

PART 1 GENERAL

1.01 SUMMARY

A. Model CG Counter Grilles shall be manufactured by Lawrence Roll-Up Doors, Inc.

1.02 SYSTEM DESCRIPTION

A. Grilles shall be for use on service counters and other smaller openings up to 20'-0" wide, 8'-0" high, 100 sq. ft.

B. Grilles shall be designed for 10,000 cycles usage.

1.03 WARRANTY

A. Grilles 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 horizontal rods passing through vertical links flexibly connected with grommets. Curtain alignment shall be maintained by spacer tubes. Ends of rods shall be fitted with retaining rings. Curtain pattern shall be:
- CL9 [CL6] [CL4] compact straight link pattern. Rods shall be 5/16" aluminum on 2" vertical centers with aluminum spacer tubes on every 6th rod. Links shall be 2-hole, alternating 1/8" thick single links, on 9" [6"] [4 1/2"] horizontal centers. CL9 pattern shall provide approximately 83% open area through curtain.
 - HL9-SS [HL4-SS] heavy straight link pattern. Rods shall be 5/16" aluminum on 1 1/2" vertical centers with stainless steel spacer tubes on every rod. Stainless steel links shall be 2-hole, alternating 3/16" thick single links, on 9" [4 1/2"] horizontal centers. HL9-SS pattern shall provide approximately 76% open area through curtain. (optional on all grilles)
- B. **Bottom bar** shall be a rectangular aluminum extrusion attached to bottom of curtain to limit vertical and lateral deflection. Bottom bar shall be self-leveling to accommodate slopes up to 1/2". A bottom cover plate 2" [4"] wide shall be provided.
- C. **Guides** shall be aluminum extrusions fitted with polyester wear strips. 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" 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 3/16" 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 20 gauge (.032") aluminum [24 gauge stainless steel] sheet with top and bottom reinforcements to reduce deflection. Intermediate support shall be provided when necessary.
- G. **Operation** of grilles shall be:
- Push up on aluminum grilles to 14'-0" wide, and stainless steel grilles to 10'-0" wide.
 - Awning crank with removable handle on larger grilles (optional on push-up operated doors).
 - Model MGRL inline gear drive motor operator with integral lock sensor to prevent opening grille with locks engaged, UL Listed, mounted horizontally in front of and parallel to grille 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, NEMA 1 enclosures (optional on all doors).
 - Model STK tubular motor operator, UL Listed, concealed inside of barrel and not requiring additional clearance in front of coil, separate wall mount control panel, with wall mount 3-button open-close-stop control station requiring constant pressure to close, NEMA 1 enclosures (optional on all doors – eliminates the need for counterbalance assembly and spring tension adjustment).
- NOTE: When momentary pressure close is required, or control is not within line of sight of the grille, a monitored sensing edge on the bottom bar, or monitored reflective sensor on the guide, is required to reverse the grille upon sensing an obstruction in the opening.*
- NOTE: For ease of operation, awning crank or motor operator is recommended on grilles over 7'-0" high (or top of opening is more than 7'-0" above the floor) and operated regularly, or when grilles are operated over a deep counter or other obstruction making push-up operation difficult.*
- H. **Locking** shall be by a double throw-bolt enclosed in bottom bar that engages steel lock bars into bottom of each guide. Locking shall be activated by a single lever and secured by a guarded mortise thumb turn [mortise cylinder] on coil side or on opposite coil side.
- NOTE: Motor operators provide self-locking gear reduction – if slide locks are required on motor operated doors, a motor operator with internal lock sensor, or guide mounted electrical interlocks, are required to prevent opening door with locks engaged.*

2.02 FINISHES

A. Aluminum curtain shall be mill finish [clear anodized] [bronze anodized]. Aluminum bottom bar, guides and hood, shall be clear [bronze] anodized. Steel brackets and wall angles shall be shop painted with a black color rust-inhibiting primer. [Stainless steel curtain shall be 2B finish.] [Stainless steel hood shall have a brushed finish.]

PART 3 EXECUTION

3.01 INSTALLATION

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

Brackets [] denote an available option.

Lawrence Roll-Up Doors, Inc. reserves the right to change specifications without notice or obligation.

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