

Shutter Catalogue



Alimatic 
automatic doors & aluminium fabrications

Alimatic Ltd.
Unit 7 Swanbridge Industrial Park
Black Croft Road
Witham, Essex, CM8 3YN.

T: 01376 500501
f: 01376 500502
e: enquiries@alimatic.co.uk
w: www.alimatic.co.uk

Roller Shutter Specification

Electrically operated Roller Shutter Industrial applications

Applications

Suitable for warehouse distribution centres, bading bays, service yards, etc

Roller Curtain

75mm deep galvanised cold rolled sections are interbcked together to form the door curtain. The laths are concave in shape and are held together by pressed steel end-locks secured by steel rivets. The gauge of the lath is determined by the size of the door and the installation location.

Bottom Rail Section

The bottom rail is normally a galvanised inverted T section. On larger applications a fabricated two piece bottom rail may be used.

In special circumstances a tapered bottom rail can be fabricated to suit sloping floors.

Side Guides and supporting angles

Guide sections are manufactured from 3mm purpose rolled section, with different depths dependant upon the width of the shutter. Guides are secured to mild steel angles, to allow fixture to client's structure.

Wind-back guide sections are provided where considered necessary.

We are also able to produce heavy duty specification fabricated guide arrangements, for larger openings.

Roller Shutter Barrel

The roller barrel is manufactured from mild steel circular hollow section, the barrel is driven by a direct drive motor with in built safety brake, to eliminate the need for counterbalance springs.

In some applications it may be necessary to use a separate safety brake, and motor with a drive chain, depending on side room constraints.

Electric Operation

The door is driven by a 3 phase direct drive motor (single phase option available) with a built in safety brake to prevent anti fall back of the shutter curtain in the event of a gearbox failure, the motor also features built in limit switches to allow automatic stopping of the door. The motor incorporates a floor level manual override facility as standard, for use in the event of a power failure; all doors are operated by panel mounted push button controls, which are mounted at low level to within 500mm of the opening on the motor side of the door at low level.

Our control panel also, as standard incorporates a cycle counter, service alert, and fault diagnostic display.

Electrical Wiring and supply requirements

Client would be required to provide a 3 phase 10 amps per phase and neutral supply prior to our installation. Isolator will be provided by Alimatic.

Electrical Optional Extras

key switch to isolate control circuit (prevents use of panel mounted buttons)

Bottom Rail Safety edge (to provide stop and return facility on impact)

Infra red safety beam (to provide stop and return facility when obstructed)

Traffic lights or sirens

Induction top controls for auto opening

Radio control

Access control solutions, Magnetic swipe cards, proximity readers

Finish

All mild steel parts are supplied with either a grey or a red oxide painted finish.

Door curtains are supplied galvanised unless otherwise agreed.

Plastisol Finish

A range of approximately 30 different colours are available for the outside of the door curtain with the inside in a grey primer (refer to colour chart section). The plastisol colours are designed to either match or contrast to the external building cladding sheets.

Powder Coat Finish

Powder coat finish is available in a wide range of colours and is applied to the complete door on both sides. Powder coat is a more durable and hard wearing finish and is ideally suited to roller shutters.



Roller Shutter Specification

Hand Chain operated Roller Shutter doors Suitable for warehouses/distribution centres/loading bays/commercial buildings

Roller Curtain

75mm deep galvanised cold rolled sections are interlocked together to form the door curtain. The laths are concave in shape and are held together by pressed steel endlocks secured by steel rivets.

The gauge of the lath is determined by the size of the door and the installation location.

Bottom Rail Section

The bottom rail is normally a galvanised inverted T section. On larger applications a fabricated two piece bottom rail may be used.

In special circumstances a tapered bottom rail can be fabricated to suit sloping floors.

Side Guides and supporting angles

Guide sections are manufactured from 3mm purpose rolled section, with different depths dependent upon the width of the shutter. Guides are secured to mild steel angles, to allow fixture to clients' structure.

Wind-lock guide sections are provided where considered necessary.

We are also able to produce heavy duty specification fabricated guide arrangements, for larger openings.

