

SECTION 8740

INF IN THE FLOOR SWING DOOR OPERATOR

PART 1-GENERAL

1.01 DESCRIPTION

A. This section describes the requirements for installation of the record-usa **INF IN THE FLOOR** swing door operator.

1. Low energy swing door operators meeting ANSI A156.19.
2. High speed, heavy duty swing door operators meeting ANSI A156.10 and that utilize safety systems and rails as required by this ANSI standard.

B. RELATED SECTIONS

1. Hollow metal doors as specified in Section 8700.
2. Door hardware as specified in Section 8700.
3. Exterior aluminum entrance doors as specified in Section 8950.
4. Electrical connections (high and low volt) as specified in Section 16810

1.02 SUBMITTALS

A. Product Data: Furnish record-usa **INF** product data and standard details including fabrication, finishing, hardware, operator, accessories, and other components of the work. Include rough-in diagrams, wiring diagrams, and maintenance instructions.

B. Shop Drawings: Furnish shop drawings for fabrication and installation. Show anchors, cement casings, hardware, and other components not shown in door operator's instructions.

C. Templates and Diagrams: Furnish templates, diagrams, block-out dimensions, and other data to fabricators and installers of related work for coordination of operators with doors, frames, hardware, electrical, and other work.

1.03 QUALITY ASSURANCE

Manufacturer's Qualifications: Manufacturer must have a minimum of five (5) years experience in the fabrication of aluminum-and-glass door assembly similar to those specified. Door packages shall be warranted against defect in material and workmanship for a period of one year from the date of installation. Installation shall be approved by an AAADM certified inspector.

A. Installer's Qualifications: **INF** swing door operator shall be obtained and installed solely through and by an authorized trained and factory certified automatic door provider. Consult record-usa (800) 438-1937 for the current listing.

PART 2-PRODUCTS

2.01 APPROVED MANUFACTURER

- A. record-usa
Monroe, North Carolina, USA
(800) 438-1937

2.02 IN FLOOR SWING DOOR OPERATOR

- A. Drive: Totally noiseless drive with high performance plant gear for 90 degree up to 250 degree openings. Fully powered automatic drive without hydraulics or springs and operated with brushless DC chopped motor.
 - 1. DC low voltage motor with high capacity special eccentric gearing
 - 2. Gear ratio 59:1 for up to 550 pounds in push to start (power assist) operation; and from weights over 550 pounds per leaf up to 1,320 pounds for automatic operation only.
 - 3. Assembling frame manufactured from stainless steel.
 - 4. Cover plate made of stainless steel.
 - 5. Electronic control with four (4) functions.
 - a) off/locked
 - b) automatic
 - c) one way
 - d) hold open
 - 6. Speed and opening time fully adjustable.
 - 7. Power supply 110V AC, 10 amps; power consumption 200 watts.
 - 8. Electromagnetic wind brake in operator optional
 - a) The wind brake holds the door in position during wind loads. While the wind brake is engaged you may only operate the door via push button or motion detector activation.
 - 9. Dimensions:
 - a) length = 18 inches (460mm)
 - b) width = 8 2/3 inches (240mm)
 - c) depth = 6 1/2" inches (160mm)

PART 3 – EXECUTION

3.01 INSTALLATION

- A. Locate the switch board which houses all electronic elements separately from the drive unit in order to protect those parts from any possible water which might get into the drive unit no more than eighty (80) feet from the drive unit.
- B. Certify that door operation complies with ANSI A156.19 or A156.10 as specified.

3.02 CLEANING AND PROTECTION

- A. Clean exposed operating components as recommended by record-usa.
- B. Protect converter and automatic door operator equipment from damage and deterioration during construction.

