ARCHITECTURAL SPECIFICATION

SERIES RL3000 RAPID ROLL DOORS

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DESCRIPTION

The high speed roll door is a DMF Series RL3000E door, constructed from modular proprietary interlocking aluminium extrusions, with a surface clear anodized, or option of selected powder coating colour.
All interlocking sections, both vertical and horizontal shall incorporate an integrated brush seal, providing optimum sealing of the door panel.

The door panel itself is manufactured from a minimum 900gsm Polyester reinforced, fire retardant PVC, coated with UV absorbers. The panel colour to be selected from 12 colours, and includes a full width clear PVC safety vision screen, integrated by means of welded kader for insertion to proprietary extruded aluminium windbars. Panels sections between windbars are to be replaceable.

An auto return safety PE beam shall be mounted inline at 400mm height, within the bottom of the door columns, and provisions for the option of pressure sensitive bottom rail with auto reverse. This shall be by RF control connected to an adjustable diaphragm air switch.

The bottom rail shall comprise of extruded aluminium rail with pneumatic tube, encapsulated within the guide columns, and sealing capabilities to floor by an additional skirt in safety yellow.

The door shall be operated by a fully programmable single phase HMI PLC invertor controller system with variable speed control, soft start /soft stop facilities, and variable hold open timer. Door positioning to be by absolute encoder reader direct mounted to the gearbox shaft.

The control system shall operate from a 240 volt single phase outlet rated at 10-20 amps with RCD Type 4 on the circuit. The control housing is to be constructed from rust proof plastic or polyester, with standard controls on the box to include Stop, Power light indicator and Up and Down controls.
It is also to be adaptable to suit the required Battery Backup unit providing 5-10 operational cycles, in the event of a power failure. This is to provide full operation of all door controls.

The motor drive is to be a 3 phase geared motor with electric brake. Door speeds to be adjustable with standard opening speeds of 1.5m/sec, and closing set at 0.7m/sec.

An included dust cover is to be provided, with design dependent on internal or weather exposed application.

The door controllers shall also be capable of receiving all recognised forms of activation options (i.e. push buttons, induction loops, radio control, motion sensors etc) and shall include inbuilt facilities for door interlocking, to suit airlock applications.

OPTIONS
Custom manufactured to sizings
Powdercoated finish to standard Dulux colours
Coloured finishes to door panels
Option of ventilation panels
UPS battery backup
Activation forms
Additional safety sensors
Servo control
Interlocking
All weather top cowling
Chain driven front mount drive
Fully stainless steel construction 304 or 316

AS MANUFACTURED BY

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