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STAR 250 – Counterbalanced High Speed Roll-up Doors

Overview

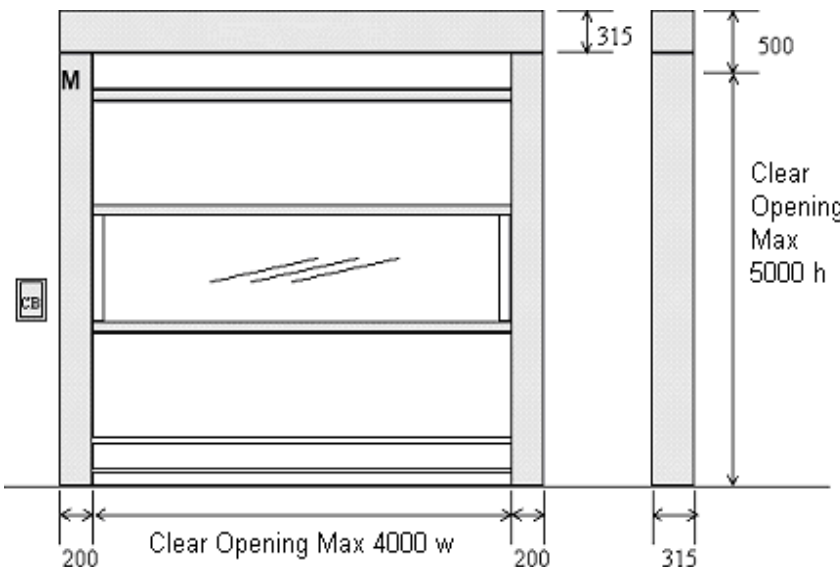
The STAR 250 boasts removable uprights, canopy, and roller, for inspection, replacement and general cleaning.

Furthermore, with the counterbalance as standard, this door offers the automatic emergency opening facility.

Curtains in this range can also be manufactured from a special rigid composite fabric or fully transparent.

The Star 250, with its compact structure (internal motor), high-speed performance and wide range of optional features, is the ideal door for rapid transit areas.

Its design also makes it particularly suited to installation within structural openings.



- **Star 250 Range Standard Package includes:**
- Self-supporting Galvanised Structure with Hood and Motor Cover
- Motor located internally within overall structure
- Removable uprights, canopy, and roller
- Interchangeable Curtain Panel Sections
- One Full Vision Section
- Automatic Emergency Opening
- Standard Control Panel IP55 (Up Button & Red Stop/Emergency Button)
- Wind Load (New Regulation) UNI EN 12424 CLASS 1 (External Rating)
- Two pairs of Transmitter/Receiver type Safety Photocells. (IP55)
- Electro-Optical Bottom Safety Edge
- New Wiring Installation Kit (Conduit & Cable)
- **Star Range – CAN FURTHER OFFER:**
- Internal Control Panel (All controls on Door Structure)
- Fully Transparent Curtain up to 3m x 3m (Larger size possible)
- Door to FDA regulations for food storage/processing applications



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Technical Specification

Self-supporting structure

Made from special galvanised steel sections, with removable uprights, canopy and roller for easy inspection. Designed to fit either within structural opening or face-fixed. Full width canopy and motor cover as standard.

Optional - Structure made from AISI 304 stainless steel or RAL painted.

Drive shaft

Made from tubular galvanised steel, diameter 152 mm, flanged. Rotates on bench supports with self-aligning ball bearings

Motor assembly

Fitted inside the structure. Three-phase self-braking assembly powered by 220/380 V, with power rating of 0.6 kW. Comes with safety heat detector. Electromagnetic lock brake. Irreversible gear-motor, worm screw type. Cam limit-switch assembly.

Opening/closing speed

Up to 1.0 m/sec.

Curtain

Made from trevira-type twin-moulded polyester fabric, self-extinguishing Class 2 central section. Door panels are interchangeable for rapid, easy replacement operations in the event of damage. The panels are connected by anodised extruded aluminium joints. Curtains available in a selection of colours.

Optional Fully transparent PVC curtain (up to 3 x 3). **Optional** – 3mm Insulated Curtain. **Optional** - Special rigid composite fabric.

Vision Panels

One transparent PVC section (750 mm high) for safety and interior lighting.

Optional Additional transparent PVC sections. Optional Completely transparent version.

Wind strengthening bars/Wind Resistance

Made from shaped anodised aluminium. Rated - Wind Load UNI EN 12424 Class 1 (External Rating), equates circa 60 km/h. Optional upgrade available. Wind Class indicated on CE plate, as now required by New Regulations.

Sliding mechanism

Ultra-silent sliding mechanism, featuring lateral guides with twin rubber seal guides.

Emergency opening

In the event of power failure or malfunction, a counterbalance spring inserted in one of the vertical uprights, allows lifting of the door by operation of the brake release control which is on the door upright at user-height.

Optional Automatic Emergency/Panic Opening (Patented)

In the event of power failure, the door can either lift automatically or by means of a control at user height. The exclusive design features of this system allow it to be integrated into central security (e.g. fire prevention) systems.

Safety Note In the case of doors equipped with an anti-panic system (with electronic brake), a power failure leaves the motor brake open and the system without one of the features designed to prevent uncontrolled descent of the door. For this reason, a "parachute" (safety descent) device is fitted. The device comprises a gear wheel-pawl system, which is normally kept disengaged by the tension of the connection belt between the spring and the ribbed pulley on the roller axis. In the event of spring breakage, the release of belt tension causes the pawl to lock the gear wheel and prevent uncontrolled descent of the door.

Safety photocells

Two Pairs of IP55 transmitter/receiver type UNI 8612 compliant. Stops downward movement of the door and returns it to the open position should any obstacle be detected by the threshold beam. Further additional pairs as required. IP57 rated also available.

Bottom Safety Edge

Electro-optical System interrupts door descent and ensures door reopening in the presence of obstacles in the doorway.

Control Box/Board (NB Controls can be installed Internally (within the Structure) or in a Separate Control Box).

On the Standard control box is an up push button and emergency push/lock button. On the **(Optional)** Plus control box is a lockable power switch, up and down push buttons, emergency push/lock button, and an automatic/manual selector. The box itself is a robust enclosure (protection degree IP 55, in compliance with updated CEE/CEI 44/5 and DIN standards). IP 65 compliant push-button board. The solid-state microprocessor digital electronic instrument panel affords easy programming and rapid replacement operations in the event of faults, as well as ensures interfacing with remote controls and timer programming. A self-diagnosis circuit detects and indicates malfunctioning by means of dedicated LED lamps. The board also features a safety heat detector.

Electrical system

Pre-wired with rapid internal connectors for quick, safe connection between the control board and the mains power system.

Optional opening devices

A full range of remote controls are available e.g. mono/stereo radar, pushbuttons, radio control, induction loop system, pull cord, etc.

Optional partial opening function

For automatic door opening to pre-selected height.

Optional Interlock Logic

For interfacing a series of doors.

Warranty

The manufacturer gives a standard warranty of 12 months from delivery date on every product.

Product compliant with EC Directive 89 / 392 and new EN 13241-1.