

## MODEL FMC – Steel – Rolling Counter Door Motor Operation – Face of Wall Mount

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### 1.0 GENERAL

#### 1.1 Summary

- A. All Steel Rolling Counter Doors shall be manufactured by Amazing Roller Shutters, Canada. Furnished materials shall include all curtains, bottom bars, guides, brackets, hoods, operating mechanisms and any special features.
- B. Work not to be included by **SDI** includes design of, material for and preparation of door openings but not limited to structural or miscellaneous iron work, metal or wood trim, access panels, finish painting, electrical wiring, conduit and disconnect switches.

- 1.2 Quality Assurance A. All rolling counter doors shall be designed to a standard maximum of 10 cycles per day and an overall maximum of 50,000 operating cycles for the life of the door.

### 2.0 PRODUCTS

- 2.1 Materials A. The door curtain shall be constructed of interconnected strip steel slats conforming to ASTM-526. The

curtain shall be constructed of 22 gauge No. 10 (1-1/4" high by 3/8" deep) slats as designated by **SDI**.

- B. The finish of the door curtain shall be prime consisting of the following:

1. Hot dipped galvanized G-90 coating consistent with ASTM A-525
2. Bonderized coating for prime coat adhesion
3. Corrosion inhibiting primer - .2 mils per side

- C. The bottom bar shall be constructed of tubular extruded aluminum measuring 1-5/16" deep by 2-1/4" high and shall include the **SDI** Air Wave safety edge system. The bottom bar shall receive a 204-R1 clear anodized finish.

- D. The guides shall be constructed of extruded aluminum and measures 1-3/4" square. Each side of the channel portion capturing the curtain shall contain wool pile weatherstripping. The guides shall receive a 204-R1 clear anodized finish.

- E. The brackets shall be constructed of 1/8" thick steel plate.

- F. The barrel shall be steel tubing of not less than 4" in diameter. Oil tempered torsion springs shall be capable of correctly counter balancing the weight of the curtain. The barrel shall be designed to limit the maximum deflection to .03" per foot of opening width. The finish on the barrel shall be one (1) coat of bronze rust-inhibiting prime paint.

- G. The hood shall be fabricated from 24 gauge galvanized steel and shall be formed to fit the square brackets. The finish of the hood shall be the prime finish as indicated in the curtain section.

#### 2.2 Operation

- A. The rolling counter door shall be operated at a speed of 1/2 foot per second by a model 11 motor operator. The motor operator shall include an electric motor with gear reducer in oil bath, geared limit switch and emergency release for push up operation. The motor operator shall be 115 volt single phase. The motor starter shall be housed in a NEMA 1 housing and include a 24 volt control transformer and complete terminal strip to facilitate field wiring. The motor operator shall be activated by ( a 3 button push-button station ) ( other controls as selected ) in NEMA 1 enclosure. The motor operator shall be mounted to the door bracket as shown on the drawings. All motor operators shall be U. L. Listed.

- B. The counter door shall include the Air Wave rolling door safety edge system as manufactured by **SDI** and shall include the following features.

1. The Air Wave safety edge shall be installed on the bottom bar of the door and shall automatically reverse the door if the device detects an obstruction in the downward travel of the door.
2. The Air Wave safety edge shall consist of a rubber boot attached below the bottom bar with an electrical switch secured to the back of the bottom bar. The Air Wave safety edge shall operate with airwave technology and shall not rely on pneumatic pressure or electrical strip contacts to operate properly. The Air Wave safety edge shall create an airwave that shall be detected and reverse the direction of the rolling door.
3. The operation of the Air Wave safety edge shall not be subject to interferences by temperature, barometric pressure, water infiltration, or cuts in the rubber boot.

### 3.0 EXECUTION

#### 3.1 Installation

- A. All **SDI** Rolling Steel Counter Doors shall be installed by an authorized **SDI** Distributor.

- 3.2 Warranty A. All **SDI** Rolling Steel Counter Doors shall be warranted for a period of twelve (12) months from the time of shipment against defects in workmanship and materials.