DATA SHEET 102

SPEEDOR MINI Mk2

Standard Speedor Mini

with vision panel and mill finish aluminium guides

Speedor Mini is a high speed energy saving Industrial door, designed for frequent use in high traffic situations. Speedor Mini is used predominately as an internal door for openings of up to 4m x 4m. Capable of many thousands of operations every week for year after year. Speedor Mini's design and construction are commensurate with this high level of duty. Speedor Mini does not have a tension system and therefore is used primarily for internal door openings however fitment of curtain braces will allow the door to operate on openings with low exposure to wind pressure.

HART DOOR SYSTEMS

Redburn Road, Westerhope Industrial Estate, Newcastle upon Tyne, NE5 1PJ, UK.

T: +44 (0) 191 214 0404, F: +44 (0) 191 271 1611

Standards:
Manufactured to ISO 9001:2015 standard. The machinery directive safety in use of power operated doors, BSEN 12453 & 12444 and safety devices for power operated doors BSEN 12978. Requirements for the safe installation and use BSEN 12625.

Operation:
System operators are used to open the door, they include induction floor loops, photo cells, radar, hand held or vehicle mounted radio transmitters, press buttons or pull cords. Any of these operators can be used individually or in parallel. They can be used to exclude pedestrians, be a security barrier or open for all. System operators are demonstrated diagrammatically on the Speedor literature. Please Note: Major benefits come with full automatic door by providing efficient throughput of vehicles and staff whilst giving major energy savings and environmental improvements.

Installation:
Hart will do it all, whatever you require, we will work with your contractor or undertake the entire preparation, specialist bracketry and installation, including electrical work. All works will be completed to ISO 9002. which includes IEE regulations.

Wind Resistance:
Is minimal and therefore the door is suitable for internal openings or openings with low exposure to wind. Should low wind speeds be present around the opening, optional curtain braces can be fitted.

Break-away bottom rail:
A break-away impact will release sacrificial nylon allowing replacement and reset.

Fabric:
Is multilayer PVC and textile which combine to ensure strength, tear resistance and long life. The door blade is high frequency welded horizontally in sections of approximately 1.5M. Standard colour is yellow with other colours available.

Vision Panel:
Optional 700mm high vision panel across the full width of the door, or all clear fabric.

Door drive and speeds:
The highly rated direct shaft drive right angle geared electric motor provides a variable speed of 1.5 meter per second to open and .4m/sec to close. Other speeds are available on request.

Draught Seals:
An optional deep brush seal is mounted across the head of the door above the clear opening. A Rubber seal is fitted to the bottom rail to accommodate floor deviations.

Size Availability:
All doors are made to measure to specific requirements. 4M wide and 4M high are the normal maximums. For larger doors or windy external locations look at Speedor Super or Speedor Storm doors.

Metal Hoods Covers and Infill's:
A combined motor and barrel hood/canopy can be specified. Available in galvanised sheet or coated steel. Infill panels and flashings as required.

Control Panel:
The Speedor control panel has been designed to provide for all conceivable options required for automatic door operations and interface with vehicles, specialist equipment including conveyors. The control box is steel fabricated and painted RAL 1021, IP54, lever lockable and complete with panel lid mounted isolator and membrane push button. Box is 300 wide 450 high and 135 deep. The inverter drive is 1.5Kw capable of operating the door system providing ramp start & stop and variable drive speeds. The panel is EMC tested and compliant with 89/336/EWG/ 91/263/EWG 92/031/EWG 93/068/EWG, low voltage 72/023/EWG 93/068/EWGThe relevant standards are EN 50081-1/03.93 & EN 50081-2/03.94 & EN 61000-6-2/2001 EN60335-1/2003 type tested to EN12453/2001 EN12445/2001 EN12978/2003. Diagnostic display, panel mounted emergency stop, volt free outputs for control and position indication. Generally all to latest IEE & EEC regulations. See data sheet 111 for complete specification. Low or single speed option control panels are also available.

Safety Systems and HSE requirements:
Standard: The standard door system includes a pressure sensitive edge on the leading edge of the door, which will stop and reverse the door to the fully open position if contacted. This system is complemented with a safety photocell which is mounted within the door frame 875mm from finished floor level.

Up-Grade option: -The light curtain safety system upgrade uses category E safety light curtain within an IP67 enclosure which protects the required area under the door system to conform to BSEN12453:2001 and ensures a contactless safety system.

