

Industrial Safety Products

Product List



Safety Mats

Trim Kits

Extrusions

Controls

Accessories

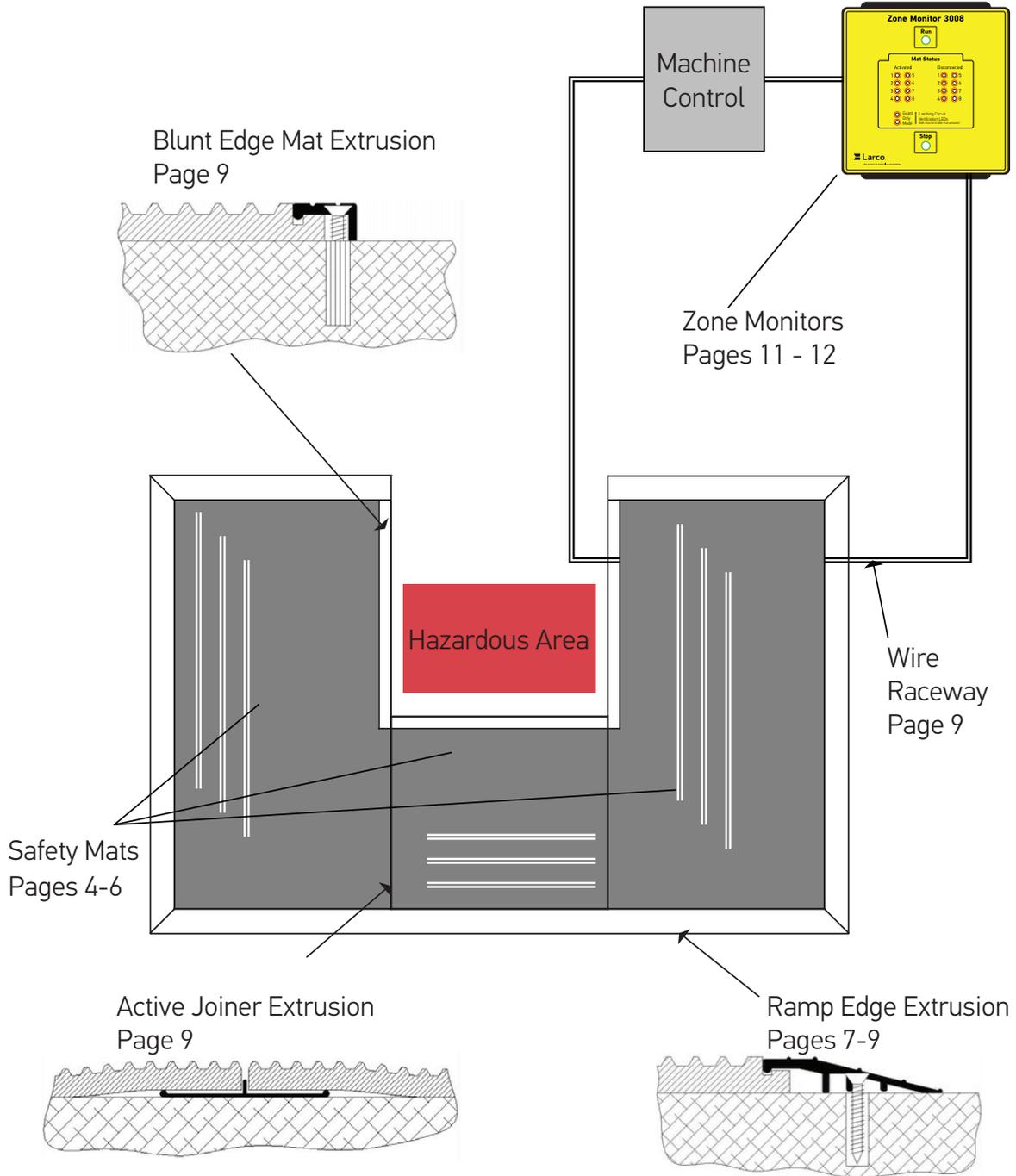


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Typical Safety Mat Layout

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Standard and Custom Safety Mats