Roller Shutter Barrel

The roller barrel encases counter balance springs.

Each shutter is fitted with counterbalance springs to suit the shutter size.

The barrel is driven by either a steel drive sprocket, or Reynolds chain, or alternatively cast iron double reduction gearing.

Finish

All mild steel parts are supplied with 1 coat of rust inhibiting primer.

Door curtains are supplied galvanised unless otherwise agreed.

Plastisol Finish

A range of approximately 30 different colours are available for the outside of the door curtain with the inside in a grey primer finish (refer to colour chart section). The plastisol colours are designed to either match or contrast to the external building cladding sheets.

Powder Coat Finish

Powder coat finish is available in a wide range of colours and is applied to the complete door on both sides. Powder coat is a more durable and hard wearing finish and is ideally suited to roller shutters.

Optional Extras

Casing /fascia

The shutter curtain in its fully open state can be encased by a galvanised steel casing, fascia, where required this is an optional item, which will be shown at an additional cost on the quotation, if required.

Wicket Gate

A personnel access door within the Roller Shutter can be provided to enable the shutter to remain closed, when only pedestrian traffic will be required to access the premises. This is an optional item, which will be shown at an additional cost on the quotation, if required.

Ground Locks

It is possible to fit security floor mounted locks to provide additional security in high risk applications, locks are secured by padlocks when the shutter is in the fully closed position.



Electrically Operated Roller Shutter – single phase tube motor operation suitable for shop-fronts and light usage domestic garage doors.

Roller Curtain

75mm deep galvanised cold rolled sections are interlocked together to form the door curtain. The laths are concave in shape and are held together by pressed steel end blocks secured by steel rivets. The gauge of the lath is determined by the size of the door and the installation location.

Bottom Rail Section

The bottom rail is normally a galvanised inverted T section. On larger applications a fabricated two piece bottom rail may be used.

In special circumstances a tapered bottom rail can be fabricated to suit sloping floors.

Side Guides and fixing support angles

Guide sections are manufactured from 3mm purpose rolled section, with different depths dependant upon the width of the shutter; and are secured to mild steel angles, pre drilled ready for fixing to the structure.

Roller Shutter Barrel

The mild steel tube encases the single phase tubular motor. The motor head is secured to the shutter end plate, with the outer body rotating to raise and lower the door.

Electric Operation

Standard electrical operation is by Single phase (240 volt) motor, I.P.44 rated motor. The motor is complete with integral limit switches, to enable the shutter to stop automatically at final point of travel positions, and also incorporates a manual override facility for use in the event of a power failure.

Location and electrical supply requirements

Client to provide, to each door prior to installation, a 13 amp single phase supply, terminated to a fused spur, to within 500mm from the motor position at high level

Standard Finish

All mild steel parts are supplied with 1 coat of rust inhibiting primer. Door curtains are supplied galvanised unless otherwise agreed.

Optional Extras

All available at additional cost

Plastisol Finish (002B)

A range of approximately 30 different colours are available for the outside of the door curtain with the inside in a grey primer (refer to colour chart section). The plastisol colours are designed to either match or contrast to the external building cladding sheets.

Powder Coat Finish (002C)

Powder coat finish is available in a wide range of colours and is applied to the complete door on both sides. Powder coat is a more durable and hard wearing finish and is ideally suited to roller shutters.

Hoods And Fascias

Galvanised coil casing, fascias and motor covers are all available at additional costs.
(002D)

Lockable box to enclose external key operated switch (002A)

A pressed steel locking box can be provided at additional cost to accept a security padlock (Padlock provided by others). The locking box secures the external key operated switch, providing additional security.

Battery Back up (002E)

A device used to provide an alternative source of power to allow a limited number of operations of the door, should the main power supply from the consumer unit fail.

Radio Control

A remote key fob is used to open and close the door, to remove the need to install External key operated switches, mainly used in areas of high vandalism.

Open Mesh Grille Section(002F)

A section of Aluminium Grille section can be inserted across the full width of the door to provide a vision panel, to enable a clear viewing line through the door.

