

Rolling Insulated Door Specifications

PART 1 GENERAL

1.01 Furnish and install:

Rolling Insulated Doors as manufactured by Best Rolling Manufacturer. Complete with curtain, hood, guides, counter balance and options as specified. Not included is any structural or miscellaneous iron, masonry or wood preparation of door opening.

1.02 Opening preparation:

Miscellaneous or structural steel, access panels, finish or field painting, master keying cylinders, and (electrical wires, wiring, disconnect switches, conduit) are in the scope of the work of other sections or trades.

1.03 Mounting:

To be (Interior Face Mounted on a prepared opening) (Interior Mounted between jambs and under lintel in a prepared opening) (Exterior Mounted).

PART 2 PRODUCT

2.01 CURTAIN

A. CURTAIN shall be roll-formed interlocking flat (INSULATED) slat. The INSULATED slat has a flat interlocking 24 gauge back slat enclosing polystyrene foam to help reduce heat and sound transmission. Front slat shall be 24,22,20 or 18 gauge.

B. Endlocks: each end of alternate slats to be fitted with endlocks or windlocks to act as a wearing surface in the guides and to maintain slat alignment.

C. Windload: door construction designed to satisfy windload of up to 100 PSF in the fully closed position, higher windloads available.

D. Gauge: thickness of slat material to be as required by width of opening and windloading requirements.

E. Galvanizing: zinc coated in accordance with A.S.T.M. A-525.

F. Bottom Bar: curtain to be reinforced with a bottom bar consisting of one or two steel angles or extruded aluminum.

2.02 GUIDE AND WALL ANGLE

ASSEMBLY:

A. Guides shall be galvanized or primed and assembled roll-formed steel shapes or steel angles of 1/8" minimum thickness. Provide windlock bars as required to meet design windload. Guides are weather stripped with neoprene to provide positive seal floor to lintel.

B. Depth of Guide: to provide adequate slat penetration to satisfy specified windloading.

2.03 SPRING COUNTERBALANCE:

A. COUNTERBALANCE: housed in a steel pipe of proper dimension to restrict deflection to .03" per foot of door width.

B. SPRINGS: spring shall be helical torsion type designed to include an overload factor of 25 percent for maximum safety. The helical torsion spring assembly designed for proper balance of door to insure that effort to operate door will not exceed 35 pounds. Springs are to be grease packed.

C. SPRING TENSION: shall be adjusted by a wheel from the outside of the end brackets.

D. BALL BEARINGS: Permanently lubricated ball or roller bearing to be furnished at rotating support points.

2.04 BRACKET PLATES

A. BRACKET PLATES shall be of sufficient thickness to support counterbalance and curtain and to act as enclosures and support for the hood.

B. DRIVE END BRACKET PLATE: Permanently lubricated ball or roller bearing to be furnished at rotating support points.

2.05 HOODS

A. HOODS shall be #24 U.S. gauge steel, with air baffle formed to fit around the end brackets.

B. REINFORCING: to be laterally reinforced to prevent sag.

C. INTERMEDIATE HOOD SUPPORTS: Intermediate hood supports will be furnished when necessary to prevent sagging.

2.06 LOCKING

- A. **SLIDE BOLTS:** on bottom bar for manual push-up). Prepared for padlocks (padlocks provided by others)
- B. **HAND CHAIN LOCK:** locking bracket, mounted on guide angle for chain operated doors,
- C. **INTEGRAL GEARING:** of motor operator to provide locking for door.

2.07 FINISH

- A. **UNGALVANIZED SURFACES:** to consist of a shop coat of rust inhibiting metallic primer on exposed ferrous surfaces, except bearings.

2.08 OPERATION

- A. **OPERATION** shall be manual push-up, gear reduced chain hoist, gear reduced awning or wall crank, or gear reduced motor operation.

2.09 WEATHER-STRIPPING

- A. **WEATHER-STRIPPING** field applied vinyl guide seals, factory mounted neoprene hood baffle and bottom bar astragal.

PART 3 EXECUTION

3.01 INSTALLATION

- A. **INSTALLATION:** to be by **BEST ROLLING MANUFACTURER** authorized representative and in accordance with Best' standards and instructions.

PART 4 OPTIONAL FEATURES

- ▶ **SLATS** also available in (aluminum) (extruded aluminum flat slats) or (stainless steel). Gauges available 24,22,20 or 18 slat material.
- ▶ **WEATHER-STRIPPING** field applied vinyl guide seals, factory mounted neoprene hood baffle and bottom bar astragal.
- ▶ **VISION LITES/VENTILATION HOLES** shall consist of cutouts in the flat slat 6" x 1". Clear 1/8" lexan can be applied when vision lites are required.

- ▶ **LOCKING** can be by cylinder locks on the aluminum tubular bottom bar. BEST recommends motor operated doors to have an interlock system to disable the door from operating until unlocked.
- ▶ **PASS DOOR** Furnish 3-0" x 7-0" (914 mm x 2134 mm) hollow metal pedestrian door within rolling door. Hollow metal door frame is to be hinged to rolling door guide so that frame and metal door will swing clear of opening when desired. Hardware to include heavy duty hinges and lock set with cylinder lock.
- ▶ **PIGGY BACK DOOR** Rolling Door and Rolling Grille Combinations (Door/Grille Combo)
- ▶ **BARCKET PLATES** can be made of (galvanized steel).
- ▶ **GUIDES** angles can be galvanized steel, aluminum or stainless steel angles. Furnish guide weatherstripping on outside or both sides -inside and outside- to seal against flat slat.
- ▶ **HOODS** can be fabricated of galvanized steel, aluminum or stainless steel. Furnish neoprene
- ▶ **HOOD BAFFLE** in hood to minimize air infiltration.
- ▶ **MOTOR OPERATORS** shall be Model GH,H,MH, OR J.
- ▶ **HIGH CYCLE SPRINGS** (for motorized doors) design is to satisfy 50,000 cycles
- ▶ **SAFETY EDGE** shall be electric or pneumatic.
- ▶ **FINISHES** are available galvanized, primed, prepainted or stainless steel 2B or 4B finish. Aluminum shall be mill, anodized or prepainted finish.
- ▶ **POWDER COAT** provide a powder coat colored finish on both sides of the roll formed slat. Multiple colors are available. Please specify manufacture's number for custom colors.