

# **MAXPOWER™**

ARCHITECTURAL SPECIFICATIONS

PerforMax Industrial Doors  
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## Part 1: General

### 1.1 General

Architectural Specifications describe criteria, product, manufacture delivery & installation of the MaxPower high speed rubber door.

### 1.2 Product Specifics

- A. MaxPower rubber door has sturdy guides and a secure locking system to provide near airtight seal and breakaway feature for simple reinsertion.
- B. After accidental impact, the door must be resettable with normal tools and equipment.
- C. SBR rubber curtain for service temperature range of -40F to +180F (-40C to +85C), with proper heating cables when required.

### 1.3 Shop Drawings/Submittals

- A. Submit shop drawing showing all pertinent dimensions including: Shop Drawing, Product Data, Samples Electrical Requirements and Mock-Ups. Provide curtain or guide color samples as requested.
- B. Indicate each type of door, required clearances, and electrical required including voltages, size of motors, auxiliary controls and wiring diagrams.
- C. Indicated installation handling.
- D. Requires sign off/approval on shop drawing & purchase order prior to manufacturing.

### 1.4 Installation Criteria

- A. Installer must be a factory authorized dealer.
- B. Field verification prior to shop drawing approval.

### 1.5 Warranty

- A. Limited Lifetime warranty on RhinoMax rubber curtain.
- B. One (1) year warranty on all other components.

## Part 2: Products

### 2.1 Materials

- A. The MaxPower rubber door model consists of high speed and direct-drive springless design manufactured & assembled by PerformMax Global.
- B. Substitutions will not be accepted.

## 2.2 Curtain Material

- A. Two (2) layers of Styrene Butadiene Rubber (SBR) each 3.2mm (1/8") thick, 70 durometers; reinforced with 1-ply, 50kg (110lbs.) polyester cord center. Material provides normal resiliency and flexibility at temperatures ranging from -40F to +180F (-40C to +85C).
- B. End locks are attached to the edges of the curtain material. Curtain locks to be lubrication free. Rubber curtain shall have uniform edges.
- C. Standard Color: Black. Optional: Blue or Gray (EPDM rubber).

## 2.3 Guides

- A. Guides shall be two-piece 11 gauge rolled steel. End Locks to move freely in the guides at all times. Steel guides to release curtain during accidental impact yet remain rigid during normal operation.
- B. Side guide: Mounting steel guide is provided for installation directly onto concrete or steel door framing. Guides to be galvanized. Aluminum guides or hinged guides will not be accepted.

## 2.4 Bottom Bar

- A. Bottom bar shall extend the full operating width of the curtain. The bottom bar shall be constructed of two powder coated safety yellow steel angles bolted together and shall have a break out section to reduce risk of damage during accidental impacts. Spliced bottom bars or aluminum bottom bars will not be accepted.
- B. Bottom bar to be reset without the need to unbolt the side frames.
- C. Bottom bar to have electrical safety edge to seal against ground.

## 2.5 Roll-Up Barrel

- A. The curtain is to be rolled on a tube of sufficient size to carry the door load with a deflection of not more than 2.5mm/m. Both the drive tube shafts are to be constructed of minimum 1 1/2" cold rolled steel shafts.
- B. Springless type tube only. Doors with concealed springs or exposed spring will not be accepted.
- C. Square head plates constructed of 9mm (3/8") hot-rolled steel plate powder coated yellow and heavy duty bearings with cast iron housings to support the drive tube.

## 2.6 Drive

- A. Operators will be direct drive with no chains, pulleys or other intermediary equipment.
- B. Operators shall have safety viscosity governors.
- C. Operator to have emergency chain hoist for ground level operation in case of power failure without any special tools or equipment.

- D. Operator to be 230 volt, 460 volt, or 575 volt, 3 phase, 60 HZ. Motor size to be PerforMax Global recommended size for given door.

## 2.7 Control Panel/Electrical Operator

- A. Panel enclosure to be NEMA 4.
- B. Drive system will be one continuous speed.
- C. Option: Panel enclosure to be UL listed. Control panel shall have push button & cycle counter.

## 2.8 Reversing Edge & Photo Eye

- A. Door to be equipped with wireless electric reversing sensing edge to stop and reverse door to manufacturer's standard.
- B. Optional wired safety edge.
- C. Retro-reflective photo eye shall be standard.
- D. Optional 60" light curtain beams every 4 inches.
- E. Electric door operators shall be heavy-duty direct drive pre-wired, number coded control cabinet as required, to manufacturer's standard. Panel enclosure to NEMA 4 rating. Motors that are not direct drive will not be accepted.
- F. Motor to be programmable logic controller drive, operating through a gear transmission mechanism. The motor is mounted on a heavy-duty 3/8" steel base powder coated yellow.

## 2.9 Optional Activation Accessories

- A. Magnetic loop indicators
- B. Ceiling pull switches
- C. Motion sensors
- D. Remote control with open/close/stop

## Part 3: Execution

### 3.1 Installation

- A. Install doors in accordance with manufacturer printed instructions by a factory trained & authorized installer.
- B. All electrical wiring including power supply and control and wiring to be done by a licensed electrical contractor.
- C. Prior to startup of operation, have installer return and check operation and limits.