

CATALOG



Entrance Automation Pvt. Ltd.

Rolling Shutters

WWW.LAKHERAAUTOMATION.COM



ROLLING SHUTTER

INTRODUCTION

- Lakhera supply the widest range of high quality industrial Rolling Shutters in all over India. All are designed for reliability, safety and ease of use. They have been installed in thousands of industrial buildings all over India and proved in use over many years.
- Lakhera Rolling shutter are suitable for all industrial applications and many commercial and specialist uses such as the food industry, cold storage, showrooms etc.
- All Rolling Shutters ranges include models providing good thermal insulation, with the increasingly important benefits of energy savings.

SERVICE

Lakhera Rolling Shutter provide a full back-up service with engineers and After Sales Technical Managers throughout to provide advice, routine maintenance and emergency cover.

ABOUT US

The Lakhera entrance automation provides customised and technically advanced solutions for all loading bay equipment (Lakhera Dock Products) and building access solutions (Lakhera Rolling Shutter & High Speed Door Products) as well as being market leader in heavy duty lifting equipment. Through our own service organisation, Lakhera provides the best possible service available.

These superior solutions are conceived, developed and implemented by a team of professional specialists with unique expertise. Lakhera's quality people make the difference in the production and installation of the products, making Lakhera a worldwide leading company in loading bay equipment, High Speed Doors and industrial Rolling Shutter solutions.

Galvalume Shutter

Steel trademarked the metallic coating Galvalume that is applied to a steel base sheet used in the forming of metal roofing panels. Galvalume is an alloy with both zinc and aluminum in it. ... In a nutshell, the aluminum provides the corrosion protection and the zinc provides the durability.

GALVALUME is a specific galvanized product made of 55% aluminum, 43.4% zinc alloy, and 1.6% silicon, a coating developed by Bethlehem Steel and licensed to all major steel manufacturers. The silicon encourages the adhesion of the aluminum and zinc to the steel substrate during the fabrication process.



Door Dimension

Width Min./Max.	1000/8000mm
Height Min./Max.	1000/8000mm
	Max. Area 64.0 Sqm
Opening Direction	Vertical
Opening/Closing Speed	0.05-0.1mtr /sec
Wind Resistance Up to	120Km/Hr
	* Higher wind pressure on request

Galvalume Shutter is more corrosion-resistant than galvanized Steel Shutter, but because aluminum provides barrier protection instead of galvanic protection, scratches and cut edges are less protected. Galvalume Shutter is offered in both bare and pre-coated versions.

Door Structure

Slat Material	Galvalume 1.0 mm thickness
Slat Profile	Corrugated Profile (RSC 78, RSC 88, RSC 113) Optional Flat Profile
Side Guide	Mild Steel/GI Side guides 75 mm, 100 mm, 150 mm & 200 mm wide Box guides with wind hooks for higher wind pressure as optional
Bottom Profile	Mild Steel/GI Bottom Plate with Angle Stiffener Rubber bottom seal as optional
Roller Shaft	Heavy duty Mild Steel strong suspension Tubular shaft without springs
Side Brackets	M.S plate 3 mm to 10 mm, as per the opening dimension
Hood Cover	Galvanized Steel sheet



Galvanised Rolling Shutters

Our standard door curtain is manufactured from 22swg galvanised steel lath which is suitable for the majority of commercial applications, as well as offering a high security alternative for backyards. However for very large doors, or doors fitted in very windy areas, we can offer a heavier 20swg steel lath for the curtain and wider guide tracks or wind lock guides.

FEATURES AND BENEFITS

- Provide secure protection to openings at reasonable cost.
- Space saving and simple installation; no overhead track or supports required.
- Suitable for all general industrial applications. Fire-resisting and insulated models available.
- Installation may be on the inside or outside face of the opening.

Galvanised steel roller shutter doors can be used for a wide variety of applications. They are perfect for backyards, shop fronts and factory units. Each door is purpose made to our customers sizes and to the specification which they require.



DOOR CONSTRUCTION

Shutter curtain is interlocking galvanised mild steel laths 75mm wide, available in thicknesses of 18, 20 or 22 swg. Thickness depends on shutter size. Die-cast zinc end locks are fitted to alternate laths. The curtain winds on to a seamless mild steel roller barrel. Barrel has self-lubricating phosphor bronze oil impregnated bearings on shutters up to 5m x 5m; above this size, enclosed ball bearings are fitted. The curtain runs in vertical steel channel guides fixed to each side of the opening, with end stops fitted at the top.





Specification

This is our continental commercial shutter, for larger sizes please see our specification for galvanised shutter.

