



GLIDEROL

LOUVRED SHUTTERS

GLIDEROL Louvred Aluminium Roller Shutters incorporate a unique mechanism to open the louvre blades upon closing to the floor, allowing for air ventilation without compromising security, and maintaining privacy.

Louvred Roller Shutter blades can be in Natural Anodised, Powder Coated, or Fluorocarbon finish.



Design Features:

In the door opening sequence, the blades will retract to allow the curtain to roll up onto the barrel. In the closing sequence, the blades will remain retracted until the door reaches the fully closed position when they will automatically pivot to form a louvred barrier. In this position, the door curtain will self-lock and cannot be force-lifted

Patent Information: This unique rolled-up louvred door design was granted patents in many countries, including **US Patent no. 7,770,623 B2.**

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TECHNICAL DATA

DRUM ASSEMBLY

Barrel - The barrel assembly shall be suitably-sized 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 shall be a solid polished-steel round bar incorporating key ways to accept the drive sprocket. Depending on the size of the shutter, the head plates shall be 6mm or 8mm thk and the shafts shall be 38mm or 50mm diameter.

Safety Fall Arrester - Provide a fail-safe mechanical fall arrester device at the drive shaft that will automatically prevent the door curtain from free-falling should there be a gearbox failure or a decoupling of the barrel from the motor operator.

DOOR CURTAIN

The door curtain is made of a series of proprietary-designed 1.2mm thk extruded aluminium louvre blades connected horizontally by hinging links that are spaced at approximately 500mm apart.

Bottom Rail

The bottom rail shall be a full-length extruded aluminium box section that is splayed at the front to match the louvre blades. The profile has slots at the base to retain a seamless PVC weather seal.

Door Guides

The guide channels shall be an extruded aluminium channel of overall dimensions 98mm x 62mm x 2mm thick. It shall have slots at the lips to retain a seamless rubber strip for smoother and quieter operation.

DOOR OPERATION

Drive Unit

The drive unit shall consist of a suitably-sized linear drive motor operator mounted parallel to and behind the door roll. It shall have an integrated gearbox and a chain-operated sheave wheel for manual operation in case of power failure.

Control Box

The control box shall be 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 will instantly stop the downward travel of the shutter and prevent accidents.

Power Requirement

Power supply shall be either Single Phase 230V x 15amp or 3phase 415V x 20amp.

