

AAADM

American Association of Automatic Door Manufacturers

AUTOMATIC REVOLVING DOOR

OWNER'S MANUAL

Distributed by:



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CAUTION

An Improperly Adjusted Door can cause injury and/or equipment damage.

Inspect door operation daily using safety checklist in Owner's Manual and at door.

Have door adjusted as described in Owner's Manual.

Safety devices should be in place and operational.

Have door inspected at least annually by an *AAADM* certified inspector.

In the following manual, the word:

Caution means that injury or property damage can result from failure to follow instructions.

Note is used to indicate important steps to be followed or important differences in equipment.

To Our Customers

The purpose of this manual is to familiarize you with your revolving door system. It is essential that you "know your system" and that you recognize the importance of maintaining your door system in compliance with the industry standards for safety.

It is your responsibility, as owner or caretaker of the equipment, to inspect the operation of your door system on a daily basis to ensure that it is safe for use by your invitees, customers, or employees.

This manual will provide you with a description of the operation and maintenance requirements of your door. It also provides the instructions for the *Daily Safety Check*.

Should the door fail to operate as prescribed in the *Daily Safety Check*, or at any other time for any other reason, **do not attempt to repair or adjust the door**. Call an AAADM Certified service technician. These technicians are trained to service your door in accordance with applicable industry safety standards.

Service Availability

Revolving door products are distributed through a nationwide network of authorized automatic door suppliers for sales, installation, and service.

Should you need service on your door system, consult the respective door manufacturer or its authorized representative.

Compliance with Safety Standards

Your door system was designed to the latest operating and safety standards. In order to ensure the continued safe operation of your door, it is important that:

- Your door system be maintained in compliance with the standards of the industry.
- Proper decals and labels be applied and maintained on your doors. If decals are removed or cannot be read, request labels to be replaced when calling for service.
- All doors should be checked by an AAADM certified inspector at least annually.

AAADM, the American Association of Automatic Door Manufacturers, has established a program to certify automatic door inspectors. Through this program, the inspectors are trained to check your door systems for compliance with the appropriate version of the American National Standards Institute standard ANSI/BHMA A156.27.

What You Should Know

Be sure that an automatic door supplier has provided the following for each door:

1. Instruction on how to conduct the *Daily Safety Check* * (by walk-through example).
2. Location of function switches and instruction in their use.
3. Circuit breaker or main power disconnect location for each door system.
4. Number to call for service or questions about your system if you are uncertain of any condition or situation.
5. AAADM inspection form or a work order signed by an AAADM certified inspector.
6. A completed Annual Compliance Inspection label, located at the bottom of the Safety Information label affixed to the door.
7. Warranty information for each door.

Note: If there are any problems, or if you are unsure about the safe performance of the door, **discontinue door operation immediately** and secure the door in a safe manner. Call your authorized automatic door professional for repairs.

* **Note:** AAADM Daily Safety Check videos are available. Contact an automatic door supplier or AAADM.

Automatic revolving doors are installed in a variety of configurations.

- Two-wing
- Three-wing
- Four-wing
- Access Controlled doors.
- Manual
- Manual with automatic Home positioning.

Based on the configuration, they may require a Safety Zone to cover the area in or near the door travel.

Daily Safety Check (All figures and diagrams are for purposes of illustration only. See Figure 1 for Terminology and Components and Figure 2 for Sensor Zones and Clearances.)

Perform the following safety checks *daily* on each automatic revolving door to ensure your customers' safety and your own protection. Perform these tests while traffic is restricted from all detection and sensing zones.

Sensor Activation

1. Check activating sensors by walking toward the door opening at a moderate speed. The door should start rotating when you are about three to four feet from the door, should rotate smoothly, and stop without impact. Repeat on other side of opening. Move slowly through the door opening.
2. Step out of the sensor zone. Based on the door configuration, the door should stop rotating or slow within a few revolutions. Some doors may be set for continuous rotation.
3. Observe traffic routing to the door. Plan traffic routing so persons will approach the door straight on and not from an angle.

Presence Sensors

1. Step into the far right side of the throat opening, the door should stop rotating before contact is made (except for access controlled doors). Repeat this test from both sides of the revolving door.
2. Step in front of each revolving wing. The door should stop or slow before contact (except for access controlled doors).
3. Check all end wall, leading edge and bottom rail sensors in several locations. Door should stop immediately upon activation. These devices may also include a cushion.

General Safety

Pay attention to the following general safety items and conduct checks periodically where noted.

1. Signage. Door should have decals properly displayed. There should be decals that include the statements: "AUTOMATIC DOOR". An AAADM safety information label should be affixed to the door frame in a visible, protected location.
 - a. Slow Speed Activation Sign. The sign shall read one of the following: "Activate to Slow", "Push to Slow", or "Press to Slow". The letters shall be 5/8 in. (16 mm) minimum tall and located within 12 in. (305 mm) of the device.
 - b. Emergency Stop Sign. The sign shall read "Emergency Stop". The letters shall be 5/8 in. (16 mm) minimum tall and located within 12 in. (305 mm) of the emergency stop switch.

2. Slow Speed Operation Activation. One device on the interior and one device on the exterior of the door shall be placed within 48 in. (1220 mm) of the right hand entry to the door. The device shall be located between 24 to 48 in. (610 to 1220 mm) from the floor. The activation area of the button shall be a minimum of 1 in. (25 mm) diameter.

