



STEEL ROLL-UP DOOR

ARCHITECTURAL SPECIFICATIONS

Steel Roll-Up Doors can be manufactured to fit openings of up to 40' in width, and to meet a diversity of commercial application requirements. Doors can be obtained in prime finish or galvanized steel, and can be motor, chain hoist, crank or manually operated. Possible applications include but are not limited to warehouses, loading docks, aircraft hangers, crane-way openings, and small opening protection. A combination with Aluminum Grille Door is also available for air ventilation, consult factory.

■ PART 1 GENERAL

1. Work Included

Steel Roll-Up Doors will be designated as Model S__## 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:** Formed in a cold-roll process in continuous lengths of galvanized steel interlocked to form curtains.

- **Gauge:** Available steel slat thicknesses are 18, 20, 22 and 24 gauge.

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

- **Galvanizing:** Zinc coated.

2. Bottom Track

Reinforcement of curtain is achieved by using a bottom track consisting of steel angles.

3. Guide and Wall Angle Assembly

- **Guides/Wall Angles:** Guides can be constructed using steel angles or a steel channel. Wall angles of structural steel shall have a minimum thickness of 1/8".

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

4. Windload

Steel Roll-Up Door construction is designed to withstand windloads of up to 20 PSF in a fully closed position, and can be designed to withstand higher windloads upon request.

5. Bracket Plates

- **Bracket Plates:** To support the curtain and the counterbalance mechanism, 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.
- **Spring Tension:** Can be adjusted from outside of end bracket plate.
- **Ball Bearing:** Sealed in order to minimize wear of pipe shaft rotating around inner shaft.

7. Hoods

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

8. Operation

Operation can be manual push-up, chain hoist, waist high crank hoist, or electric motor operation.

9. Locking

- **Slide Bolts:** On bottom track for manual push-up operated doors.
- **Integral Gearing:** Power operator can serve as an additional locking for the door.
- **Hand Chain Lock:** Consists of a locking bracket mounted on a guide angle.

10. Finish

Any un-galvanized surfaces will be coated with a rust inhibiting metallic primer, except bearings.

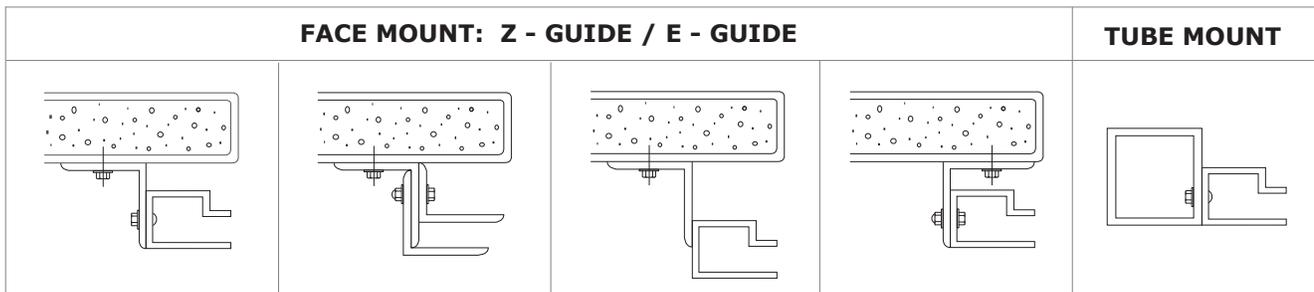
■ PART 3 EXECUTION

INSTALLATION: Installation to be completed by an authorized representative.