- Available in electric or automatic operation
- Classic steel roller shutter with scrolled slat
- Can be powder coated any RAL/BS colour
- Manufactured with white or brown aluminium

Features :-

- ✓ The flexible roller shutter curtain can yield and springs back in case of any collision; the slats are rarely damaged or have to be replaced.
- ✓ The shutter slats continue to look good after many years of use thanks to their robust and attractive profiling.
- ✓ Motorized rolling shutters are self sufficient and can be operated by a single push button
- ✓ Our Drives have weight carrying capacity up till 2000Kgs.

Technical Parameter

Width	Min./Max. 1000/8000mm
Height	Min./Max. 1000/8000mm Max. Area 64.0Sqm Larger Dimension on request
Opening Direction	Vertical
Mounting Location	Inside
Mounting Surface	Concrete, Steel
Opening/Closing Speed	0.05m-0.1m/Sec
Wind Resistance	Up to 120Km/Hr

Curtain

Shutter curtains are constructed from continuous interlocking galvanised steel laths (perforated lath available), securely held in place by end locks. Bottom rails are generally galvanised and roll-formed into a T-section.

Guides

Vertical guides are formed from rolled steel and supplied with fixing angles suitable for securing to the structure .

End plates

Prime painted mild steel of appropriate thickness relative to door size and supplied with fixing angles suitable for securing to the structure .

Barrel

The barrel is constructed from seamless steel tube of adequate diameter to resist deflection and held in bearings or cups attached to the end plates.

Hood

All fire shutters as standard include a galvanised sheet steel hood (coil casing). A motor cover will be included on all shutters under 2500mm high and as an option over this height .

Aluminium Shutters

Roller shutters are permanently exposed to the elements. A big challenge, particularly in view of climate change: extreme situations, such as heat waves, storms and changing weather patterns. This places increasing demands on materials and building façades. Aluminium provides an advantageous, high grade material that guarantees durability and longer product life. It also retains its shape and colour better than PVC. Aluminium roller shutters also provide effective anti-burglary protection:

Aluminium Rolling Shutters made of design patented extruded double wall aluminium profiles provide durability, efficiency and functionality while being light weight as well as robust. Aluminium Rolling Shutters can be installed in areas where it would be exposed daily to the atmospheric conditions as it is corrosion free



They are the strongest option of shutter material we have in our range and are known for their iron fisted secure nature. This shutter is made from a powder coated, architectural grade, aluminium material fitted with patented, strip proof Italian locks. This allows for users to lock the panels in place with reliable sturdiness that is resistant to both nosey and active burglars. This all makes them the absolute best choice for those who are feeling security conscious.

The range itself can be used in any room in the house to really give you peace of mind short of having security cameras and an armed escort. All without having to sacrifice on style as it's available in Silk White and custom colour match available too if you're really looking to make them your own.

With this new material comes the added stylistic bonus that they can be fitted to the exterior of a home to give you that classic French style you've always wanted. The panels themselves have the same appearance and flexibility of the rest of our range of materials. However, due to the nature of the panel's secure design, they are only available with the Modern slat size of 89mm and with a silent tilt rod.



Stability and heat resistance

If a roller shutter curtain is unstable, it can have potentially far-reaching consequences. In the worst case scenario, it may need replacing. Strong sunlight and heat can cause the surface of a PVC roller shutter to become distorted and warp. Temperatures during a heat wave fail to have a negative effect on the stability and overall performance of aluminium. Even wider aluminium roller shutters remain in perfect shape. Up to 4 m wide windows are possible. Maximum widths of 1.60 m are recommended for PVC roller shutters. Although experience has shown that PVC roller shutters with windows wider than 1.20 m are generally quite insecure.

Benefits

Perfect for homes and businesses with a security conscience who don't want to sacrifice the design for the security of their establishment.

Like all of the materials in our range, they are resistant to warping, fading, chipping, cracking and bumps.

Resembles all of the other materials in our range.

