

## BEST Insulated Rolling Doors

### +100 – 100 PSF. NEGATIVE – POSSITIVE WIND PRESSURE

APPROVED 30 feet wide by 30 feet high

MIAMI-DADE AND FLORIDA APPROVED

HIGH HURRICANE WIND ZONE

Insulated Rolling Doors with Metal Backing.

Increased Thermal Protection.

Fully Weather-Stripped.

R-Value of 8.0

15/16" Thick Polystyrene

Optional Polyurethane Insulation



In these times of rising energy costs, BEST recognizes the need for better protection against the elements. To help combat the problem, Best offers our IMB insulated rolling door design. BEST I-30 is designed specifically to provide energy efficiency, utilizing a heat resistant polystyrene insulation with a low thermal transmittance factor.

The metal on metal insulated slat has polystyrene insulation that is a minimum of 15/16" thick. Slat s are available in 18, and 16 gauge steel with a backing of 24, 22, or 20 gauge steel and also available in B.S. Aluminum. Polystyrene slat insulation offers maximum thermal protection. Insulated rolling doors can be push-up, hand-crank, hand-chain or [motor operated](#). All operators can be adapted to specific conditions.

#### APPLICATION USE

Insulated, Loading Dock Doors.

#### BOTTOM BARS

Brass, Copper, [Galvanized Standard](#), Aluminum, Stainless Steel, Hot Rolled Steel, Powder Coated, Weather Strip, Brush/Smoke Seal, Pneumatic Edge, Electric Edge, Wireless Edge, Double Angle, Tubular, Extruded "T", Slope Bar, Curb Closure Plate, Special Cut-Out, Slide Lock.

#### BRACKET PLATES

Brass, Copper, Hot Rolled A36, Stainless Steel, Galvanized, Powder Coated, Stop Lock Bearing, Internal Charge, Charge Wheel, Motor Prep., Chain Gearing, Thru-Wall Drop Plate, Round Bracket, Square Bracket, Hex Bracket, Single Gear Reducer, Double Gear Reducer.

#### COUNTERBALANCE ASSEMBLY

Hot Rolled A36, Galvanized, Stainless Steel, Torsion Spring, Life Cycle 17.5 to 400M, Welded Tabs, Taped Holes, Best-Tube Motor, Thru-Shaft Push-up, Inside Charge, Lock Shaft Collar, Keyed, Bolted.

#### CURTAIN OPTIONS

Brass, Copper, Galvanized, Stainless Steel, Aluminum, Galvalume, Prime Painted Galvanized, Powder Coated, Mail Slot, Vision Lite, Stamped Endlock, Cast Endlocks, Windlock Option, Brass Endlock, Teflon Endlock, Pass Door.

#### GUIDE MATERIAL

Brass, Copper, Hot Rolled A36, Stainless Steel, Aluminum, [Standard Galvanized Steel](#), Powder Coated, Structural Angles, Roll Formed Angles, Weather Stripping, Brush/Smoke Seal, Chain Lock Box, Electric Interlock, Heat Tracing, Teflon Lining, Tube Mounting, Pack Out Angle, Flat Plate Mount.

#### HOOD/COVER

Brass, Copper, Galvanized, Stainless Steel, Aluminum, Galvalume, Prime Painted, Powder Coated, Hood Baffle, Lintel Seal, Smoke Lintel Seal, Back Fascia, Tension Cover, Operator Cover, Round, Square, Hex, Side End Cap, Motor Cover, T.O.C. Cover, F.O.C. Cover, F.O.W. Cover.

#### MATERIAL STYLE

24 Gauge, 22 Gauge, 20 Gauge, 18 Gauge, Polystyrene Board, Polyurethane Foam.

#### OPERATION OF DOOR

Chain, Motor, Hand Crank, Best-Master, Best-Lift, Chain Gear Reducer, Euro-Drive.

#### OVERVIEW

#### DRAWING DETAILS

#### WRITE YOUR SPEC

#### CATALOG CUT SHEET

#### PHOTO GALLERY

#### OPERATOR

#### CAD FILES

#### Powder Coating

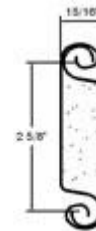


Our large selection of colors make our doors decorative and durable.

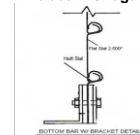
#### Download Colors

[Exterior powder coatings](#)  
[Super durable powder coatings](#)

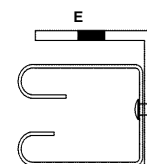
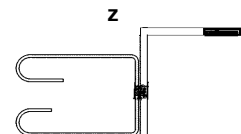
#### I-30 Curtain Detail



#### Bottom Bar Rubber Astragal



#### Galvanized Roll-From Guides



[Contact us today to find out which BEST solution is right for you!](#)

## Model (I-30) Insulated Rolling Service Doors

### 1.0 General

#### 1.1 Summary

A. All Commercial Rolling Service Doors provided by Best Rolling Door Manufacturer are solely manufactured by Best Rolling Door. All furnished materials manufactured by Best Rolling Door is limited to all curtains, bottom bars, guides, head plates, hoods, hoist mechanisms, and any custom designed features.

**All load bearing doors manufactured by Best Rolling Door shall comply with the Miami Dade County High Hurricane Zone (HHZ) building code and/or the Florida Building Code.**

#### 1.2 Quality Assurance

A. Exterior Commercial Rolling Service Doors shall be designed to withstand at least sixty five (-65) pounds per square foot wind load. Wind locks shall be installed on 24, 22, and 20 gauge doors subject to the exposure of any wind pressure.

B. All Rolling Service Doors are designed to operate for an average of (25) cycles per day with a maximum operation cycle (life of door) of 50,000 cycles.

