

SECTION 08-71-13

AUTOMATIC SLIDING DOOR OPERATOR



1. GENERAL

1.1 SECTION INCLUDES

A. Automatic Sliding Door Operators.

1. Direct drive sliding door operators (Pro 1000), (550, 800, 1100 series motors).

1.2 RELATED SECTIONS

- A. See installation instructions for mounting operator.
- B. See installation instructions for electrical connections.

1.3 REFERENCES

- A. Underwriters Laboratories (UL) - UL Listed products.

1.4 SUBMITTALS

A. Product Data: Manufacturer's installation instructions on each product to be used, including:

1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.
4. Cleaning methods.

- B. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including anchorage, edge conditions, and accessories.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging with labels intact until ready for installation.
- B. Schedule delivery of sliding door operator so that spaces are sufficiently complete that door operators can be installed immediately upon delivery.

## 1.6 WARRANTY

- A. Manufacturer's Warranty. Provide manufacturer's standard warranty for each product. Refer to specific warranty information under model in Part 2 of this section.

## 2. PRODUCTS

### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Propel Doors, LLC, 7 Kemp Drive, Chatham IL 62629. Toll-Free: 888-391-8592. Email: [mark@propeldoors.com](mailto:mark@propeldoors.com) Web: [www.propeldoors.com](http://www.propeldoors.com), See Sommer USA for UL qualifications.

- B. Substitutions: Not permitted.

### 2.2 DIRECT DRIVE SLIDING DOOR OPERATORS

- A. Direct Drive Sliding Door Operator: Propel Pro 1000.

#### 1. Motor:

- a. Horsepower: 550 Newtons, 800 Newtons, 1100 Newtons.

- 1. Equivalent to  $\frac{3}{4}$ , 1, 1  $\frac{1}{2}$  HP nominal.

- b. RPM: 1,600 nominal.

- c. Thermal Protection: Automatic.

- d. Lubrication: Non required.

#### 2. Drive Mechanism:

- a. Drive Means: stationary chain.

- b. Size: 63 mm

- c. Door Linkage: Adjustable door arm.

#### 3. Logic Type:

- a. Solid-state micro controller with built-in surge suppressor and fused.

#### 4. System Hardware:

- a. Door Arm connector: (3/8 steel gusset with 1x2x19" tube steel arm), must bridge gap from inside face of door and 3" beyond inside face of the jamb. No substitutions accepted.

- b. Hanging Hardware: Must be 13 gauge punch angle with a 90 degree configuration.

- c. Door Guides: 8  $\frac{1}{4}$ " wide x 1  $\frac{1}{4}$ " deep x 4" thick, slotted, for concrete application utilizing 1/2' x 5' concrete anchors. Injection molded super tough nylon. Tapered mushroom shape. No substitutions accepted.

d. Cincher Plate/rail: Trail end machinism to cinch door to door jamb. Cincher consists of cincher plate 3/8 steel, cincher bolt (grade 8, 1/2" x 6" with delron bushing) Cincher rail L shaped 1 1/4" x 1 1/4" x 18" fastened to girt, incapsulating bushing/bolt. No substitutions accepted.

5. Dimensions:

- a. Installed Length: 3'3" – 33' door travel.
- b. Maximum Door Travel: 30' (9144 mm).
- c. Headroom Clearance Required: 2.5 inches (50.8 mm) minimum, maximum 12 inches (304.8), variable.

6. Shipping Weight:

- a. Head: 6 pounds (10.1kg)
- b. Rail, Full Chain: 40 pounds (9.1 kg) – 120 pounds (54.431 kg ).

7. Adjustments:

- a. Force tolerance: Variable per size of door.
- b. Limit: Intergrated into C track, manually adjustable.

8. Travel Rate:

- a. 6.2 inches (178 mm) per second, nominal.

9. Electrical:

- a. Voltage: 120V AC, 60 Hz.
- b. Wattage: 45W D/C Powered.
- c. Current Rating: 4.5A.
- d. UL Listed. See Sommer USA.
- e. Length of 3-Prong Line Cord: 4 feet (1219 mm).

10. Security+ Radio Controls:

- a. Pro 1000 310MHz – 4 Button Remote Control.
- b. Coding System: Smart Radio Receiver code button and indicator light, learn button.
- c. Operating Range: 150 feet (45.72 m).
- d. Operating Temperature: -31 degrees F (-35 degrees C) to 149 degrees F (65 degrees C).
- e. Battery for Remote Control: 3V, lithium.

- f. Radio Frequency: 310 MHz.
- g. Security+ anti-burglary coding.

11. Control Panel:

- a. Pro 1000 Multi-Function Control Panel.
- b. Light Control: Turns operator lights on/off.
- c. Adjustable light timer.
- d. Illuminated push-button.
- e. Lock Mode: Locks out outside remote controls.

12. Lighting:

- a. Number of Bulbs: 1.
- b. Maximum Wattage: 32 volt 18 watts.
- c. Adjustable time, solid-state delay (1.5 to 4.5 minutes).

13. Materials:

- a. Chassis: Fire retardant composite material
- b. Chassis Cover: Fire retardant composite material.
- c. Rail: Solid steel C.

14. Convenience/Safety Features:

- a. The Protector System safety reversing sensors.
- b. Emergency/quick release.
- c. Automatic reconnect.
- d. Ventilation/pet opening.
- e. Horizontal safety reverse.
- f. Side safety stop.
- g. Door open/beam obstructed/lights on.
- h. PosiLock secure lock system.

15. Warranty:

- a. 5-year motor.
- b. 2-year parts.

### 3. EXECUTION

#### 3.1 EXAMINATION AND PREPARATION

- A. Inspect area for any and all obstructions in the path of motor and door. Inspect all connections prior to operating system.
- B. If installation is the responsibility of another installer, notify manufacture in writing of deviations from manufacturer's recommended installation tolerances and conditions.

#### 3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions and in proper relationship with adjacent construction. Test for proper operation and adjust until satisfactory results are obtained.

#### 3.3 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch up, repair or replace damaged products before Substantial Completion.

END OF SECTION