COLOUR OPTIONS

Satin White (powder coated) is a close match to our standard Silk White. Other standard colours are Charcoal & Light Grey. Custom colours can be selected from internationally recognised powder coating ranges, please contact us for more information

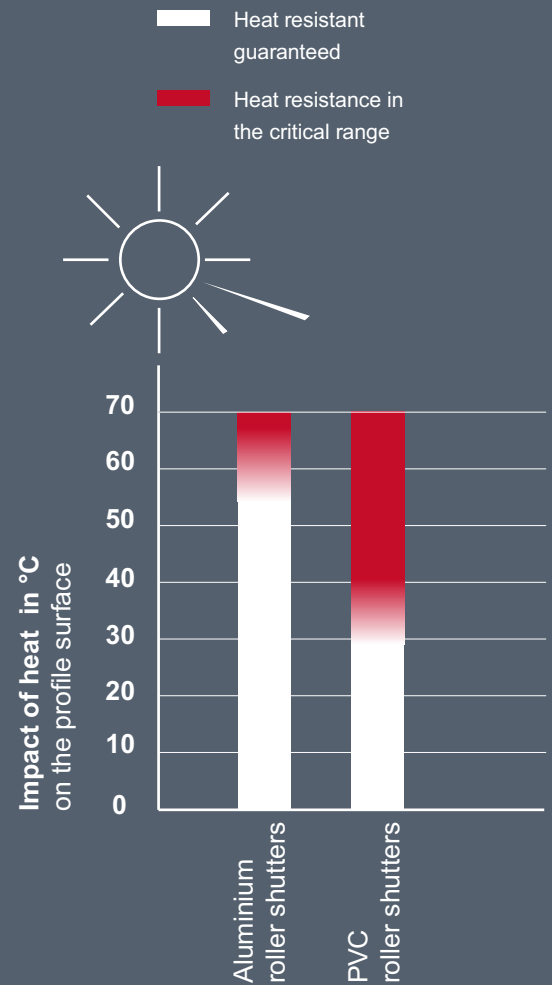


Suitable for :-

Residential premises
Bars, restaurants, hotels,
reception areas
Offices, day-centres, hospitals,
schools ,Shopping malls, shops

Key features :-

Lightweight and strong
Small and elegant
Operate quietly



Reduced heat loss, lower energy costs

The insulating air cushion between the roller shutter curtain and the window greatly minimises thermal bridges. In order to fully exploit the insulating effect, our roller shutters produce a tight seal around the window area. The heat stays in and the cold stays out. On hot days, the reverse is true. In both scenarios, you save energy and benefit from a better indoor climate



Manual Operated Roller Shutter

A Manual Operated Roller Shutter allows security where electricity isn't available for a range of Industrial and Commercial businesses such as Farm buildings, Factories, Industrial Units and Garages.

Advantages of a Manual Operated Roller Shutter

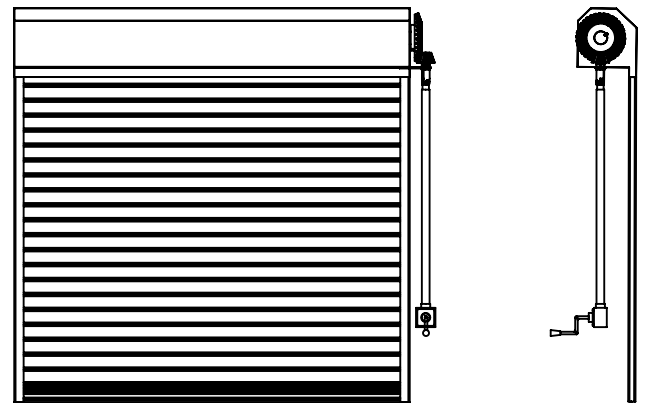


NO NEED FOR ELECTRICITY

A Manual Operated Roller Shutter really can go anywhere you have the headroom for it. Due to having a sprung barrel which counter balances the shutter it allows it to be operated by either a Push Up system on shutters up to 4m² or a Handel gearbox system on shutters that go up to 30m². So no matter how remote your site is, a manual operated roller shutter can work for you.

SAFE AND SECURE

Not only do our Manual Operated Roller Shutters hold a Wind Class rating up to Class 5 Wind Loading (BSEN 13241-1:2003, BSEN 12424:2000 and BSEN 12444:2001), but they also offer the highest level of safety as well. Our Hand Chain Roller Shutter features a specialised Safety Brake that will engage in the event of the counter-balance springs breaking in the barrel. This Safety Brake prevents the door 'dropping' from its original position and so ensures it conforms to all Health and Safety regulations including the Provision and Use of Work Equipment Regulations 1998 (PUWER).



Bespoke Design and Finish

Our Manual Operated roller shutters can be designed to suit your exact needs. Not only are we able to supply both push up and hand chain operation but your roller shutter can be finished in a wide choice of lath and colours.

