

# SELF-REPAIRING HIGH SPEED ROLLER DOORS

## GENERAL DESCRIPTION OF THE POWER DOOR

### Qualities

Designed for inside and outside environments. Resists and operates with 47 kg/m<sup>2</sup> wind loads, i.e. 100km/h. Maximum dimensions : W 10000mm x H 5500mm. Operating speed: opening and closing : +/- 1.2 m/sec.

### 100% Self Repairing Door Curtain

In case of collision, the M series driven Power Door and All Weather doors the retaining straps are torn free from the side guides. During the next opening cycle, the retaining straps are automatically reset into the side guides. The Power Series (ballast doors) will automatically reset unless total curtain detachment occurs in which case a manual refeed of the curtain is required. (This is classed as a resetting of the equipment.)

### Operation

A high-speed (up to 2.4m/sec -see option) vertical action roller with self-repairing compatibility. In automatic mode (standard), the door is activated by means of the specified opening commands. The door closes after a predetermined period of time, dictated by timer, which can be set between 2 and 30 seconds, depending on requirements.

### Absolute Encoding

Developments to the controller of the doors have made possible an absolute encoder device which continuously provides a code relating to the absolute position of the motor shaft. This system offers perfect accuracy in the setting of the slow-down and stop points of the door, resulting in the elimination of the previous system of using a mechanical limit box. The absolute encoder is located at the end of the motor shaft and is fully encased, so as to be a clean design with no areas to keep clean. The encoder is fully electronic, needing no maintenance, and has a proven track record of never going wrong.

### Operating Conditions

Resists to and operates under pressures up to 47 kg/m<sup>2</sup> or 460 Pa (winds of 100 km/h indicative, not including any multiplication coefficients taking into account the configuration of the building).

### Metal Frame

In "U" section channels in galvanised steel (option stainless steel). Frame is fixed to the face of the opening or subframe. Optional, the main verticals of the door can have covers (stove-enamel or stainless steel).

### Side Guides

The mobile side guides in the metal structure are fixed by means of spring-loaded studs. The guides are made of a continuous polyethylene extrusion, which extends to the full height of the metal structure, a continuity that is only interrupted by the break in the section situated right above the actual opening height, which provides the self-repairing facility. The thickness of the side guide wings is adapted to the operating conditions and their mobility allows them to follow the movements of the curtains during opening and closing whatever the weather conditions may be. When a door is subjected to alternating positive and negative pressures on the side guides, one or both may come out at the bottom; therefore a 600mm high reinforcing piece is fitted to the lower part of the door.

### Total Safety Without Ballast

This door is gear driven, without ballast. There is no need for a security system: the door has no rigid or semi-rigid parts and can, therefore not harm anyone. Nevertheless, for operational reasons: installation of obstacle detectors at the base of the door; this is comprised of photocells positioned 100 mm prior to the door curtain which will detect pedestrians and vehicles and keep the door open as long as any obstruction is present.

### Door Curtain

The door curtain, made of a flexible material consisting of a polyester weave that is covered with PVC, is kept in the side guides by means of continuous retaining straps. The door curtain is available in an option of colours; corn yellow (RAL1003), grey (RAL7042), blue (RAL5010), red (RAL3020), green (RAL6028), orange (RAL2004), white (RAL9016) or black (RAL9017); please specify when ordering.

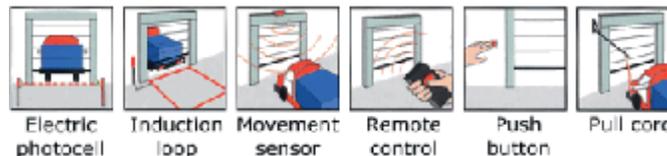
### Perfect Sealing

Continuous lateral retaining straps, PVC strips in the side guides, flexible seal at the base of the door curtain and a topseal, pushing against the lintel.

### Manual Opening

In case of power failure, with a handle inserted directly into the motor. Optional: semi-automatic or fully automatic system.

### Modes of Actuation



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