



ALUMINUM DOOR & GRILLE COMBINATION

ARCHITECTURAL SPECIFICATIONS

Aluminum Door & Grille Combinations possess the structural integrity of the Aluminum Roll-Up Door while providing the visibility of the Aluminum Grille door. This combination allows us to produce a product that can be manufactured to fit openings of up to 70' in width, and to meet a diversity of commercial and residential requirements ranging from garage entrances to bank drive-ins.

With product quality in mind the aluminum grille part of the Aluminum Door & Grille Combinations is designed with solid aluminum bars running the full width of the opening. These are then connected with vertical aluminum links, with double-single-double configuration, kept in place by aluminum spacers resulting in a stronger more reliable door.

Operation can be manual, chain hoist, crank or motorized.

■ PART 1 GENERAL

1. Work Included

Aluminum Door & Grille Combinations will be designated as Model AR/AG__ as manufactured by Best Roll-Up Door, Inc.

- **Mounting:** The door can be face mounted between jambs of a prepared opening.

2. Related Work

Opening preparations, miscellaneous or structural steel, field painting or finish, access panels, electrical wires, wiring, switch connection, conduit will be handled by the appropriate trades.

■ PART 2 PRODUCT

1. Curtain

- **Curtain:** Grille part of the curtain construction consists of extruded aluminum bars of 5/16" diameter continuously placed horizontally with a spacing of 2", 1-1/2", or 1" on center. Aluminum spacer tubes shall be provided at least every 12" vertically. Double-single-double configured vertical aluminum links shall be provided every 9" horizontally. Aluminum Roll-Up Door part of the curtain construction consists of extruded aluminum in continuous lengths of anodized 6063-T6 grade, dual-faced configuration, interlocked to form curtains.

- **Gauge:** Aluminum slat thickness shall be no less than 16 gauge and no more than 8 gauge on each side of dual-faced slats.

- **Endlocks:** To accomplish slat alignment and serve as a wearing surface endlocks are fitted to each end of alternate slats.

- **Anodizing:** All aluminum parts are anodized. Mill finish and shiny bright-dip anodized finish is also available.

2. Bottom Track

Curtain is reinforced with an extruded 6063-T6 aluminum tube that can be further reinforced for wider openings.

3. Guide and Wall Angle Assembly

- **Guides/Wall Angles:** Extruded aluminum channels at both sides shall serve as guides. Wall angles shall be either aluminum or steel with minimum thickness of 1/8". Structural steel tubes can be used in lieu of wall angles. Guide weatherstripping on inside and outside shall be provided.

- **Depth of Guide:** To be of appropriate size to allow slat penetration and to restrict horizontal slat movement.

4. Bracket Plates

- **Bracket Plates:** To support the curtain and the counterbalance, the bracket Plates shall be provided with minimum thickness of 1/4".
- **Drive End Bracket Plate:** The bracket plate on the drive end is to be fitted with a sealed ball bearing.

5. Spring Counterbalance

- **Counterbalance:** Housed in a steel pipe, maximum deflection of 0.03" per foot of door width is achieved by having the appropriate diameter and wall thickness.
- **Springs:** Helical torsion with a 25% overload factor for ease of operation and are greased packed mounted on a cold rolled steel inner shaft.
- **Spring Tension:** Can be adjusted from outside of end bracket plate.

6. Hoods

- **Hoods:** To completely enclose curtain and counterbalance, hoods shall be provided from #24 U.S. Gauge galvanized steel.
- **Reinforcing:** Can be reinforced laterally to prevent sag.
- **Intermediate Hood Supports:** Provided where door width exceeds 16'.

7. Operation

Can be manual push-up, chain hoist, awning crank, or power operated.

8. Locking

- **Integral Gearing:** Power operator can provide additional locking for door.
- **Hand Chain Lock:** Consists of a locking bracket mounted on a guide angle.
- **Cylinder Lock:** System is installed in bottom track and can be key or thumb knob operated.

9. Finish

Aluminum surfaces are anodized and can be powder coated upon request.

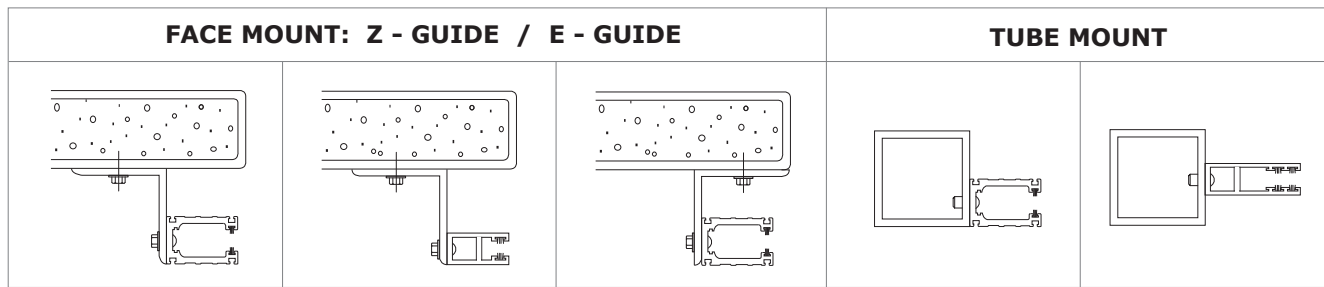
■ PART 3 EXECUTION

INSTALLATION: Installation to be completed by an authorized representative.

