

Daily Safety Check - *Sliding Doors*

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

Motion Detector Actuation

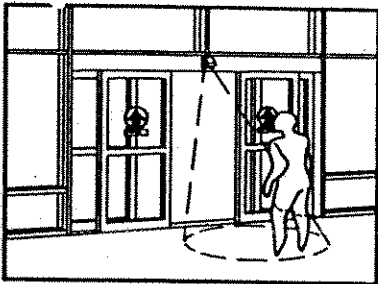


Figure 1

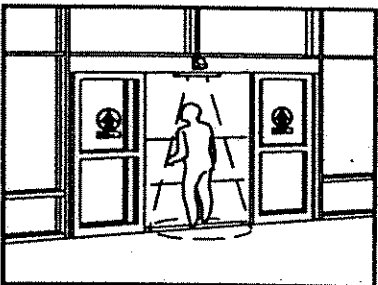


Figure 2

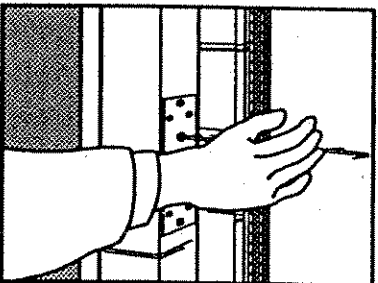


Figure 3

1. Check electronic sensor by walking towards door opening at a moderate speed. Door should start opening when you are about five feet from the door, should slide open smoothly, and stop without impact. Repeat on other side of opening. Move slowly through the door (6 in. per second). The door should remain open. (See Figure 1)

NOTE: If your door is set up for one-way traffic, the detector on the side not intended for use should be active until the door is within 6 inches of fully closed. The sensor should re-open the closing door if an object is detected a minimum of 24 inches from the door.

2. Step out of the sensor zone. After a brief time delay (at least 1 1/2 seconds) the door should slide closed smoothly and should close fully without impact. Doors should be adjusted so they do not close faster than 1 foot per second.
3. Observe traffic routing to door. Plan traffic routing so persons will approach the door straight on and not from an angle.
4. Walk parallel to the door face to check that the detection pattern is at least as wide as the door opening. This test should be performed about 2 1/2 feet from the door face.
5. Open the door. Cover each doorway holding beam with your hand and stand motionless for several seconds. (See Figure 2) The door should remain open. Remove your hand and the door should close after the time delay expires. If other safety devices are being used, stand motionless in the door opening for 10 seconds. The door should not close. (See Figure 3)

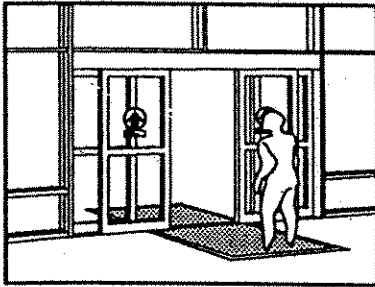


Figure 4



Figure 5



Figure 6



Figure 7

Floor Mat Actuation

6. Step on the "opening" mat in several places. Door should slide open smoothly and stop without impact. (See Figure 4)
7. Step through the doorway onto the mat on the other side. Door should remain fully open without interruption.

Note: If there is more than one mat on each side, each mat should be tested.

8. Check the mat molding and threshold. It should be complete and secured with all screws required.
9. Step off the mat. After a brief time delay (at least 1 1/2 seconds), the door should close slowly and smoothly without impact. Doors should be adjusted so they do not close faster than 1 foot per second.

General Safety

1. **Decals** - Door should have decals properly displayed. A set of **Caution Automatic Door** or **Arrow** decals should be applied to both sides of each sliding leaf. They are to be applied with arrows pointing up on a centerline of 58 in., ± 5 in. (147 cm, ± 13 cm) to each moving leaf. If one way traffic is to be used you should have a decal with an arrow on one side and **DO NOT ENTER** on the other side. There should also be decals that include the statements: "AUTOMATIC DOOR" (in letters 1/2 in. high, minimum) and "IN EMERGENCY - PUSH TO OPEN". (See Figures 5, 6, 7)
2. **Closing Speed** - Horizontal doors must be adjusted within the following limits to comply with ANSI A156.10.

The closing time of the door must not be less than the minimum time as shown in the following table. This closing time is taken from a point one inch from full open to a point two inches from fully closed. Example: If a 3'0" door panel closes in 1.7 seconds it is too fast and must be slowed down. If it closes in 3.0 seconds it is in compliance.

Force to prevent the door from closing should not exceed 30 pounds. This should be checked at several points in the closing cycle by stopping the door and attaching a spring scale. The scale reading should not exceed 30 pounds, or if operator is equipped with a reverser, the door should reverse with a force not to exceed 30 pounds.

