

NBS Specification

Gilgen Rolegard Industrial Steel Roller Shutter Door

Gilgen industrial heavy duty steel vertical rolling shutter doors are designed for industrial and commercial applications and are suitable for both internal and external functions.

The Rolegard is a power operated single-skinned steel shutter consisting of concave, solid or perforated profiles. Offers good security, wind resistance or ventilation qualities and improved visual contact. The product is specifically designed for low to medium vehicle flow solutions.

The doors comply with BS EN 12604 and BS EN 12453.

- **Manufacturer:** Gilgen Door Systems Ltd
- **Product Reference:** Rolegard Industrial Steel Shutter
- **Size:** Width 8000mm (max)
Height 7000mm (max)
- **Arrangement:** Face fixed
Reveal fixed
- **Curtain:** Perforated
Solid
- **Finish/Colour:**
 - Plastisol coating (accent)/RAL - Sargasso
 - Plastisol coating (accent)/04E53 – Poppy red
 - Plastisol coating (accent)/10E55 – Aztec yellow
 - Plastisol coating (masterline)/RAL6002 – Heritage Green
 - Plastisol coating (masterline)/00E53 - Black
 - Plastisol coating (masterline)00E55 – White
 - Plastisol coating (masterline)/04C39 - Terracotta
 - Plastisol coating (masterline)/08B29 – Van Dyke Brown
 - Plastisol coating (masterline)/10A05 – Goosewing Grey
 - Plastisol coating (masterline)10B19 - Mushroom
 - Plastisol coating (masterline)/12B21 – Moorland Green
 - Plastisol coating (masterline)/12B21 – Olive Green
 - Plastisol coating (masterline)/18B25 – Merlin Grey
 - Plastisol coating (masterline)/18C39 – Ocean Blue
 - Plastisol coating (masterline)/18E53 – Solent Blue
 - Polyester powder coating/BS4800
 - Polyester powder coating/RAL
 - Manufacturers standard
- **Frame/Guides:** 2.6 > 3mm thick galvanised steel side guides, complete with – articulated windlock
6 > 10mm thick mild steel BZP steel end plate anchor brackets
- **Operation:** Pre-wired motor unit
Manufacturers standard
- **Control:** Manufacturers standard for pre-wired motor unit
Manufacturers standard

- Safety: Standard
Contact safety edge
None contact safety beam
- Activation: Digipad
Infrared vehicle/person detection scanner
Key switch
Lockable push button
Remote push button
Remote radio control
- Securing: Not required
Horizontal shoot bolts
PIN locks
Manufacturers standard
- Accessories: Not required
Raking bottom rail
Removable three sided motor cover
Three sided hood
Wicket door

Guidance

As standard

Features

Manufactured from traditional 75mm interlocking concave lath curtain (gauged according to size), galvanised steel bottom rail, side guides, mild steel primed endplates and barrel assembly. On large doors, wind endlocks are fitted to prevent excessive deflection and curtain retention.

Operation

Electric with a 'direct drive' motor system c/w an 'integral safety bearing' system. Mounted external to the shutter barrel assembly and head box (where applicable) c/w electro-mechanical distance limit switches and emergency manual hand chain override system, operable from ground level.

Wind pressure to BS EN 12424

Class 2 - doors to achieve higher wind classes are available on request.

Fire performance to DIN 4102

Class A2 - door section element materials are non-flammable.

Static load (weight of whole door assembly):

30 kgs/m².

Performance:

- Environmental Ingress protection level (motor & control): IP54.
- Motor drive duty rating: Class S3 – 60%.

Options

Size (maximum 48 m²)

Note larger area's can be supplied for internal applications were security and wind resistance levels can be agreed.

- Width (maximum): 8000 mm.
- Height (maximum): 7000 mm.

Thickness

The thickness of the main curtain lath sections varies to suit the shutter size and also project specific wind resistance requirements. Optional perforated lath profile (6500 mm maximum shutter width), can be supplied for ventilation (up to 23% maximum air flow), or thro vision requirements.

Finish

The main exposed metal work structure and optional casings are mainly a galvanised self finish as standard, but optional polyester powder coat finish can be supplied to the whole or part of the door assemblies and the main curtain lath profiles and optional head casings can also be supplied with a range of HP200 Plastisol finishes to the external face. Special stainless steel materials can be supplied.

- Standard: Self-coloured - Hot dipped zinc coated steel type G275 coating, grade Z2 bending & profiling quality.
- Optional colour (for polyester powder coated finish): Many RAL or BS 4800 none metallic ranges are available as standard. Other colours can be provided.
- Optional colour (for external Plastisol range – max door size 5000 wide x 5000 mm height): See drop-down list.
- Other colours are available for large sized shutters, but may be subject to a minimum rolling quantity.

Operation

- Standard: Electric operation with a 'direct drive' motor system c/w an 'integral safety bearing' system.
- Optional: A 'pre-wired' motor unit which requires an isolator to be positioned at high level, within 2 m of the door on the motor side.

Digital distance limits , based on absolute encoder technology are available to allow low level set up and maintenance for increased accuracy

Control

A comprehensive range of vehicle detectors, hand transmitters, receiver units, push-button controls, key switches, safety edges, photocells, signal lights and digital control units are also available as alternatives or in addition to the standard control units.

Safety activation

The range of safety systems are available

- Manufacturers standard - Push button / key switch – impulse / deadman operation
- Remote control doors - Minimum requirements, impact sensitive safety edge or additional secondary none contact safety beam.

Securing

Horizontal shoot bolts (prepared to accept customers own padlock) fitted on to the bottom edge of the main shutter curtain. PIN locks c/w key operated removable cylinders mounted onto the vertical guide sections and complete with track mounted electrical interlock switch (for shoot bolts) or a lock Isolation box, wall mounted (for PIN locks).

Accessories

- Three sided hood with chamfered corners (to cover the head of the rolling shutter).
- Removable three sided motor cover (to cover the exposed part of the drive motor, outside of the three sided hood profile).
- Raking bottom rail (sloping thresholds). Purpose made sections can be supplied to accommodate sloping thresholds, however it should be noted that the amount of slope, would increase the total amount of head room required for the shutter when in the fully open position.
- Wicket door (inset pass door). Max recommended door size is 5000 mm width Gilgen can provide this optional equipment if required, however it is recommend as best practice, the use an independent

- personnel door if possible. The addition of an internal pass door will reduce the strength of the shutter against wind loads - no performance determined.
- Standard neoprene bottom seal for application when a safety edge is not required but a bottom edge seal is needed. Applications which require a more substantial seal against water ingress we would recommend a suitably designed structural threshold arrangement – please contact Gilgen for advice.