3. The door should revolve with the maximum speeds shown in the table below:

Nominal Revolving Door Diameter	8ft 2438mm	9ft 2743mm	10ft 3048mm	11ft 3352mm	12ft 3657mm	12ft 6in. 3810mm	14ft 4270mm	16ft 4876mm	18ft 5490mm	20ft 6100mm	24ft 7315mm
Standard Speed RPM (All)	7.2	6.4	5.7	5.2	4.8	4.6	4.1	3.6	3.2	2.9	2.4
Slow Speed RPM (All)	3.6	3.2	2.8	2.6	2.4	2.3	2	1.8	1.6	1.5	1.3
Low Energy Speed RPM 3 Wing Aluminum	2.5	2.1	1.8	1.6	1.4	1.3	1.1	1.0	0.9	0.7	0.6
Low Energy Speed RPM 4 Wing Aluminum	2.2	1.9	1.6	1.4	1.3	1.2	1.0	1.0	0.8	0.7	0.5
Low Energy Speed RPM 3 Wing Clad	2.1	1.8	1.6	1.4	1.2	1.1	0.9	0.8	0.6	0.5	0.4
Low Energy Speed RPM 4 Wing Clad	1.9	1.6	1.4	1.2	1.1	1.0	0.9	0.7	0.6	0.5	0.4

4. Housekeeping. Check the door area for tripping or slipping hazards.

Check all door panels for damage. Make sure that all hardware and overhead covers are properly secured. There should be no bulletin boards, literature racks, merchandise displays, or other attractions that would interfere with the use of the door or invite people to stop or stand in the door area.

5. Traffic Patterns. Observe traffic patterns. Plan routing so people enter and exit in a straight approach, directly towards the center of the door opening.

IF YOU HAVE A PROBLEM, TURN OFF THE DOOR OPERATING EQUIPMENT AND CALL AN AUTOMATIC DOOR SUPPLIER TO MAKE PROMPT REPAIRS.

Figure 1, Terminology and Typical Components

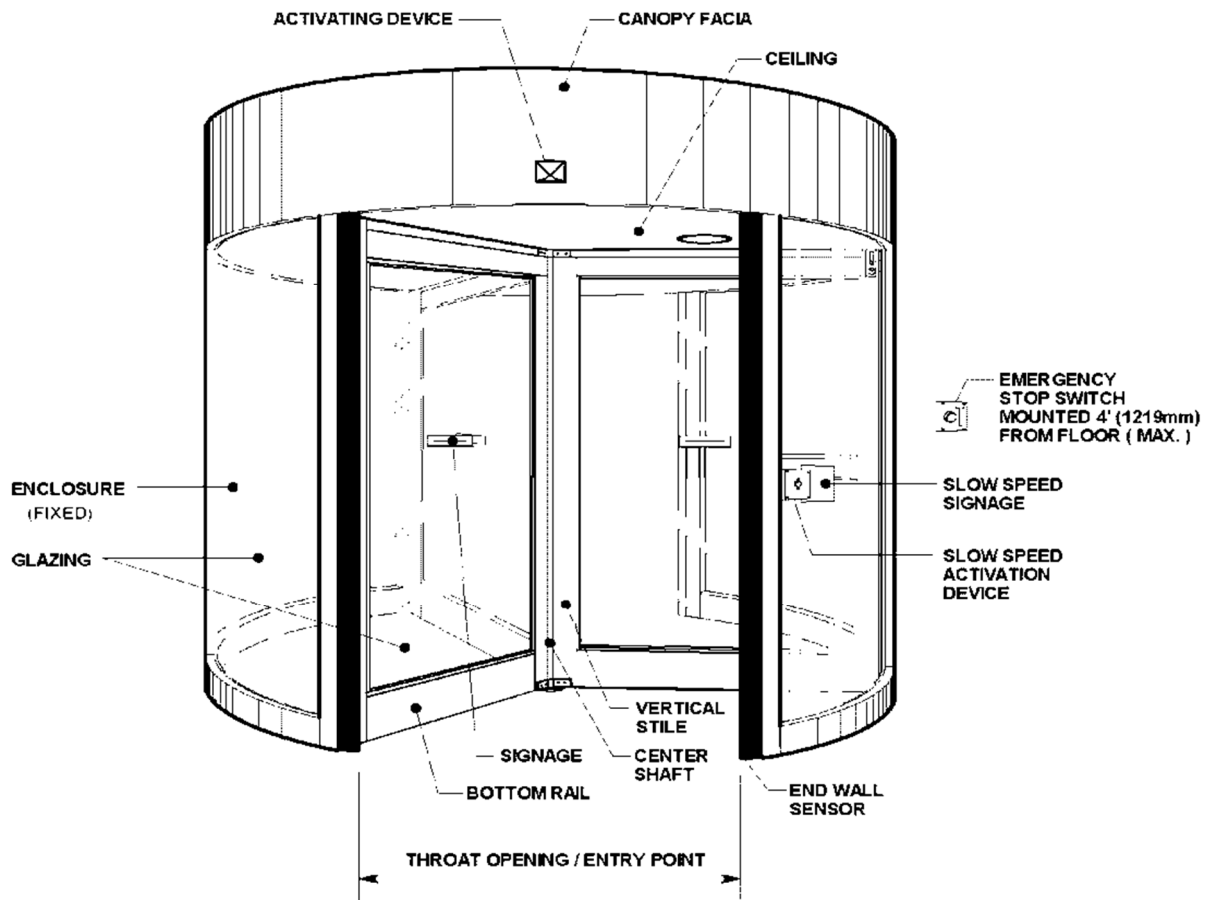


Figure 2, Sensor Zones and Clearances

