



## FIRECURTAIN™ STANDARD

### ACCEPTABLE MANUFACTURER

Rolling counter fire shutters shall be FireCurtain STANDARD as manufactured by Raynor of Dixon, Illinois.

### OPERATION

- A. Operation Type: Rolling counter fire shutters shall be operated by (select from list below):
1. Push-up: as normally-provided (not recommended for rolling counter fire shutter over 10' (3048 mm) wide and/or 7' (2134 mm) high, counter top restriction should be considered).
  2. Hand Crank: as normally-provided by means of a gear reduction hand crank, for rolling counter fire shutter over 10' (3048 mm) wide and/or 7' (2134 mm) high.
  3. Tube Motor: as optionally-provided by means of a Raynor FireEclipse™ tube motor type electric operator. Tube motor shall be concealed inside the barrel assembly and bracket cover.
- B. Mounting:
1. Face-Mount: as normally-provided and fastened to the face of the wall opening.
  2. Between-Jamb Mounting: as optionally-provided and fastened between the jambs of the wall opening.
- C. Integral Frame: Rolling counter fire shutter may be provided with an integral frame, with the fire shutter factory pre-installed in a completed frame assembly (select from list below or delete this section if not applicable):
1. Painted Slip-in Frame: as normally-provided, typical for use with a pre-existing finished opening in a wall.
  2. Painted Build-in Frame: as optionally-provided, for use with masonry block wall construction.

### FIRE RATING

- A. Rating: Rolling counter fire shutter doors shall achieve a rating of (select from list below):
1. 3-hour rating:
    - a. Factory Mutual (FM)
    - b. Underwriters Laboratory (UL)
    - c. Canadian Underwriters Laboratory (C-UL)
    - d. California State Fire Marshal (CSFM)
    - e. City Of New York Material and Equipment Acceptance (MEA)
- B. Certifications: Rolling counter fire shutters shall be provided with (select from list below):
1. Factory Mutual Listing
  2. UL Classified
  3. C-UL Classified
  4. CSFM Listing
  5. MEA Listing

### CURTAIN

- A. Material: The curtain shall consist of 22 gauge (.030 minimum steel thickness) interlocking steel slats roll-formed from commercial quality hot-dipped galvanized (G-90) steel per ASTM A-653.
- B. Slat Type: The rolling counter fire shutter curtain shall be comprised of interlocking, flat type steel slats.
- C. Finish/Color: The curtain shall be finished in (select from list below):
1. Gray: as normally-provided, with one coat white epoxy primer and one top coat of gray polyester paint.
  2. ArmorBrite™ Powdercoat: as optionally-provided from manufacturer's selection of 187 standard colors.
- D. Endlocks: Lateral movement of the slats to be contained by means of zinc-plated stamped steel endlocks fastened to the slat.
- E. Bottom Bar and Seal: Bottom bar shall be roll-formed painted tubular steel. The bottom bar shall include ¼" (6.3 mm) thick protective strip to cushion impact of bottom bar on countertop.

### GUIDES

- A. Guide Assemblies: Guides shall consist of 13 gauge (.086 minimum steel thickness) steel, formed from galvanized steel and finished to match the curtain.
- B. Jamb Construction: Rolling counter fire shutter shall be mounted to (select from list below):
1. Steel Jambs: as normally-provided, and supplied with self-tapping fastener.
  2. Masonry Jambs: as optionally-provided, and supplied with anchor bolt fasteners.
  3. Non-masonry Jambs: as optionally-provided for jambs consisting of drywall or plaster (fasteners included).



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### COUNTERBALANCE SYSTEM

- A. Headplates: Mounting brackets shall be made from 10 gauge galvanized steel plate and attached to the wall and guide.
- B. Barrel: The barrel shall be made from a minimum 4 ½" (114.3 mm) O.D. x .120" (3.1 mm) wall structural steel pipe. Deflection of pipe under full load shall not exceed .03" (.8 mm) per foot of span.
- C. Counterbalance
  - 1. The curtain shall be counterbalanced by means oil-tempered, helical torsion springs, grease packed and mounted on a continuous steel torsion shaft.
  - 2. Tube Motor Operation (see Operation Type).

### ENCLOSURES

- A. Hood: Rolling counter fire shutter shall be furnished with a square hood enclosure comprised of 24 gauge steel finish-painted to match the curtain.
- B. Headplate Cover: Rolling counter fire shutter shall be furnished with an enclosure for the headplates, consisting of 24 gauge steel finish-painted to match the curtain.

### RELEASE SYSTEM

Descent Control: Rolling counter fire shutter shall be controlled by a centrifugal governor during automatic closing of the door.

- A. Release Type: Automatic closing of rolling counter fire shutter under fire conditions to be initiated by (select from list below):
  - 1. Fusible Links
  - 2. Thermal-Manual Links
  - 3. Electro-Thermal Manual Links with Junction Box
  - 4. Electro-Thermal Manual Links without Junction Box
  - 5. FireShield: (optional on FireEclipse™)
  - 6. Model XP
- B. Detection Type: Device used in conjunction with the release type to initiate the automatic closing of rolling counter fire shutter (select from list below or delete this section if not applicable).
  - 1. Ionization Smoke Detector
  - 2. Photoelectric with Heat Sensor Detector

### HARDWARE

- A. Lock: Rolling counter fire shutter may be provided with an optional lock (select from list below or delete this section if not applicable).
  - 1. Thumb Lock: as optionally-provided with a locking bar for use with push-up and hand crank operated doors.
  - 2. Cylinder Lock: as optionally-provided and available for use with push-up and hand crank operated doors.