

# ESA II

## I - Revive Slider Conversion Kit

### Owner's Manual

DL2842-030 – 05-2017

| EN |

dormakaba 

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## 1 To our customers

We are pleased that a Dorma USA Inc. ESA II I-Revive Slider Conversion Kit has been selected for this sliding door. Dorma USA Inc. carefully designed, tested and built this kit to provide many years of service.

The purpose of this manual is to familiarize you with sliding door operation controlled by the ESA II I-Revive Slider Conversion Kit.

It is essential that you "know your system" and that you recognize the importance of maintaining your door system in compliance with industry standards for safety.

**It is your responsibility** as owner and caretaker of the equipment to inspect the operation of your sliding door on a daily basis as outlined in Chapter 5, Daily Checklist to insure that the sliding door is safe for use by your customers and employees.

### Compliance with industry standards for safety

Your ESA II slider conversion kit was designed to the latest operating and safety standards. In order to insure the continued safe operation of the door, it is important that:

- Proper decals and labels be applied and maintained on your doors (Chapter 6).
- If decals and labels have been removed or cannot be read, contact your local authorized Dorma USA, Inc. distributor for replacement decals or labels.



### WARNING

Should the sliding door fail to operate as prescribed in the Daily Checklist or at any other time for any reason, discontinue door operation immediately and secure the door in a safe manner.

Call your local authorized Dorma USA, Inc. distributor for repair. The distributor's AAADM certified technicians are trained to service the ESA II slider conversion kit using the Dorma USA, Inc. installation and ESA II commissioning manuals, and in accordance with applicable industry standards.

### Service availability

Dorma USA Inc. has a nationwide network of authorized distributors for sales, installation and service of its products.

## 2 General information

### 1.1 Owner's manual

This Owner's manual applies to sliding doors controlled by the ESA II I-Revive Slider Conversion Kit.

### 1.2 Manual storage

This document must be kept in a secure place, and be accessible for reference as required. If this conversion kit should be transferred to another door or facility, insure that this document is transferred as well.

### 1.3 Dorma.com website

Manuals are available for review, download, and printing on the Dorma.com website.

### 1.4 Dimensions

Unless otherwise specified, all dimensions are given in both inches (") and millimeters [mm].

### 1.5 Symbols used in this manual



#### WARNING

This symbol warns of hazards which could result in personal injury or threat to health.



#### TIPS AND RECOMMENDATIONS

Clarifies instructions or other information presented in this document.

#### NOTICE

Draws attention to important information presented in this document.

## 3 What you should know

### 3.1 Distributor information

#### 3.1.1 Dorma USA Inc. distributor information

Be sure that the Dorma USA, Inc. distributor has provided the following information for this ESA II Slider Conversion Kit installation:

1. ESA II I-Revive Slider Conversion Kit Owner's manual.
2. Review of the Daily Checklist (Chapter 5).
3. Instructions on how to conduct the Daily Checklist by walk through example.
4. Annual compliance inspection label completion (Chapter 4).
5. Circuit breaker or disconnect location for 115 VAC power to the ESA II Slider Conversion Kit.
6. Slider program switch panel location and review in its use.
7. Discussion of problems that could result from door operation being allowed to continue after a malfunction is observed.



#### WARNING

If there are any problems, discontinue door operation immediately and secure the door in a safe manner. Contact your local Dorma USA Inc. distributor for repair.

# 4 AAADM Safety information label

## 4.1 Automatic sliding doors

### 4.1.1 Safety Information label

This AAADM label outlines safety checks that should be performed daily on an automatic sliding door.

### 4.1.2 Annual compliance section of label

After startup, the Dorma USA Inc. AAADM certified technician will complete the Annual Compliance Inspection form located on the Safety Information label.

### 4.1.3 Additional annual compliance inspection labels

Have the sliding door inspected at least annually by a Dorma USA Inc. AAADM certified technician. Annual compliance inspection labels are placed over the existing annual compliance section of the Safety Information label.

