



# ALUMINUM ROLL-UP DOOR

## ARCHITECTURAL SPECIFICATIONS

Aluminum Roll-Up Doors can be manufactured to fit openings of up to 70' in width, and to meet a diversity of commercial and residential application requirements. Doors can be obtained in an anodized or powder coated aluminum, and can be motor, chain hoist, crank or manually operated. Possible applications include, but are not limited to, aircraft hangers, crane-way openings, horizontal mountings, door/grille combinations, and small opening protection. Weatherstripped guides are standard to minimize rain infiltration, dust, wind and rodents. Additional weatherstripping for hood and sill is available.

### ■ PART 1. GENERAL

#### 1. Work Included

Aluminum Roll-Up Doors will be designated as Model AR\_\_\_as manufactured by Best Roll-Up Door, Inc.

- Mounting: The door can be face mounted or 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

- Slats: Extruded in continuous lengths of anodized 6063-T6 aluminum, interlocked to form curtains. Dual-faced configuration.

- 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 also 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. Windload

Aluminum Roll-Up Door construction is designed to withstand windload of up to 60 PSF in a fully closed position, and can be designed to withstand higher windload upon request.

#### 5. 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.



## 6. 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.

## 7. 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: Provide where door width exceeds 16'.

## 8. Operation

Operation can be manual push-up, chain hoist, waist high crank hoist, or power operated.

## 9. Locking

- Integral Gearing: Power operator can provide additional locking for door.
- Hand Chain Lock: Locking bracket can be provided.
- Cylinder Lock: System is installed in bottom track and can be key or thumb knob operated.

## 10. Finish

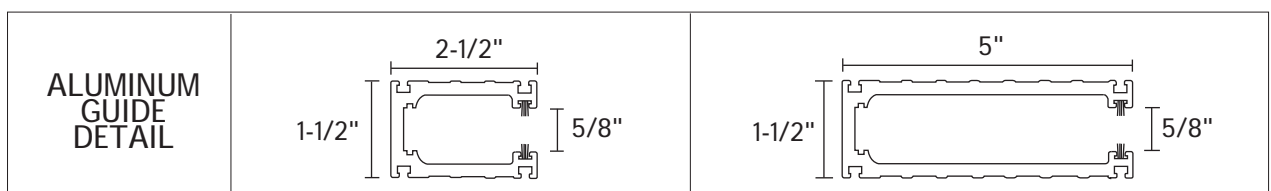
Aluminum surfaces are anodized and can be powder coated in various colors upon request.

## ■ PART 3 EXECUTION

**INSTALLATION:** Installation to be completed by an authorized representative.

### OPTIONS

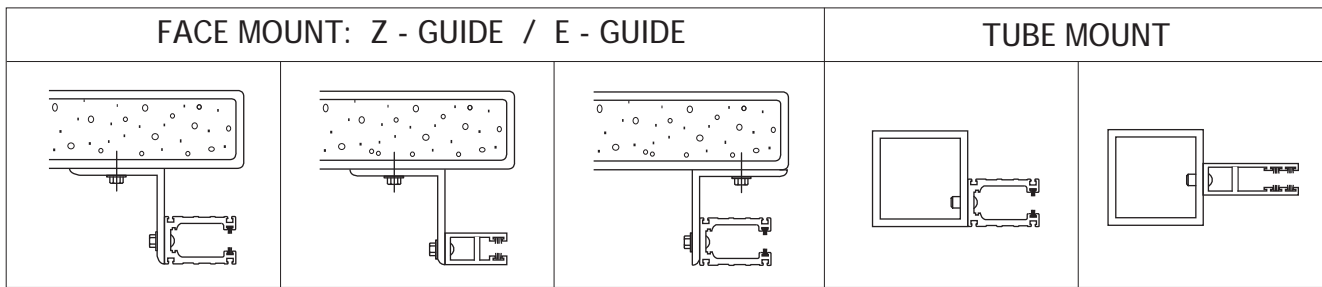
- Windload: Custom windload are available. Consult factory.
- Bottom Track: Can be aluminum angels or extruded aluminum. It can be sloped to match contour on finished floor or can be notched to match obstruction on finished floor.
- Sensor Edge: An electronic sensor edge can be added to power operated 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 life cycles. Very high cycles in excess of 100,000 are also available.
- Bracket Plates: Can be made from galvanized or stainless steel.
- Guides/Wall angels: Can be galvanized steel or aluminum.
- Powder Coat Finish: Powder coating in a wide range of colors is available. Consult factory.
- 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: Weatherstripped guides from both inside and outside are supplied with our Aluminum Roll-Up Door. Sill and hood weatherstripping is also available.