Maximum Closing Speed - 1 Foot Per Second		
<i>Nominal Door Opening</i>		<i>Minimum Closing Time</i>
Single Slide	Bi-Part	
	48"	2 Sec
	60"	2 1/2 Sec
36"	72"	3 Sec
42"	84"	3 1/2 Sec
48"	96"	4 Sec

3. Emergency Breakout - Test by manually pushing door at lock area in direction of emergency exit. Release door. The door should either stop operation or spring to closed position. Make sure door panel or panels are properly re-latched.
4. Housekeeping - Be sure floor guides are kept clean and free of any debris which could prevent proper door slide.

Check the door area for tripping or slipping hazards.

Check all door panels for broken or cracked glass. There should be no bulletin boards, literature racks, merchandise displays, or other attractions in the door area where people could be hit by the door.

REGARDLESS OF WHICH ACTIVATING DEVICE IS USED, IF YOU HAVE A PROBLEM YOU CANNOT CORRECT, TURN OFF THE DOOR OPERATING EQUIPMENT AND CALL YOUR SERVICE REPRESENTATIVE.

Daily Safety Check - *Swing Doors*

Perform these safety checks daily on each automatic swinging door to ensure your customers' safety and your own protection. Perform these tests while traffic is restricted from all detection and sensing areas.

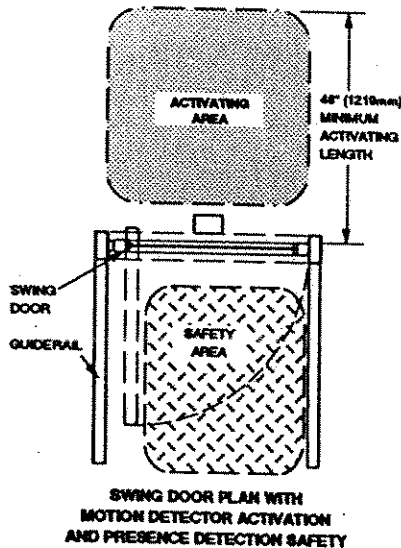


Figure 1

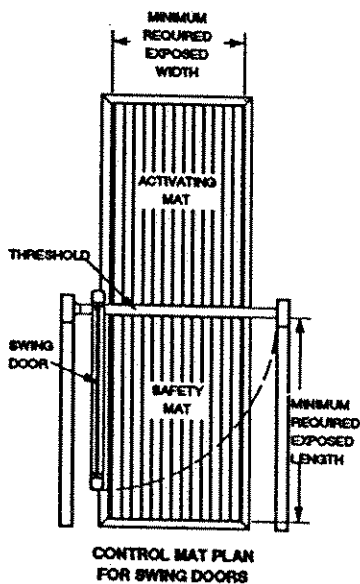


Figure 2

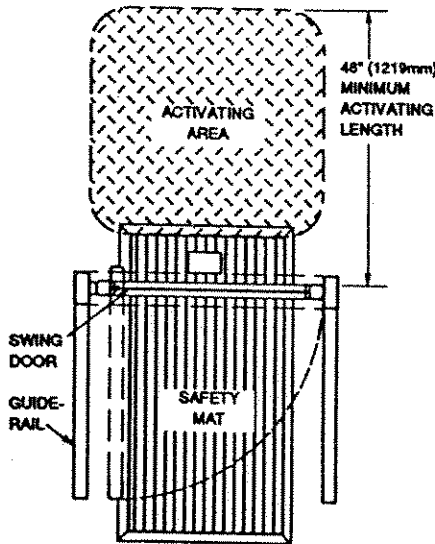
Motion Detector Actuation/Presence Detection Safety

1. Check electronic sensor by walking toward the door opening. The door should start opening when you are about four feet from the door, should swing open smoothly and stop without impact. Move slowly through the door (6 in. per second). The door should remain open.
2. Step out of the sensor zone. After a brief time delay (at least 1 1/2 seconds) the door should close to 10° from fully closed, then noticeably slow down and take at least 1 1/2 seconds for the final 10° closing.
3. Approach the safety side of the door first, then have someone else approach the activating side of the door, as long as you are in the safety area of the door it should not open. (See Figure 1)

Caution: If safety sensor is not working, door may swing at you without stopping.

Floor Mat Actuation/Floor Mat Safety

4. Step on the "opening" mat.
5. **It Is Necessary to Have a "Safety Mat" Covering the Entire Area the Door Swings Over.** Step through the doorway onto the safety mat and remain motionless for four seconds. The door should remain open. Repeat at several locations on the mat. (See Figure 2)
6. Step off the "safety" mat. After a brief time delay (at least 1 1/2 seconds) the door should close to 10° from fully closed, then slow down. The last 10° of closing should be noticeably slower (at least 1 1/2 seconds).



