

Operation

Motorized Heavy Duty Vertical Rolling Shutter

Heavy Duty Slats

Cold rolled from the highest grade, Galvanized Steel Slat, these heavy duty slats range from 0.8mm, 1.00mm & 1.2mm thickness

Maximum Size

12000mm (W) x 7000mm (Ht.)
Larger sizes can be attained on consultation.

HEAVY DUTY ROLLER SHUTTERS

The Heavy weight Champion

Heavy duty non-fire rated roller shutters are vertical rolling shutters constructed from interlocked Galvanized steel lath sections.

These shutters are more commonly used in warehouses, factories, industrial units and loading areas with large openings or strict demands for security.

They can be motorized operated and can be fitted with optional extras to provide additional wind and rain resistance where necessary.



Single skin heavy duty Galvanized Steel slats (0.8mm, 1.00mm & 1.2mm thickness and 75mm) are interlocked and can be provided with optional wind locks. Where ventilation is required, perforations can be punched into the slats with holes of dia 3mm or 5mm to suit the application.



An EPDM weather seal attached to the bottom bar can be provided for added **weather resistance** and acoustic dampening. A pneumatic safety edge can be fitted as an optional extra.



Made from industrial grade galvanized steel, the guide rails can be designed for **exposed** (left) or **concealed** (right) applications and are powder coated to finish.

LARGE INDUSTRIAL APPLICATION

Heavy gauge steel ensures high tensile strength with spans of up to 7000mm high and 12000m wide. Larger openings can be covered with a sliding mullion.

ROBUST SECURITY

Superior heavy gauge Galvanized steel laths are often used as security shutters, providing peace of mind and protection against unauthorized entry.

WEATHER RESISTANT

Optional seals on the bottom bar, guides and wind locks are provided for exposed applications and can ensure at least 10 to 15 years of rust free application.

Curtain Slat

The shutter curtain is made of 75mm pitch and 17mm wide superior single skin Galvanized steel slats, with thicknesses ranging from 0.8mm, 1.00 & 1.2mm. These slats are manufactured by a roll forming process and constructed of reinforced interlocking slat profiles. The edges of the slats are auto cut-off to (end)lock the axial movement of the interlocked curtains, providing maximum strength and integrity. For external applications, the shutters can withstand a 40 km/h wind speed, with wind locks as optional reinforcement.

Guide Rails

For exposed and face fixing applications, 'G' shaped guides made of heavy duty 75mm wide x 100mm deep x 3mm thick galvanized steel is used. For concealed guide application, 75mm wide x 75mm deep x 3mm thick 'U' shaped galvanized steel guides are used.

Bottom Bar

The leading slat is roll formed from Galvanized steel with a thickness equivalent to that of the slat. Two 38mm x 38mm x 4.5mm or 50mm x 50mm x 5mm thick galvanized steel angle bars are bolted to the leading slat to form the bottom bar. The bottom bar can be provided with a EPDM weather seal strip to provide required weather resistance.

Shutter Box

The shutter box is made out of two heavy duty steel end plates of thickness 4mm to 7mm according to the size of the shutter; joined together using five steel hollow sections of 50mm x 25mm, primer finished in black. Two 50mm x 50mm x 4.5mm thick steel angles with slotted fixing holes are welded with the end plates to fix the shutter box to the building structure.

Barrel

The barrel is made of a heavy duty seamless steel pipe, welded with axles of dia 35mm to dia 50mm according to the size of the shutter. This barrel is fixed to the right and left end plates with heavy duty sealed roller bearings.

Box Cover

The shutter box covers are made out of 0.8mm thick galvanized steel sheets, with the edges folded to provide rigidity.

Motor Operation

The motor is suitably sized with a fully enclosed design. The motor has a high starting torque, built-in gear box and a built-in thermal protector. The motor gearbox has a inbuilt centrifugal type speed governor that ensures safety in the event of a free fall. In case of power failure, an endless hand chain is provided for manual operation from the ground level. Adjustable limit switches are used to set the upper and lower limit for the travel of the curtain.

Push Button Control

Push button control with 'up', 'down' and 'stop' buttons are housed in a lockable push button box. The outer cover of the push button box is made of stainless steel. Weatherproof NEMA rated push button boxes can be provided as an option.

M & E Requirements

1 phase, 230V, 50Hz, 13A / 3 phase, 415V, 50Hz, 20A power supply at shutter box location.

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.

