



SECTION 08380  
ROLLING DOORS  
687 Series JETROLL® High Speed Traffic Doors

**PART 1 - GENERAL**

1.01 RELATED DOCUMENTS

- A. All of the Contract Documents, including General and Supplementary Conditions and Division 1 General Requirements, apply to the work of this Section.

1.02 SUMMARY

- A. The work of this Section includes high speed traffic doors.
- B. Related Sections: Other specification sections which directly relate to the work of this Section include, but are not limited to, the following:
  - 1. Section 08710 - Finish Hardware; key cylinders for locks.
  - 2. Section 16100 – Electrical; wiring.

1.03 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for each type of rolling door. Include both published data and any specific data prepared for this project.
- B. Shop Drawings: Submit shop drawings for approval prior to fabrication. Include detailed plans elevations, details of framing members, required clearances, anchors, and accessories. Include relationship with adjacent materials.

1.04 QUALITY ASSURANCE

- A. Manufacturer: High speed doors shall be manufactured by a firm with a minimum of five years experience in the fabrication and installation of upward acting doors. Manufacturers proposed for use, which are not named in these specifications, shall submit evidence of ability to meet performance and fabrication requirements specified.
- B. Installer: Installation of high speed doors shall be performed by an authorized representative of the manufacturer.
- C. Single-Source Responsibility: Provide doors, guides, motors, and related primary components from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.
- D. Pre-Installation Conference: Schedule and convene a pre-installation conference just prior to commencement of field operations, to establish procedures to maintain optimum working conditions and to coordinate this work with related and adjacent work.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials and products in labeled protective packages. Store and handle in strict compliance with manufacturer's instructions and recommendations. Protect from damage from weather, excessive temperatures and construction operations.

**PART 2 - PRODUCTS**

2.01 ACCEPTABLE MANUFACTURER

- A. Provide high speed traffic doors by Overhead Door Corporation, Pennsylvania Division; Telephone 800-929-2553 or 717-248-0131; Fax 800-929-1274



2.02 HIGH SPEED TRAFFIC DOORS

- A. Trade Reference: JETROLL® 687BW Series High Speed Traffic Doors by Overhead Door Corporation.
- B. Curtain: Multi-ply PVC impregnated fabric, 2.0 mm thick. Curtains shall be equipped with glass reinforced polymer air pressure slats attached to both sides in the number required for the height of the door.
  - (Special Application Curtains available include:)
  - (2.0 mm Urethane in white or light blue for FDA approval or extreme temperature)
  - (2.5 mm Polyolethane in white for tobacco)
  - (2.1 mm Fire Retardant PVC in silver/black)
  - (7.1 mm Insulated foil/vinyl in blue, R-16 Thermal insulation value)
  - (Nylon Insect Screen in black with safety yellow stripes)
- C. Color: 2.0 mm fabric - Red (Blue) (Orange) (Gray) (Brown)
- D. Vision Panels: Full view vision panel by 32" high (Full view vision panel by 40" high) (no vision panel)
- E. Bottom Bar: Black anodized extruded aluminum members to reinforce the curtain, incorporating a system that releases the curtain from the guides upon impact and can be reattached by one person. Reattachment of the bottom bar to the guides is performed at floor level. Bottom bar incorporates a fail-safe electric sensing edge that is black/yellow safety striped.
- F. Guides: Clear anodized extruded architectural aluminum channel with ultra high molecular weight polyethylene retainer strips attached to a continuous structural steel wall angle. Complete guide assemblies including photoelectric sensors are factory pre-assembled.
- G. Operator: Direct drive, (1 HP) (2 HP), dependent on door size and accessories, hypoid gear motor/brake assembly in 208/230/460 VAC, 3 Phase (575 VAC, 3 Phase). An emergency manual hand crank is provided for operation during power outages. Doors shall have an upward and downward speed of 42" per second. Operator, drive assembly and limit switches are factory pre-assembled and installed. All low voltage wiring will be through factory provided "quick connect" wiring harnesses.
- H. Control Panel: Provide electronic controller with microprocessor self-diagnostics. LED readouts indicate door action, alarm conditions, and fault conditions. Time delay self close timer and non-resettable cycle counter is included. Enclosure is NEMA 12 (NEMA 4) rated.
- I. Door Roll: Directly driven, steel tube with integral shafts, keyed on both ends and supported by self-aligning sealed bearings. Curtain shall be wrapped on the barrel at the factory.
- J. Counterbalance: Door shall not be counterbalanced.
- K. Hood Assembly: Black painted 24 gage steel extending full width between the support brackets with full width brush seal.
- L. Safety Devices:
  - 1. Photoelectric (dual) sensors that cast an invisible beam across the door opening and reverse the downward motion of the door when an object enters the path of the beam.
  - 2. Self-monitoring black/yellow striped electric fail-safe sensing edge reverses the downward motion of the door upon impact.
  - 3. Motor cutout switches located on the breakaway bottom bar stop the motor and activate alarm mode when breakaway occurs.
- M. Actuation: One, Open/Close/Stop NEMA 1 push button station. (Optional push buttons, loop detectors, radio control, motion detectors, pull cords or any combination.)
- N. Finish: Curtain color as specified in 2.01. All steel parts shall be painted black, aluminum bottom bar shall be anodized black and the guide channel anodized clear.
- O. Breakout: Curtain will breakaway if struck by a mechanized vehicle. Reattachment of the bottom bar to the guides is accomplished at floor level by one person.



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**PART 3 - EXECUTION** 3.01 PREPARATION

- A. Take field dimensions and examine conditions of substrates, supports, and other conditions under which this work is to be performed. Do not proceed with work until unsatisfactory conditions are corrected

3.02 INSTALLATION

- A. Strictly comply with manufacturer's installation instructions and recommendations. Coordinate installation with adjacent work to ensure proper clearances and allow for maintenance.
- B. Instruct Owner's personnel in proper operating procedures and maintenance schedule.

3.03 ADJUSTING AND CLEANING

- A. Test high speed doors for proper operation and adjust as necessary to provide proper operation without binding or distortion.
- B. Touch-up damaged coatings and finishes and repair minor damage. Clean exposed surfaces using non-abrasive materials and methods recommended by manufacturer of material or product being cleaned.

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