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MAT SIZE/INCHES
12" WIDTH
MAT 12 x 12*
MAT 12 x 24*
MAT 12 x 36*
MAT 12 x 48*
MAT 12 x 60*
MAT 12 x 72
18" WIDTH
MAT 18 x 24*
MAT 18 x 36*
MAT 18 x 48*
MAT 18 x 60*
MAT 18 x 72
24" WIDTH
MAT 24 x 20*
MAT 24 x 24*
MAT 24 x 30*
MAT 24 x 36*
MAT 24 x 42*
MAT 24 x 48*
MAT 24 x 56*
MAT 24 x 60*
MAT 24 x 72
27-1/2" WIDTH
MAT 27-1/2 x 27-1/2*
MAT 27-1/2 x 32-1/2*
MAT 27-1/2 x 43
MAT 27-1/2 x 44*
MAT 27-1/2 x 56
MAT 27-1/2 x 57

MAT SIZE/INCHES
30" WIDTH
MAT 30 x 30*
MAT 30 x 36*
MAT 30 x 42*
MAT 30 x 48*
MAT 30 x 60
MAT 30 x 72
33-1/2" WIDTH
MAT 33-1/2 x 32*
MAT 33-1/2 x 44*
MAT 33-1/2 x 56
34-7/8" WIDTH
MAT 34-7/8 x 31-3/16
MAT 34-7/8 x 43-3/16
MAT 34-7/8 x 55-3/16
36" WIDTH
MAT 36 x 36*
MAT 36 x 42*
MAT 36 x 48*
MAT 36 x 60
MAT 36 x 72
39-1/2" WIDTH
MAT 39-1/2 x 44
MAT 39-1/2 x 56
40-7/8" WIDTH
MAT 40-7/8 x 31-3/16*
MAT 40-7/8 x 43-3/16
MAT 40-7/8 x 55-3/16
48" WIDTH
MAT 48 x 48
MAT 48 x 60
MAT 48 x 72

Custom Safety Mat Notes

- Custom sizes - Mats can be ordered in different sizes than shown on this page. Changes such as width, length, notches, angles or other shapes can be made to fit your application.
- Standard colors are black and yellow. You must indicate color at time of order, or black will be supplied. Custom colors are available upon request.
- Custom lettering and logos utilizing contrasting colors are available.

NOTE: Standard Larco safety mat with ribbed surface and 20' 4-wire cord.

* Shippable via UPS

Safety Mat Options

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Typical Safety Mat cross section detail

NOTE: the width and length dimensions do not include the lock lip edge as shown in Figure 1.

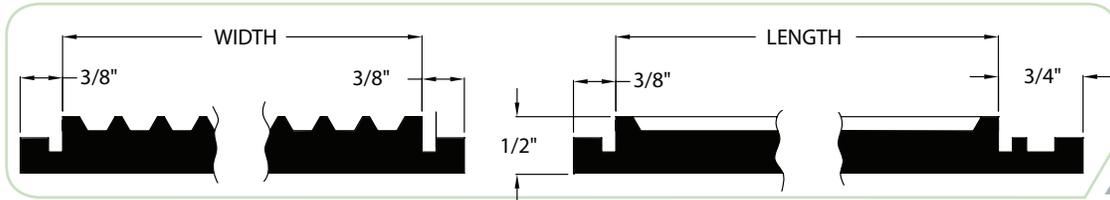


Figure 1

Colors

- Black & Yellow (standard)
- Custom colors (optional)

Dimensions

- Width Range: – Minimum = 6" – Maximum = 48"
- Length Range – Minimum = 6" – Maximum = 72"

NOTE: 1. Rib direction runs parallel to the length dimension
2. Join mats together if longer lengths or wider widths are required

Styles

- RB – Ribbed Surface (standard)
- Options**
- SS – Sure Step® non-skid grit surface
 - CS – Comfort Step anti-fatigue ribbed surface
 - LS – Labor Saver self-adhesive backing applied to mat mounting surface

Cord Lengths

- 20 - 20 feet long (standard)
- 25 - 25 feet long (optional)
- 30 - 30 feet long (optional)

NOTE: For longer lengths – Contact ATEK

Cord Types and Location

- 4W – Standard 20' 4-conductor cord. Exits on mat width (end lead)
- 4W2 – Standard 20' 4-conductor cord. Exits on mat length (side lead)
- PLG – 4-pin, 20' 4-conductor quick connect molded cord. Exits on mat width (end lead)
- PLG2 – 4-pin, 20' 4-conductor quick connect molded cord. Exits on mat length (side lead)

NOTE: Stocked mats normally have leads exit approximately in the middle of the side described above

Customization Available

- Shape
- Angles and notching
- Size

For more information on Mat Styles, contact [Larco](#) or visit www.larco.com to download the Industrial Safety Mats sell sheet.