Perforated curtain (002G)

A robust solid concave section, with perforations, which provides an aesthetically pleasing finish, to allow transparency through the shutter curtain, more effective at night with back lighting.



Manually operated push up / pull down Roller Shutters

Roller Curtain

The shutter curtain is constructed from cold rolled galvanised concave steel laths 75mm x 20 SWG with an option of flat lath available. Each lath is retained by steel end-locks fixed with galvanised steel rivets.

Bottom Rail

A rigid inverted L section bottom rail, formed from a cold rolled galvanised section.

Side guide and angles

A purpose cold rolled galvanised steel guide section 50 -75mm deep (dependant on width of door) is fixed to mild steel angles to fix the guide section to the structure, on fixed between applications the guide is fixed directly to the supporting structure.

Roller Barrel

Constructed from mild steel tube to suit shutter application.

The barrel encases helical springs, which are securely fitted inside the barrel, and are supported by purpose made support castings. The springs counter-balance the shutter weight. The roller barrel is operated as a push up pull down shutter with a pull down pole for taller applications.

Roller Bracket Plates

3mm galvanised steel either 250mm x 250mm, 300mm x 300mm or 350mm x 350mm fixed to the supporting angles or flats, complete with cleats for hoods or fascias if required.

Door Locking

Guide locks are standard. Bottom rail locks are available at extra cost.

Finish

Side guides, supporting angles and door curtain are galvanised. Flats if required are painted red/grey oxide. Powder coated finish is optional and can be provided at extra cost.

Optional Extras

Perforated curtain, Open mesh Grille section, side guide locks, all available at additional cost

Standard Finish

All mild steel parts are supplied with 1 coat of rust inhibiting primer. Door curtains are supplied galvanised unless otherwise agreed

Plastisol Finish

A range of approximately 30 different colours are available for the outside of the door curtain with the inside in a grey primer (refer to colour chart section). The plastisol colours are designed to either match or contrast to the external building cladding sheets.

Powder Coat Finish

Powder coat finish is available in a wide range of colours and is applied to the complete door on both sides. Powder coat is a more durable and hard wearing finish and is ideally suited to roller shutters.

Hoods And Fascias Galvanised coil casing, fascias are all available at additional costs.



Electrically operated Fire Resisting Roller Shutter – single phase Tube motor operation

Roller Curtain

75mm deep galvanised cold rolled sections are interlocked together to form the door curtain. The laths are concave in shape and are held together by pressed steel end locks secured by steel rivets.

The gauge of the lath is determined by the size of the door and the integrity required.

Bottom Rail Section

The bottom rail is normally a galvanised inverted 2.0 mm T section.

Side Guides and fixing support angles

Guide sections are manufactured from 3mm purpose rolled section, with different depths dependant upon the width of the shutter, and are secured to mild steel angles, pre drilled ready for fixing to the structure.

Roller Shutter Barrel

The mild steel tube is fitted with a drive sprocket on the motor side, and a plain shaft to allow fitment of a flange bearing on the non drive end of the door.

Normal Operation

The Shutter can be used to close off specific areas, and secure products away from the public, typically in kitchen servery areas.

A surface wall mounted key operated switch is supplied as standard, mounted to within 500mm of the door opening on the motor side. Flush mounted switches are available at additional cost.

Operation in fire condition

The door will commence closing on receipt of a fire alarm signal generated by the building management system; the operation will be controlled through the Audio Visual warning panel as detailed below –

Audio Visual Warning Closure

An audio & visual warning panel is used to provide a facility for delayed closing, together with an audible indication that the door is to commence its closing cycle.

The fire alarm signal is connected directly into this unit. On activation from the fire alarm the unit starts to flash & sound with the shutter closing after a pre-determined delay (10 - 240 seconds).

A battery back up is also provided as standard, to ensure full protection of the system in the event of a power failure

Electrical Wiring

A single phase 13 amp power supply is required terminated to a fused spur outlet; in addition, a fire rated cable with a volt free signal in alarm condition terminated to an adaptable is required all prior to the door installation.

