

High Performance Doors and Dock Equipment



Hörmann Flexon LLC
Buncher Commerce Park
Avenue C Building 20-A
Leetsdale, PA 15056-1376

SECTION 08330 OH ROLL-UP DOORS

(Rev. 5-09)

SPEED-MASTER® 4500

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- 1.1.1 Drawings and general provision of the Contract including General and Supplementary conditions and Division – I Specifications sections, apply to work of this section.

1.2 DESCRIPTION OF WORK

- 1.2.1 Extent of roll-up doors is indicated on the drawings.
- 1.2.2 Types of overhead roll-up doors include the following:
- 1.2.3 High speed roll-up doors.
- 1.2.4 Motors
- 1.2.5 Controls
- 1.2.6 Electrical requirements for doors specified in Division 16.

1.3. QUALITY ASSURANCE

- 1.3.1 Single Source Responsibility: Provide roll-up doors as complete units products by a single manufacturer, including necessary accessories, fittings and anchorage's.

1.4 SUBMITTALS

- 1.4.1 Shop Drawings: Submit shop drawings for fabrication and erection of doors. Show size of opening and clearance requirements.
- 1.4.2. Product Data: Submit manufacturer's product data and installation instructions for doors, including installation details.
- 1.4.2 Maintenance Data: Submit manufacturer's maintenance and service data, including address and telephone number of nearest authorized Service Representative.

PART 2 – PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- 2.1.1. Manufacturers: Subject to compliance with requirements, provide products of the following:
- 2.1.2. Manufacturer of High Speed Roll Up Doors: Hörmann Flexon LLC, Buncher Commerce Park, Avenue C, Bldg 20-A, Leetsdale, PA 15056 / Telephone: (800) 365-3667 or (724) 385-9150
Fax: (724) 385-9151 / Website: www.hormann-flexon.com / Email: sales@hormann-flexon.com

- 2.1.3 Model: SPEED-MASTER® 4500

2.2 ROLL UP DOORS

- 2.2.1 General: Provide the manufacturer's standard High Speed Roll Up Door of this type, speed, function, operation, size and construction indicated, complete with controls, panel protection devices and accessories required.
- 2.2.2 Type: Provide high speed roll up doors designed for permanent installation at the location indicated.
- 2.2.3 Function: Provide high-speed roll up door designed as an efficient environmental barrier and reduced maintenance alternative to conventional overhead roll-up doors in both interior/exterior traffic applications. Also an environmental traffic door for controlled plant area.
- 2.2.4 Cycle: Opening Speed = 24" per second / Closing Speed = 24" per second.

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- 2.2.5 Activation: Provide one or more of the following activation(s): electric pull cord, electric push button, photo eye, motion detector, remote control or induction loop system.
- 2.2.6 Size of Opening: _____ w X _____ h (maximum 27'0"wide X 25'0"high)
- 2.2.7 Panel Protection Devices: Provide the manufacturer's standard and optional devices as follows: automatic reversing contact edge, reversing photocell, "fail-safe" braking system, full width vision section(s), panel tracking sensor.
- 2.2.8 Panel Material: Material to be 1/8" thick "Bulldog XT" abrasion/puncture resistant, polyester reinforced PVC material to maintain flexibility and stability from -20 degrees F to +130 degrees F. Colors available: blue, orange, and black.
- 2.2.9 Vision Area: A minimum of two (2) panel sections to be of high quality, clear PVC material by the full width of opening and of appropriate height off floor to accommodate both pedestrian and vehicular traffic. Addition sections (or elimination) may be considered as determined by customer.
- 2.2.10 Control: Supply manufacturer's standard electro mechanical NEMA 4 rated control box enclosure with face mounted E-stop, and adjustable timer function. Control box has diagnostic capabilities. Standard power requirement to be 230 v or 460 v / 3 phase / 60 hz.
- 2.2.11 Construction: Design and operation of the door to be such that no counter-balance or panel tension system requiring cables, chains, straps, springs, or pulleys be included. Main roller assembly shall be spin tested center-less ground and of single piece construction for precise turning properties. Ball bearings to be permanently lubricated type with drive shaft keyed directly into unitized motor/gearbox. Door shall be equipped with a minimum 7.5 HP, continuous duty, direct drive motor, rated for 360 cycles per hour under load, having 5-year, unlimited cycle warranty. Includes 4-position limit switch and brake release for manual override operation.
Panel construction shall be of a sectional design using interlocking 6005-T5, 3/8" variable wall, aluminum hinge material profiles having 3-degree maximum twist tolerance and 0.0125 x 25 ft straightness. Profiles to serve as panel stabilizers, of panel construction. Aluminum hinge profiles to have a 5-year warranty against excessive wear from the manufacturer.
Heavy duty, vertical guide tracks shall be a minimum 1/4" steel, hinged to open and of low profile design having a maximum projection of 4-1/8" from wall and 8" outboard of jamb. Anti-friction strips and brush draft seals to be included as standard.
Hinge profiles and guide tracks are set-up and supplied with material to add wind locks in the field if required.
- 2.2.12 Finish and Color: Provide enamel painted, color gray, steel guide tracks and mounting brackets.

PART 3 - EXECUTION

3.1 PREPARATION

- 3.1.1. Coordinate installation of high-speed roll-up doors. Examine the conditions under which the doors are to be installed and do not proceed with the work until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- 3.2.1. General: Comply with manufacturer's detailed instructions for the installation of high-speed roll-up door. Electrical field wiring by electrician.

3.3 FINAL ADJUSTMENT

- 3.3.1 Make necessary adjustments for safe, efficient operation of high-speed roll-up doors.