

Aluminum Grille Door Specifications

1. General

1.1.Summary

A. Aluminum grilles excluding design, construction and preparation of openings; finish or field painting; access panels; electrical wiring, conduit, wire, fuses and disconnect switches

1.2.Performance

A. Usage: Aluminum grilles are designed to operate a minimum of 20,000 cycles¹

2. Products

2.1.Materials

- A. Manufacturer: R&S Manufacturing Model G____
- B. Mounting: Face of wall or between-jamb
- C. **Operation:** Push-up to 14' wide and 9' high, and chain hoist on larger sizes is standard. Awning crank, crank box, or motor operation are optional.
- D. **Curtain:** Alternating steel and aluminum rods spaced 1-1/2" apart horizontally, with aluminum tubes over steel rods spacing vertical aluminum links 9" apart. Bottom of curtain is reinforced by an extruded aluminum tubular footpiece.
- E. **Guides:** Extruded aluminum guides are bolted to structural steel wall angles. Guides are fitted with nylon pile wearstrips.
- F. **Brackets:** Steel plate brackets are bolted to wall angles to support curtain and barrel, and provide mounting for hood.
- **G. Barrel:** Minimum 6" diameter steel pipe houses torsion spring assembly and supports curtain with a maximum deflection of .03 inch per foot of width. Torsion springs are mounted on a continuous cold rolled steel shaft, adjustable by a torsion wheel outside one bracket.
- H. Locking: Slidebolt locks with push up or crank operation and chain lock with chain operation.

2.2.Finish

A. Aluminum curtain, footpiece, and guides are mill finish. Steel brackets receive one coat of rust inhibiting black primer.

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¹ Frequency requirements must specify for the door operator and all components a fixed number of cycles for an express period of time and include a sealed counter device. A cycle is defined as an action on the door from fully closed, to the fully opened, and returned to the fully closed position.



3. Execution

3.1.Installation

A. Counter doors are to be installed by an R&S authorized representative in accordance with R&S installation instructions.

Aluminum Grille Door Options

High Cycle Construction: Designs to provide up to 150,000 operating cycles or maximum possible in design.

Sloped Footpiece: A custom footpiece to match sloping or irregular sill conditions

Cylinder Locks: Lock cylinder mounted in tubular aluminum footpiece activate lock bolts into each guide

Inside Tension: Tension wheel that is on the inside of the bracket and covered by the hood

Tubular Motor Operator: Completely contained within the barrel for doors in limited usage applications

Finish: Mill finish may be upgraded to Clear or dark bronze anodized

Support Tubes: Square steel tubes attach to floor and structure above to provide mounting for grille

Emergency Egress System: Recessed pull handle in a flush mount enclosure mechanically disconnects motor operator to provide partial opening of grille for emergency exit

Hood: Formed from galvanized steel or aluminum sheet

Fixed Grille Panel: Grille Curtain in a supporting frame