Mat Edge Styles and Mat Measuring

Lock Lip Edge

The most common and widely used edge style for Larco mats, the Lock Lip Edge is used in single mat applications or is removed to create the square edge for use with the "Active Joiner" extrusion. (Figure 2)

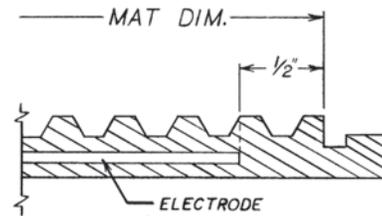


Figure 2

Square Edge

Most commonly used when the "Active Joiner" extrusion is used to join mats, the square edge is created by cutting away the Lock Lip Edge (shown above) at the time of installation. This edge is also used when a mat is "butted" up against an obstruction or against a machine base. (Figure 3)

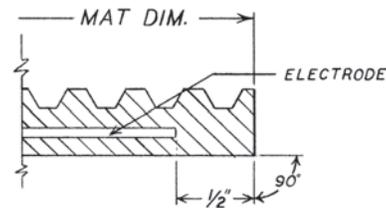


Figure 3

Active Threshold Edge

This edge accommodates the "Active Threshold" extrusion, a previously popular mat style now replaced by Lock Lip and Square Edge mats shown above. (Figure 4)

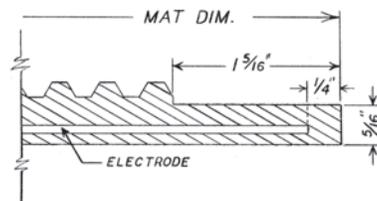


Figure 4

Cords and Connectors

Mat Wiring Cord (standard)

All Larco mats are configured with a 20-foot long, single-jacketed, four-wire cord unless otherwise specified at the time of purchase.



Four-Wire Plug Cord (optional)

Larco offers the convenience of a molded plug for easy wire connections. When used with the control box receptacle they form a watertight mechanical connection and seal.



Field Installed Connector

PN: 226724



A fast, efficient means of interconnecting mat systems to controls. Field installed plugs have an IP67 rating and can be attached to Larco's standard mat cords.

Control Box Plug Connector

PN: 22693100



Accepts the Larco plug cords and are typically mounted in the mat control device.

Standard 4-Sided Trim Kits

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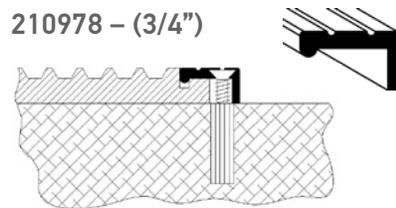
MAT SIZE/INCHES
12" WIDTH
12 x 12
12 x 24
12 x 36
12 x 48
12 x 60
12 x 72
18" WIDTH
18 x 24
18 x 36
18 x 48
18 x 60
18 x 72
24" WIDTH
24 x 20
24 x 24
24 x 30
24 x 36
24 x 42
24 x 48
24 x 56
24 x 60
24 x 72
27-1/2" WIDTH
27-1/2 x 27-1/2
27-1/2 x 32-1/2
27-1/2 x 43
27-1/2 x 44
27-1/2 x 56
27-1/2 x 57

MAT SIZE/INCHES
30" WIDTH
30 x 30
30 x 36
30 x 42
30 x 48
30 x 60
30 x 72
33-1/2" WIDTH
33-1/2 x 32
33-1/2 x 44
33-1/2 x 56
34-7/8" WIDTH
34-7/8 x 31-3/16
34-7/8 x 43-3/16
34-7/8 x 55-3/16
36" WIDTH
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36 x 42
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40-7/8 x 43-3/16
40-7/8 x 55-3/16
48" WIDTH
48 x 48
48 x 60
48 x 72

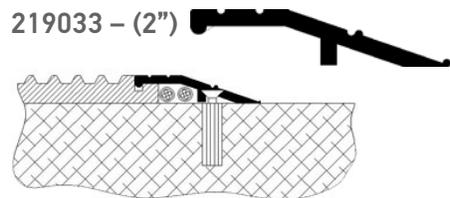
NOTE:

- Trim kits made from the extrusions shown below.
- These are "picture frame" kits covering all four sides of the mat. To price a 3-sided kit, see price list.
- All trim kits are fully machined with mitered corners and drilled and countersunk mounting holes. They include stainless steel mounting hardware. The installer is responsible for creating a wire exit notch at the appropriate point during installation.