Fig. 4.1.2 Annual Compliance Inspection label

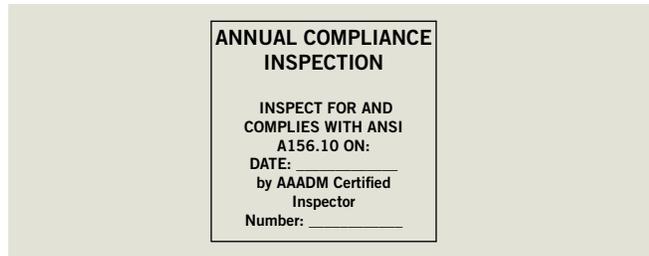
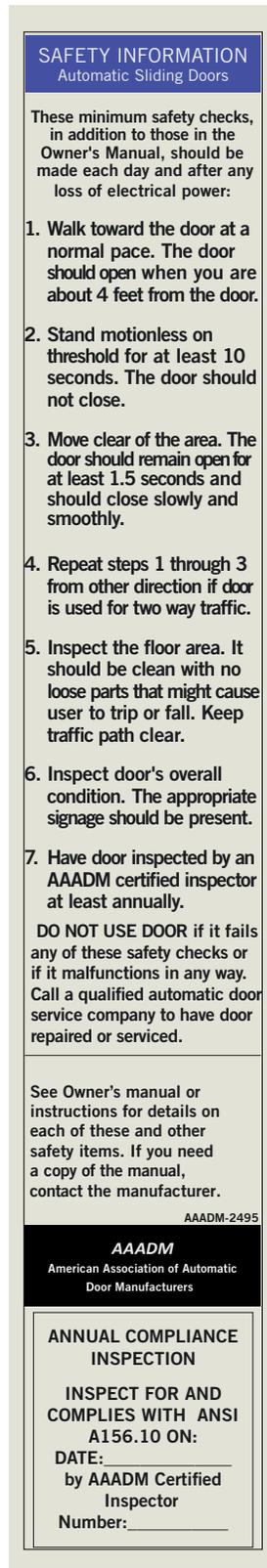


Fig. 4.1.1 AAADM safety information label



# 5 Daily safety check procedure

## 5.1 Automatic sliding doors

### NOTICE

All figures and diagrams are for purposes of illustration only and are from the AAADM automatic sliding door manual, reprinted with permission.

### TIPS AND RECOMMENDATIONS

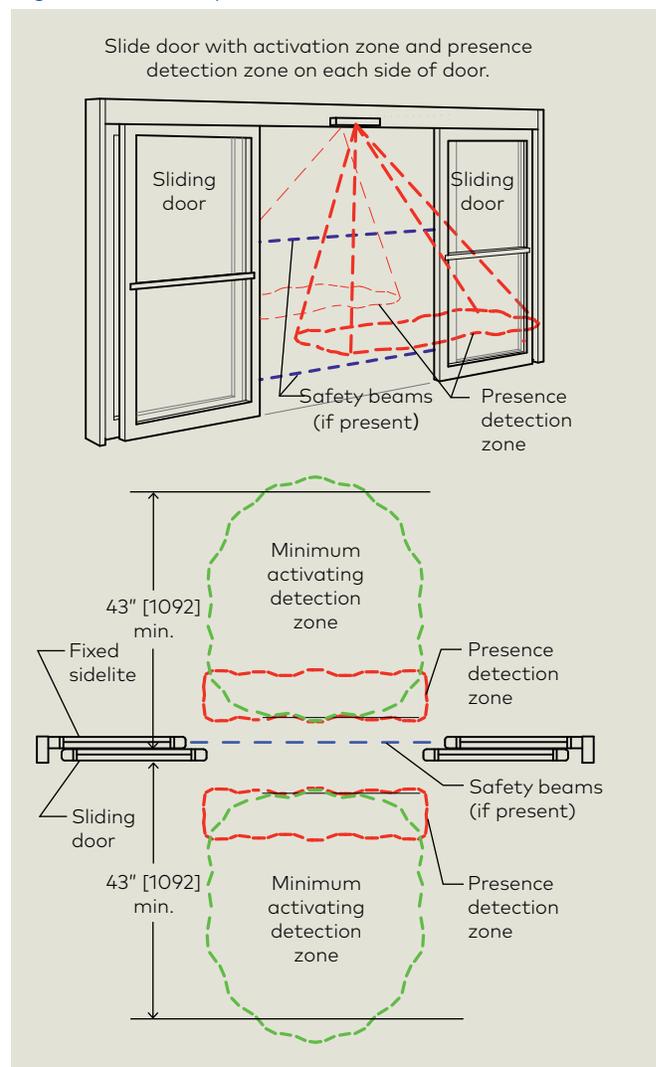
Perform these checks while traffic is restricted from all detection and sensing zones.

