

SPECIFICATION SECTION
08470

MANUFACTURER
INTERNATIONAL REVOLVING DOOR COMPANY
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1.00 DESCRIPTION OF WORK

1.01 Description of work

Provide complete revolving door assemblies, which have been fabricated, assembled and tested for proper operation at the factory. Include circular enclosure walls, ceiling, ceiling lights, locks, glass, emergency collapsing mechanism, oil bath speed control, wings with push bars, all as required for installation as shown and specified.

PROVIDE: International Revolving Door Company's Comet design Revolving Door.

2.00 MATERIALS

2.01 Stainless Steel

18-8, type 304, with minimum thickness .062 inch.

Finish

- A) #4 Fine-lined satin
- B) #6 Fine-lined satin
- C) #8 Mirror polished

2.02 Bronze

Bronze Alloy #280 (Muntz Metal) sheet, minimum thickness .062 inch.

Finish

- A) #4 Satin fine-lined, lacquered
- B) #4 Statuary fine-lined, lacquered
- C) #6 Satin fine-lined, lacquered
- D) #8 Mirror polished, lacquered

NOTE: It is generally recommended that Bronze Material be field refinished immediately after erection. Regular field maintenance is required on bronze material.

2.03 Aluminum

Extrusions and sheets shall be of alloy and temper appropriate for finish and color specified. Extrusions .125-inch minimum thickness; sheets .063-inch minimum thickness.

Finish

- A) Anodized - Any Standard Architectural Color Class I anodizing 1.2 mill deep
- B) Painted - Specify any Kynar 500 / Hylar 5000 Finish

3.00 HARDWARE

3.01 Emergency collapsing mechanism

Collapsing mechanism shall permit the wings to fold to emergency exit position allowing a minimum aggregate width of 36 inches. Pressure setting shall be capable of being adjusted from 60 pounds to a maximum setting of 220 pounds. Revolving door units shall be initially installed with pressure setting of 120 to 140 pounds.

The adjusting device shall be accessible without removal of wings, center shaft or discs. Pressure setting shall be preset and tested in the factory and shall only be adjusted in the field to meet the specific needs of the building.

3.02 Testing

All Revolving Doors must be pre-erected & tested in factory prior to shipment.

3.03 Free standing design (Optional)

Free Standing Design doors have a 1 5/8" structural steel square bar running from the sub-floor through the Canopy In each wall post and mullion.

3.04 Manual overhead speed control

The overhead speed control device shall engage at 10 rpm and limit the turning speed to 12 rpm, shall be 100-1 gear ratio and must be designed to prevent rapid acceleration. The mechanism shall provide smooth and effective braking action with brake shoes operating in an oil bath.

- A) Optional floor type speed control (Optional)
- B) Optional overhead roll-a-side (Optional)

3.06 Floor pivot

Must be of Teflon filled Acetyl or similar material, resilient, self-lubricating, maintenance free with replaceable snap-in bushing.

3.07 Weather-stripping

Weather strips shall be made of dual durometer extruded Santoprene and woven felt and installed in top rails, stiles and bottom rails; designed to properly engage the curved enclosure walls, revolving door ceiling and floor. Special adjustment feature will allow for three-eighths inch adjustment.

3.08 Ceiling lights (Optional)

Furnish manufacturer's standard ceiling lights with lamps and lamp fixtures. Electrical wiring and hookup by electrical contractor.

3.09 Hardware

Manufacturers 1" round pushbars. With surface locks using standard mortise cylinders. All hardware surfaces shall match door finish.

4.00 GLASS & GLAZING

4.01 Wing glass

Furnish glass and glazing in strict accordance with governing codes. International Revolving Door Company recommends one-half inch clear tempered for Comet wings. For curved enclosure walls select one of the following in coordination with design drawings:

4.02 Wall glass

If design requires a total of four lights of single bend glass per revolving door: use five-sixteenth inch clear laminated safety. If a total of two lights of single bend glass per revolving door use or seven-sixteenths inch or nine-sixteenths inch clear laminated safety.

NOTE: If double bend or triple bend glass is required, consult with factory for size limitations and location of placement of butt joints.

4.03 Ceiling glass

If ceiling glass is required use a minimum nine-sixteenths inch clear laminated safety.

5.00 FABRICATION

5.01 Aluminum

Fabricate revolving door individual assemblies using reinforced and welded joinery, with all members fitted to flush hairline joints.

5.02 Stainless Steel or Bronze

All members to be fabricated from stainless steel or bronze formed sheet. Reinforcement to be fabricated of stainless steel or bronze sections.

5.03 Joints

Fabricate revolving door individual assemblies using reinforced and face welded surface joinery, with all welds dressed flush and finish blended to match adjacent surfaces. Per American Welding Society standards.

5.04 Bending

Where bends in steel forming are required, all stretch lines and die marks shall be refinished to blend with adjacent surfaces. Door shall be fabricated with no visible glazing stops except those required for the wall bottom rail glazing molds.

5.05 Fasteners

No visible fasteners shall be used except those necessary for the application of manufacturer's hardware, and bottom wall rail glazing mold.

6.00 GUARANTEE

6.01 Guarantee

Manufacturer shall guarantee installation to be free from defects in materials and workmanship for a period of one year following initial installation date. The manual speed control shall be guaranteed for five years and shall be adjusted, repaired or replaced should it fail to perform in any respect to the specifications as outlined herein, at no additional cost to the owner.

6.02 Testing reports

Manufacturer shall provide test reports proving that they have tested and met the requirements of "ASHRAE" air infiltration requirements "90A" and "90.1" per the "ASTM E-283" testing parameters.

7.00 MAINTENANCE

7.01 Maintenance

Every three months, at least, fold wings and check operation. Use a clean, dry paintbrush to remove any accumulation of dirt from areas around the hold plunger and V-recess. Wipe off guide pins and pilot pin on hangers and wipe out grooves in disc with a slightly oiled cloth to ensure trouble free operation.