

## MODEL BKG –Crank Operated Rolling Grille Aluminum – Between Jamb Mounted

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### 1.0 GENERAL

#### 1.1 Summary

- A. All Aluminum Rolling Grilles shall be as 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 grille openings but not limited to structural or miscellaneous iron work, access panels, finish painting, electrical wiring, conduit and disconnect switches.

- 1.2 Quality Assurance A. All rolling grilles 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 grille.

### 2.0 PRODUCTS

#### 2.1 Materials

- A. The grille curtain shall be Pattern 5014-M92 constructed of 5/16" diameter horizontal aluminum rods on 2" centers with 1/8" aluminum hinged vertical connecting links (5/8" deep by 3-3/4" high) 9" on center. The finish on the rods and links shall be [mill] [204-R1 clear anodized] [bronze anodized].
- B. The bottom bar shall consist of an extruded aluminum tube measuring 4" high by 1-3/4" deep and shall two vinyl astragals on the bottom edge of the bar. The finish on the bottom bar shall be [mill] [204-R1 clear anodized] [bronze anodized].
- C. The guides shall be constructed of a continuous aluminum guide spacer connected to 1-1/2" by 2-1/2" by 1/8" thick continuous extruded aluminum guide section. Continuous nylon wear strips shall be inserted on both sides of the guide to eliminate metal-to-metal contact. The aluminum guide spacer and the aluminum guide shall be mill finish.
- D. The brackets shall be constructed of steel not less than 1/4" thick. The finish on the brackets shall be one (1) coat of aluminum prime paint.
- E. 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.
- F. The barrel shall be steel tubing of not less than 6" 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 springs shall be adjusted by means of an exterior wheel. The finish on the barrel shall be one (1) coat of bronze rust-inhibiting paint.
- G. The hood shall be fabricated from .040 aluminum sheet and shall be formed to fit the curvature of the brackets. The finish on the hood shall be [mill] [204-R1 clear anodized] [bronze anodized].

- 2.2 Operation A. Crank operated grilles shall open and close utilizing a [guide mounted crank box] [removable awning-type handle] through shafting and precision cast iron reduction gears. This type of operation should not be used on grilles over 25 feet wide or 9 feet high.

#### 2.3 Locking Mechanisms

- A. Crank operated grilles shall be secured by means of a cylinder lock in the bottom bar.

### 3.0 EXECUTION

#### 3.1 Installation

- A. All **SDI** Aluminum Rolling Grilles shall be installed by an authorized **SDI** Distributor.

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