#### 5.1.1 2 way traffic activation and presence detection

1. Check activation sensor by walking toward door opening at moderate speed. Door should:
  - Start opening when you are about four feet from door.
  - Slide open smoothly.
  - Stop at fully open without impact.
2. Repeat on other side of door opening.
3. Move slowly through door opening (approximately six inches per second):
  - The door should remain open.
4. Step out of sensor zone. After a brief time delay (minimum 1.5 seconds), the door should:
  - Slide smoothly toward closed position.
  - Stop at closed position without impact.
5. Doors should be adjusted so that they do not close faster than one foot per second.
6. Observe traffic routing to door. Plan traffic routing so persons will approach straight on and not from an angle.
7. Walk parallel to door face and towards center of the door opening to check that the detection pattern is at least as wide as the door opening. This test should be performed while approximately twelve inches from the door face. Repeat test in both approach directions.
8. Open the door. Crouch motionless in threshold for at least ten seconds to check presence (safety zone):
  - The door should not close.
9. If safety beams are installed, cover each doorway beam with your hand and stand motionless for several seconds:
  - The door should remain open.

Remove your hand and the door should close after the delay expires.

Fig. 5.1.1 Two way traffic



**5.1.2 1 way traffic activation sensor**

1. If your door is set up for one way traffic, the sensor on the non-approach side should:
  - Be active until door is within six inches of fully closed.
  - Sensor should re-open the closing door if a person is detected a minimum of 24 inches from the door.

**5.1.3 Floor mat activation and safety**

1. Step on the opening "activating" mat in several places, the door should:
  - Slide open smoothly.
  - Stop at fully open without impact.
2. Step through the door threshold onto the safety mat on the other side and stand motionless for at least four seconds:
  - Door should remain open.
3. Repeat step 2 at several locations on the safety mat.



**TIPS AND RECOMMENDATIONS**

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

4. Step off the floor mat:
  - After a brief delay (minimum 1.5 seconds) door should close slowly and smoothly and without impact.
5. Check the floor mat molding and threshold:
  - It should be complete and secured with all required screws.

Fig. 5.1.2 One way traffic

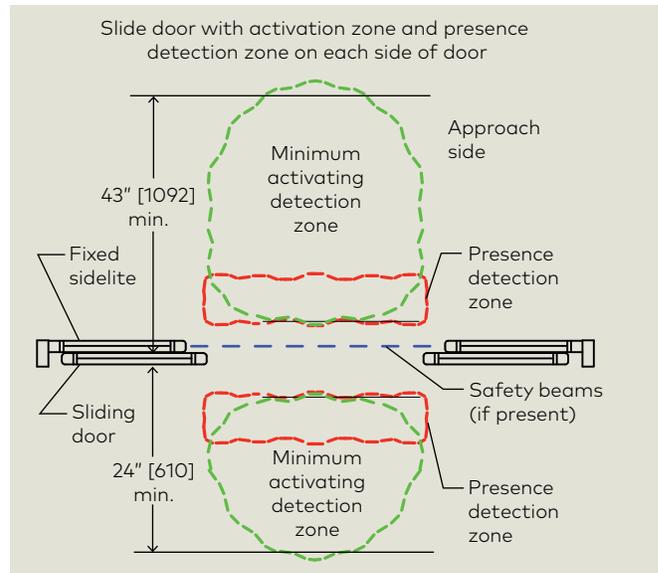
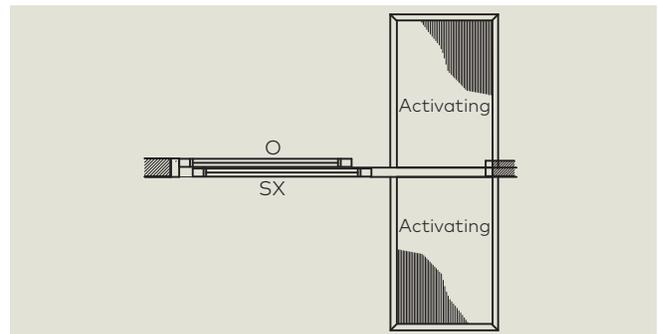


Fig. 5.1.3 Single slide door floor mat layout



**5.1.4 Emergency Breakout**

1. Test by manually pushing door or panel in direction of emergency exit.
2. Release door or panel:
  - Door should either stop operation or spring to a closed position.
  - Make sure door panel or panels are properly related.
3. If door is equipped with breakaway sidelights, door operation should stop when sidelights are broken out.

