

**SPECIFICATION SECTION
08470**

INTERNATIONAL REVOLVING DOOR COMPANY SPECIFICATIONS

MANUFACTURER:

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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 Saturn Design Revolving Door.

2.00 MATERIALS

2.01 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:

Painted - Specify any Kynar Finish

3.00 HARDWARE

3.01 EMERGENCY COLLAPSING MECHANISM: Collapsing mechanism shall permit the wings to fold to emergency exit position. Pressure setting shall be capable of being adjusted from 60 pounds to a maximum setting of 180 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 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.
- 3.06 FLOOR PIVOT:** Must be of Teflon filled Acetal 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:** Furnish manufacturer's standard ceiling lights with lamps and lamp fixtures. Electrical wiring and hookup by electrical contractor. Lights are optional.
- 3.09 HARDWARE:** Manufacturers standard 3/8" x 2" pushbars. With surface locks using standard mortise cylinders. All hardware surfaces shall match door finish.

4.00 GLASS & GLAZING

- 4.01** Furnish glass and glazing in strict accordance with governing codes. International Steel Company recommends one-quarter inch thick clear tempered for Saturn, and one-half inch clear tempered for Comet wings. For curved enclosure walls select one of the following in coordination with design drawings:
- 4.02** If design requires a total of four lights of single bend glass per revolving door: use five-sixteenth 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** 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.
- 5.03** 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** Manufacturer shall guarantee installation to be free from defects in

materials and workmanship for a period of three years 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 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 Every three months, at least, fold wings and check operation. Use a clean, dry paint brush 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.