Solid Traditional Scroll Lath

Perforated Lath

Galvanised

Plastisol in a wide range of colours

Powder Coated in all BS and RAL colours



Manual Shutter Specification

Gear-operated type rolling shutters shall be operated by means of bevel gear box and crank handle or by a chain wheel and endless hand chain mounted directly on the worm shaft respectively. The bevel gear box shall be mounted on the wall adjust to the shutter at a height of approximately 0.85 m from the floor. The gear box and the worm the crank handle operation shall be provided both sides of the wall by extending the horizontal shaft be provided on both sides of the wall by extending the horizontal shaft of the gear box backwards and providing an extra crank handle at the back of the wall. Chain wheel and hand chain operation may also provided from both sides if needed. The endless hand chain shall hang to a distance of approximately 0.85 from the floor level.

Manual roller shutters come with a crank object which is fixed at the side of the shutter.



Chain Operation

The normal manual operating mechanism for an industrial roller door is a steel chain pulley system with gearing at high level to suit and provide an easy operation. There is no way the opening or closing speed can ever be particularly fast with a manual chain system as the gearing takes the speed right down as a compromise for effortless operation. As the speed is so slow the manual operation is only really suitable, as we said, for low usage doors.

Advantages of Crank Operated Roller Shutter

1. Hand operated roller shutters work out cost-effective than the motorized ones.
2. They are convenient for lighter doors and windows
3. Does not depend on electricity and can be used even in the event of power failures especially in areas which are prone to them.

Stainless Steel Shutter

Stainless steel in appropriate grade provides the best long term solution in salt or corrosive environments or in food production and processing. Optionally polished can be a striking feature of any building. If high performance, longevity and smart appearance are important, then stainless steel roller shutters from Lakhera could be the solution.

IDEAL USES

- High-end retailers
- Any high-tech environment
- Internal or external apertures where aesthetics are important

KEY FEATURES

- Prestigious shutter for high-end locations
- Gives the appearance of a far more expensive door.



Roller shutter doors finished in stainless steel give a stylish, high-tech look, but can be prohibitively expensive. To overcome this, and make the elegance of stainless steel doors far more cost effective, we are able to supply doors fabricated from a combination of stainless steel and silver powder-coated steel. These doors deliver all the aesthetics of stainless steel, but at a fraction of the price. To the untrained eye, they look exactly like a door made entirely of stainless steel. In fact, only the major visible component - the door itself is made from stainless steel, while other elements including the curtain, hood and guides are made in silver powder-coated steel for a perfect match.

Our unique solution makes stainless steel shutters affordable to anyone wanting a door with the clean, shiny, metallic finish that only this material can give.

Product Options

- Various door models available in Stainless Steel
- Different grades of material available
- Various polishing options
- Upgraded motor covers with insulation
- IP65i Drives

Benefits

- Ease of cleaning
- Contamination prevention
- Corrosion limitation
- Extended lifetimes
- Protection for exposed / harsh environments

Applications

- Food processing production and handling
- Pharmaceutical production and handling
- General clean room applications
- Corrosive environments
- Offshore surroundings





Lakhera offer the widest range of high quality made to order commercial and industrial insulated roller shutter door systems, ensuring any building has the best and most reliable roller door for regular access but also keeping the inside temperature as constant as possible whilst saving heating bills and preventing staff from getting cold in the winter.

Insulated Shutter

Standard Insulated Roller Doors

Lakhera offer a steel or aluminium insulated roller door for use as a multi purpose door system in any building requiring good levels of insulation as well as security . The doors can be manually operated up to a certain size with operation by either a spring assisted simple push up and pull down or a chain operated and geared system if the door is too high or over a certain maximum size.

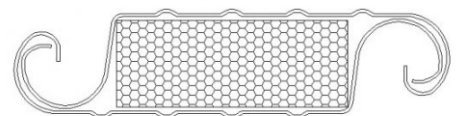


The majority of insulated roller doors are electrically operated and these days with the advances in technology most of the time single phase electric motors are perfectly suitable even for relatively high usage. The use of inverters has meant the roller door also will have a much longer life span and need less servicing as less stress is put on the door components with a soft start and soft stop feature

FEATURES AND BENEFITS

- Choice of insulation levels for normal applications or higher value insulation for applications where temperature control is critical.
- Powered or manual operation to suit individual requirements.
- Seals all round the door and between hinged panels ensure continuity of insulation.
- Suitable for all industrial applications including loading bays, with a range of doors to meet specific requirements.
- Robust construction and heavy duty hardware designed to give a long trouble-free working life in rigorous conditions.
- A range of track configurations is possible to suit different building layouts and headroom available.
- Range of safety features including finger protection at panel-to-panel joints.

