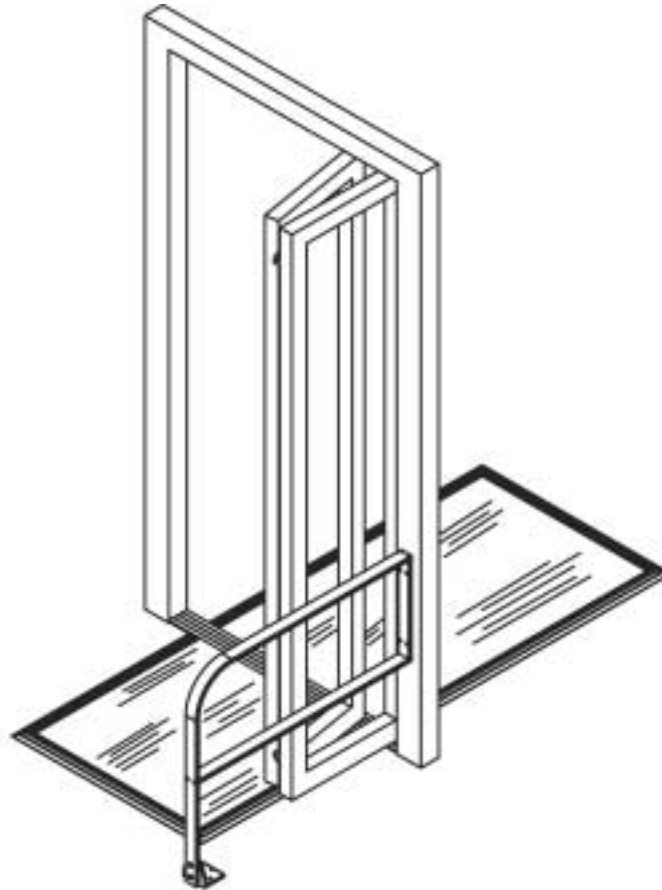




## Architectural Specifications

Presence-Sensing Door Control Package SF01-36 through SF01-48  
for Single Folding Automatic Doors  
with Mats on Both Sides One Way Traffic



*The Activation and Safety System Packages discussed here are designed to comply with American National Standard for Power Operated Pedestrian Doors as described in ANSI A156.10. Each package includes presence-sensing activation and/or safety mats, ramp edge trim kits, threshold trim and guide rails intended for a single side folding automatic door.*

## **1 GENERAL**

### **1.01 WORK INCLUDES**

A. Installation of Presence-Sensing Activation Mat Systems to initiate and control the safe opening of a single side folding automatic door.

1. Installation of aluminum ramp edging.
2. Installation of aluminum threshold.

B. Installation of Presence-Sensing Safety Mat Systems to prevent, closing and control as appropriate, of a single side folding automatic door.

1. Installation of aluminum ramp edging.
2. Installation of aluminum threshold.

C. Installation of double-line guide rails

### **1.02 RELATED SECTIONS**

#### *EDIT TO SUIT PROJECT REQUIREMENTS*

- A. 08400 – Entrances and Storefronts
- B. 08460 – Automatic Entrance Doors
- C. 08470 – Revolving Entrance Doors
- D. 08720 – Automatic Door Operators
- E. 08710 – Door Hardware

### **1.03 REFERENCES**

A. 28 CFR Part 36 Nondiscrimination on the basis of Disability Accommodations and Commercial Facilities.

B. ANSI 156.10 American National Standard for Power Operated Pedestrian Doors.

C. International Standards Organization (ISO) 9002

### **1.04 SUBMITTALS**

A. Product Data: Manufacturer's installation instructions for the installation of presence-sensing activation and safety mat systems, including perimeter ramp edging, threshold trim and double-line guide rails.

B. Shop Drawings: Presence-sensing mat system layout drawings are unique to each installation and are available upon request once the door type, clear opening and anticipated traffic pattern have been established.

### **1.05 QUALITY ASSURANCE**

A. Installer: Acceptable to presence-sensing mat manufacturer with certified evidence of suitable training for installation of presence-sensing activation and safety mat systems including ramp edges, thresholds and guide rails similar to those specified herein.