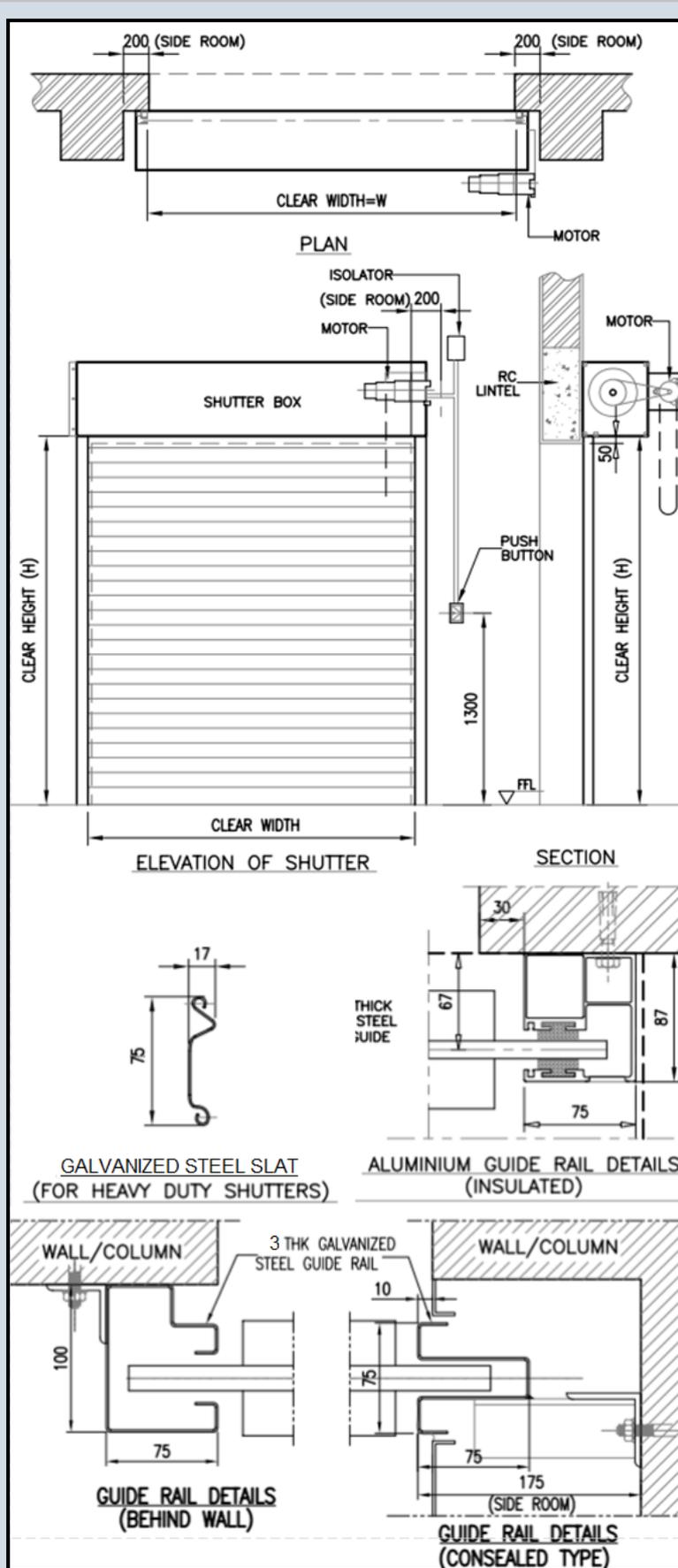
Remote controls

Wind locks to provide additional stability in high wind exposed applications

Bottom bar weather seal

Heavy duty aluminum box guide with brush seals that also provide a degree of acoustic insulation

Removable sliding mullion for applications exceeding stated maximum widths.



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INDIA

S.No. 8/1A2B, 8/2A2,
Industrial Shed, Parivakkam Road,
Senneerkuppam, Poonamalle,
Chennai - 600 056
Tamil Nadu, India
salesindia@fercoshutters.com

DUBAI

Plot 247-125 Shed 1 & 2
Al Qusais, Industrial Area 4
P.O. Box 233962 Dubai UAE
Tel: +971 (04) 258 6433
Fax: +971 (04) 258 6533

SINGAPORE

120 Hillview Avenue,
#02-04 Kewalram Hillview,
Singapore 669594
Tel: +65 6760 8383
Fax: +65 6760 7503