All wiring is carried out by our electrical engineers, to ensure compliance with current regulations.

Mounting of fused spur and termination of fire alarm cable.

To be provided by client unless agreed otherwise, installed to within 500mm from the motor and control panel position at high level

Standard Finish

Powder coat finish is available in a wide range of colours and is applied to the complete door on both sides. Powder coat is a more durable and hard wearing finish and is ideally suited to roller shutters.



Electrically operated Fire Resisting Roller Shutters for industrial applications - Available 30/60/120/240 min integrity

Roller Curtain

75mm deep galvanised cold rolled sections are interlocked together to form the door curtain. The laths are concave in shape and are held together by pressed steel end locks secured by steel rivets.

The gauge of the lath is determined by the size of the door and the integrity required.

Bottom Rail Section

The bottom rail is normally a galvanised inverted 2.0 mm T section.

Side Guides and fixing support angles

Guide sections are manufactured from 3mm purpose rolled section, with different depths dependant upon the width of the shutter, and are secured to mild steel angles, pre drilled ready for fixing to the structure.

Roller Shutter Barrel

The mild steel tube is fitted with a drive sprocket on the motor side, and a plain shaft to allow fitment of a flange bearing on the non drive end of the door.

Normal Operation

The Shutter can be used to close off specific areas, and secure products away from personnel, typically in warehouse distribution centres.

A surface wall mounted key operated switch is supplied as standard, mounted to within 500mm of the door opening on the motor side.

An additional switch can be installed on the opposite side of the door to allow opening and closing from both sides of the opening.

Operation in fire condition

The door will commence closing on receipt of a fire alarm signal generated by the building management system; the operation will be controlled through the Audio Visual warning panel as detailed below -

Audio Visual Warning Closure

An audio & visual warning panel is used to provide a facility for delayed closing, together with an audible indication that the door is to commence its closing cycle.

The fire alarm signal is connected directly into this unit. On activation from the fire alarm the unit starts to flash & sound with the shutter closing after a pre-determined delay (10 - 240 seconds).

A battery back up is also provided as standard, to ensure full protection of the system in the event of a power failure.

Electrical Wiring

A single phase 13 amp power supply is required terminated to a fused spur outlet; in addition, a fire rated cable with a volt free signal in alarm condition terminated to an adaptable is required, all prior to the door installation.

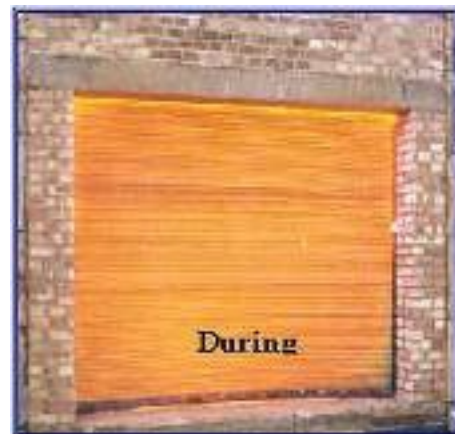
All wiring is carried out by our electrical engineers, to ensure compliance with current regulations.

Mounting of fused spur and termination of fire alarm cable.

To be provided by client unless agreed otherwise, installed to within 500mm from the motor and control panel position at high level.

Standard Finish

Powder coat finish is available in a wide range of colours and is applied to the complete door on both sides. Powder coat is a more durable and hard wearing finish and is ideally suited to roller shutters.



Steel Hinged Doors - Doors designed for life

Application

It is becoming more common for steel doors to be used in place of timber in not only industrial applications, but domestic too. The inherent strengths of steel the fact that it does not warp or twist, it will not rot or support insect or mould growth. These all add to the growing realisation that a steel door does not have to be industrial looking in order to offer protection.

Sizes

A full range of door sizes to suit openings from 700mm to 2600mm wide are carried in stock enabling the majority of orders to be fulfilled from stock. All stock doors are designed to suit a 2100mm structural size, with an over frame size of 2095mm. Stock doors can be modified to suit non standard openings, either cut down for short openings or fitted with infill panels for taller ones. The doors can also be supplied with side or over panels which can be glazed solid or buvered.