**5.1.5 Housekeeping**

1. Floor area should be clean with no loose parts that might cause user to trip or fall.
2. Make sure all hardware and overhead covers are properly secured.
3. Keep traffic path clear.
4. There should be no bulletin boards, literature racks, merchandise displays or other attractions in the door area that would interfere with the use of the door or would encourage people to stop and stand in the door area.

**5.1.6 Door's overall condition**

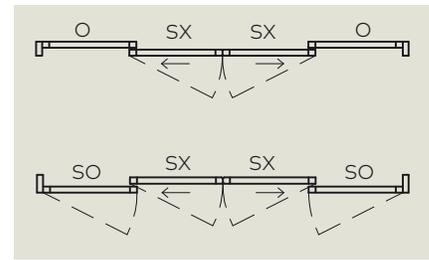
1. Inspect door's overall condition, check for any damage.

**5.1.7 Door Signage**

1. The appropriate door signage should be displayed on the door, see Chapter 6.

- O** Fixed sidelite
- SO** Swing out sidelight
- SX** Swing out sliding door

Fig. 5.1.4 Emergency breakout



**WARNING**

If there are any problems, discontinue door operation immediately and secure the door in a safe manner. Contact your local Dorma USA Inc. distributor for repair.

# 6 ESA door signage

## 6.1 Automatic sliding doors

### 6.1.1 ESA door signage

ESA II Slider Conversion Kit is supplied with door sign decals to alert and instruct pedestrian traffic in operation and function of door. Method of activation determines combination of decals required. Not all decals will be used in every application. Safety signs are specified in ANSI/BHMA A156.10, Standard for Power Operated Pedestrian Doors.

### 6.1.2 All swinging, sliding and folding doors

1. AUTOMATIC CAUTION DOOR sign; all sliding doors shall be equipped with signage visible from both sides of door reading "AUTOMATIC CAUTION DOOR".

Sensor activating zones: if the 43 inch [1092 mm] minimum activating zone is not practical due to physical or environmental conditions, it shall be permissible to be reduced to 30 inches [762 mm] with an additional AUTOMATIC CAUTION DOOR sign, visible from the side the activating zone has been reduced on.

### 6.1.3 Sliding doors

1. IN EMERGENCY PUSH TO OPEN sign; install with sliding doors with breakout doors and shall be applied to side appropriate for egress. Signs shall have red backgrounds with contrasting letters a minimum of one inch high. Signs shall read horizontally and be located next to lock stile on a centerline 36 to 60 inches [914 to 1525 mm] from the floor.
2. STAND CLEAR sign; sliding doors that slide alongside an adjacent sidelight or wall shall be equipped with a sign that instructs users to stand clear of the sliding door travel path. The letters shall be located from 36 to 60 inches [914 to 1525 mm] from the floor.