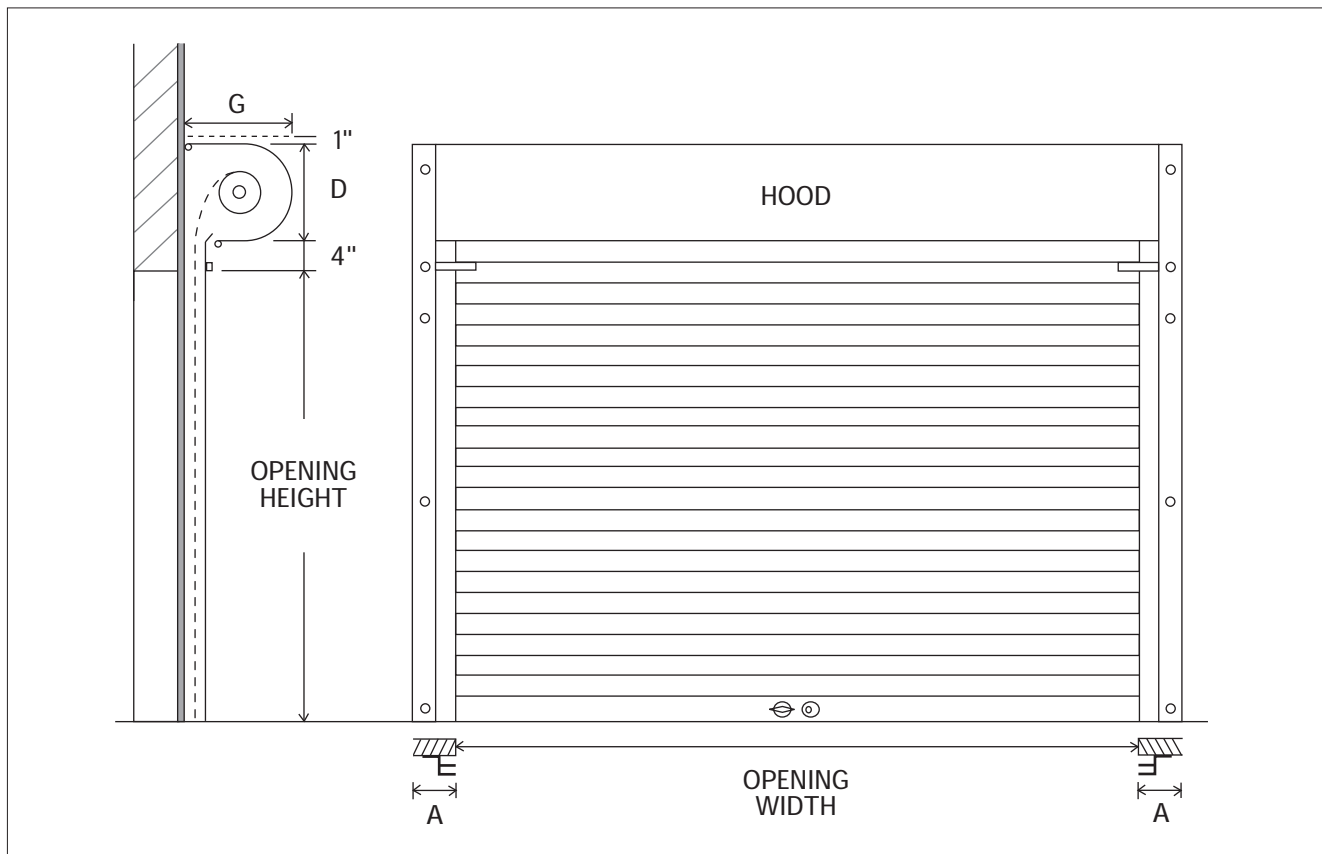


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## ■ MOUNTING TYPES



## ■ FRONT VIEW



## ■ CLEARANCES

OPENING HEIGHT	A	D	G
Less Than 11'	6"	14"	14"
11' to 16'	6"	17"	17"
16' to 21'	8"	20"	20"
Over 21'	Consult Factory	Consult Factory	Consult Factory

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