Custom Sizes

Doors to suit any opening up to 2600 x 2950mm can be manufactured to order. Vision panels, Louvre panels etc can all be incorporated into the design. Double rebate frames and non standard frame details can be accommodated

Door Leaves

The door leaf is constructed from two skins of 1.2mm rust protected steel folded and bck formed around a rigid core to form a 48mm thick door leaf. The door leaf is constructed with a unique "no weld" construction utilising high performance glues to ensure that the rust protected steel is not damaged and to maximise life expectancy. The

The standard core is resin impregnated honeycomb card Alternatively the core can be polystyrene, mineral wool or solid timber

Each leaf is complete with a universal bck preparation which when not used is fitted with a blanking plate.

Door Frames

The door frame leaf is constructed from 1.5mm zinc protected steel formed into our standard 89mm deep single rebate frame. A 250mm double rebate for cross cavity fitting is available as an optional extra.

The Frame is fitted with 3 No Class 13 stainless steel hinges c/w 2 No security dog bolts.

Each side of the frame is complete with 4 fixing points with rapid fit adjustable feet instead of awkward shims. The frame complete with our unique expandable sub frame to ensure a precision fit to your structure.

Wrap around and other custom frame profiles are available additional cost.

Thresholds

We supply doors with thresholds as standard There 3 options: Standard, Drivable and Zero for further information contact our installation department.

Finishes

Doors are supplied in grey primer finish for on site painting as standard however we can offer a range of powder coat colours with non-standards being available at additional cost and subject to powder availability.

Locking systems

A range of locking systems are available.



Overhead Sectional Door Specification

Overhead sectional doors are generally used in commercial buildings, and are ideal for installation on industrial warehouses; this type of door provides excellent insulation properties.

An important characteristic of this door system is that the door is mounted to the internal face of the opening; this has the advantage of keeping the full clear opening width and height available for access. Sectional overhead doors can be adapted to the requirements of the architect, the builder and end user.

The door is made up of horizontal sections, which are interconnected by hinges, low noise rollers which are fitted with industrial quality ball bearings are used to guide the door leaf, in the vertical tracks when opening and closing the door. A variety of track options are available, allowing the door to open either horizontally above the door opening, or vertically or following the line of a sloping roof.

A spring shaft system, consisting of a steel shaft and counterbalanced torsion springs, ensures the weight of the door is fully compensated in any position. A number of door panel designs are available. Customers are able to choose between panels with a completely smooth surface, panels with a smooth or stucco embossed surface, with a range of plastisol, and powder coat finishes available.

Manual operation by means of a continuous galvanised hand chain, or 'push up' with pull down cord. Electric operation by means of 415 volts 3Ph. or 240V supply drive motor with emergency disconnection and hand chain or push up operation in the event of power failure.

Cable tensioning devices are fitted as standard to all doors. Rubber seals are fitted to the top and bottom of each door with PVC seals to each side of the opening for protection against weather.

The following options are available to enhance the versatility of the door- Personnel access doors, integrated windows, electronic operation, various track arrangements, powder coat finish and plastisol finish



PVC STRIP CURTAINS

PVC strip curtains are used for a variety of purposes and need to be easy to install, easy to maintain and durable. Sectioning off an area of your business premises, but letting in light and air; they are the perfect solution for many difficult situations.

Uses for a PVC strip curtain

PVC strip curtains are used in a wide range of businesses and for a variety of reasons. They are a versatile solution for areas that need to be temperature controlled or where the outside environment cannot be let in, but where uninterrupted access to the area is vital. Some common uses include:

- Preventing heat loss
- Maintaining a cool temperature
- Keeping birds or insects out of an area
- Reduce the amount of dust entering an area
- Dividing working areas
- Storage and delivery areas

PVC strip curtain – the cost benefits

Installing PVC strip curtaining is the ideal way to control your environment without spending a fortune. Whilst the products are high quality and properly fitted, they bring many benefits that a more expensive solution may not. These include:

- Noise reduction
- Lower heating bills
- Regulated working environment

