Roller Shutters Doors
Technical Manual
Shutter (FRS) Doors

Industrial roller shutters manufactured at Polidoor offer high durability, versatility, ease of installation and operation combined with innovation and the highest safety standards of the market. All products conform to EN 13241-1.

Technical Characteristics Guides

Complete assembly consists of two hollow steel metal sections (size depended to assembly weight) where complete roller shutter is supported. Along those sections guide channels are mounted, equipped with aluminum and dual brush configuration to ensure highest possible insulation.

Roller type sliders are installed on the top of the guides to ensure minimum noise and wear during operation.

Construction is self supported and there is no demand for attaching to the ceiling.

Lifting Mechanism

Lifting mechanism consists of a rolling shaft that deploys or retracts the curtain by unfolding or folding the curtain onto it. Complete system is contained by side protectors.

Power is provided by a side mounted power group, consisting of motor, reducer, drive chain and drive gears.

On the opposite side of the power group a mechanical safety brake is installed. Safety brake stops uncontrolled deployment of the curtain. As additional safety feature, safety brake is monitored electronically, and if engaged operation of roller shutters seizes until experienced installer inspects it.

Industrial roller shutters are electrically operated, with the use of a button panel. All commands are controlled and monitored by an advanced programmable electronic board that supports all safety features and add on features such as: safety edge, photocells, warning buzzer and beacon, remote control etc. As safety feature, button panel operates at 24V.

For additional information, refer to programmable electronic board manual.

Curtain

Roller shutter curtain can be manufactured from different profiles, single skin, dual skin, or insulated. At the bottom of the curtain, heavy duty bottom bar is installed implementing a sealing rubber profile.

Please contact our sales representative or refer to profile data sheet for further information.

Manual Override

Manual override can be performed either by the use of a crank or a chain hoist. For safety reasons, during manual override, all electrical operations are seized even without power failure.
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Maintenance Instructions

Introduction

Please read the maintenance instructions carefully.

Damage resulting from failure to observe maintenance instructions is not covered by the warranty. Keep these instructions until you dispose of the product or hand them over to the new owner if you sell it.

This roller shutter was delivered and installed by specialists, repairs and dismantling may only be carried out by trained personnel. Do not make any changes yourself.

Elements Of Roller Shutters With Motor Types Rsm 24, Rsm 45
Step 1: Verify operation of Roller Shutter

By pressing or by pressing and holding the corresponding button (Up/Down) the roller shutter should operate at the desired direction.

The end stop of this product is controlled by a terminal box. Observe if terminals are correctly adjusted, with the following as guidelines:

Closed position should be set correctly, when sealing rubber touches firmly ground level and no profile of Roller Shutter curtain collapses into another profile (Distance A is maintained at max).

Open position should be set correctly when curtain is 200mm from rolling drum. Visually, this can be verified if bottom profile with sealing rubber is hanging under the rolling drum (B).

In case A or B are not as described, please call immediately authorized installer to adjust. If there is automatic operation of the shutter, please stop using it and stop manually the product with corresponding STOP button before full deployment areas.
Step 2 : Cleaning of product.
Clean product in regular intervals. Recommended is a weekly basis. If the area where the Roller Shutter is operating has heavy dust, please clean in daily basis. Always use dry cloth, or cloth soaked in pure water. Do not use chemicals. If the product is equipped with vision panels, never use house cleaning products, or mild cleaning chemicals. Always use cloth soaked in water. Do not apply pressure on transparent areas, as this will scratch product beyond repair.

Step 3 : Greasing the product
Please check every 12 to 16 months the tension and the status of the drive chain. Clean chain with cloth, remove old grease from chain and apply general purpose grease in chain. If there is excessive dust in chain, reduce the interval to a period of six months.

Step 4 : Inspect sealing profiles in guides
Product is equipped with brush profile inside the guides. Depending on working cycles, and operating conditions (i.e. operation under heavy wind loads) this profile requires replacement, as it deteriorates. It is recommended that brush profile is replaced in a yearly basis, so maximum sealing is achieved. For better inspection, it is recommended that shutter is on the open position, to provide best visibility in the guide area.
Note: