



Operation

Vertical rolling shutter that can be manual or motorized applications if desired.

Finishes

Polycarbonate Slat
100% clear, UV treated
Aluminum Hinges
Natural Anodized
Powder Coated to our standard RAL range

Maximum Sizes

12000mm (w) x 8000mm (h)

POLYCARBONATE SHUTTERS

100% clear and strong

If what you need is stellar clarity for window shopping combined with the security and strength of steel, we suggest our polycarbonate clear view roller shutters.

Polycarbonate is extremely strong yet 100% transparent, meaning as an owner or an architect, we can ensure your shutter complements your building design.

Made from non-toxic grade polycarbonate, they are virtually unbreakable, resistant to scratches and easy to maintain.



UNBREAKABLE

Polycarbonate has stronger material strength than steel with the same thickness. In addition, the panels are resistant to scratches and washable making them easy to maintain. Encased in a oval shaped reinforced hinge, our design surpasses regular polycarbonate shutters in its ability to withstand high impact loads and minimizes deflection.



BEAUTIFULLY CLEAR

We use the highest quality polycarbonate which is 100% clear with a very high degree of light transmission, making it a great avenue for window shopping even after stores are closed. The panels are also UV treated to prevent yellowing over time.

Curtain Slat

3mm thick UV treated and non-toxic polycarbonate slats that are 100mm high and 330mm wide, are finished with rounded top and bottom profiles. These slats are inserted into top and bottom oval shaped hollow extruded aluminum alloy hinges that are 30mm high and 16mm wide with nylon end caps to lock axial movement. Reinforced ribs inside the hinges provide high impact strength and reduces the deflection of the panels far beyond most other contemporary designs. To create silent and greaseless operation, nylon belts are wrapped around the edges of the curtains.

Bottom Bar

The bottom bar is an 'L' shaped aluminum profile made from heavy duty extruded aluminum alloy that is 60mm high and 60mm wide. The bottom of the bar has dovetail grooves to receive the PVC weather-seal.

Guide rails

The standard guide rails are cold rolled using 3mm thick galvanized steel coil to a 'U' shaped profile. Sizes range from 60mm by 36mm for opening widths of less than 3.5m, and 90mm by 36mm for larger shutters. Optional heavy duty 3mm thick aluminum guide rails that are 75mm by 75mm can be provided with PVC weather strips as an option.

Heavy Duty Shutter Box

The heavy duty shutter box is fabricated using two 4mm—7mm thick steel end plates joined together using 5 cold rolled 25mm by 25mm steel hollow sections welded to form the box assembly. The Three sides of the box are covered with 0.8mm thick folded galvanized steel covers with the edges folded for rigidity. Medium duty shutter boxes come without the hollow sections and without the shutter box cover.

Heavy Duty Shutter Operator

A single phase, 230V, 50Hz, 13A OR a three phase, 415V, 50Hz, 20A fully enclosed motor with a built in gearbox is suitable selected based on the span and load of the shutter. A thermal protector and solenoid brake are used for motorized operation. An emergency close lever is provided at convenient height with a pull cord to close the shutter fast in the absence of power or a faulty motor. An endless manual operating chain can

be used for opening or closing the shutter.

Spring Type Shutter Box

Spring type shutter boxes are assembled with two or more polypropylene pulleys inserted over a steel pipe fitted over with two or more steel counter balance torsion springs according to the weight of the shutter slats.

Spring Type Shutter Operator

A suitable single . Dual 24V DC motor that is 230V, 13A, 50Hz input is used to power the shutter operation. Manual release cable is attached with a lever, which can be mounted at a convenient height on the interior side or exterior side for manual push up type operation. Option hand chain facility is available for larger shutters.

Push Button and Locks

A push button control with 'up', 'down' and 'stop' buttons is housed within a lockable push button box conforming to NEMA-2. The outer cover of the push button box is finished in stainless steel. For manual shutters, sliding levers that lock into the guide rails, are housed in the curvature of a solid slat at a desired height from the floor.