Lath Section Detail



Perforated Shutter

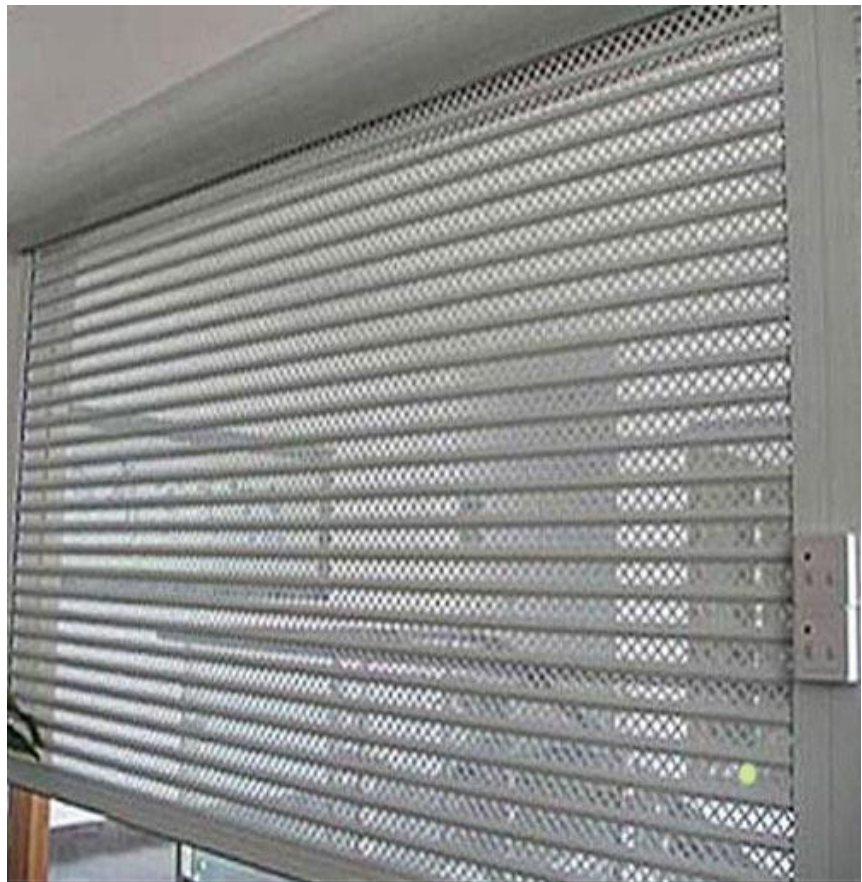
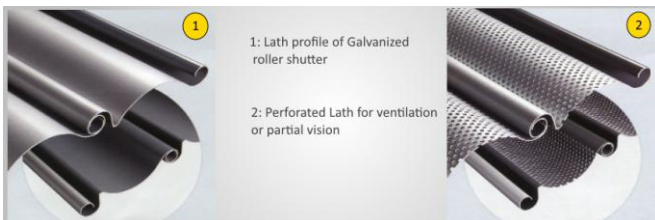
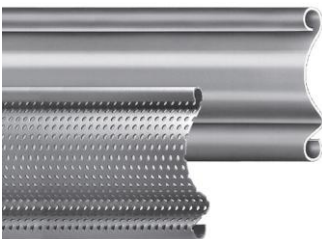
Our extensive range of perforated shutters serve as a great solution for retailers. Used in both the high street and shopping malls, our perforated Shutters allow closed premises to be secured, whilst allowing customers to see inside when the area is backlit. Security staff are able to see at a glance that the store is secure.

Shutter construction can be of steel or aluminium, and are available in a wide range of aesthetically pleasing finishes and colours. As well as retail sites, these shutters have been successfully installed in cinemas, universities, hospitals, libraries, colleges, schools, gyms and health centres. They can also have applications in industrial settings.

The shutters are lightweight, and we can offer the choice of manual or electric operating systems to suit your needs. Our Perforated roller shutter doors maintain a high level of security whilst allowing great visibility. These robust security solutions are economical and require minimum maintenance, delivering reliability and a long working life

CURTAIN

The curtain is constructed from galvanised continuously interlocked steel laths that are securely held in place by end locks. A number of thicknesses and profiles are available according to individual circumstances such as size, wind loading etc. Bottom rails are generally galvanised and roll-formed into a tee section.



GUIDES

Vertical guides are formed from rolled steel or fabricated dependent on size and are supplied with appropriate angles for fixing to the structure.

END PLATES

Mild steel of appropriate thickness in relation to door thickness is prime painted and supplied with angles for fixing to the structure

FINISH

Comes galvanised with non-galvanised parts prime painted as standard. Customers can choose to have a powder coating of almost any colour as an additional extra.