## PART 2 – PRODUCTS

### 2.01 BASIS OF DESIGN

A. Specification Basis: Provide products specified herein produced by Larco, an Acrometal Company. 1902 13<sup>th</sup> Street SE, Brainerd, MN 56401, Tel: 800-523-6996, Fax: 800-589-3705, http: [www.larcomfg.com](http://www.larcomfg.com)

#### *SELECT ONE SUBSTITUTION PARAGRAPH*

##### **B. No Substitution**

B. Architect approved Substitution

B. Architect approved Substitution will be limited to the following:

### 2.02 SINGLE SIDE FOLDING DOOR ACTIVATING DEVICES

Presence-sensing mats specified herein are of molded vinyl, steel plate electrode, normally open switch mats. High-grade steel plates form the electrode contacts, which are separated by insulating spacers. The steel electrode is encapsulated in unique vinyl. All elements, including the cord connection to the electrode, are watertight after heat curing. Molded presence-sensing mats are impervious to all forms weather and most industrial cleaners. This superior design affords maximum sensitivity, great durability and ease of use.

All Devices are compliant with ANSI/BHMA A156.10 and ISO 9002

Presence-sensing mats are compatible with all automatic doors. Colors can be coordinated to match the building façade or store front. Company greetings, informational messages and corporate logos can be combined for complete entrance tie-in.

Presence-sensing mat systems eliminate confusion in the general population, particularly with the very young and the elderly. Clearly defined sensing areas for activation allow the pedestrian to anticipate the door's actions (opening or closing) with confidence. This aspect is especially critical in nursing homes and hospitals where patients, residents and staff find the predictability of presence-sensing mats easy to understand and use. Presence-sensing mats are ideal for swinging, folding, sliding and revolving doors with none of the limitations and required adjustments associated with electronic sensors.

A. Technical Data/Specifications	Operating temperature range is -35°f to 120°f. Estimated MTBF of 10,000,000 operations. Intermittent loads up to 3000 PSI Dielectric strength - 300 volts/mil Shore "A" hardness 72 +/-2
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*MTBF = Mean Time Between Failures*

Mounting is accomplished using aluminum ramp edging and mechanical fasteners or Larco Labor Saver VHB system. Kits are installation ready and include miters, drilling, countersinking, and stainless steel screws with anchors where applicable.

1.) Mounting trim can be color matched to the building façade.

## B. Select Finish

1.) Presence-sensing mats are standard in black, brown or gray. Yellow, red, blue and cordovan are also available.

2.) Aluminum extrusions used to hold the mat systems in place and serve as ramp edging and threshold covers, are standard in mill finish. Anodized colors to match storefront requirements are also available. Contact the factory for this option.

3.) Standard guide rails utilize 1/2 inch x 1-1/2 inch aluminum extrusion with a minimum height of 30 inches. Lengths are specific to each door package and are fully ANSI A156.10 compliant.

### 2.03 SINGLE SIDE FOLDING DOOR SAFETY DEVICES

Presence-sensing mats specified herein are of molded vinyl, steel plate electrode, normally open switch mats. High-grade steel plates form the electrode contacts, which are separated by insulating spacers. This steel electrode is encapsulated in vinyl. All elements, including the cord connection to the electrode, are watertight after oven curing. Molded presence-sensing mats are impervious to all forms weather and most industrial cleaners. Manufactured by Larco, this superior design affords maximum sensitivity, great durability, and well defined detection zones.

Presences-sensing mat systems eliminate confusion in the general population, particularly with the very young and the elderly. Clearly-defined sensing areas for activation allow the pedestrian to anticipate the door's actions (opening or closing) with confidence. This aspect is especially critical in nursing homes and hospitals where patients, residents and staff find the predictability of presence-sensing mats easy to understand and use. Presence-sensing mats are ideal for swinging, folding, sliding, and revolving doors with none of the limitations and required adjustments associated with electronic sensors.

