



FIRECOIL™ OPTIMA

ACCEPTABLE MANUFACTURER

Rolling fire doors shall be FireCoil OPTIMA as manufactured by Raynor of Dixon, Illinois.

OPERATION

- A. Operation Type: Rolling fire doors shall be operated (select from list below):
1. Hand Chain: as normally-provided for service doors over 10' (3048 mm) wide and/or 7'- 4" (2235 mm) high.
 2. Hand Crank: as optionally-provided by means of a gear reduction hand crank.
 3. Motor: as optionally-provided by means of a Raynor PowerHoist jack-shaft type electric operator (specified separately).
- B. Mounting: Rolling fire door shall be (select from list below):
1. Face-Mount: as normally-provided and fastened to the face of the wall opening (see Curtain B) for guide attachment hardware options).
 2. Between-Jamb Mounting: as optionally-provided and fastened between the jambs of the wall opening (see Curtain B) for guide attachment hardware options.
- C. Drive Orientation: for hand-chain, hand-crank or motor operated fire doors, the drive shall be oriented (select from list below):
1. Left-hand: as normally-provided from the left-hand side, when facing the reference side of the door (side with counterbalance or hood exposed).
 2. Right-hand: as optionally-provided from the right-hand side, when facing the reference side of the door (side with counterbalance or hood exposed).

FIRE RATING

- A. Rating: Rolling fire doors shall achieve a rating of (select from list below):
1. 3-hour rating:
 - a. Factory Mutual (FM)
 2. 4-hour rating:
 - a. Underwriters Laboratory (UL)
 - b. Canadian Underwriters Laboratory (C-UL)
 - c. International Standards Organization (ISO)
 - d. British Standard (BS)
 - e. California State Fire Marshal (CSFM)
 - f. City Of New York Material and Equipment Acceptance (MEA)
- B. Certifications: Rolling fire doors shall be provided with (select from list below):
1. Factory Mutual Listing:
 2. UL Classified
 3. C-UL Classified
 4. ISO-3008 Listing
 5. BS 476 Listing
 6. CSFM Listing
 7. MEA Listing

CURTAIN

- A. Material: The curtain shall consist of 18 gauge (.047 minimum steel thickness) steel interlocking slats. Steel slats shall be roll-formed from commercial quality hot-dipped galvanized (G-90) steel per ASTM A-653.
- B. Slat Type: The curtain slat configuration shall consist of (select from list below):
1. Flat Slat: as normally-provided, suitable for all door sizes.
 2. Large Contour Slat: as optionally-provided, most suitable for doors over 12' [3658 mm] wide.
- C. Finish/Color: The curtain shall be finished with (select from list below):
1. Gray: as normally-provided, one coat white epoxy primer and one top coat of gray polyester paint.
 2. Tan: as optionally-provided, one coat white epoxy primer and one top coat of tan polyester paint (flat slat only).
 3. ArmorBrite™ Powdercoat: as optionally-provided from manufacturer's selection of 187 standard colors (please specify color).
- D. Endlocks: Lateral movement of the slats to be contained by means of zinc-plated malleable cast-iron endlocks fastened with two zinc plated steel rivets.
- E. Bottom Bar and Seal: Bottom bar shall be two structural steel angles, minimum 2" x 2" x 3/16" (51 mm x 51 mm x 4.8 mm). Bottom astragal shall be single-contact type (motor operation only). Bottom bar shall receive one coat of rust-inhibitive primer.



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GUIDES

- A. Guide Assemblies: Guide assemblies shall consist of three structural steel angles, minimum 3" x 2" x 3/16" (76 mm x 51 mm x 4.8 mm), and fitted with removable curtain stops. Steel guides shall receive one coat of rust inhibitive primer.
- B. Jamb Construction: Rolling fire door shall be mounted to (select from list below):
 - 1. Steel Jamb: as normally-provided, and supplied with self-tapping fastener.
 - 2. Masonry Jamb: as optionally-provided, and supplied with anchor bolt fasteners.
- C. Weather Seal: Rolling fire door may be provided with guide brush seal (delete this section if not applicable).

COUNTERBALANCE SYSTEM

- A. Headplates: Mounting brackets shall be made from ¼" steel plate and attached to the wall angle of the guide assembly with ½" (12.7 mm) diameter bolts. The inside of the drive bracket shall be fitted with a sealed ball bearing. Head plates shall receive one coat of rust-inhibitive primer.
- 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: The curtain shall be counterbalanced by means of (select from list below):
 - 1. Torsion Spring: as normally-provided, consisting of oil-tempered, helical torsion springs, grease packed and mounted on a continuous steel torsion shaft.

ENCLOSURES

- A. Hood: Rolling fire doors shall be furnished with a round hood enclosure.
- B. Headplate Cover: Rolling fire door shall be furnished with headplate covers comprised of 24 gauge steel and finish-painted to match the curtain.
- C. Flame Baffle: Rolling fire doors may be furnished with a flame baffle to prevent spread of fire (required on FM, ISO, BS listings) (delete this section if not applicable).

RELEASE SYSTEM

- A. Descent Control: Rolling Fire door operation mechanism shall be disengaged during automatic closing of the door. Descent of door under fire conditions shall be controlled by (select from list below):
 - 1. Mechanical Oscillating Governor:
 - 2. QuickTest™ Centrifugal Governor:
- B. Release Type: Automatic closing of rolling fire door under fire conditions to be initiated by (select from list below):
 - 1. Fusible Links
 - 2. Thermol-Manual Links
 - 3. Electro-Thermal Manual Links with Junction Box
 - 4. Electro-Thermal Manual Links without Junction Box
 - 5. Model XP
 - 6. Model XPBB
 - 7. Model AFCB
- C. Detection Type: Device used in conjunction with the release type to initiate the automatic closing of rolling fire door (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 fire doors shall be provided with an optional lock (select from list below or delete this section if not applicable).
 - 1. Lock Bar: as optionally-provided with a locking bar (padlock by others) for use with push-up, hand chain, and hand crank operated doors (motor operated doors will require an interlock switch with the locking bar).
 - 2. Hand Chain Lock: as optionally-provided for doors operated with hand chain (padlock by others).
 - 3. Cylinder Lock: as optionally-provided and available for use with push-up, hand chain, and hand crank operated doors (motor operated doors will require an interlock switch with the cylinder lock).