

NBS Specification

Gilgen Sectional Overhead Doors

Suited to a wide range of applications. Suitable for new build projects as well as in refurbishment situations. Key features include; energy efficient, maximizes available opening space, range of finishes and glazing options, safe operation, secure, effective automation; a variety of systems are available.

Standard details for Gilgen Sectional Overhead Doors:

- **Manufacturer:** Gilgen Door Systems Ltd
- **Product Reference:** Sectional Overhead Doors
- **Arrangement:** Face fixed
- **Track System:** Standard lift (SL)
Low headroom (LHR)
Full vertical lift (FVL)
- **Door Panel:** Galvanised steel inner and outer face infilled with high - Density polyurethane foam
- **Internal sheet finish:** Stucco embossed polyester enamel - standard
Plastisol - Optional
Stucco embossed Pvf2 - Optional
Factory painted finish – Optional
- **Colour:** From guidance schedule
- **External sheet finish:** Stucco embossed polyester enamel - standard
Plastisol - Optional
Stucco embossed Pvf2 - Optional
Factory painted finish – Optional
- **Operation:** Manual hand operation
Manual hand chain operation
Electrical operation with emergency hand chain
- **Ironmongery:** Spring-loaded shootbolt – standard
External lock – Optional
- **Control:** Radar
Vehicle sensing loops
Photo-cell activation and obstruction detection
Remote control
External push button/key switch
Pendant pull rope
Card reader
Timed return with safety edge
- **Other Requirements:** Double glazed acrylic windows
Pass door

Guidance

As standard

Track Arrangements

The alternatives allow for most openings and rooflines to be accommodated.

Standard Lift (SL)

- For headroom between 500 mm to 700 mm.
- Low Headroom (LHR):
- For restricted headroom, typically 280 mm.
- High Lift (HL):
- For use in high roofed buildings or installations where additional clear height under the rear tracks is required.
- Full Vertical Lift (FVL):
- For use in high roofed buildings where height permits. Minimal intrusion into the building interior. Springs can be installed at low level for ease of access.

Construction

Door leaf

- Internal and external steel skins featuring a ribbed pattern, with a PVC thermal break.
- CFC-free polyurethane insulated foam injected core.
- Integral seals at the joints.
- 'U' value of 0.45W/m² °C.
- Height of individual panels 600 mm.

Hardware

- Galvanised steel hardware (hinges, tracks and roller holders) with nylon track rollers.

Seals

- Supplied as standard to the head, sidetracks, threshold and between each insulated panel.
- A flexible threshold seal is provided as standard to restrict water on a level threshold.
- If water penetration is an important factor on a particular application, then a purpose designed structural threshold is recommended.

Finish

Standard

- Internal – Stucco embossed polyester enamel, White (RAL9010).
- External – Stucco embossed polyester enamel color range:
- Sunset Red RAL3000, Silver RAL9006, Gentian Blue RAL5010, White RAL9002, Sepia Brown RAL8014, Bone White RAL9002, Anthracite RAL7016, Fir Green RAL6009, Grey Aluminum RAL 9007

Plastisol

- Albatross BS18B17, Goosewing Grey BS10A05, Leaf Green RAL6002, Merlin Grey BS18B25, Khaki BS12B21, Mushroom BS10B19, Azure Blue BS18C39, Olive Green BS12B27, Sapphire RAL5003, Vandyke Brown BS08B29, Wedgewood BS18C37, White BS00E55, Sunflower BS10E55, Flame Red BS04E53, Cornflower Blue BS18E53.
- Also available:
- Factory painted finish, most BS and RAL colours.

Operation

Manual hand operation:

Push up to open, pull down to close via pull cord provided. Ideal for small openings and infrequent use.

- Manual hand chain operation:
- Open and close using a geared hand chain arrangement for medium use applications.

- Electrical operation with emergency hand chain:
- Open and close using push internal buttons (standard) or optional activation. In the event of a power failure the operator allows for easy manual operation with the emergency hand chain drive, operable from low level.
- The door cannot be electrically operated whilst in the manual operation mode.
- Three phase (415 volts) and single phase (240 volts) operators with a range of control options are available.

Dimensions:

Depending on track configuration, doors up to 8000 mm wide and 5000 mm high, with a maximum 40 m² are available as standard.

Manual hand operated:

- Doors up to 3000 mm high and 9 m².

Manual hand chain operated:

- Recommended maximum 40 m².

Electrically operated.

- Full range available up to maximum sizes.

Features:

Spring assisted lift:

- The counter balance system is designed to achieve optimum balance with a guaranteed minimum of 20,000 operation cycles.

Safety

- Cable and spring safety devices are fitted if required, safely arresting the door should breakage occur.
- Push buttons on electrically operated doors are factory set to operate on "push to run" mode (dead man) unless optional safety beams or safety bottom edges are fitted.

Security:

- A spring-loaded shootbolt operable from the inside only is provided on all doors.
- A lock providing access from the outside can be fitted.
- To comply with CE regulations and to protect the drive system a safety cut out switch is incorporated on all electrically operated doors.
- To comply with CE regulations a min class 2 impact sensitive Infra red safety edge system is supplied on the moving bottom edge of the bottom door panel on all electrically operated doors

Automation and control:

The range of control options is versatile enough to meet most requirements.

Obstruction detectors, auto reverse and other safety features ensure safe operation, control and activation.

- Radar.
- Vehicle sensing induction loops.
- Photo cell activation and obstruction detection.
- Remote control.
- External push button/ key switch.
- Pendant pull rope.
- Card reader.
- Timed return with safety edge.

Options

Glazing options:

- Double glazed acrylic windows to aid visibility are available in various designs (specify number of vision panels & number of rows)
- Security bars can be added for enhanced security.
- A fully glazed version is also available - please contact Kaba for further details.

Pass doors:

- Pass doors can be fitted dependant on size and application.
- For safety, pass doors are only recommended if a separate personnel door can not be installed.
- If the door is automated, an interlock must be fitted to prevent main door operation when the pass door has been left open.
- Pass doors reduce the ability of the main door to resist high winds.
- Outside locking is available as an extra.