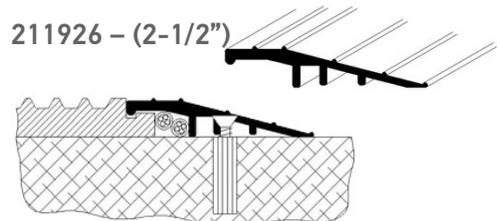
210978 - (3/4")



219033 - (2")



211926 - (2-1/2")



NOTE: To price a trim kit for a multiple mat layout, simply use multiples of the mat sizes used in the layout. Active joiner trim used between the mats will be automatically included.

Standard 4-Sided Trim Kits

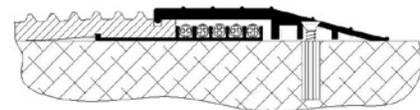
MAT SIZE/INCHES
12" WIDTH
12 x 12
12 x 24
12 x 36
12 x 48
12 x 60
12 x 72
18" WIDTH
18 x 24
18 x 36
18 x 48
18 x 60
18 x 72
24" WIDTH
24 x 20
24 x 24
24 x 30
24 x 36
24 x 42
24 x 48
24 x 56
24 x 60
24 x 72
27-1/2" WIDTH
27-1/2 x 27-1/2
27-1/2 x 32-1/2
27-1/2 x 43
27-1/2 x 44
27-1/2 x 56
27-1/2 x 57

MAT SIZE/INCHES
30" WIDTH
30 x 30
30 x 36
30 x 42
30 x 48
30 x 60
30 x 72
33-1/2" WIDTH
33-1/2 x 32
33-1/2 x 44
33-1/2 x 56
34-7/8" WIDTH
34-7/8 x 31-3/16
34-7/8 x 43-3/16
34-7/8 x 55-3/16
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36 x 36
36 x 42
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39-1/2 x 44
39-1/2 x 56
40-7/8" WIDTH
40-7/8 x 31-3/16
40-7/8 x 43-3/16
40-7/8 x 55-3/16
48" WIDTH
48 x 48
48 x 60
48 x 72

NOTE:

- Trim kits made from the extrusion shown below.
- These are "picture frame" kits covering all four sides of the mat. To price a 3-sided kit, see price list.
- All trim kits are fully machined with mitered corners and drilled and countersunk mounting holes. They include stainless steel mounting hardware. The installer is responsible for creating a wire exit notch at the appropriate point during installation.

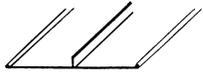
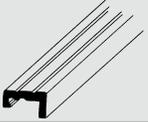
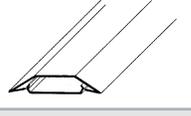
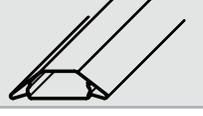
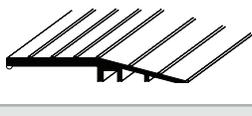
**Extrusion Number 235166
and 235167 – (4")**



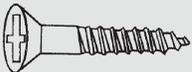
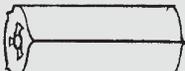
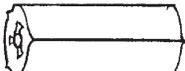
NOTE: To price a trim kit for a multiple mat layout, simply use multiples of the prices on the price list to the mat sizes used in the layout. Active joiner trim used between the mats will be automatically included.

Trims and Extrusions

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TRIM	PART NUMBER	STOCK LENGTH
 3" Active Joiner (2824)	230010	120"
 3/4" Blunt Edge/Recessed Trim (1057)	210978	125"
 Joining Strip (Used in conjunction with P/N 211488)	212069	120"
 Ramped Lead-up (Used in conjunction with P/N 212069)	211488	120"
 2 1/2" Ramp Trim (1814)	211926	132"
 2" Ramp Trim (3311)	219033	130"
 4" Ramp Trim Low Profile	211234	143"
 Active Threshold	214980	120"
 3-Cord Wire Raceway	211525	120"
 7-Cord Wire Raceway	225710	120"
 4" Ramp Trim Heavy Duty (5063 — used with extrusion below)	235166	120"
 Cord Routing Extrusion (5064 — used with extrusion above)	235167	120"