### 6.1.4 AAADM safety information labels, Chapter 4

1. Safety Information label
2. Annual Compliance Inspection label

Fig. 6.1.1 Automatic Caution Door sign



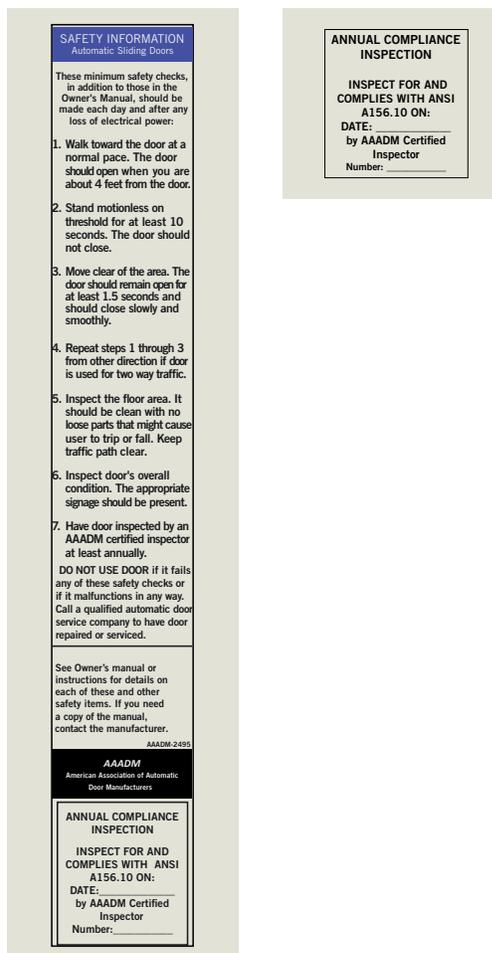
Fig. 6.1.2 In Emergency Push To Open sign



Fig. 6.1.3 Stand Clear sign



Fig. 6.1.4 Safety Information, Annual Compliance Inspection labels



- 1 "Automatic Caution Door" sign  
Both sides of door.
- 2 "In Emergency Push To Open" sign  
Interior only.
- 3 "Stand Clear" sign  
Exterior only.
- 4 Safety Information label, Interior only
- 5 Annual compliance Inspection label  
Interior only.

Fig. 6.1.6 Automatic single slide door with signage for two way traffic control

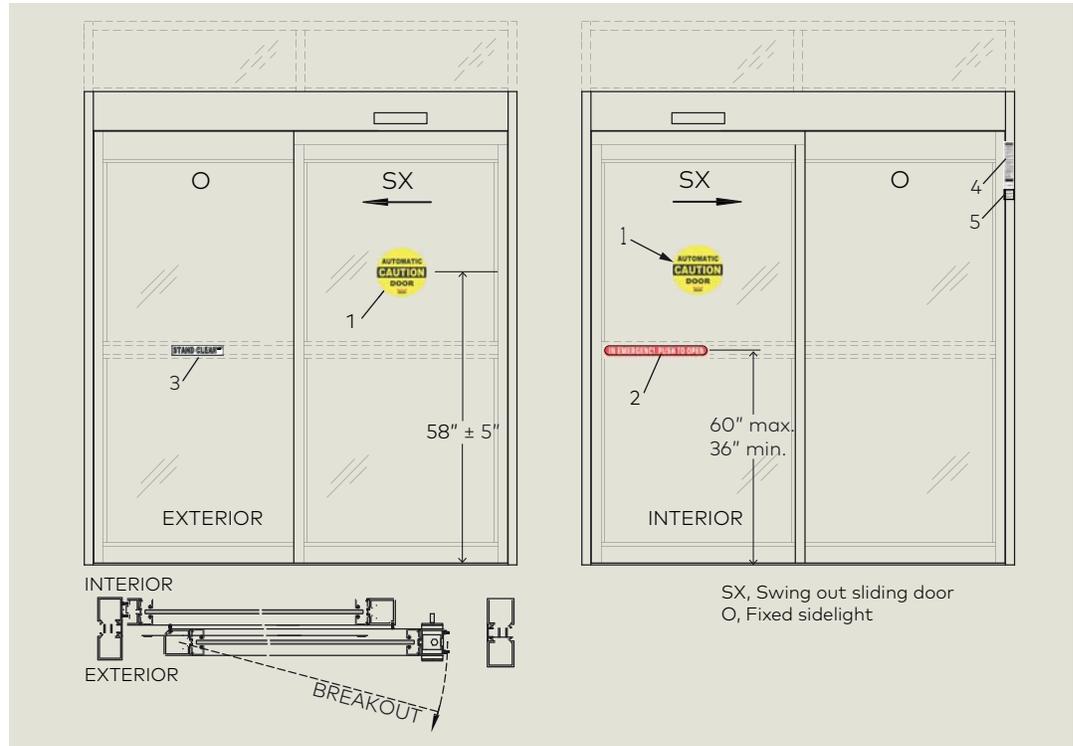


Fig. 6.1.7 Automatic bi-part slide door with signage for two way traffic control