Good Practice: - we recommend that forward warning Good practise photocells fitted between 600mm and 750mm in advance of the door are fitted to both sides of the door to act as further safety if pedestrians are to use the doorway. Further options include traffic or warning lights, Klaxons, presence or movement detection systems. This will provide a non-contact safety system in most cases.

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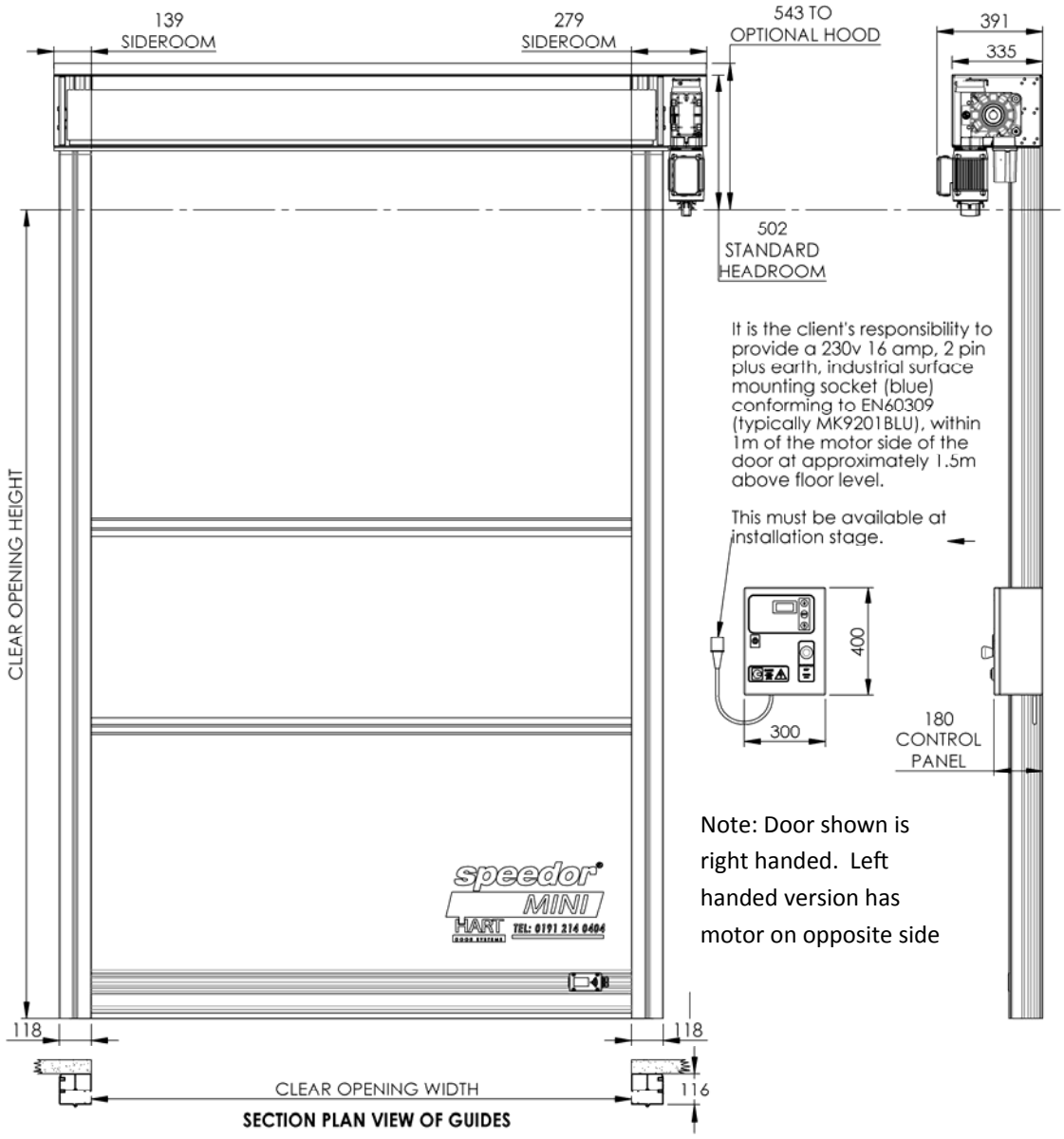
Special Environments:
IP65 Protection
Protection against moisture
Water and Dust
Heated Control Panels
Heated Motor
Insulated Hoods

Side Guides:
Easy fit side guides constructed from twin aluminium extrusions to form a universal guide section. The guide section also contains a separate cable duct to allow cables to be retained neatly within the frame design. Plastic profiles on either side of the guide channel are fitted as standard with further optional brush seals. The guide assembly will also accept fixings for external brackets used for door safety systems or operators. Standard finish is mill aluminium with optional powder coating available.