Installation Accessories

ACCESSORY		PART NUMBER	DESCRIPTION/USE
	Corner Cap	226255	Eliminates The Need For Mitering When Forming Trim Kits Using P/N 214980
	Active Threshold Screw	214920	Solid Stainless Steel #12 X 1 1/2" Screw For Use With P/N 214980 Trim
	Trim Screw	210745	Solid Stainless Steel #10 X 1 1/4" Screw For Use With All Extrusions Except P/N 214980
	Screw Anchor	210750	1" Anchor For P/N 214920 Screw (Blue)
	Screw Anchor	210746	1" Anchor For P/N 210745 Screw (Green)
	Jumper Wire/Quick Connect	214988	8" Length
		216484	18" Length
	Caution or Hazard Tape	222109	Black And Yellow Pattern (2" Wide, 108' Roll)

Pressure-sensitive Edge Guards

LENGTHS	PART NUMBER
6 inch to 100 feet	Varied

EGS110



EGS120



Larco's edge guards are manufactured to meet the user's specification for length. When pressed, the EGS110 and EGS120 edge guards send a signal to the safety controller to stop or reverse operation depending on the application. Multiple mounting channel designs allow for easy installation on most surfaces and provide a safety solution for narrow edges.

Safety Mat Controls and Accessories

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ZONE MONITOR 3000	PART NUMBER
Zone Monitor 3000 110/230 VAC, 24 VDC	0023482400
Zone Monitor 3000 QD 110/230 VAC, 24 VDC	0023483500
REPLACEMENT PARTS	
Replacement Relay Pack	0023405401
MSP Device (for QD Version Only)	0023482900



ZONE MONITOR 3008	PART NUMBER
Zone Monitor 3008 110/230 VAC, 24 VDC	0023512700
Zone Monitor 3008 QD 110/230 VAC, 24 VDC	0023512800
REPLACEMENT PARTS	
Replacement Relay Pack	0023405401
MSP Device (For QD Version Only)	0023482900



MAX SERIES CONTROLLERS	PART NUMBER
Max 1524 110 VAC, 24 VDC	0023365300
Max 2324 230 VAC, 24 VDC	0023365400

DIN-rail mounted



JUNCTION BOXES CE RATED	PART NUMBER
2-5 Mat Junction Box	CE22771100
2-10 Mat Junction Box	CE22771110

2-5 Mat Junction Box



2-10 Mat Junction Box



Safety Mat Control Units



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FACTORS TO CONSIDER	MAX-SERIES CONTROLLERS	ZONE MONITOR 3000	ZONE MONITOR 3008
Number Of Mats	1 Mat Diagnostic Input. (Monitor From 1 - 10 Safety Mats When Used In Conjunction W/ Terminal Strip Or Junction Box)	4 Mat Diagnostic Inputs.	8 Mat Diagnostic Inputs.
Mode Of Operation: Automatic Restart Or Guard Only	1 Unit Accommodates Both Modes Of Operation	1 Unit Accommodates Both Modes Of Operation	1 Unit Accommodates Both Modes Of Operation
Input Voltages Available	Model #1524 Accepts 110 VAC, 24 VDC; Model #2324 Accepts 230 VAC, 24 VDC	Accepts 110/230 VAC, 24 VDC	Accepts 110/230 VAC, 24 VDC
Field Replaceable Relay Pack	No	Yes	Yes
Safety Output Relays	4 NO (Closed When Run) 1 NC (Open When Run)	2 NO (Closed When Run) 1 NC (Open When Run)	2 NO (Closed When Run) 1 NC (Open When Run)
Environmental Rating	Enclosure Ip 20 (Must Be Installed In Nema 3/lp 54 Or Better Enclosure)	Nema 12, Ip 65	Nema 12, Ip 65
Din Rail Mountable	Yes	No	No
Diagnostic Indicators/ Capabilities	General Fault LED	Run And Stop LEDs, Four Mat Activated And Four Mat Disconnected LEDs	Run And Stop LED's, 8 Mat Activated And 8 Mat Disconnected LEDs, 2 Circuit Diagnostic Modes & 2 Relay Pack Diagnostic LEDs
Operator-Visible Lights	No	Yes	Yes
Optional Quick Disconnects	No	Yes	Yes
Installation Location	Inside Machine Control Cabinet	At The Operator Station	At The Operator Station

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