

PART 1 GENERAL

1.01 SUMMARY

- A. Model HDc Service Doors shall be manufactured by Lawrence Roll-Up Doors, Inc.

1.02 SYSTEM DESCRIPTION

- A. Doors shall be for use on openings to 20'-0" wide, 16'-0" high. Consult factory for availability of larger sizes.
B. Doors shall be intended for use in applications requiring resistance to corrosion.
C. Doors shall be designed for 20,000 [50,000] cycles usage.
D. Doors shall be designed to withstand a 20 PSF windload.

1.03 WARRANTY

- A. Doors shall be warranted against defects in workmanship and materials for two years from date of shipment, provided designed cycle life is not exceeded. Factory finishes are excluded from warranty.

NOTE: [Blue italics] indicates optional door components providing some – but potentially less – corrosion resistance than standard stainless steel components depending upon the corrosive environment in which the door will be installed.

PART 2 PRODUCTS

2.01 MATERIALS

- A. **Curtain** shall be assembled from interlocking Type 3 (2 1/2" x 3/4") flat slats, roll-formed from 22 gauge minimum T-304 stainless steel [.050" (16 gauge) aluminum] strip. Galvanized malleable iron [stainless steel] endlocks shall be riveted to ends of alternate slats with stainless steel rivets. When required to meet design windload, galvanized malleable iron windlocks shall be riveted to ends of slats with stainless steel rivets.
- B. **Bottom bar** shall be formed by two 2" x 2" x 1/8" minimum T-304 stainless steel angles bolted together [T-shape aluminum extrusion (4" wide base, 3/16" thick)] and attached to bottom of curtain. EPDM weatherstrip shall be provided on bottom of bottom bar.
- C. **Guides** shall be formed T-304 stainless [galvanized] steel U-channels sized to retain curtain, bolted to 3/16" minimum T-304 stainless [galvanized] steel wall angles, sized to support door. When windlocks are provided on curtain, U-channels shall have wind bars. Guides shall be assembled and attached to wall with 3/8" minimum bolts no more than 24" on center. Removable curtain stops shall be provided.
- D. **Barrel** shall be 6 5/8" minimum diameter galvanized steel pipe, sized to contain counterbalance assembly and support curtain with a maximum deflection of 0.03" per ft. of width. Counterbalance assembly shall consist of torsion spring(s) and fittings mounted to a continuous cold finished galvanized steel shaft. Grease packed sealed stainless steel bearings shall be used to support each end of counterbalance assembly. Spring tension shall be adjustable by galvanized cast iron adjusting wheel outside bracket.
- E. **Brackets** shall be 3/16" minimum T-304 stainless [galvanized] steel plates bolted to wall angles. Plates shall be sized to support curtain and barrel and provided with 1/8" flanges for hood attachment. Bracket on operator side shall be fitted with a grease packed sealed stainless steel bearing.
- F. **Hood** shall be formed from 24 gauge minimum T-304 stainless steel [.040" (18 gauge) aluminum] sheet with top and bottom reinforcements to reduce deflection. Intermediate support(s) shall be provided when necessary.
- G. **End caps** [optional] shall be formed from 24 gauge minimum T-304 stainless steel [.040" (18 gauge) aluminum] sheet and provided to conceal drive and tension side mechanisms.
- H. **Assembly bolts** shall be dacromet coated steel or stainless [zinc plated] steel.
NOTE: Mounting bolts are not provided, but are recommended to be stainless steel.
- I. **Operation** of doors shall be by Model SGHNX motor operator, NEMA 4X rated, UL Listed inline gear drive assembly, mounted horizontally in front of and parallel to door coil and not requiring additional clearance above top of coil, with wall mount 3-button open-close-stop control station requiring constant pressure to close.
NOTE: When momentary pressure close is required, or control is not within line of sight of the door, a monitored sensing edge on the bottom bar, or monitored reflective sensor on the guide, is required to reverse the door upon sensing an obstruction in the opening.

2.02 FINISHES

- A. Stainless steel slats and hood [end caps] shall have a brush finish. Stainless steel bottom bar, guides and brackets shall be mill finish. Galvanized steel components shall be bare. [Aluminum slats, bottom bar, hood [end caps] shall be clear anodized.] [Slats, bottom bar, guides, brackets and hood [end caps] shall have a TGIC polyester powder coat finish.]

PART 3 EXECUTION

3.01 INSTALLATION

- A. Doors shall be installed in accordance with Lawrence Roll-Up Doors, Inc. installation instructions.