

GT SYSTEM 500 DUAL ACCESS
SUGGESTED ARCHITECTURAL SPECIFICATIONS
SECTION 8
AUTOMATIC ENTRANCE SYSTEMS

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Furnish and install automatic entrance equipment as indicated on drawings and as specified.
- B. Related work specified elsewhere. (See note to Specifier*)
 - 1. Electrical Supply: Section _____
 - 2. Floor Preparation: 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 personnel capable of providing service.
- B. Requirements of Regulatory Agencies:
 - 1. Underwriters Laboratory, Inc. (UL): Automatic entrance and/or exit doors shall be a UL listed system in guide FDDR and/or guide FUXV.
 - 2. Meets requirements of disabled in accordance with Federal Regulation ANSI 117
- C. All automatic equipment to comply with ANSI A156.19.
- D. Gyro Tech equipment as manufactured by NABCO ENTRANCES, INC. has been specified and shall be quoted as the 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 method 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 operators with doors, frames, hardware, concrete work and other work.
- C. A copy of appropriate manual shall be provided to owner's engineer upon completion of installation.

1.04 WARRANTY

- A. Warranty of power operators, controls and labor provided by automatic 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.

PART 2-PRODUCTS

2.01 APPROVED MANUFACTURER

- A. Automatic entrance equipment and controls shall be manufactured by:
NABCO ENTRANCES INC.
S82 W18717 Gemini Drive
P.O. Box 906
Muskego, Wisconsin 53150
Phone: (877) 622-2694
Fax: (888) 679-3319

2.02 AUTOMATIC SWING DOOR SYSTEM

- A. GYRO TECH GT System 500 (surface applied): Automatic Swing door system for physically handicapped as indicated on door schedule and details.
- B. Mode of Operation: Spring Close. Gyro-Swing operator shall open door by energizing motor and shall stop door by stalling motor against mechanical stop. Door shall close slowly by means of spring energy, closing force shall be controlled by gear system and motor being used as dynamic brake without power. Complete automatic door cycle 18 to 20 seconds. Manual door operation requires less than 12 lbs. of force applied to door stile. System shall also operate as a manual door in event of power failure. Hold open time shall be adjustable. Door operation shall not require any fluids or gases under pressure to be used in opening and closing of door.
- C. Components:

1. Operator Housing
2. Gyro-Swing Power Operator
3. Electronic Control
4. Connecting Hardware

1a) Operator Housing: GYRO TECH Housing shall be 5-1/2" (139.7 mm) wide by 5" (127.0 mm) high aluminum extrusions with finished end caps and shall be prepared for mounting to new or existing door frames. All structural sections shall have a minimum thickness of 0.146" (3.7 mm) and shall be fabricated of 6063-T5 aluminum alloy.

1b) Finish: Aluminum shall have a standard finish of AA-M 12-C22-A31 (204 R1) or AA-M12-C22-A42 (dark bronze). Black and special finishes available upon request.

2) Gyro-Swing Power Operator:

Completely assembled and sealed unit which shall include helical gear-driven transmission, overriding clutch (to provide easy manual operation, spring-close), mechanical spring and bearings all located in cast aluminum housing and filled with special lubricant for extreme temperature conditions. Attached to transmission system shall be a DC shunt-wound permanent magnet motor with sealed ball bearings. Motor shall operate from 115-volt supply and require less than 5 amps at full power stall. Complete unit shall be resilient mounted with provisions for easy replacement, without removing door from pivots or frame.

3) Electrical Control: Self-contained unit including necessary transformer, relays, rectifiers, and other electronic components for proper operation and switching of Gyro-Swing power operator. Relays shall be plug-in type for individual replacement. All connecting harnesses shall have interlocking plugs. Controls shall also include time delay for normal cycle. Control shall also include adjustable (0 to 60 seconds) time delay module

4) Connecting Hardware: Connect conversion unit (CU) drive arm to inswing door with a urethane covered roller which shall ride in a track fabricated of 6061 -T6 aluminum alloy attached to the top door rail where required for pull-type operation. Outswing doors shall be connected to operator by a two-piece drive arm with self-aligning rod ends and connecting door bracket for push-type operation.

2.03 ACTIVATING DEVICES

- A. Wall Switches: Stainless steel, surface or flush mounted, engraved or plain, as manufactured by NABCO ENTRANCES, INC.
- B. Optional activators are available
- 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

3.02 CLEANING AND PROTECTION

- A. After installation, clean framing members as recommended by manufacturer. Aluminum surfaces in contact with masonry, concrete, and 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-volt, 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 or recessed electric switch mats as indicated on drawings.