Poly Carbonate Rolling Shutter

The Poly Carbonate Rolling Shutter is also called transparent film rolling gate. The Poly Carbonate Rolling Shutter made of transparent polycarbonate film(PC),stainless connect pipe, guide rail, scroll, intelligent control systems , motor and other components.

The popular design is ideally suited for internal and external use. Widely used in bank, shop front, shopping centers, bars, restaurant, public buildings and any other entrance where security with vision through the shutter is required.

The greatest feature is Anti-theft,windproof,rain proof and high transparency. Commodity grades and the advantages of upgrading the image of the shop more obvious.

electrically operated with motor by switch & remote control & provided with manual chain in case of power failure/emergency.Photocells,loop , magnetic lock, fire alarm are additional optional safety features.

The Features&Advantages

- 1.High viscosity import gathered carbon acid fat (PC) material production
- 2.Impact strength:1400J/square meter
- 3.Elongation at break:250%
- 4.High transparency:88%
- 5.Bending strength:78MPa
- 6.Rockwell hardness (HRR):60
- 7.Quick and easy installation, easy for cleaning purposes
- 8.Elegant,luxury and modern appearance





Rolling Grills Shutters

The ideal solution for low to medium operational frequencies.

Chainlink roller grilles combine modern and elegant lines with lots of open space. They are versatile security shutters, suitable for a range of different applications.

Available in two patterns:

- Brick bond pattern,
- Inline pattern

Canopy:

Roll-formed aluminium in two sections; top and bottom boxes. Bottom box removable for installation and maintenance.

Operation:

Manual push-up/pull-down operation or electric operation by internal tubular motor with manual override facility. Safety brake fitted when required .

Finish:

Anodised natural aluminium as standard. Also available in polished aluminium, stainless steel or powder coated.

Lakhera Manufacture rolling grills from aluminium or steel tubes and links, put together with steel rods, Chainlink grilles make a light weight, but strong, curtain. They are available in brick bond and inline patterns. A large area of open space between the links creates a sense of openness that makes Chainlink grilles a popular choice for shopfronts as well as reception counters, bars and serveries.



Key features

Good visibility
Effective security
Contemporary design

Suitable for :-

Retail shopfronts
Reception areas
Food serveries
Counters and bars

Fire Resistance Shutters

Fire Rated Rolling Shutters are rated physical fire barriers that protect wall openings from the spread of fire and are designed to close automatically in the event of fire or an alarmed event. Automatic closure will be thermally controlled by means of fusible link.

Lakhera manufacture a range of fire resistant shutters, rated from 30 minutes up to 240 minutes fire resistance, specifically manufactured to customer dimensions and specification. The preparation of the supporting structure of the fire shutters has to be constructed to a strict set of rules as detailed in our data sheet and in an installation guide.

Our fire resistant shutters can be fitted to brickwork, and block work with concrete lintels in the case of 4 hour doors. 2 hour resisting doors can be fitted to insulated and fire protected steel when the steel is fully encapsulated and 1 hour and less fire shutters can be fitted to timber or metal stud partitioning provided it is one hour fire boarded and adequate supporting frame is provided within the structure specifically for the door.



Specification

Designed for use in areas where protection from the spread of fire is required. The shutter has been tested to BS476 Part 22. Providing up to 240 minutes of protection .

Curtain

Shutter curtains are constructed from continuous interlocking galvanised steel laths (perforated lath available), securely held in place by end locks. Bottom rails are generally galvanised and roll-formed into a T-section.

Guides

Vertical guides are formed from rolled steel and supplied with fixing angles suitable for securing to the structure .

Hood (Coil Casing)

All fire shutters as standard include a galvanised sheet steel hood (coil casing). A motor cover will be included on all shutters under 2500mm high and as an option over this height .

Barrel

The barrel is constructed from seamless steel tube of adequate diameter to resist deflection and held in bearings or cups attached to the end plates.

End plates

Prime painted mild steel of appropriate thickness relative to door size and supplied with fixing angles suitable for securing to the structure .

Fire Resistance Technical

Finish

Generally galvanised with non-galvanised parts prime painted.

Steel laths available in: Polyester powder coated in a range of BS/RAL colours to give a durable finish

Electrical Operation

Suitable for all sizes of shutters, the motor is either single phase (240 Volt 50 Hz) or 3 phase (415 Volt 50Hz) with controlled descent dependent on size of door . As standard each shutter will include an open/stop/close push button station mounted .

Options

Self closing by means of a thermal fusible link activated at a temperature of 68°C and mounted to the underside of the hood

24v DC auto resetting solenoid release device connected to the fire alarm/smoke detector Solenoid automatically resets when the shutter is fully opened by pressing the 'up' button and when the alarm has been turned off.