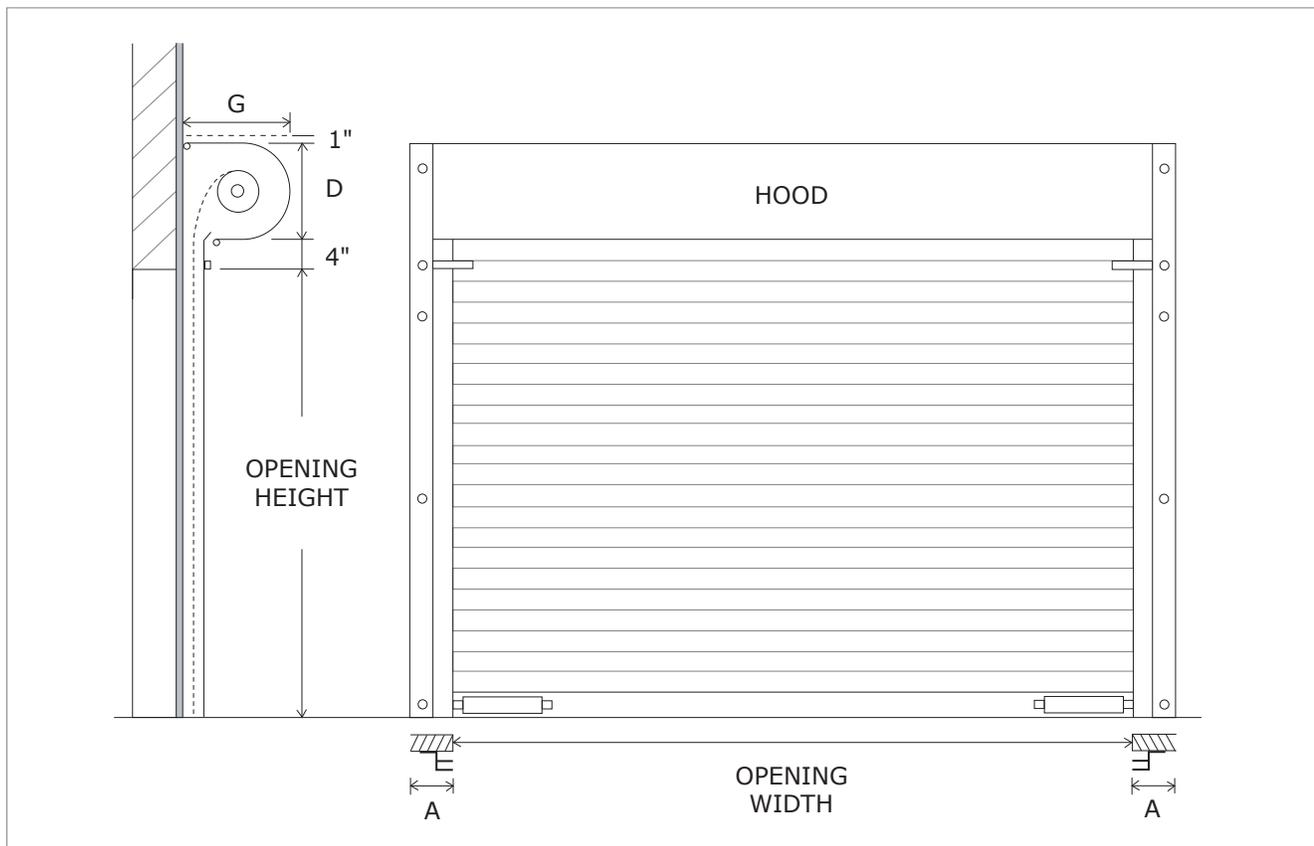
OPTIONS

- **Endlocks:** Continuous endlocks are available.
- **Windload:** Custom windloads are available.
- **Bottom Track:** Single steel angle is standard, and double steel angle bottom track is available. Extruded aluminum bottom track is available. Bottom track 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 cycles. Very high cycles in excess of 100,000 are also available.
- **Powder Coat Finish:** The door can be powder coated in variety of colors.
- **Pass Door:** Hollow metal pedestrian door within rolling door can be obtained in a 3' x 7' or 3' x 6' 8" size. Hinged to rolling door guide the hollow metal door frame will swing clear of opening when desired. Hardware includes heavy duty hinges and handicap-lever lock set.

■ MOUNTING TYPES



■ FRONT VIEW

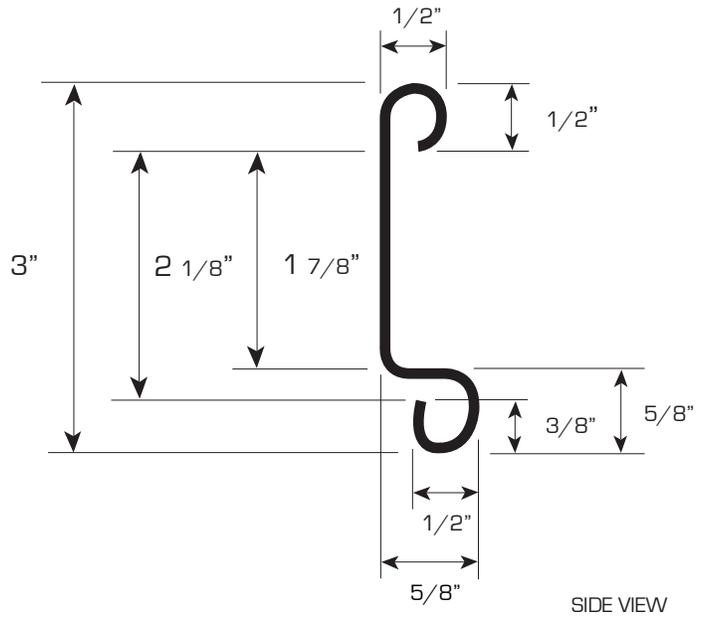
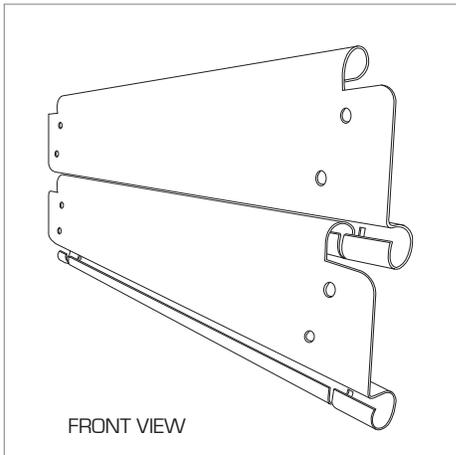


■ CLEARANCES

OPENING HEIGHT	A	D	G
Less Than 11'	5"	14"	14"
11' to 16'	6"	16"	16"
16' to 21'	8"	20"	20"
Over 21'	Consult Factory	Consult Factory	Consult Factory

CURTAIN TYPES

FLAT SLAT



CURVE SLAT

