



Part 1 General

1.01 General

- A.** Supply and install where indicated roll up security grille model **“CRS Compact Shutter Grille”** as manufactured by **Commercial Repairs & Sales LLC.**
Telephone 800-345-9043 Fax 813-342-7928
E-Mail service@commercialrepairs.com

1.02 Exclusions

- A.** Work not included in this section. Preparation of the opening, miscellaneous trim and finish painting.

1.03 Submittals

- A.** Submittals (shop drawings, installation instructions, operation and maintenance manuals) shall be in accordance with general instructions.

Part 2 Product

2.01 Model Type

- A.** **“Compact Shutter Grille”** by **Commercial Repairs & Sales LLC.**

2.02 Curtain

- A.** The grille curtain is comprised of singled wall aluminum slats, curtain punched throughout with 5” or 11” wide X 1.3” high punches with 1” spacing between. Spacing can be “spread” if more solid coverage is required. End retainers on alternate slats.
- B.** Bottom Bar Slat houses double throw locking mechanism.
- C.** Finish on curtain is aluminum mill finish.

2.03 Locking

- A. Bottom bar shall house a double activating deadbolt lock with standard shutter keyed cylinder lock, standard mortise cylinders are available if required.

2.04 Guides

- A. Extruded aluminum profile 3.0" x .825" with inside mounting chamber to conceal mounting hardware. Felt pile runners on both sides to prevent metal on metal contact.
- B. Finish on guides: (white) (bronze)

2.05 Housing

- A. Two piece .040 aluminum sheet to form a solid enclosure for pipe shaft and grille curtain. Housing is comprised of a fixed top and back section and a removable front and bottom section
- B. End Plates: Cast aluminum end brackets to support pipe shaft and aluminum housing.
- C. Sizes: Housing and End Plates are available in (8") (10") (12") sizes as required for height of shutter grille.
- D. Finish: Housing and End Plates are available in (white) (bronze)

2.06 Shaft Assembly

- A. Steel pipe shaft capable of supporting curtain load with maximum deflection of 0.035 inches per foot of width
- B. Spring Balance by heat treated helical torsion spring assembly designed for correct balance of shutter grille. Maximum effort will not exceed 25 lbs. Spring tension is preset at factory.
- C: All motor operated units to have internal type tubular motors, remote controlled available.

Part 3 Installation

3.01 Inspection

- A. Verify that any necessary preparation work has been completed by other trades.
- B. Verify all dimensions of opening prior to installation.

3.02 Installation

- A. Install grille and equipment with necessary hardware, anchors, inserts and supports.
- B. Install as per manufacturers installation instructions.

3.03 Cleaning

- A. Clean any surfaces soiled by work as recommended
- B. Remove any and all materials and debris from installation site

3.04 Demonstration

- A. Demonstrate proper operation to Owner or Representative
- B. Instruct on maintenance procedures

END OF SECTION