Typical General layout drawing



Note: Door shown is right handed. Left handed version has motor on opposite side

Optional Items

- Clear Vision Panel
- Barrel and Motor Cover for external applications
- Safety Light curtain
- Traffic Lights
- Battery back up
- Audible warnings
- Part open facility
- Low level hand chain
- Airlock facility with other doors
- Atex rated
- IP65 Specifications
- Open in case of fire without power supply
- Alarm if door left open after set amount of time.


Push Button


Induction Loop


Photocells


Heavy Duty Bollards


Movement Sensors


Pull Cords


Radio activated


Height Restrictors

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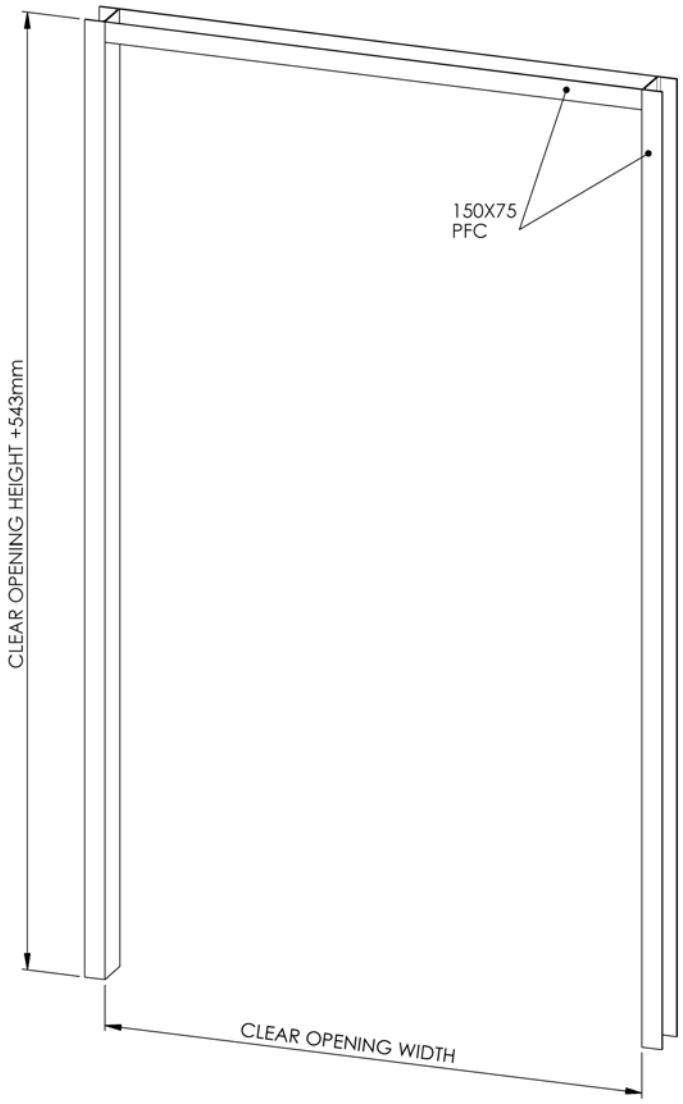
Typical General layout drawing of steelwork requirements



Power Requirements

It is the clients responsibility to provide a 230 volt 16 amp, 2 pin plus earth industrial surface mounting socket (Blue), conforming to EN 60309 (typically MK 9201 BLU), within 1 meter of the motor side of the door at approx. 1.5m from floor level.

Features, Appearance and Performance

Door sizes	Up to 4m x 4m
Door applications	Cleanroom applications. Pharmaceutical production, Food manufacturing, Medical/Biotechnology production, Electronics/Semiconductor production, Aerospace/Automotive production and Chemical/ Environmental Analysis
Safety options	Optional extras include, optical touch sensitive safety bottom edge, safety photocells and light curtains
Curtain options	Clear vision panels, logo / images on curtain.

Hoods	Combined Barrel/motor hood optional. Powder coat / galvanised finish
Break away options	A break-away impact will release sacrificial nylon allowing replacement and reset.
Door speeds	Variable speed of 1.5m per second opening speed and .4 m/sec closing speed.

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