The fire alarm circuit must provide the supply for the solenoid (0.5 amps) with an initial supply of 3.5amps for 20 30 m/seconds to release the shutter but only when in the alarm condition. (If the fire alarm circuit is unable to provide a 24v DC supply for the solenoid or ancillaries a battery back-upsystem can be provided at extra cost).



Fire Protective Paints

Offered by us is a wide range of alluring Fire Protective Paints to the esteemed customers, as per their preferences. We design these paints with the assistance of our team of experts to suit the interiors of the commercial sectors. These paints are available in various packaging materials as per the needs of the customers.

Note To comply with current legislation, fire shutters cannot be linked to fire alarm systems if they are over fire exits or cover a fire exit route. They can only be fitted with a device which will close the shutter by a local heat source i.e. fusible link.

Maintenance

All our products are manufactured to a very high specification. However, planned maintenance can ensure trouble free operation.

Our Service Department can advise on a suitable maintenance agreement.

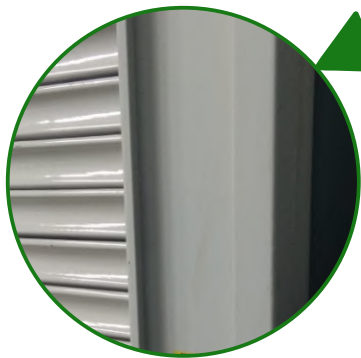
Wind Lock Guide Channels

Lakhera Roll forming manufactures a wide range of standard and custom design guides and channels that are used as mounts and supports for roller doors and roller shutters. Used extensively in residential, commercial and industrial Shutters applications.

This type of door is suited for outside openings and is designed for wind load everyday use with minimal maintenance. In addition to operating at speeds 1.0 m /10 sec. Used extensively in commercial and industrial applications, Lakhera Roll forming roller door guides are used by many of the major manufacturers of roller doors in Lakhera.

The standard range of guides are roll formed from L200 pre-galvanised steel, in thicknesses ranging from 2mm to 3.00mm and are available in any length. Lakhera Roll forming roller door guides are manufactured to very tight tolerances, particularly in relation to the critical factors of straightness (no twisting) and consistency of profile, and combined with their superior strength, they play a major role in ensuring the integrity, proper alignment and smooth operation of the roller door.

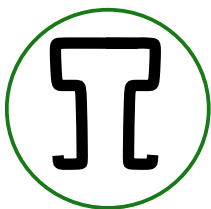
Wind Lock Guide Channel



Under a wind load a roller door is designed to deflect, and the wider the door the more it will deflect. This deflection causes friction between the roller door and the door guide which can prevent the door moving up and down. Lakhera Roll forming's Wind lock roller door guides have been designed to reduce the amount of friction between the door and the guide, therefore allowing the door to operate under a wind load.

Lakhera Roll forming is a custom metal roll forming specialist, with the capability to roll form an almost infinite number of profiles in a wide range of metals.

This model offers beneficial energy savings in both commercial and industrial applications in addition to reducing noise. Lakhera offers a wide range of shutters for a bewildering variety of requirements. Incorporating state of the art technology.



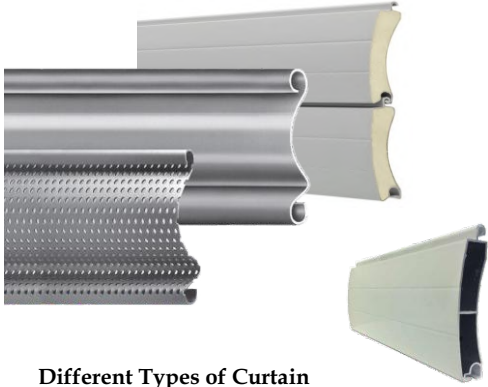
The top of guides is flared outwards and flanges welded for ease of curtain entry into the channels.



Interlocking guide channel

Our team can offer you a good solution in order to keep wind or rain outside and improve your employees comfort while working.

Accessories

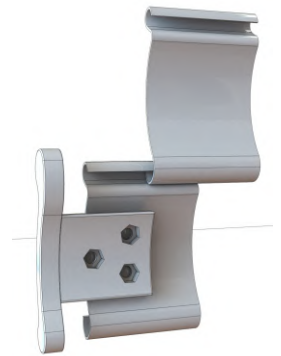


Different Types of Curtain

CURTAIN

The curtain shall be built up of interlocking lath section formed from cold - rolled steel strips. the thickness of the sheets from which the lath sections have been rolled shall be not less than 0.900 mm for shutters up to 3.5 m width and not less than 1.20 mm for shutters above 3.5 m width. Curtain above 9 metres in width should be divided into 2 parts with provision of one middle fixed or movable guide channel or supported from the back side to resist wind pressure.

