

MODEL FKC – Steel – Rolling Counter Door Crank Operation – Face of Wall Mount

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 25 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 on 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 with a double vinyl astragal on the bottom edge. 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 3/16" thick die cast aluminum.

- F. All gears shall be cast iron with teeth cast from machine cut patterns. The pinion gear shall not be less than a 3" pitch diameter. The gear ratio shall be designed for a maximum effort of not more than 30 pounds.

- G. 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.

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

2.2 Operation

- A. Doors shall be operated by means of a hand crank with a removable operating arm.

- 2.3 Locking Mechanisms A. The crank operated doors shall be secured by means of a concealed sliding bolt deadlock in the bottom bar operated by a [thumbturn] [cylinder lock].

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.