

Industrial Roller Shutter Buying Guide

Our Industrial Roller Door range is ideal for large openings, i.e. Loading Bays, Factories, Warehouses and Agricultural Buildings. The industrial doors are available with Single Skin Steel Laths which are cost effective and Insulated Laths for temperature control. Our Industrial Roller Shutter Doors are available with:

- Manual Chain Operation
- Single Phase Motors
- 3 Phase Motors

WHAT ARE ROLLER SHUTTERS NEEDED FOR?

Industrial Roller Shutter Doors are usually installed to provide security or temperature control. Knowing the purpose of the roller shutter, the usage the shutter will get every day and power supply available on site, will help narrow down the type of Roller Shutter required.

EXAMPLES:-

VISUAL BARRIER - This could be a roller shutter fitted over an Agricultural Grain Store, to help keep the weather and vermin out. This is where the cost of the shutter is more important than the security it provides.

SECURITY - When the priority is security, it comes down to budget. The higher the level of security the more money you pay for the shutter. Insulated Steel Laths provide a higher level of security than the single skin laths.

TEMPERATURE CONTROL - It can cost a lot of money to heat a warehouse. Fitting an Insulated Industrial Door will help reduce the heat loss when the shutter is closed.

If there is a lot of traffic in and out of the door every day, then you can go for a High-Speed Roller Shutter. As the Fork Lift approaches, the shutter will automatically raise and automatically close after a set time. This helps reduce the heat loss, as the shutter is not open all day, just for a short period.



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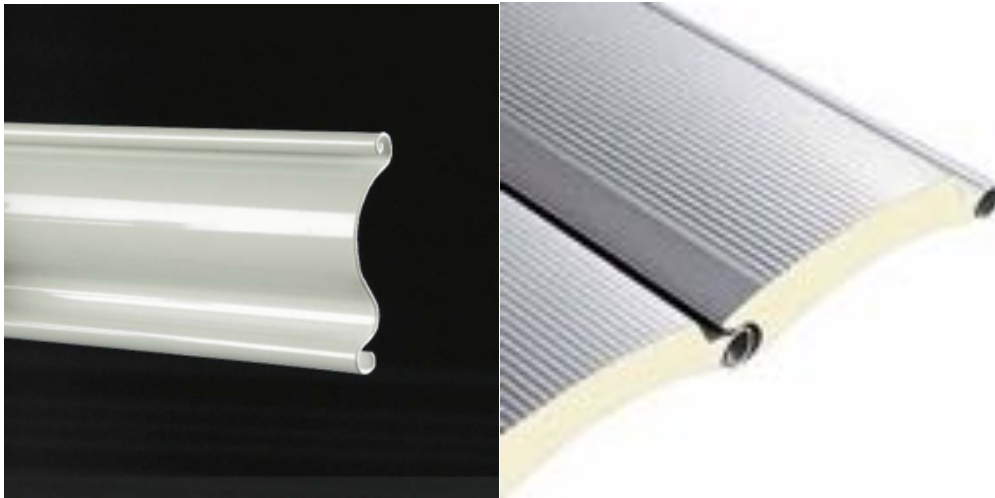
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WHAT MATERIAL ARE THE ROLLER SHUTTERS MANUFACTURED FROM?

Industrial Roller Shutter Doors are manufactured from either Steel or Aluminium. Depending on the size and application will depend if Steel or Aluminium is available. Aluminium is more expensive than steel but is lighter and doesn't rust. For very large openings the Aluminium lath is used to help keep the weight down of the Roller Shutter Door.



SINGLE SKIN STEEL LATH

TWIN WALLED LATH

Advantages of Steel Shutters:

- Usually the lowest cost option
- Available in Single Skin and Twin Walled with Insulation

Advantages of Aluminium Laths:

- The Aluminium Laths are Twin Walled and Insulated.
- They are lighter in weight
- Aluminium does not rust and so provides better weather and corrosion resistance, so retains its appearance better throughout its life.
- Powder Coating keys very well onto Aluminium, providing a long-lasting finish. Powder Coating onto Galvanised Steel on the other hand does not provide a very good key, hence does deteriorate over time as can be witnessed on many Shop Fronts who tend to go for Steel Shutters being the cheapest option.
- Aluminium is the preferred solution for Coastal areas because Steel will corrode

TYPES OF CURTAIN AVAILABLE

There are usually only TWO types of Curtain Lath used on Industrial Doors. On some shutters we can mix TWO types of Lath together in the same shutter curtain e.g. some Punched Laths at eye level for Vision with the remainder of the curtain Solid Laths.

- Solid Laths
- Punched Laths

SOLID LATHS - Solid Laths are solid, you can't see through them and are usually the cheapest type of Lath. Solid Laths are also more secure than Vision laths.



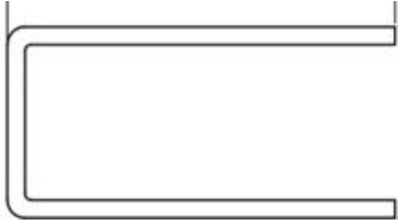
PUNCHED LATHS - The whole shutter can be Punched, but they are usually used to provide vision through a Solid Shutter. When the door has fork lift traffic going through it, we usually put a several rows of Punched Laths at eye level, to provide vision and for safety.



