

Operation

Vertical rolling shutter that can be manual or motorized and configured for heavy duty applications if desired.

Slats

Extruded aluminum slats are inserted into oval hinge profiles with reinforcing ribs that limit deflection and provides very high impact strength. Finished in natural anodized aluminum or powder coated to our standard colors.

Maximum Sizes

12000mm (w) x 8000mm (h)

ALUMINUM SHUTTERS

The Lightweight Champion

Aluminum shutters are a lightweight alternative to traditional steel shutters that provides enhanced corrosive protection against the elements. For instance, aluminum shutters are preferred in applications near the sea coast where salt and humidity could reduce the lifespan of steel shutters. With light weight and heavy duty configurations, these shutters are versatile and strong.



Aluminum slat with reinforced hinge provides high impact strength and limited deflection.



Heavy duty box guide with PVC weather strips that also enhance silent operation.



Bottom bar weather seal for added weather resistance can be provided.

LIGHT AND STRONG

Aluminum shutters are lighter than their steel counterparts without compromising on strength. Using our oval reinforced hinge design, these shutters can be adapted for use in heavy duty or light duty applications and operated with ease.

CORROSIVE RESISTANCE

Aluminum slats develop a layer of protective oxide that greatly increases its resistance to corroding elements, thus eliminating the need for a protective layer of paint. However, polyester powder-coating can be applied upon request. Contact us to know our standard RAL color range.

WEATHER RESISTANCE

With PVC weather seals on the bottom bars and optional PVC weather strips along the guides, these shutters can be adapted to provide great performance in harsh weather.

SPECIFICATION

Curtain Slat

Aluminum slats of pitch 98mm and 12mm wide are extruded from 1mm thick aluminum and 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. 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 OR powder coated to Ferco's standard non-metallic RAL colors.

Optional Devices

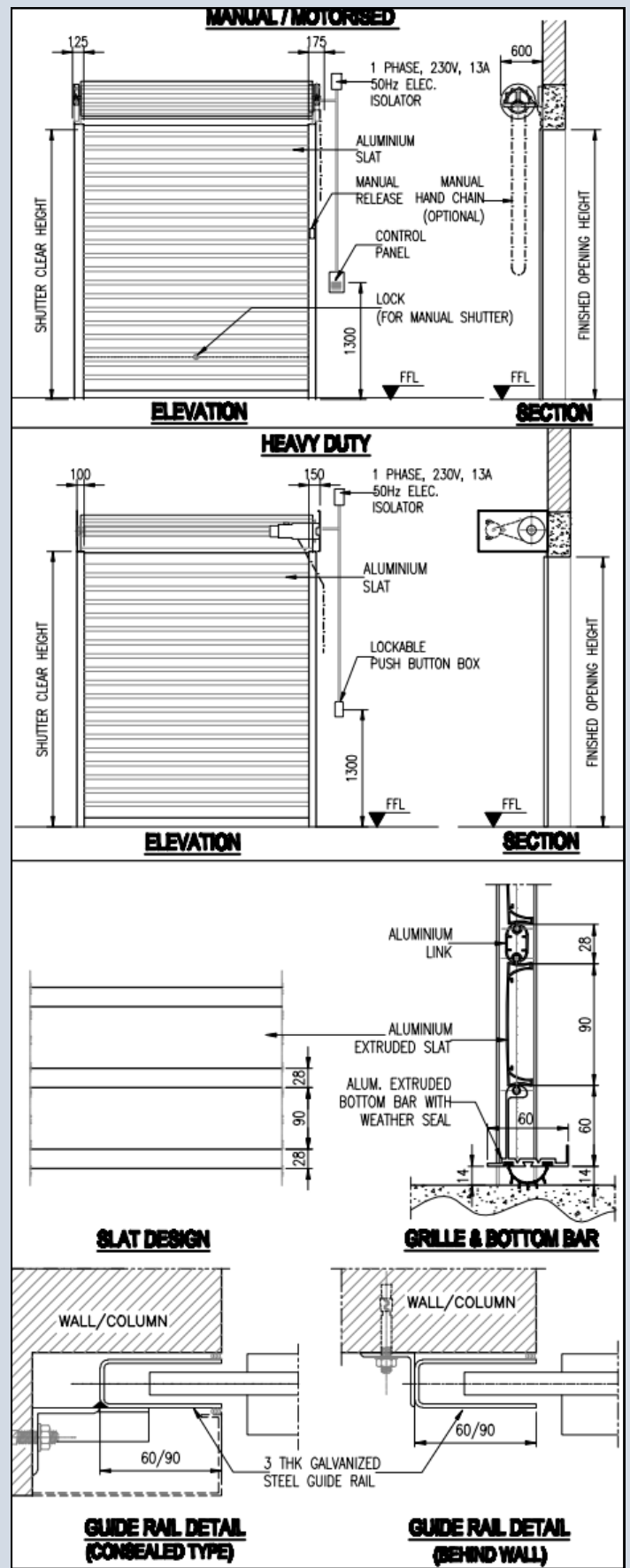
Safety edge

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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