Finish

Natural anodized aluminum hinges OR powder coated to Ferco's standard non-metallic RAL colors.

Optional Devices

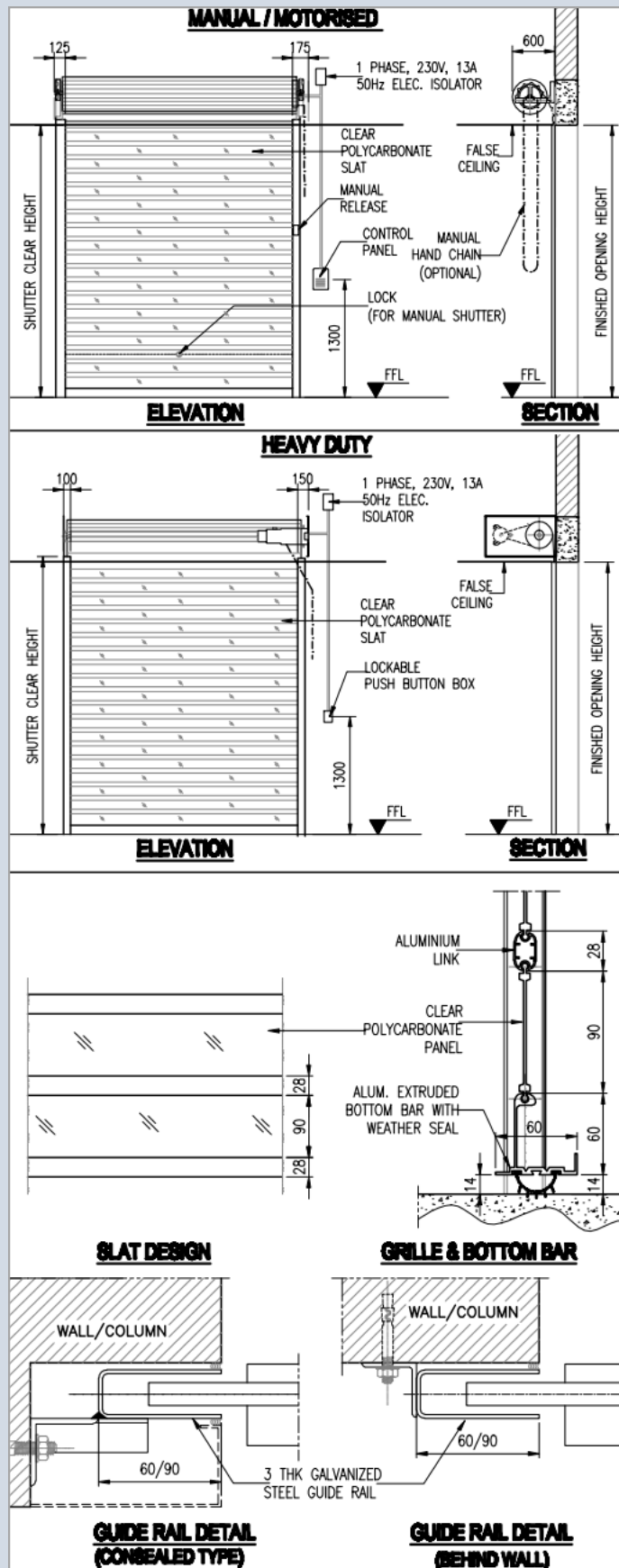
Safety edge

The safety edge is fitted to the base of the bottom bar and stops downward travel of the curtain when obstructed and automatically reverses the travel. Safety edges included an aluminum section fitted with an air tight EPDM rubber semi circular tube and pressure switches placed inside the tube. The moment the safety edge touches an obstruction, the pressure switch activates the logic control of the motor remotely without the need of cables, and reverses the direction of the motor.

Automatic programmable timers for opening and closing the shutters at preset times.

Remote control with two handheld transmitters.

Photo cell protection beams



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