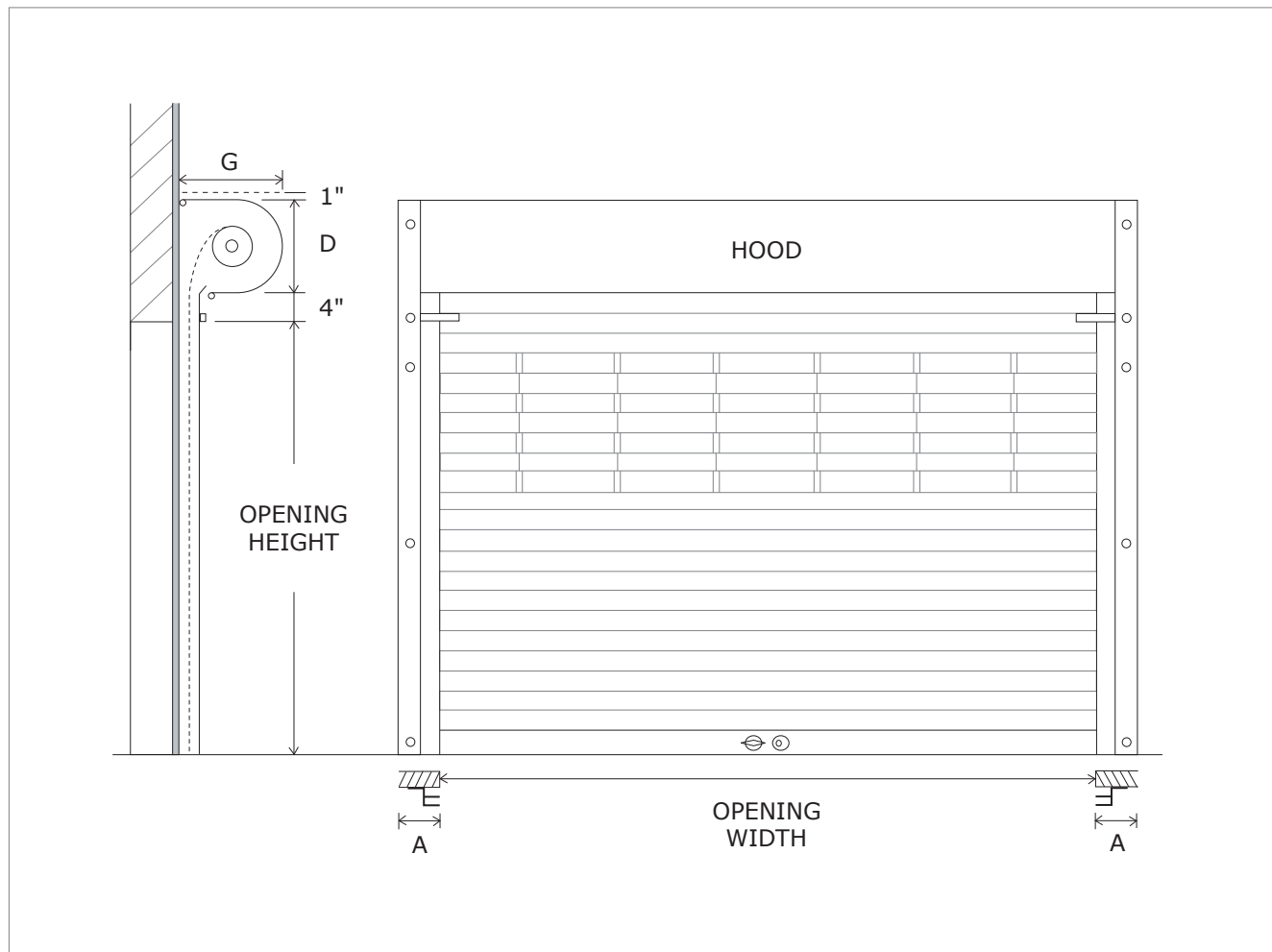
OPTIONS

- **Bottom Track:** It can be sloped to match the contour on finished floor or can be notched to match obstruction on finished floor.
- **Aluminum Surfaces:** Aluminum surfaces can be mill finish or anodized in black, bronze, gold, red, green, blue or white colors. Powder coating in a variety of colors is also available.
- **Locking:** Thumb turn/key cylinder locks and multi-cylinder locks are available.
- **Sensor Edge:** An electronic sensor edge can be added to power operated doors to reverse the door travel upon encountering an obstruction for safety.
- **High Cycle Springs:** Can be obtained for motorized doors that require 50,000 to 100,000 cycles. Very high cycles in excess of 100,000 are also available.
- **Bracket Plates:** Can be made from galvanized or stainless steel.
- **Guides/Wall Angles:** Can be galvanized steel or aluminum.
- **Pass Door:** Hollow metal pedestrian door within roll-up door can be obtained in a 3' x 7' or 3' x 6' 8" size. Hinged to roll-up door guide the hollow metal door frame will swing clear of opening when desired. Hardware includes heavy duty hinges and handicap-lever lock set.
- **Weatherstripping:** Weather-stripped guides form both inside and outside are provided as standard. Sill and hood weatherstripping is also available.

MOUNTING TYPES



FRONT VIEW



CLEARANCES

OPENING HEIGHT	A	D	G
All Heights	Consult Factory	Consult Factory	Consult Factory

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