#### A. Technical Data/Specifications

Operating temperature range is -35°f to 120°f.  
MTBF of 10,000,000 operations.  
Intermittent loads up to 3000 PSI  
Dielectric strength - 300 volts/mil  
Shore "A" hardness 72 +/-2

MTBF = Mean Time Between Failures

Mounting is accomplished using aluminum ramp edging and mechanical fasteners or the Larco Labor Saver system. Trim kits are installation-ready and include miters, drilling, countersinking, and stainless steel screws with anchors where applicable.

1.) Mounting trim can be color matched to the building requirements.

### 2.04 SINGLE SIDE FOLDING DOOR ACTIVATION AND SAFETY SYSTEM PACKAGE

#### SELECTING THE PACKAGE TO SUIT THE PROJECT

Presence-sensing mat system packages, as manufactured by Larco, have been conveniently assembled into easy-to-order units. Each package is designed to meet current ANSI/BHMA A156.10 standards for activation and safety. Individual door packages are intended to provide all

the necessary materials to make a single side folding door safe, regardless of its traffic pattern, safe to operate. Larco's Single Side Folding Door Packages include presence sensing mats for activation and/or safety, aluminum trim sets for all mats, aluminum threshold, and a pair of aluminum guide rails matched to each package based on the "clear opening" of the door and the anticipated traffic pattern. All materials, including mounting hardware, are included under a single package part number.

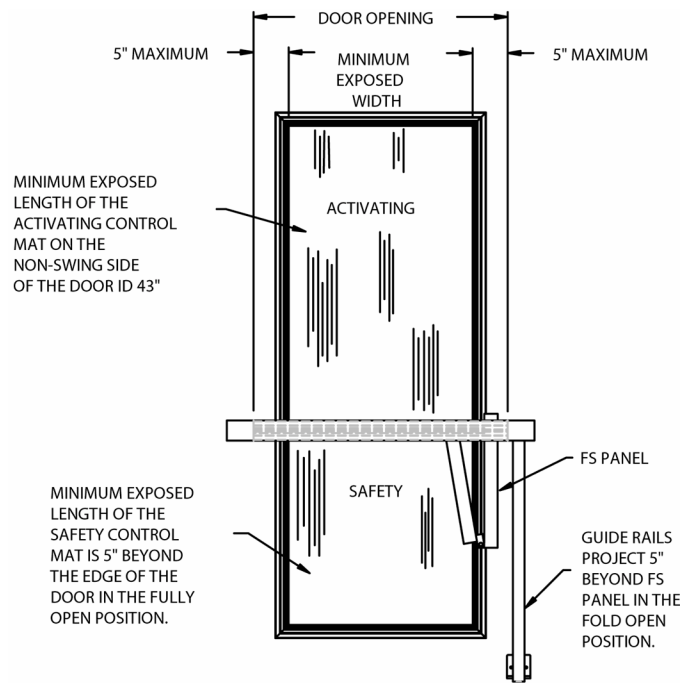
The following presence-sensing mat systems meets or exceed ANSI/BHMA A156.10 standards for power operated pedestrian doors providing complete activation and safety zones for a single sided folding automatic door.

Single Side Folding Door Package Selection: In order to select the correct package for your installation, answer the following questions.

- 1.) What is the largest folding panel size? (FX Panel).
- 2.) What is the anticipated traffic pattern? (One way or two way).

A. Select the package description that best suits the project

Door Project Description	Package Number	Panels Up To
Single Side Folding Automatic Door	SF01-36	Up to 37"
Presence Sensing Mats for Activation and Safety	SF01-42	Up to 44"
Intended for One Way Traffic	SF01-48	Up to 49"



*Detailed CAD drawings in digital format are available upon request.*

## **PART 3 – EXECUTION**

### **3.01 EXAMINATION**

A. Verify the following:

1. Installation dimensions are acceptable for the installation.
- 2 Floor conditions are suitable for activation and safety presence-sensing mat performance.

B. Do not proceed unless or until unsatisfactory conditions, which are detrimental to a proper and timely completion of the installation, have been corrected.

### **3.02 INSTALLATION**

A. Pursuant to manufacturer's published instructions and approved layout drawings.

### **3.03 ADJUSTING**

A. Test completed installation pursuant to published instructions for presence-sensing activation and safety system package.

B. No adjustments are necessary.