



Bolton Gate Company

INSULATED ROLLING SHUTTER

Thermally Insulating and Sound Reducing
Roller Shutter

Data Sheet ref. Thermal 1

January 24



INSULATED ROLLING SHUTTER SPECIFICATION SUMMARY

Bolton Gate Company's Insulated Rolling Shutter offers the benefit of a multipurpose solution when there is a requirements for sound or thermal insulation, high security or even weather resistance. The combined attributes can easily assist in compliance with the environment demands that are increasing relevant today.

A wide range of options including drive systems, operating controls and also various finishes effectively allow our Clients to specify a bespoke, high quality, yet cost effective solution to sit their needs.

The Insulated Rolling Shutters doors have been used extensively on projects both in the UK and worldwide where their integral strength and robust design assures continued reliability and trouble free operation and optimum design life.

Applications include:

The Insulated Door system is perfectly suited for a wide range of applications such as Loading Bay doors ; Factory entrances; Boiler and Turbine Halls; Recording or TV Studios but also, due to its aesthetic appearance, it is equally suited for office entrances or storage areas or even domestic garage doors.

Performance Characteristics:

Resistance to Wind Load – Class 5

Thermal Resistance – $1.1W/(m^2K)$ at centre / $3.2W/(m^2K)$ at quirks

Sound Reduction – 18dB Rw (BS EN ISO 10140-2:2010 – Measurements of Airborne Sound Insulation)

Key Attributes:

High wind load capability

Provides both thermal and acoustic insulation.

Bespoke construction ensuring its suitability for a wide range of applications.

The assurance of quality British manufacture.



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Operation

Tubular Motor

- To suit 230-volt nominal, 1 phase supply.
- External safety brake.
- Low level keyswitch

Direct Drive Motor

- To suit 400-volt nominal, 3 phase supply
- Integrated safety brake.
- Open, close, stop push buttons within low level control panel

Manual overrides are provided for use in event of power failure.

Curtain

The shutter curtain is constructed using continuously interlocked 95mm deep galvanised steel foam bonded insulated laths secured by endlocks.

Bottom Rail

An extruded aluminium bottom rail is provided complete with rubber weather seal.

Side Guides

Vertical side guides are formed from rolled galvanised steel in a double rebate profile and fitted with twin brush strips. Full height angles are provided for mounting the structure.

Roller

The roller is constructed from seamless steel tube of adequate diameter to resist deflection and held in bearings attached to the endplates.

Endplates

Formed using prime painted mild steel of thickness to suit the respective opening size.

Casings

A galvanised steel coil casing and motor casing are provided as standard to close off the operating mechanism and complete the aesthetic appearance of the door. On the tubular motor system, the coil casing is a more compact chamfered design.

Finish

Galvanised steel is the default finish but please refer to Options below for alternatives.

Maximum Sizes

Tubular Motor option: 6m wide x 3m high
Direct Drive option: 10m wide x 10m high
(Please contact our sales team there is a requirement beyond these dimensions)

Weight

Varies with opening size dependent on lath/barrel/casing requirements but approximately 45kgs/m².

Options

- Polyester powder coat finish.
- Plastisol finish to curtain, remaining components with a polyester powder coat finish.
- Grade 304 or 316 stainless steel.
- Double glazed vision panels.
- Additional electrical controls e.g.: -
 - Keyswitches
 - Radio controls
 - Radar / loop detectors / photocells.
 - Timer closing.

To specify this product please state:

Insulated Roller Shutter shall be by Bolton Gate Company Ltd, Waterloo Street, Bolton BL1 2SP, UK

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