

## SECTION 08 33 00

### COILING DOORS AND GRILLES

#### PART 1 GENERAL

##### 1.01 QUALITY ASSURANCE

- A. Exterior doors shall be designed and reinforced to withstand a minimum wind loading pressure of 20psf, or as required by the applicable building code if more stringent.
- B. Doors and grilles are designed to operate a minimum of 20,000 cycles.
- C. Fire doors shall be labelled or certified by Underwriters Laboratories, Warnock Hersey or Factory Mutual for the hourly rating, wall construction and size allowed by the listing. Fire doors not meeting label/listing listing requirements shall be certified by the manufacturer and approved by the Denver Fire Department prior to ordering and its installation.

#### PART 2 PRODUCTS

##### 2.01 MANUFACTURERS:

- A. Provide doors and grilles as manufactured by one of the following:
  - 1. The Cookson Company
  - 2. Cornell Iron Works
  - 3. Overhead Door Corp.
  - 4. Raynor

##### 2.02 MATERIALS

- A. Finishes for doors:
  - 1. Baked on enamel
  - 2. Hot dipped galvanized
- B. Finishes for grilles:
  - 1. Natural mill finish
  - 2. Clear anodized

##### 2.03 FABRICATION

- A. Fabricate fire-rated doors to comply with current NFPA and UL Standards.
- B. Curtain: For exterior doors – Polyurethane foam-3/4 inch thick shall be used for insulated doors.

##### 2.04 OPERATION

- A. Operation shall be either (push-up) (chain) (crank) (motor) doors and grilles which will open and close with a maximum of 30 pounds of effort for manual operated doors. All motorized doors shall have a governor to control the downward speed of the door. The door shall have an average closing speed of not less than six (6) inches per second and not more than twenty-four (24) inches per second as indicated in NFPA Bulletin 80.
- B. Fire doors shall be motorized and have a governor to control the downward speed of the door, automatically close when fire alarms are triggered, and have an automatic reset. The door shall have an average closing speed of not less than six (6) inches per second and not more than twenty-four (24) inches per second as indicated in NFPA Bulletin 80.
- C. Motor operated doors and grilles shall be powered by a motor size as required to operate the door and grille. The motor shall be controlled by a wall mounted 3-button push button station. Safety edge to reverse the descent of the door when contacting an obstruction is a requirement. Manual operation shall be possible when power is not available.

**2.05 LOCKING MECHANISMS**

- A. Provide padlocks when chain operation is used.

**PART 3 EXECUTION**

**3.01 INSTALLATION**

- A. All doors and grilles are to be installed by an authorized representative in accordance with manufacturer's installation instructions.
- B. All fire doors shall be installed in accordance with NFPA-80

**3.02 TESTING**

- A. All fire-rated doors shall be drop tested and witnessed by DPS and Denver Fire Department for proper operation, automatic reset and full closure.

**END OF SECTION 08 33 00**