

PART 1 GENERAL

1.01 SUMMARY

- A. Model CD Counter 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 for use on openings up to 20'-0" wide, 10'-0" high, 120 sq. ft. (*stainless steel doors are limited to 14 ft. wide*)

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 F (2 1/8" x 9/16") flat slats, roll-formed from 22 gauge galvanized steel or stainless steel, or 18 gauge (.040") aluminum strip. Endlocks shall be riveted to ends of alternate slats. Security locks shall be riveted to ends of every 6th slat on doors over 14'-0" wide.
- B. **Bottom bar** shall be formed by one 2" x 2" x 1/8" steel, stainless steel, or aluminum angle, attached to bottom of curtain. Vinyl seal on bottom of bottom bar shall be provided.
- C. **Guides** shall be aluminum extrusions fitted with polyester pile wear strips, sized to retain curtain and support door. Guides shall be assembled with 1/4" minimum bolts no more than 24" on center and attached to wall with 3/8" minimum bolts no more than 24" on center. Guides shall incorporate an integral system to allow for field adjustment of lock bar heights. 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 guides. 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 bearing.
- F. **Hood** shall be formed from 24 gauge galvanized steel or stainless steel, or 20 gauge (.032") aluminum sheet with top and bottom reinforcements to reduce deflection. Intermediate support shall be provided when necessary.
- G. **Operation** of doors shall be as follows:
PUSH-UP on steel and stainless steel doors to 12'-0" wide, 8'-0" high, 84 sq. ft. and aluminum doors to 14'-0" wide, 8'-0" high, 96 sq. ft.
AWNING CRANK with removable handle on larger doors [option on smaller doors].
MOTOR OPERATOR [option on all doors].
NOTE: For ease of operation, awning crank or motor operator is recommended on doors over 7'-0" high (or top of opening is more than 7'-0" above the floor) and operated regularly, or when doors are operated over a deep counter or other obstruction making push-up operation difficult.
- H. **Locking** shall be by slide locks coil side on bottom bar of push-up 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 a lock sensing system, or guide mounted electrical interlocks, are recommended to prevent opening door with locks engaged.

2.02 FINISHES

- A. Galvanized steel slats and hood shall have a baked-on primer and polyester top coat (tan color opposite coil side, off-white color coil side is typical – colors may be reversed). Steel bottom bar, guides and brackets shall be shop painted with a black color rust-inhibiting primer. Stainless steel slats, bottom bar, guides and hood shall have a brushed finish. Aluminum slats, bottom bar, guides and hood shall be clear anodized.

PART 3 EXECUTION

3.01 INSTALLATION

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

Usage	Designs for 25,000 cycles usage
Mounting	Between-jamb mounting (includes filler shapes) Under lintel mounting (includes fascia)
Frame Package	Stainless steel or powder coated galvanized steel trim (16 gauge) to provide finished enclosure surrounding door guides and coil Stainless steel sill, 1 5/8" thick (14 gauge)
Curtain	Heavier than standard gauge slats (available with steel slats only - 20 gauge maximum) Vision lites of single or multiple 4" x 1" cut-outs spaced 2" apart, covered with Plexiglas Peep hole with grommated frame Fenestrated slats with single or multiple 4" x 1" cut-outs spaced 2" apart, open for ventilation Louvered slats with single or multiple 3" long vents spaced 3" apart
Bottom Bar	Sensing edge to stop or reverse closing of a motor operated door upon contact with an obstruction Tubular shape bottom bar with cylinder locks
Guides	Steel or stainless steel formed shapes (12 gauge minimum – no wear strips) Brush guide weatherstrip Guide caps to close the bottom of the guides when no counter is present Mullions - fixed or removable - to provide a vertical separation for wide openings
Barrel	Internal tension wheel (inside the bracket) on doors to 16'-0" wide, 8'-0" high, 80 sq. ft.
Hood & Covers	Fascia to close area behind brackets when no wall is present Vinyl baffle inside hood to reduce air flow between the hood and curtain when the door is closed Brush seal, field installed on header End caps to enclose operating or tension brackets (recommended when bottom of coil is less than 8 feet above the floor and to protect mechanisms on doors mounted to the exterior of a building) 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)
Locking	Mortise cylinder or thumb turn activated double-throw bolt (in tubular bottom bar) Master keying or special brands of cylinders or cores
Finishes	Galvanized steel bottom bar, guides and brackets Powder coated slats, bottom bar, guides and hood Bronze or other color anodized aluminum slats, bottom bar, guides and hood
Counter Tops	Stainless steel sill in "T", "H", or rectangular shapes, 1 5/8" thick (14 gauge)