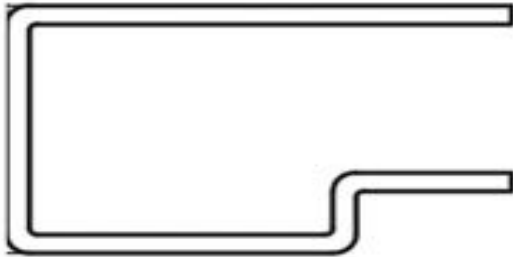
TYPES OF GUIDE RAIL AVAILABLE

There are **TWO** Types of Guide Rails:

1) Standard "U Channel" - This is OK for smaller openings and where there are no issues with wind.



2) Wind Lock Guide - This is used for larger openings and applications that the door is exposed to winds. The Windlock guides tend to be deeper, so the curtain stays further within the guides. It has an additional profile at the back of the "U Channel", where the Curtain Wind Locks, run down.



TYPES OF OPERATION

There are Two Types of Operation - Manual Operation and Electric Operation. When trying to decide, ask the following Health and Safety questions;

- **Who is going to be operating the Shutter?**
- **What are their Physical abilities?**

Can they operate the Shutter without leaning or stretching across anything?

TYPES OF MANUAL OPERATION

Chain Operated -This is an old-fashioned way to operate large industrial roller shutters. This has become less common as Electric operation on larger shutters is cheaper than Chain operation. Chain operation is ideal for locations where there is no power i.e. Barns.

Electric Operation - This involves a Motor that powers the Roller Shutter. The motors are available in Single Phase (240V) and 3 Phase (415V).

SINGLE PHASE MOTORS

Tube Motors - The motor is concealed within the roller shutter barrel. They are cost effective and designed for light usage i.e. 1-4 Times per Day. You can have a Manual Winding Handle, to operate the shutter in the event of a Power failure.

Industrial Motors - Single Phase Industrial Motors are slightly heavier duty compared with Tube motors. They have a Chain Manual Override. Single Phase Industrial Motors are available in two configurations;

Inboard-This is where the Motor is fitted inside of the endplates and uses a chain to drive the shutter barrel. These tend to be cheaper than Outboard motors but require more maintenance and can be more problematic due to the Chain.

Outboard (Direct Drive) - This is where the shutter is bolted onto the outside of the Endplate. The shutter barrel extends through the endplate and goes through the Motor. There is no chain, so its heavier duty, operates quicker and less problematic.

3 PHASE MOTORS

3 Phase motors are Heavy Duty and are usually used for Bigger Doors or High-Speed Doors. They have a Chain Override, in the event of a power failure.

Inboard-This is where the Motor is fitted inside of the endplates and uses a chain to drive the shutter barrel. These tend to be cheaper than Outboard motors but require more maintenance and can be more problematic due to the Chain.

Outboard (Direct Drive) - This is where the shutter is bolted onto the outside of the Endplate. The shutter barrel extends through the endplate and goes through the Motor. There is no chain, so its heavier duty, operates quicker and less problematic.

CONTROLS FOR ELECTRIC INDUSTRIAL ROLLER SHUTTER DOORS

We have a range of Controls for Single and 3 Phase Roller Shutters, to suit most requirements. Usually the Tube Motors will come with a Toggle Switch and the Industrial Motors will come with a Push Button Station.



There are a range of other Control Options available:

Safety Edge - This is fitted for safety. It's a rubber strip at the bottom of the shutter curtain, if it hits anything it will stop the roller shutter. The safety edge can be Hard Wired or Battery Operated.

Light Grille - This is a 2m high strip of lasers, that is fitted into the guide channels. The lasers are spaced approx. at 200mm. If one of the beams is broken, the shutter will stop.

Auto Close - This is where the shutter will automatically close after a set time. A Safety Edge must be fitted.

Motion Sensors - These can be fitted on one side or both sides of the opening. It detects person or vehicle movement and opens the roller shutter door.

HOW TO OPERATE IN THE EVENT OF A POWER FAILURE

Sometimes you may get a power failure and still need to open or secure the roller shutter. If this is the case, you need to consider a Manual Override. We have two types of Manual Overrides;

Winding Handle (Single Phase Tube Motors) - A separate winding handle with a Hex Bar attachment is slotted into the motor end of the shutter box and connects into the motor drive. You then simply wind the shutter open or closed. This can be a fiddly, depending on where the hole for the override is located and if you have the winding handle available. Also winding the handle can be a slow process. However, for the very occasional time that it may be required, could save a lot of time, cost and aggravation. So well worth paying the extra £45 + VAT but also specify a Manual Override Lock at an extra £24 + VAT to prevent other people being able to override your Shutter.

Chain Override (Industrial Motors) - This is a Chain that attached to the Motor Barrel and hangs down. Usually you must engage or disengage the chain override at the motor height. You then simply pull the chain to open or close the shutter.

WHAT FINISHES ARE AVAILABLE?

Industrial Steel Shutters come in a Galvanised finish. We can powder coat the shutters in a large range of colours at an extra cost. Our quotations detail the extra costs for each of these colours. The full range of colours can be seen on our website. If we don't have the colour in stock, then we can buy it in especially at an extra cost.

Please note that some of the Insulated Laths, can't be Powder Coated. Some of the foam in some of the laths melts in the Powder Coating Ovens. If we can't powder coat the insulated lath, then we can apply a coloured film onto the outside face of the laths.