SWING DOOR PLAN WITH
MOTION DETECTOR ACTIVATION
AND FLOOR MAT SAFETY

Figure 3



Figure 4



Figure 5



Figure 6

7. With the door closed, step on the "safety" mat. Have someone step on the opening mat. Door should remain closed as long as someone remains on the "safety" mat.

Caution: If safety sensor is not working, door may swing at you without stopping.

8. Check the mat molding and threshold. It should be complete and secured with all required screws.
9. If the door has motion detector activation and floor mat safety, one of the following three requirements must be met (See Figure 3).
 - A. Five inches of visible safety mat must extend through the door opening onto the approach side.
 - B. Provide a photo-electric (door hold open beam) across the door opening on the approach side.
 - C. The adjustable time delay in the door operator must be set to at least 4 seconds.

General Safety

1. Breakout Stop - In-swing doors on center pivot can be supplied with a breakout stop that will allow the door to open to 90° in the opposite direction of normal traffic. Call your supplier for details. When the door is pushed into the breakout mode, the power to the operator is removed (except spring closer force).
2. Decals - The door should have traffic decals properly displayed as follows:
 - A. An arrow sign (See Figure 4) shall be visible from the approach side of a swinging door, mounted on the door at a height 58 in., ±5 in. (147 cm, ±13 cm) from the floor to the centerline of the sign. The sign shall be minimum of 6 in. (15.2 cm) in diameter, having a green circle surrounding a black arrow on a white background.
 - B. An international "DO NOT ENTER" sign (See Figure 5) shall be visible from the side that would swing toward pedestrians attempting to travel in the wrong

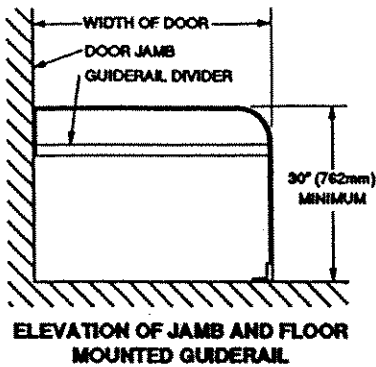


Figure 7

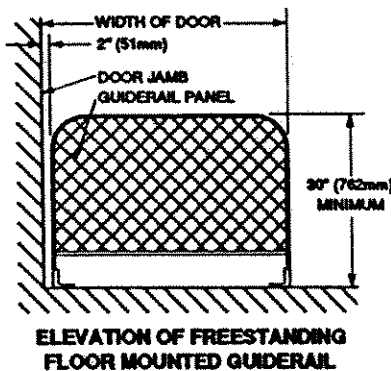


Figure 8

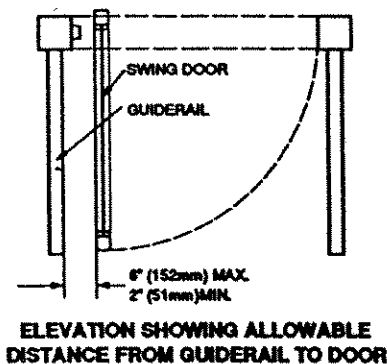


Figure 9

direction. It should be mounted on the door at a height 58 in., ± 5 in. (147 cm, ± 13 cm) from the floor to the centerline of the sign. The sign shall be minimum of 6 in. (15.2 cm) in diameter, having a red circle with the wording, "Do Not Enter", in white letters in the red circle.

C. Swing doors serving both egress and ingress shall be marked with a decal, visible from both sides of the door, with the words "CAUTION, Automatic Door". (See Figure 6) The words "Automatic Door" must be at least 1/2 in. letters. It should be mounted on the door at a height 58 in., ± 5 in. (147 cm, ± 13 cm) from the floor to the centerline of the sign. The sign shall be minimum of 6 in. (15.2 cm) in diameter and made with black lettering on yellow background.

If you need additional decals for your automatic doors, call your Besam distributor.

3. Guide Rails and Lock Stile - Check that guide rails or other barriers or separators are present (two per swing door side) and firmly anchored. (See Figures 7, 8, 9)

With door open, grasp lock stile of door and attempt to move vertically and horizontally. There should be no looseness in the door pivots or in connections between door and operator.

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

Check all door panels for broken or cracked glass. Panels should be made of a safety type material. There should be no bulletin boards, literature racks, merchandise displays, or other attractions in the door area where people could be hit by the door.

5. Traffic Patterns - Observe traffic patterns. Plan routing so people enter and exit in a straight approach, directly on to the end of the mat.
6. Inspect finger guard to see that it is secure and in good repair.

REGARDLESS OF WHICH ACTIVATING DEVICE IS USED, IF YOU HAVE A PROBLEM YOU CANNOT CORRECT, TURN OFF THE DOOR OPERATING EQUIPMENT AND CALL YOUR SERVICE REPRESENTATIVE.