C. All doors manufactured by Best Rolling Door shall have a coating of baked enamel, powder coat finish, and/or G-90 bare galvanized. All other finishes shall be shop painted with a rust and corrosion inhibiting primer.

### 2.0 Products

#### 2.1 Materials

*All doors manufactured by Best Rolling Door Manufacturer consisting of 24 through 16 gauge are Dade County Approved to a maximum width of 30 feet, and a maximum height of 30 feet with a minimum of (-65) psf. of pressure. All doors consisting of measurements over 30 feet in width and 30 feet in height shall be designed in accordance to the appropriate stress factor up to a material thickness of 16 gauge and shall be provided with a State of Florida Approval Rating.*

A. All door curtains provided by Best Rolling Door shall be fabricated with interlocking steel slats conforming to ASTM A-653. The slats are to be fabricated by Best Rolling Door Manufacturer and designated as No. 3F (measuring 3" high by .75" deep) consisting of a 22 gauge exterior slat and a 22 gauge interior slat separated by .75" of rigid insulation on Expandable Polystyrene which provides an R value (the doors insulation value) of no less than 7.6, calculated in accordance to the ASHRAE formula.

B. Best Rolling Door Manufacturer offers three standard finishes for the door curtains: Best Rolling baked on enamel, Best Powder Coating, and/or hot dipped G90 galvanized coating consistent with the following:

1. Galvanized G90 coating consistent with ASTM A-653.
2. Application of a bonderized coating for superior prime coat adhesion.
3. Factory supplied Powder Coating, applied to a minimum thickness of 3 mils. A color chart is supplied for the architects and/or contractors to determine the curtains colored finish.

C. Best Rolling Door Manufacturer also offers stainless steel slats and guides on all door models for a professional and clean finish while providing the best defense against corrosion from the elements.

D. The bottom bar shall consist of two 1/8" steel angles fastened together with a 1" diameter vinyl weather seal continuous along the bottom. The finish on the bottom bar shall be determined by the architect. **Factory standard is bare G90 galvanized or mill finish extruded aluminum.**

E. Guides manufactured by Best Rolling Door are to consist of 3, 3/16" **G-90 galvanized** steel angles welded or fastened together using 3/8" fasteners.

Roll form guides manufactured by Best Rolling Door are to consist of 3.23" in length and 2.34" in width **G90 galvanized** roll form steel channels.

All insulated doors manufactured by Best Rolling Door shall be furnished with an extruded vinyl snap on weather strip stretching the length of each guide. The wall angle portion shall be continuous and fastened to the surrounding structure with either minimum 1/2" fasteners or 5/8" spot welds, both 14" on center.

The finish of the curtain shall be selected upon the architect or contractors request.

F. All door brackets shall be constructed of steel material no less than 1/8" thick and shall be bolted to the wall angle with a minimum of two 1/2" fasteners. The finish on the brackets shall be selected by the architect. Factory standard shall be (2) coats of rust and corrosion inhibiting prime paint.

G. All gears are to be cast iron with machine cut teeth patterned. The pinion is not to have less than a 3" pitch diameter. The gear ration shall be designed and calibrated for a maximum effort not exceeding (30) pounds.

H. The barrel's construction is to be of steel tubing no less than 4" in diameter. Within in the barrel, oil tempered torsion springs shall be capable of correctly counter balancing the width and weight of the curtain. The barrel is to be designed to limit the maximum deflection to 0.03" per foot of opening width. The springs' tensions shall be adjusted by means of an exterior tension wheel. The standard factory finish on the barrel shall be one coat of bronze, rust and corrosion inhibiting prime paint.

I. The hood is to be fabricated from 24 gauge galvanized steel and roll pressed to fit the curvature of the head plate brackets. The hood is designed with a waterproof baffle to control air infiltration. Finish of the hood is to be determined by the architect.

#### 2.2 Operation

A. All Best Rolling Door Manufacturer doors come with (4) options for operation furnished upon request of the contractor or architect.

- **Push Up**
- **Chain Hoist**
- **Crank**
- **Motor**

#### 2.3 Locking Mechanisms

A. All inside mounted manual chain operated doors are to be secured using a lock on the chain hoist mechanism, slide locks on the bottom bar, and/or a cylinder lock on the bottom bar. All locking features are supplied upon the request of the architect.

B. All outside mounted manual chain operated doors are to be secured using a lock on the chain hoist mechanism, slide locks on the bottom bar, a cylinder lock on the bottom bar, and/or pin locks with American Locks. All locking features are supplied upon the request of the architect.

### 3.0 Execution

### **3.1 Warranty**

**A.** "We, Best Rolling Manufacturer, hereby warrant that all of the materials, as stated in the above referenced product specifications, shall be free from defects on both workmanship and material for a period of (2) years from the date of delivery. This warranty extends only to the direct purchaser (distributor, wholesaler, or contactor) from Best Rolling Manufacturer and is not transferable. We warrant to said purchaser to indemnify for loss due to defect in workmanship and material in our product, subject to the limitations stated herein. Said purchaser shall bear full liability under all consumer warranties they might extend. There are no warranties which extend beyond those stated herein. This warranty excludes and supersedes all other warranties expressed or implied, including implied warranties of merchantability and fitness, and is in lieu thereof. This warranty shall be null and void, and all claims arising here under, or by operation of law, shall be waived if the products designated in installation specifications and/or instructions as published by Best Rolling Manufacturer. All consequential damages are hereby excluded, and in no event shall the liability of Best Rolling Manufacturer exceed the invoice value as stated in the above referenced contract. This warranty does not cover damages due to negligence, abuse, acts of God, alien invasions or any other forces beyond our control."