

PART 1 GENERAL**1.01 SUMMARY**

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

1.02 SYSTEM DESCRIPTION

- A. Doors shall be designed for 10,000 cycles usage.
B. Doors shall be designed to withstand a 20 PSF windload.
C. Doors shall be for use on openings up to 16'-0" wide, 14'-0" high, 200 sq. ft.

1.03 WARRANTY

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

PART 2 PRODUCTS**2.01 MATERIALS**

- A. **Curtain** shall be assembled from interlocking Type C (3 1/4" x 9/16") curved slats, roll-formed from 24 gauge galvanized steel strip. Endlocks shall be riveted to ends of alternate slats.
- B. **Bottom bar** shall be a T-shape aluminum extrusion attached to bottom of curtain. Vinyl weatherstrip shall be provided on bottom of bottom bar.
- C. **Guides** shall be formed 12 gauge minimum steel channels, sized to retain curtain, bolted to 1/8" minimum steel wall angles, sized to support door. 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 4 1/2" minimum diameter 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 steel shaft. Grease packed sealed bearings shall be used to support each end of counterbalance assembly. Spring tension shall be adjustable by adjusting wheel outside bracket.
- E. **Brackets** shall be 1/8" minimum steel plates bolted to wall angles. Plates shall be sized to support curtain and barrel and provided with 1/8" flanges for hood attachment (when provided). Bracket on operator side shall be fitted with a grease packed sealed bearing.
- F. **Hood** shall be formed from 24 gauge galvanized steel sheet with top and bottom reinforcements to reduce deflection [option on all doors].
- G. **Operation** of doors shall be as follows:
PUSH-UP operated on doors to 12'-0" wide, 10'-0" high, 96 sq. ft
CHAIN HOIST operated with reduction sprockets on larger doors [option on push-up operated doors].
AWNING CRANK operated with removable handle on doors to 16'-0" wide, 10'-0" high, 150 sq. ft. [option on all doors].
MOTOR operated with 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 [option on all doors].
- H. **Locking** shall be by slide locks coil side on bottom bar of push-up, chain hoist and awning crank operated doors.
NOTE: Motor operators provide self-locking gear reduction - if slide locks are required on motor operated doors, a motor operator with an internal lock sensor, or guide mounted electrical interlocks, are required to prevent opening door with locks engaged.

2.02 FINISHES

- A. Galvanized steel slats [hood] shall have a baked-on primer and polyester top coat (tan color opposite coil side with off-white color coil side (colors may be reversed), or grey color both sides). Extruded aluminum bottom bar shall be clear anodized finish. Steel guides and brackets shall be shop painted with a black color rust-inhibiting primer.

PART 3 EXECUTION**3.01 INSTALLATION**

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

Mounting	Between-jamb mounting (includes filler angles) Under lintel mounting (includes fascia) Guides and brackets attached directly to steel tube supports (in lieu of wall angles) <i>NOTE: Tube supports are not to be considered structural building components</i>
Curtain	Heavier than standard gauge Type C slats (20 gauge maximum) Type F (2" x 9/16") flat slats (20 gauge maximum) Vision lites of single or multiple 4" x 1" cut-outs spaced 2" apart, covered with Plexiglas (available with Type F slats) Peep hole with grommited frame Fenestrated slats with single or multiple 4" x 1" cut-outs spaced 2" apart, open for ventilation (available with Type F slats) Louvered slats with single or multiple 3" long vents spaced 3" apart Ventilated slats perforated with 1/8" diameter holes on 3/16" staggered centers (available with Type C slats - 20 gauge) Intermediate grille section Wicket door, 3'-0" x 7'-0" door with standard Grade 2 lever lockset and steel frame, for pedestrian access through the curtain (available with a variety of other lockset and deadbolt types)
Bottom Bar	Two steel angles bolted together Extruded tubular aluminum Sensing edge to reverse closing of a motor operated door upon contact with an obstruction Sloping or irregular shaped bottom bar for non-level sill (24" maximum slope)
Guides	Vinyl guide weatherstrip (Type F slats recommended) Brush guide weatherstrip Extruded aluminum shapes with polyester wear strips on doors to 16'-0" wide, 10'-0" high, 120 sq. ft.
Barrel	Internal tension wheel (inside the bracket) on doors to 12'-0" wide, 8'-0" high with 24 or 22 gauge slats
Hood & Covers	Painted 24 gauge galvanized steel hood (<i>hood is not standard</i>) Vinyl baffle inside hood to reduce air flow between the hood and curtain when door is closed Brush header seal (field installed) Fascia to close area behind brackets when no wall is present End caps to enclose operating or tension brackets (recommended on doors mounted to the exterior of a building or when operating device is less than 8 feet above the floor) Motor cover (recommended on motor operators less than 8 feet above the floor or on the exterior of a building)
Operation	Through-wall operations (operable from opposite side of wall to which door is mounted) Cast iron reduction gears
Locking	Guide mounted pin lock with American 2000 lock Mortise cylinder or thumb turn activated double throw bolt (in tubular aluminum bottom bar) Master keying or special brand cylinders
Finishes	Galvanized steel bottom bar, guides and brackets Powder coated steel slats, bottom bar, guides and hood