AC Clear-Panel Rolling Closures
STANDARD SPECIFICATIONS

PART 1 GENERAL

1.01 SUMMARY

A. Model AC Clear-Panel Rolling Closures shall be manufactured by Lawrence Roll-Up Doors, Inc.

1.02 SYSTEM DESCRIPTION

A. Closures shall be for use on openings up to 28'-0" wide, 14'-0" high, 300 sq. ft. for typical mall, storefront, and other interior retail and commercial applications.
B. Closures shall be designed for 10,000 cycles usage.
C. Closures shall be designed with 67% clear area to allow visibility through the curtain.

1.03 WARRANTY

A. Closures 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 panels (4 1/16" x 7/16") fabricated from aluminum extrusions. Openings in panels (3 1/4" high x 31 3/4" max. width) shall be separated by extruded aluminum I-sections (4" wide, .090" thick) and filled with clear polycarbonate inserts (3/32" thick) retained by the panel frame and PVC glazing strips. Panel ends shall be secured by self-locking screws.
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" [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 steel wall angles [tube supports] with ¼" bolts no more than 24" on center. Guides shall be attached to wall with 3/8" minimum bolts no more than 24" on center. Removable curtain stops shall be provided.
D. **Barrel** shall be 6 5/8" 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 [tube supports]. 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 [20 gauge (.032") aluminum] sheet with top and bottom reinforcements to reduce deflection. Intermediate support(s) shall be provided when necessary. (optional on all closures)
G. **Operation** of closures shall be:
   - Push up on closures to 14'-0" wide, 10'-0" high, 120 sq. ft.
   - Chain hoist with cast iron reduction gears (optional on all closures).
   - Awning crank with removable handle (optional on all closures to 20'-0" wide, 10'-0" high).
   - Model MGRL inline gear drive motor operator with integral lock sensor to prevent opening closure with locks engaged, UL Listed, mounted horizontally in front of and parallel to closure 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 closures).

     NOTE: When momentary pressure close is required, or control is not within line of sight of the closure, a monitored sensing edge on the bottom bar, or monitored reflective sensor on the guide, is required to reverse the closure upon sensing an obstruction in the opening.
     NOTE: Wall-mounted egress handle to activate partial opening of a motor operated closure 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.

2.02 FINISHES

A. Aluminum curtain, bottom bar and guides shall be clear anodized [bronze anodized]. Steel brackets and wall angles shall be shop painted with a black color rust-inhibiting primer. [Galvanized steel hood shall have a baked-on primer and grey polyester top coat]. [Aluminum hood shall be clear anodized.]

PART 3 EXECUTION

3.01 INSTALLATION

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