



**GT1175 WHISPERSLIDE HURRICANE PACKAGE
IMPACT RATED AUTOMATIC ENTRANCE SYSTEMS
SUGGESTED ARCHITECTURAL SPECIFICATIONS
SECTION 8**

Part 1-GENERAL

1.01 DESCRIPTION

- A. Furnish and install automatic equipment as indicated on drawings and specifications.
- B. Related work specified elsewhere.
(See note to Specifier*)
 - 1. Electrical Supply: Section _____

1.02 QUALITY ASSURANCE

- A. Manufacturer's Qualifications:
Products specified shall be represented by a factory authorized and trained distributor. Distributor shall maintain a parts inventory and trained service personnel capable of providing service.
- B. All automatic equipment to comply with ANSI A156.10.
- C. Gyro Tech equipment as manufactured by NABCO ENTRANCES, INC. has been specified and shall be quoted as a base bid. Other systems can be quoted along with information specifically detailing the differences from the following specification.

1.03 SUBMITTALS

- A. Shop drawings showing complete elevations, details and methods of anchorage to location; installation of hardware; size, shape, joints and connections; and details of joining with other construction.
- B. Templates and diagrams and/or shop drawings as needed shall be furnished to fabricators and installers of related work for coordination of sliding door system with concrete work, electrical work, and other related work.
- C. A copy of appropriate manual shall be provided to owner's representative upon completion of installation.

1.04 WARRANTY

- A. Warranty power operators, controls and labor provided by automatic sliding door equipment installer against defects in material and workmanship, at no cost to owner, for a period of one year from date of substantial completion. Provide warranty to owner after completion of installation.

1.05 COMPLIANCE

- A. A completed American Association of Automatic Door Manufacturer (AAADM) compliance form shall be submitted as proof of compliance with ANSI A156.10 Standard for power operated pedestrian doors. Door(s) shall be inspected and form shall be signed by an AAADM certified inspector prior to placing door(s) in operation.
- B. Automatic sliding door systems shall be certified by the manufacturer to meet performance design criteria in accordance with the following standards:
 - ANSI/BHMA A156.10
 - NFPA 101
 - Underwriter's Laboratories (UL) 325
 - Miami-Dade County Building Code Compliance Office
 - Florida Building Code, 2001, 2004

Part 2-PRODUCTS

2.01 APPROVED MANUFACTURER

- A. Automatic equipment and controls shall be manufactured by:
 - NABCO ENTRANCES INC.
 - S82 W18717 Gemini Drive
 - Muskego, WI 53150
 - Phone: (877) 622-2694
 - Fax: (888) 679-3319

2.02 AUTOMATIC GT-WHISPERSLIDE SYSTEM

- A. GT Model #1175 Whisperslide as indicated on door schedule and details.
- B. Mode of operation: an electro-mechanical 24V DC "Brush-less" operator with a microcomputer control system shall drive sliding door. The door will be pulled from closed to open and open to close position stopping the door in both directions by electrically reducing the voltage, stalling door against mechanical stop. Opening, closing speeds and hold open time shall be adjustable. A reinforced timing belt shall be used to convert rotating motion from the operator sprocket into horizontal motion of the door.
- C. Components:
 - 1. Doors, sidelites, operator housing and frame made from manufacturer's standard extruded aluminum reinforced as required to support imposed loads.
 - 2. Rollers-support, anti-riser and guide.
 - 3. Door carrier hanger assembly, breakaway latch, limiting arm and door lock.
 - 4. Air infiltration and intrusion protection equipment.
 - 5. Nabco 24V DC "Brushless" power open/close operator with microcomputer control.

6. (Optional) Access Security Equipment

1a) Door panel(s) and sidelite(s) panel shall be factory assembled with 3/8"-16 threaded tie rods spanning full length of top and bottom rails. Screw down glass stops with integral extruded vinyl standoff and screw down reinforcement angle to accommodate glass flexing. Glass stops are designed for use with 1/2" (13mm) thick impact glass as specified in the Miami-Dade Notice of Acceptance. Glass is wet glazed in place with DOW 995 adhesive or approved equal.

1b) Operator housing section shall be three piece construction 6-1/2" (165mm) by 7-1/2" (191mm) extrusion with end caps. All header sections shall have a minimum thickness of 0.140" (4mm) and shall be fabricated of 6063-T5 aluminum alloy.

1c) Sidelite configuration shall be fixed or full breakaway type.

1d) Finish: Aluminum shall have a standard finish of AA-M12-C21-A31 (204R1, clear) or AA-M12-C21-A44 (dark bronze). Special finishes available upon request.

1e) Vertical jambs shall be of 1-3/4" (44mm) by 4-1/2" (114mm) extruded aluminum tubes.

1f) Manufacturer's saddle thresholds as specified in the Miami-Dade Notice of Acceptance.

2a) The door assembly shall ride on two 2-3/8" (60mm) dia. steel, urethane coated support rollers incorporating lubricated sealed ball bearings rated at 250 lbs. each. The door shall be held on the track by means of two 2-1/2" (64mm) anti-riser rollers. Lateral adjustment of the door assembly shall provide positive sealing at door edges. Door height shall be adjustable by 9/32" (7mm).

2b) Fixed Sidelite Units - Each door shall include one guide assembly incorporating double rollers with sleeve bushings. Guide assembly shall be attached to the door with 10 gage (3mm) thick-formed guide bracket. All steel brackets and fittings shall be plated for corrosion resistance.

2c) Full Open Units - Each door shall include one guide assembly incorporating one roller and guide piston riding in a surface or recessed floor track assembly.

