

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 designed for 10,000 cycles usage.
B. Grilles shall be for use on openings up to 20'-0" wide, 8'-0" high, 100 sq. ft. for typical service counter and small entry applications.

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 a compact straight link CL9 pattern, assembled from horizontal 5/16" diameter aluminum [stainless steel] rods on 2" vertical centers, passing through flexibly connected 5/8" wide vertical aluminum [stainless steel] 2-hole links on 9" horizontal centers. Vertical links shall be 1/8" thick single links assembled with grommets to form vertical chains. Curtain alignment shall be maintained by aluminum [stainless steel] spacer tubes placed between all links on every 6th rod. Ends of rods shall be fitted with retainer rings.
- 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" wide 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 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 as follows:
PUSH-UP operated to 14'-0" wide [10'-0" wide with stainless steel curtain]
AWNING CRANK operated with removable handle on larger grilles [option on push-up operated grilles].
MOTOR operated with UL Listed inline gear drive assembly, mounted horizontally in front of and parallel to grille coil, and not requiring additional clearance above top of coil [option on all grilles].
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 cylinder locks are required on motor operated grilles, a motor operator with internal lock sensor, or guide mounted electrical interlocks, are required to prevent opening grille with locks engaged.

2.02 FINISHES

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

Usage	Designs for 25,000 cycles usage
Mounting	Between-jamb mounting (includes filler shapes) Under lintel mounting (includes fascia)
Curtain	Compact straight link CL4 pattern with vertical links on 4 1/2" horizontal centers Compact straight link patterns with other vertical link spacings Stainless steel grille curtain
Bottom Bar	Vinyl bottom seal Sensing edge to reverse closing of a motor operated grille upon contact with an obstruction
Barrel	Internal tension wheel (inside the bracket) on aluminum grilles to 14' wide, 10' high, 120 sq. ft.
Hood & Covers	Fascia to close area behind brackets when no wall is present End caps to enclose operating or tension brackets (recommended on grilles 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) Stainless steel hood, fascia, end caps and motor cover
Operation	Through-wall operations (operable from opposite side of wall to which grille is mounted)
Locking	Mortise cylinder or thumb-turn on coil side <u>and</u> on opposite coil side Master keying or special brand cylinders
Finishes	Clear, bronze, black, or other color anodized aluminum curtain, bottom bar, guides and hood Powder coated bottom bar, guides and hood 2B finish on stainless steel curtain (as-rolled finish on rods), brushed finish stainless steel hood