of the opening.

Options

Heavy duty guides, or rolled mild steel sections to accommodate wind anchor endlocks, can be supplied dependent on the application or size of door.

BARREL ASSEMBLY

The barrel itself, which is usually fixed behind the lintel, is constructed from mild steel tube of sufficient diameter and wall thickness to resist deflection and twist during operation. Counter balancing is achieved by helical torsion springs mounted on a steel shaft incorporated within the barrel and greased on assembly. Spring and shaft supports are cast steel.

SUPPORTING BRACKETS

Supporting brackets are constructed from mild steel plate mounted on mild steel angle cleats for fixing to the lintel and are of suitable size and thickness for the weight and dimensions of the shutter. Cast iron or welded steel cups are fixed to the end plates to receive the barrel's centre shaft.

GEARS

Gears are machine cut from steel or cast blanks resulting in a uniform size. Direct, single reduction or double reduction driver assemblies are mounted on the supporting bracket plates according to the size of the door. Hand chain wheels and reduction drive gears are mounted with oilite bronze bushes or suitable bearings

HOOD, FASCIA AND SOFFIT

Galvanised sheet steel hoods/canopies can be supplied to enclose the barrel and motor assemblies. We can also supply galvanised sheet steel fascias and soffit fillers if required.

WEATHER SEAL AND DRAUGHT PROOFING

As well as various rubber profiles available for the bottom rail, we can provide nylon brush draught excluder strips to the soffit and guides.

LOCKING ARRANGEMENTS

On push up roller shutters locking is by means of a pair of guide locks that locate through the curtain and guides. On hand chain operated roller shutters locking is achieved by placing the hauling chain in a locking box, welded to the curtain guide angle, and securing it by the customer's own padlock. On electrically operated roller shutters locking is by means the braking mechanism within the motor.

Options

An espagnolette lock, high security ground lock or shoot bolt(s) to receive the customer's own padlock can be fitted in addition to, or in place of, the standard locking. Electrically operated roller shutters require a special electrical interlock device for use with guide locks, high security ground locks and shoot bolts.

MANUAL OPERATION

Self coiling push up/pull down shutters up to an opening area of approximately 9m² (100 ft²), are normally opened and closed with the aid of a pole and hook or by simple lifting handles. An endless welded hand hauling chain in a pocketed wheel with suitable gearing is provided for larger shutters. A crank handle and gear drive system can be used on medium sized doors where chain operation is not possible.

ELECTRICAL OPERATION

Electrical operation can be provided, at extra cost, by means of either a 3-phase or 1-phase industrial motor or a 240v single-phase tubular motor. All motors are fitted with integral limit switches to control the travel of the shutter curtain. Open and close activation is by means of a simple push-button or rocker switch. A manual override device is provided in most cases, for emergency operation (only) in the event of a power failure.

Options

A key operated switch can be supplied for external applications or to restrict operation to authorised personnel. A variety of safety facilities and other operating equipment, including remote control, are also available.

SAFETY BRAKES

A safety brake is fitted to all shutters where required, whether manual or electric, to prevent the door from closing out of control should an unforeseen failure occur causing the roller to become detached from the drive mechanism.