



AG Grilles STANDARD SPECIFICATIONS

PART 1 GENERAL

1.01 SUMMARY

- A. AlumaTek™ Model AG 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 30'-0" wide, 14'-0" high, 300 sq. ft. for typical mall, storefront, and other retail and commercial applications. Consult factory for availability and specifications on larger openings.

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 straight link SL9 pattern, assembled from horizontal 5/16" diameter aluminum rods on 2" vertical centers, passing through flexibly connected 3/4" wide vertical aluminum 3-hole links on 9" horizontal centers. Vertical links shall be alternating 1/8" thick single links and 1/16" thick double links assembled with grommets to form vertical chains. Curtain alignment shall be maintained by aluminum spacer tubes placed between all links on every 10th 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 1 3/4" wide shall be provided.
- C. Guides shall be extruded aluminum channels, formed with return flanges to retain curtain, and fitted with polyester pile wear strips. Channels shall incorporate an integral system to allow for field adjustment of curtain stops and lock bar heights. Channels shall be bolted to 3/16" minimum structural steel wall angles. 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. 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 3/16" 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 minimum galvanized steel sheet with top and bottom reinforcements to reduce deflection [option on all grilles]. Intermediate support(s) shall be provided when necessary.
- G. Operation of grilles shall be as follows:
PUSH-UP on grilles to 14'-0" wide, 10'-0" high.
CHAIN HOIST with cast iron reduction gears [option on all grilles].
AWNING CRANK with removable handle on grilles to 20'-0" wide, 10'-0" high [option on all grilles].
MOTOR OPERATOR with in-line gear drive [option on all grilles].
NOTE : Wall-mounted egress handle to activate partial opening of a motor operated grille for emergency exit can be provided and may be required by local building codes.
- 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] coil side and mortise cylinder [mortise thumb turn] opposite coil side.
NOTE : Motor operators provide self-locking gear reduction - if cylinder locks are required on motor operated grilles, a motor operator with a lock sensing system is recommended to prevent opening grille with locks engaged.

2.02 FINISHES

- A. Aluminum curtain [hood] shall be mill finish [clear anodized] [bronze anodized] [color anodized]. Aluminum bottom bar and guides shall be clear anodized [bronze anodized] [color anodized]. Steel brackets and wall angles shall be shop painted with a black color rust-inhibiting primer. [Galvanized steel hood] shall be [bare] [pre-finished with baked-on primer and off-white or tan polyester top coat].

PART 3 EXECUTION

3.01 INSTALLATION

- A. Grilles shall be installed in accordance with Commercial doors Direct Guidelines



AG Grilles AVAILABLE OPTIONS

Mounting	Between-jamb mounting (includes filler angles) Under lintel mounting Guides and brackets attached directly to steel tube supports (in lieu of wall angles) <u>NOTE</u> : Tube supports are not to be considered structural building components
Curtain	Straight link SL-6 pattern with vertical links on 6" horizontal centers Straight link SL-4 pattern with vertical links on 4 1/2" horizontal centers Straight link patterns with other vertical link spacings
Bottom Bar	4" wide bottom cover plate Sensing edge to stop or reverse closing of a motor operated grille upon contact with an obstruction Sloping or irregular shaped bottom bar for non-level sill (24" maximum slope)
Barrel	Long-life springs (20,000 cycles usage design) Internal tension wheel (inside the bracket) on aluminum grilles to 14' wide, 10' high, 120 sq. ft.
Hood & Covers	24 gauge galvanized steel hood (hood is not standard) 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) Aluminum hood, fascia, end caps and motor cover
Operation	Emergency egress release to activate partial opening of motor operated grille for emergency exit (if grille is provided with locks, they must be unlocked prior to using egress release) <u>NOTE</u> : Model MGRL, MGRL-H or MGH motor operator is required for emergency egress Through-wall operations (operable from opposite side of wall to which grille is mounted)
Locking	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