

Insulated Fire Roller Shutter

Tested At SIRIM Complied with MS 1073: Part 3: 1996 & Approved by BOMBA



120 mins integrity
120 mins insulation

Designed for everyday use

Maximum Size: W12000 x H6000/W10000 x H7500

Model: IFS-4G-M-120

STAR ROLLING® Gliderol Insulated Fire Shutter

In the event of a fire, standard non-insulated fire shutters can become dangerously hot, potentially igniting nearby combustible materials and causing the fire to escalate. Insulated Fire Shutters (IFS) provide the solution to this problem.

Designed with advanced insulation, they prevent the spread of flames by containing radiated heat. Meeting fire code requirements, these shutters are essential for buildings with flammable materials. By effectively stopping the spread of fire through radiated heat, IFS ensures enhanced safety and compliance.

The STAR ROLLING Gliderol IFS-4G offers the following features:-

- ✓ Steel curtain design, simple and space-saving
- ✓ Steel slats on both exposed curtain surfaces provide fire insulation against fire attacks from any direction
- ✓ Robust and impact resistant - can function as a security shutter
- ✓ Suitable as an external shutter, weather-resistant design with PVC bottom weather seal
- ✓ Durable – built for daily usage
- ✓ Rigid curtain – can accommodate air pressure differentials generated by mechanical vents
- ✓ Self-supporting design – steel guide posts transfer most of the shutter weight to the floor
- ✓ Can be configured to close within 30 sec or 60 sec where required fully



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Technical Data Sheet (Model: IFS-4G-M-120)

DRUM ASSEMBLY

The barrel assembly consists of an extremely rigid steel tube sheathed over a pair of drive shaft assemblies fitted to heavy duty bearing sets and supported at both ends by steel head plates. The drive shaft is a solid polished steel round bar incorporating key ways to accept the drive sprocket. Corresponding to the size of the shutter, the head plates are either 6mm or 8mm thick with shafts of either 38mm or 50mm diameter.

The entire drum assembly is enclosed by a housing consisting of 1.0mm thk galvanized steel sheet cladding secured over an insulation layer of fire boards.

The IFS-4G incorporates a self-supporting structure in the form of a 'goal-post' made up of steel 'C' channels. The entire shutter box and barrel assembly rests on this structure, thereby transferring the bulk of the weight to the floor. The head plate is then anchored to the wall to secure the shutter vertically.

DOOR OPERATION

Motor Drive

The drive unit consists of a suitably-sized linear drive motor operator mounted parallel to and behind the door roll. It has an integrated gearbox and a chain operated sheave wheel for manual operation in case of power failure. The control box is lockable, housing a set of push buttons for 'Up', 'Down' and 'Stop' operations. The door operation shall automatically stop at the desired upper and lower limits via adjustable limit switches.

For safety reasons, the 'DOWN' button shall require the operator to push and hold when closing the shutter. This is to ensure the closing operation is being supervised. Upon sighting an obstruction, the operator will automatically release the push button by reflex. This action will instantly stop the downward travel of the shutter and prevent accidents.

Power supply requirement: 1-Phase 230V (20 Amp) or 3-Phase 415V (20Amp) with isolator to be provided for each motor.

DOOR CURTAIN

The shutter curtain is formed by a single layer of steel interlocking cavity slats spanning the entire width of the door opening.

Door Curtain Material

Slats

Each slat consists of a continuous length of an inner and an outer steel profile. They are connected back-to-back by modular stud brackets without the use of any exposed fasteners. This unique design secures the two profiles together while keeping them thermally separated. The voids between the two profiles are filled with insulation material to form a dense core.

End Clips

Custom-shaped steel end-clips are secured to the ends of the slat to prevent lateral movements.

Bottom rail

The bottom rail is formed by 2 lengths of 50mm x 50mm x 2.0mm thick steel angles secured back-to-back through a medium of fire boards. A PVC weather seal covers over the fire boards and seals against the floor when the shutter is fully closed.

DOOR GUIDES

The door guides are a pair of modules formed by fire boards built around the steel 'C' channel vertical guide posts. The back of the guide module is finished with galvanized steel cladding.

Fire Activation Modes

The motor operator has a versatile control adaptability that can enable it to respond to a wide range of activation modes, including Fire Alarm signal, smoke or heat detectors, fusible links etc.

In certain situations, a fail-safe operating configuration may be required. This is available as an option.

