



**DURACOIL™**  
OPTIMA

#### ACCEPTABLE MANUFACTURER

Rolling service doors shall be DuraCoil as manufactured by Raynor of Dixon, Illinois.

#### OPERATION

- A. Operation Type: Rolling service doors shall be operated (select from list below):
1. Hand Chain: as normally-provided for service doors over 10' 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 BASIC jack-shaft type electric operator (specified separately).
- B. Mounting: Rolling service door shall be (select from list below):
1. Face-Mount: as normally-provided and fastened to the face of the wall opening (See Guides B) for guide attachment hardware options).
  2. Between-Jamb Mounting: as optionally-provided and fastened between the jambs of the wall opening ( See Guides B) for guide attachment hardware options).
- C. Drive Orientation: for hand-chain, hand-crank or motor operated service 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).

#### 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 Curved Slat: as optionally-provided, most suitable for doors over 12' [3658 mm] wide.
  3. Insulated Flat Slat: as optionally-provided, slat shall be filled with polyurethane insulation and fitted with a galvanized steel back cover.
- C. Insulation: / Back cover: Rolling service doors that feature insulated flat slats shall achieve an R-value insulation factor of 8.0 Insulated doors shall be fitted with galvanized steel back covers comprised of (select from list below or delete section if not applicable).
1. 24 Gauge Back Covers: as normally-provided, consisting of 24 gauge (.023 minimum steel thickness) steel.
  2. 22 Gauge Back Covers: as optionally-provided, consisting of 22 gauge (.030 minimum steel thickness) steel.
- D. Finish/Color: The curtain shall be finished in (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 and insulated flat slats only).
  3. ArmorBrite™ Powdercoat: as optionally-provided from manufacturer's selection of 187 standard colors (please specify colors).
- E. 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.
- F. Bottom Bar and Seal: Bottom bar shall be two roll-formed galvanized steel angles, minimum 1 ½" x 1 ½" x 1/8" (38.1 mm x 38.1 mm x 3.2 mm). Bottom astragal shall be single-contact type. Structural angle bottom bar shall receive one coat of rust-inhibitive primer.
- G. Windload: Doors shall be designed to withstand 20 pounds per square foot (87.64 kg/sq.m.) windload.
- E. Vision Panels: Rolling service door may be furnished with 4" x 1" (101.6 mm x 25.4 mm) plexiglass vision panels, 1/8" (3.2 mm) thick for flat and large curve slats and 5/8" (15.9 mm) for insulated flat slat with quantity and locations detailed on door elevation drawing (delete this section if not applicable).
- F. Curtain Wear Straps: Rolling service door may be furnished with polyester wear straps to discourage the curtain from premature wear resulting from coiling of the door (delete this section if not applicable).

#### 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 service door shall be mounted to (select from list below):
1. Steel Jambs: as normally-provided, and supplied with self-tapping fastener.
  2. Wood Jambs: as optionally-provided, and supplied with lag bolt fasteners.
  3. Masonry Jambs: as optionally-provided, and supplied with anchor bolt fasteners.
- C. Weather Seal: Rolling service door may be provided with guide brush seal or snap-on vinyl seal (delete this section if not applicable).



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#### COUNTERBALANCE SYSTEM

- A. Headplates: Mounting brackets shall be made from 3/16" (4.8 mm) steel plate and attached to the wall angle of the guide assembly with 1/2" (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 1/2" (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 torsion (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.
  - 2. Weight Counterbalance: as optionally-provided, for promoting high cycle life durability. (Note: not available with insulated flat slat type doors.)

#### ENCLOSURES

- A. Hood: Rolling service door may be furnished with a hood enclosure (select from list below):
  - 1. Round Hood: as normally-provided, round hood enclosure comprised of 24 gauge steel and finish-painted to match the curtain.
  - 2. Square Hood: as optionally-provided with a square hood comprised of 24 gauge steel and finish-painted to match the curtain.
  - 3. Exterior Shelter Hood: as optionally-provided for doors installed in exterior applications.
- B. Hood Baffle: Rolling service doors that are specified to include a hood may be furnished with a hood baffle with a rubber EPDM seal to inhibit air infiltration through hood cavity (delete this section if not applicable).

#### HARDWARE

- A. Lock: Rolling service door may 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 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 hand chain, and hand crank operated doors (motor operated doors will require an interlock switch with the cylinder lock).