



DURACOIL™
OPTIMA

ACCEPTABLE MANUFACTURER

Rolling service doors shall be DuraCoil OPTIMA 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 poly-isocyanurate foam board 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 6.24 and U-value of .160. 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).



DURACOIL™
OPTIMA

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).