3a) Entrance systems shall have door panels attached to a door carrier hanger assembly by means of an adjustable support rod pivot assembly and corrosion resistant adjustable breakaway release latch holding panel in the closed position under normal automatic operation. The support rod pivot assembly allows the door panel to be broken outward at any point in the door's opening or closing cycle allowing for safe emergency egress in compliance with NFPA 101 and ANSI A156.10. The door panel in the breakout mode disconnects the power to the control circuit inhibiting automatic door operation. The control circuit shall be resettable by re-engaging the door panel with the door carrier hanger assembly. Breakaway pressure shall be field adjustable from 5 to 50 lbs (22N to 222N) to meet local building code requirements but will be factory set at 50 lbs (222N) maximum.

3b) Door assembly shall have a limiting arm to control the door as it swings in the direction of egress.

3c) The active door will incorporate a three-point lock securing the lead stiles, door carrier hanger assembly and to the threshold. On a bi-part slider the inactive door will include additional two-point locking. In the case of a single slider, the door will incorporate a three-point lock securing the door carrier hanger assembly and to the jamb and threshold. The lock assembly will incorporate a key cylinder on the exterior and a thumb turn on the interior in accordance with NFPA 101. An optional Adams-Rite 4550 lever may be substituted for the interior thumb turn.

3d) On full open units the adjacent swing out sidelite will incorporate additional two-point locking securing it to the header and threshold.

4a) Double pile weather-stripping on the lead edge of the sliding door(s) .36" thick (9mm) including the area of the lock.

4b) 11/16" (17mm) wide nylon brush weather-stripping on the vertical stile of both the sliding door panel(s) and sidelite(s) panels

4c) 11/16" (17mm) wide nylon brush weather-stripping mounted on door bottom.

5a) Nabco Power Operator: Completely assembled and sealed unit which shall include gear-driven transmission, and bearings, all located in cast aluminum housing and filled with special lubricant for extreme temperature conditions. Attached to transmission system shall be a 24V DC "Brush-less" motor with sealed ball bearings. 1/10 HP motor shall operate from 115-volt supply and require less than 5 amps at full stall.

5b) Power Operator Control: Shall be a microprocessor unit. The microprocessor control shall allow the opening speed, closing speed; back check speed and latch check speed each to be adjusted separately and independently from each other to meet specific site conditions. The control shall interact with door sensors via digital signals and if a sensor error occurs the control shall hold the door open. The doors shall be set to be held closed with the motor. The control system shall also be capable of providing transistor output signals at the door closed or door open positions to facilitate interaction with security and access control systems. It shall be capable of providing information on the number of operations and error codes for maintenance purposes. Adjustable opening and closing speeds shall be set in accordance with ANSI 156.10. All adjustments shall be specific and reproducible. Settings with rotary switches are not allowed.

6) Access Security Equipment: Shall consist of Gyro Tech Access Control Panel with switches and LED indicators to allow user to change door operation mode, open the door or observe the status of the door.

2.03 SENSOR DEVICES

- A. Acusensor or Acuvision: Manufactured by NABCO ENTRANCES, INC.
Sensors for door activation and threshold sensing shall provide a rectangular shaped pattern with a sensing area next to the door system. To provide optimum coverage to meet specific site conditions the sensing pattern shall be adjustable both in width and depth of coverage while remaining at a full power setting. Units shall be supplied and installed on both sides of the operator housing to activate doors for single or two-way traffic. Units shall be sealed for protection against dust and moisture. An optional rain cover shall be available for sensors directly exposed to the elements.
- B. Acumotion: Manufactured by NABCO ENTRANCES, INC.
Sensors for door activation and threshold sensing shall provide a rectangular shaped pattern with a sensing area next to the door system. To provide optimum coverage to meet specific site conditions the sensing pattern shall be adjustable both in width and depth of coverage while remaining at a full power setting. Acumotion uses two technologies for activation and presence sensing. The activation is achieved by Doppler microwave for long range sensing. Presence sensing is achieved by active-infrared. Unit shall have separate outputs for microwave and infrared signals. Sensors combining both microwave and infrared signals on one output shall not be allowed. Units shall be supplied and installed on one or both sides of the operator housing to activate doors for single or two-way traffic. Units shall be sealed for protection against dust and moisture. An optional rain cover shall be available for sensors directly exposed to the elements.
- C. Specification options for consideration:
1. Wall Switches
 2. For others see product catalog.

PART 3- EXECUTION

3.01 INSTALLATION

- A. Automatic door equipment shall be installed by factory-trained installers in compliance with manufacturer's recommendations and approved shop drawings. Type and quantity of fasteners to secure the door package into the framed opening is per the requirements in the Miami-Dade Notice of Acceptance.

3.02 CLEANING AND PROTECTION

- A. After installation, clean framing members as recommended by the manufacturer. Aluminum surfaces in contact with masonry, concrete or steel shall be protected from contact by use of neoprene gaskets, where indicated, or a coat of bituminous paint to prevent galvanic or corrosive action. Advise general contractor to protect unit from damage during subsequent construction activities.

*** COVER NOTE TO SPECIFICATION WRITER**

Indicate under appropriate Section the following work by others:

ELECTRICAL INSTALLER shall furnish and install all conduit and electrical wiring for activating devices and door operators. A minimum of 5 amperes, 115 volts, A/C, 1-phase circuit shall be furnished for each door operator, terminate and connect to operator control panel, in operator housing.

CONCRETE INSTALLER shall prepare floor at location of automatic entrance system to accommodate the surface as indicated on drawings.