The lath section shall be rolled so as to have interlocking curls at both edge and a deep corrugation at the centre with a bridge depth of not less than 12mm to provide sufficient curtain stiffness for resisting manual pressure and normal wind pressure. Each lath section shall be continuous single piece without any welded joint. When interlocked, the lath sections shall have a distance of 75 mm between rolling centres , although lath sections with 50 mm and 25mm rolling centres may be used for special purposes, like small show windows, bus windows etc. Each alternate lath section shall be fitted with malleable cast iron or mild steel clips securely riveted at either end , thus locking the lath section at both ends and preventing lateral movement fo the individual lath sections. The clips shall be so designed as to fit the contour of the lath sections.



Curtain Strip With Nylon Lock

Two Types Bottom Plate



M.S/ Galvanized steel

Aluminium

Bottom Plate with Rubber Seal

A fabricated lock plate of riveted construction made of mild steel sheet of not less than 3.15 mm thickness, reinforced with mild steel angle section of not less than 35 x 35x 5 mm size at the bottom, shall be interlocked with bottommost lath section of curtain so as to provide contact against the seal , when closed. Alternatively, the lock plate may also be fabricated out of unequal mild steel angles or ' Tee ' section of not less than 5 mm thickness. The lock plate shall be fitted with sliding bolts at either end to engage with suitable receiving pockets at the bottom of guide channels. The sliding bolts shall be capable of being locked by means of padlocks both from outside and inside.

A Simple button to press placed near the shutter . Where pedestrian traffic is high its's very useful to install a push-button for pedestrian opening that doesn't open the door completely but only half - way. Three Push Button command UP - Down - Stop.



PUSH BUTTON



PHOTO CELL

Safety Photo Cell sensor can also be used like an opening command. A Light barrier placed at a certain distance from the door make the door opening when excited.



STC BOX

STC Box is a lockable box for Rolling Shutter Control Push Button. 3 separate key along with each STC box.



MOTOR & SAFETY BREAK

Electrically Operated Rolling Shutters - Electrically operated rolling shutters shall be operated by an electric motor operating on 400/440 V, 3 phase & 1 phase 50 cycle ac supply. The electric motor shall drive the worm shaft by chain or belt drive or through a reduction gear box. The reduction gear box shall have a control lever within easy reach from the floor so that the motor may be disengaged and the auxiliary chain gear operating mechanism may be engaged instantly in the event of be completely removed without interfering with the operation of the rolling shutter or the auxilliary drive. The electric drive shall be so designed as to limit the speed of movement of the curtain in either direction to not more than about 10 cm/s

AC SERIES WITH 3 PHASE CHANGER



Main features

- Compact design attractive appearance, safe and reliable performance. It has the advantages of light weight, low noise , convenient to install, safe and reliable performance Manual operation in case of power failure.

Note: the pawl is the main device for braking , don't put it off.

Hand Chain

In case of power failure, you can open or close the door manually by pulling the hand chain. It is important to ensure that the chain is not fitted twisted. If the chain is twisted, malfunctions may occur when the hand chain is used.

Safety Break

Safety brake allows a grille or shutter to be closed in a safe controlled manner after a catastrophic spring failure. Safety brake alerts the user when the counter-balance spring requires recharging due to natural relaxation of the spring. The monitoring feature ensures that a grille or shutter balance can never be allowed to de-generate to the point where it descends at high speed. This is a condition that affects all shutters at some point during the useful life of the product. Safety brake senses additional problems such as seized bearings or spring deformation/jamming



SAFETY BREAK

Difference & benefits between Single Phase & Three Phase Motor

Single phase requires the single wire to connect the circuit whereas; 3-phase needs 3-wires. The voltage of the single phase is 230V, whereas three phase voltage is 415V. ... The single-phase AC power supply is utilized for home appliances and three phase power supply is used in huge industries to run heavy loads.

MAIN PARAMETERS AND SPECIFICATIONS

Model	Rated Power (W)	Advance Force (kg.f)	Output Torque (N.m.)	Output Speed (r/min)	Maximum Raising Height (M)	Diameter of Roller (mm)
380V 50Hz						
1000-1Ph	550	1000	715	5.5	9	154
1000-3Ph	550	1000	875	5.5	9	154

One of India premier manufacturers of Entrance Automation and Loading Dock



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