



Hörmann Flexon LLC, Starpointe Business Park, 117 Starpointe Boulevard, Burgettstown, PA 15021-9506

**Hörmann Flexon LLC**

High Performance Doors

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SPEED-COMMANDER™ 1400 Clean-Master

Section 08330 rev. 4.2.15

## PART 1 – GENERAL

### A. SECTION INCLUDES

1. High-speed interior roll-up doors.
2. Wiring from electric circuit disconnect to operator to control station.

### B. RELATED SECTIONS

1. None

### C. REFERENCES

1. NEMA - National Electrical Manufacturers Association.
2. UL – Underwriters Laboratory Incorporated.

### D. SUBMITTALS - Submit the following:

1. Shop Drawings: Indicate pertinent dimensioning, anchorage methods, hardware locations, and installation details.
2. Product Data: Provide general construction, component connections and details, and electrical equipment, operation instructions, and information.
3. Samples: Submit samples of door slat material upon request
4. Manufacturer's Installation: Indicate installation sequence and procedures, adjustment, and alignment procedures.

### E. MAINTENANCE DATA

1. Scheduled maintenance program available to include periodic adjustments required, scheduled maintenance suggested, manufacturer's data sheets, and equipment inter-connection diagrams.

### F. REGULATORY REQUIREMENTS

1. Electrical components CUL listed.
2. Electrical control panel NEMA 4 approved.

### G. QUALITY ASSURANCE

1. Furnish high-speed roll doors and all components and accessories by one manufacturer.
2. Installer Qualifications: Utilize an installer having demonstrated experience on projects of similar size and complexity, and trained and authorized by the door manufacturer to perform the work of this section.

### H. FIELD MEASUREMENTS

1. Verify field measurements are as indicated on shop drawings.

### I. COORDINATION

1. Coordinate the work with installation of electric power and locations and sizes of conduit.

### J. WARRANTY

The motor is guaranteed against defects in materials and workmanship for a period of 5 full years (excludes catch system). All other mechanical and electrical components are warranted against defects for a period of 2 full years. Products with less than a 5/2 year warranty will not be accepted. During the warranty period, labor is covered for the first year.

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## PART 2 - PRODUCTS

### 2.0 ACCEPTABLE MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements provide products of the following:
1. Manufacturer of High Speed Roll-Up Doors: Hörmann Flexon LLC, Starpointe Business Park, 117 Starpointe Boulevard, Burgettstown, PA 15021-9506 / Phone: (800)-365-3667 / (724) 385-9150 Fax: (724) 385-9151 / Website: [www.hormann-flexon.com](http://www.hormann-flexon.com) / Email: [sales@hormann-flexon.com](mailto:sales@hormann-flexon.com)
  2. Model: Speed-Commander™ Series – Model 1400 Clean-Master

### 2.1 MATERIALS

#### A. GUIDE TRACKS

1. Vertical guide tracks must be a two-piece design, have removable front covers and the following dimensions: 7-1/4" wide by 4-1/2" projection.
2. Guide track must be self-supporting, 12 gauge hot-dipped galvanized steel and include a light grid built in up to 8'0" high. Lighter gauge guide tracks will not be accepted.
3. Standard hood shall be 14 gauge.

#### B. WEATHERSEALS

1. Guide tracks must contain dual seals. No exceptions.
2. Must include full width intel seal providing additional sealing at the top of the door panel.
3. Must include seal at bottom of the door panel to allow for uneven floors.

#### C. DOOR PANEL

1. Panel material to be 2-ply 58 oz. / sq. yard, abrasion resistant reinforced PVC. Material to maintain flexibility and stability from -22 degrees F to +158 degrees F. Colors available include: Pure Orange RAL 2004, Gentian Blue RAL 5010, Zinc Yellow RAL 1018, Carmine Red RAL 3002, Agate Gray RAL 7038. Pure White RAL 9010 is available only in 30 oz. / sq. yard. Lighter weight, single ply, polyurethane or rubber panels will not be accepted.
2. Must include one (1) panel section to be of high quality, clear PVC material by the full width of opening X 35" high, starting approximately 52" from the floor to accommodate both pedestrian and vehicular traffic. No exceptions.
3. Must include BreakAway SoftEdge bottom profile with integral automatic panel reversing edge. The bottom profile must be vertically flexible to reduce the chance of damage to objects and personnel. Padded hard rubber bottom edges will not be accepted.
4. Must include two one-piece aluminum hinges in the door panel, one located above and one below the vision area, to provide panel stability. Optional: Integrated spring steel to be in heat welded into horizontal pockets.

#### D. EMERGENCY OPERATION

1. Via manual disconnect of power to the motor and crank handle for manual opening of the door. Optional emergency opening via chain hoist available.

#### E. DRIVE SYSTEM

1. 3-phase direct-drive motor / AC drive of sufficient power to raise door at rated speed.
2. Motor is self monitoring and has a patented built in safety brake, has sealed bearings and is maintenance free.
3. Maximum opening speed of 80 inches per second and closing speed of 30 inches per second.
4. Drive system NEMA 3S (dust tight, rain tight, sleet tight, outdoor rated).

## F. CONTROL PANEL

1. Supply manufacturer's standard HFCB hardwired control box with a 230 v / 1-phase / 60 Hz / 3-phase output power requirement. Doors with contactor boxes will not be accepted.
2. Control box must include face mounted e-stop / re-set buttons and power disconnect.
3. Optional control boxes accepted: HFC1 3-phase hardwired control box, or Smart Start™ HFC1 3-phase control box with plug-in cable connectors. Optional control boxes are NEMA 4, CUL listed and equipped with a programmable drive system, with variable speed operation, and includes soft opening and closing.
4. Must include an adjustable time delay.
5. Standard power requirement is 230 v / 1-phase – or- 230 v or 460 v / 3 phase / 60 Hz (4 kw).
6. Must include cycle counter.
7. Must include self-monitoring and self-diagnostic features and an LCD to provide quick and straightforward information.
8. Control panels that require a portable computer unit, additional components or other devices for programming and/or troubleshooting will not be accepted.
9. Maximum control box dimensions of 12" wide x 16" high x 5" deep allowing for applications with limited space.
10. Door to use encoder to regulate door travel limits. Door travel limits to be adjusted without the use of tools from floor level at the control panel. Doors using mechanical limits switches or doors that require tools to set the limits will not be accepted.

## G. COUNTERBALANCE

1. No counter-balance or panel tension system requiring cables, chains, straps, springs, or pulleys to be included. Optional Battery.

H. LIGHT CURTAIN: Light grid up to 8'0" is standard and built into the guide tracks.

I. WINDLOAD: Interior door recommended for wind loads no greater than 15 MPH.

J. All components factory finished.

## PART 3 – EXECUTION

### A. PREPARATION

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.

### B. INSTALLATION

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

### C. FINAL ADJUSTMENT

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

END OF SECTION