



DURASHUTTER™ SELECT

ACCEPTABLE MANUFACTURER

Rolling counter shutters shall be DuraShutter SELECT as manufactured by Raynor of Dixon, Illinois.

OPERATION

- A. Operation Type: Rolling counter shutters shall be operated by (select from list below):
1. Push-up: as normally-provided (not recommended for shutter doors 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 shutter doors over 10' (3048 mm) wide and/or 7' (2134 mm) high.
 3. Tube Motor: as optionally-provided by means of a Raynor Eclipse™ tube motor type electric operator. Tube motor shall be concealed inside the barrel assembly and bracket cover.
 4. Jack-shaft Motor: as optionally-provided by means of a Raynor PowerHoist jack-shaft type electric operator (specified separately).
- 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 shutter may be provided with an integral frame, with the 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.
 3. Stainless Steel Slip-in Frame: as optionally provided, typical for use with a pre-existing finished opening in a wall.
 4. Stainless Steel Build-in Frame: as optionally-provided, for use with masonry block wall construction.

CURTAIN

- A. Material: The curtain shall consist of interlocking slats formed from (select from list below):
1. Aluminum: slats shall be extruded from .050 minimum thickness aluminum.
 2. Stainless steel: slats shall be roll-formed from 22 gauge (.030 minimum steel thickness) stainless steel.
- B. Slat Type: The rolling counter shutter shall be comprised of interlocking, flat type slats.
- C. Finish/Color: The curtain shall be finished in (select from list below):
1. Clear Anodized: as normally-provided for aluminum slat counter shutters.
 2. Bronze Anodized: as optionally-provided for aluminum slat counter shutters.
 3. Stainless Steel #4: as normally-provided for stainless steel slat counter shutters.
 4. ArmorBrite™ Powdercoat: as optionally-provided for aluminum slat counter shutters, from manufactures selection of 187 colors (please specify color).
- D. Endlocks: Lateral movement of the slats to be contained by means of zinc-plated stamped steel endlocks fastened to the slat (stainless steel slats only).
- E. Bottom Bar and Seal: Bottom bar shall be tubular type, with ¼" (6.3 mm) thick protective strip to cushion impact of bottom bar on counter top. Bottom bar material and finish shall match the shutter curtain.

GUIDES

- A. Guide Assemblies: Guide shall be provided in the same material and finish as the shutter curtain, and be fitted with removable curtain stop.
- B. Jamb Construction: Rolling counter shutter 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.
 4. Non-masonry Jambs: as optionally-provided for jambs consisting of drywall or plaster (fasteners not included).
- C. Wear Strips: Rolling counter shutter shall be furnished with wool pile wear strips inside the guides to discourage the curtain from premature wear and noise.

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)



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ENCLOSURES

- A. Hood: Rolling counter shutter shall be furnished with a square hood enclosure comprised of (select from list below):
1. Aluminum Hood: as normally-provided with aluminum curtains, comprised of .04 (1.02 mm) thick aluminum and finished to match the curtain.
 2. Stainless Steel Hood: as normally provided with stainless steel curtains, comprised of 24 gauge stainless steel.
- B. Headplate Cover: Rolling counter shutter shall be furnished with an enclosure for the headplates, in the same material and finish as the shutter curtain.

HARDWARE

- A. Lock: Rolling counter 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 (motor-operated doors will require an interlock switch with the locking bar).
 2. Cylinder Lock: as optionally-provided and available for use with push-up and hand crank operated doors (motor operated doors will require an interlock switch with the cylinder lock).