

**PEMKO**

**ASSA ABLOY**

ASSA ABLOY, the global leader  
in door opening solutions

## MODULAR RAMPS

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## Modular Ramp Threshold Assemblies

- Assemblies accommodate  $\frac{1}{2}$ " to  $2\frac{1}{4}$ " floor offsets in meeting the 1:12 slope requirements of the "Americans with Disabilities Act". Even higher offsets can be accommodated by using the risers, **RAMP13** and **RAMP14**.
- "MR" in a product number denotes that one-pair of miter returns (and extenders, if applicable) is included. Otherwise, we recommend filling and feathering the threshold ends with grout. Do not leave threshold ends open.
- Miter Returns are available for offsets up to  $2\frac{1}{4}$ "
- Assemblies are supplied with #10 stainless steel wood

screws. Stainless steel machine screws and expansion shields are available at an extra cost

- Assemblies allow for custom fabrication; please consult PEMKO Customer Service
- Assemblies are provided NET length

PemKote™ is highly recommended for all threshold assemblies, especially exterior conditions where moisture may be present.



Only with PemKote™ Non-Slip Coating

### Flush Applications

#### $\frac{1}{2}$ " Floor Offset

**R.5F\_**  
**R.5FMR\_** \*\*



AVAILABLE FINISHES: A, AK  
 ASSEMBLY LENGTH:  $6\frac{1}{8}$ "  
 # OF COMPONENTS: 1

#### $\frac{3}{4}$ " Floor Offset

**R.75F\_**  
**R.75FMR\_** \*\*



AVAILABLE FINISHES: A, AK  
 ASSEMBLY LENGTH:  $9\frac{1}{4}$ "  
 # OF COMPONENTS: 2

#### 1" Floor Offset

**R1F\_**  
**R1FMR\_** \*\*



AVAILABLE FINISHES: A, AK  
 ASSEMBLY LENGTH:  $12\frac{3}{8}$ "  
 # OF COMPONENTS: 2

#### $1\frac{1}{4}$ " Floor Offset

**R1.25F\_**  
**R1.25FMR\_** \*\*



AVAILABLE FINISHES: A, AK  
 ASSEMBLY LENGTH:  $15\frac{1}{2}$ "  
 # OF COMPONENTS: 3

#### $1\frac{1}{2}$ " Floor Offset

**R1.5F\_**  
**R1.5FMR\_** \*\*



AVAILABLE FINISHES: A, AK  
 ASSEMBLY LENGTH:  $18\frac{5}{8}$ "  
 # OF COMPONENTS: 3

#### $1\frac{3}{4}$ " Floor Offset

**R1.75F\_**  
**R1.75FMR\_** \*\*



AVAILABLE FINISHES: A, AK  
 ASSEMBLY LENGTH:  $21\frac{3}{8}$ "  
 # OF COMPONENTS: 4

#### 2" Floor Offset

**R2F\_**  
**R2FMR\_** \*\*



AVAILABLE FINISHES: A, AK  
 ASSEMBLY LENGTH:  $24\frac{7}{8}$ "  
 # OF COMPONENTS: 4

#### $2\frac{1}{4}$ " Floor Offset

**R2.25F\_**  
**R2.25FMR\_** \*\*



AVAILABLE FINISHES: A, AK  
 ASSEMBLY LENGTH:  $28\frac{1}{8}$ "  
 # OF COMPONENTS: 5

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)  
 A (Mill Finish Aluminum) AK (Mill Finish Aluminum with PemKote™ Non-Slip Coating)

$\frac{1}{2}$ " FLOOR OFFSET

Complete assembly drawings available online

$\frac{3}{4}$ " FLOOR OFFSET

1" FLOOR OFFSET

$1\frac{1}{4}$ " FLOOR OFFSET

$1\frac{1}{2}$ " FLOOR OFFSET

2" FLOOR OFFSET

$2\frac{1}{4}$ " FLOOR OFFSET

NOTE: Greater offset may be accomplished by using PEMKO risers.

\*\* = Miter Returns are not ADA Compliant

## Offset Applications (7" Top Plate)

1/2" Floor Offset

R.5OS\_

R.5OSMR\_ \*\*



AVAILABLE FINISHES: A, AK  
ASSEMBLY LENGTH\*: 16 1/4"  
# OF COMPONENTS: 3



Complete assembly drawings available online.

3/4" Floor Offset

R.75OS\_

R.75OSMR\_ \*\*



AVAILABLE FINISHES: A, AK  
ASSEMBLY LENGTH\*: 19 5/8"  
# OF COMPONENTS: 3



3/4" FLOOR OFFSET

1" Floor Offset

R1OS\_

R1OSMR\_ \*\*



AVAILABLE FINISHES: A, AK  
ASSEMBLY LENGTH\*: 22 1/2"  
# OF COMPONENTS: 4



1" FLOOR OFFSET

1 1/4" Floor Offset

R1.25OS\_

R1.25OSMR\_ \*\*



AVAILABLE FINISHES: A, AK  
ASSEMBLY LENGTH\*: 25 5/8"  
# OF COMPONENTS: 4



1 1/4" FLOOR OFFSET

1 1/2" Floor Offset

R1.5OS\_

R1.5OSMR\_ \*\*



AVAILABLE FINISHES: A, AK  
ASSEMBLY LENGTH\*: 28-3/4"  
# OF COMPONENTS: 5



1 1/2" FLOOR OFFSET

1 3/4" Floor Offset

R1.75OS\_

R1.75OSMR\_ \*\*



AVAILABLE FINISHES: A, AK  
ASSEMBLY LENGTH\*: 31 7/8"  
# OF COMPONENTS: 5



1 3/4" FLOOR OFFSET

2" Floor Offset

R2OS\_

R2OSMR\_ \*\*



AVAILABLE FINISHES: A, AK  
ASSEMBLY LENGTH\*: 35"  
# OF COMPONENTS: 6



2" FLOOR OFFSET

Assembly Shown: R.5OS

NOTE: Greater offset may be accomplished by using PEMKO risers.  
\*\* = Miter Returns are not ADA Compliant



AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)  
A (Mill Finish Aluminum) • AK (Mill Finish Aluminum with PemKote™ Non-Slip Coating)

## Short Offset Applications (3½" Top Plate)

½" Floor Offset

R.5OSS\_  
R.5OSSMR\_ \*\*



AVAILABLE FINISHES: A, AK  
ASSEMBLY LENGTH\*: 12¾"  
# OF COMPONENTS: 3



Complete assembly drawings available online.

¾" Floor Offset

R.75OSS\_  
R.75OSSMR\_ \*\*



AVAILABLE FINISHES: A, AK  
ASSEMBLY LENGTH\*: 15¾"  
# OF COMPONENTS: 3



1" Floor Offset

R1OSS\_  
R1OSSMR\_ \*\*



AVAILABLE FINISHES: A, AK  
ASSEMBLY LENGTH\*: 19"  
# OF COMPONENTS: 4



1¼" Floor Offset

R1.25OSS\_  
R1.25OSSMR\_ \*\*



AVAILABLE FINISHES: A, AK  
ASSEMBLY LENGTH\*: 22¾"  
# OF COMPONENTS: 4



1½" Floor Offset

R1.5OSS\_  
R1.5OSSMR\_ \*\*



AVAILABLE FINISHES: A, AK  
ASSEMBLY LENGTH\*: 25¼"  
# OF COMPONENTS: 5



1¾" Floor Offset

R1.75OSS\_  
R1.75OSSMR\_ \*\*



AVAILABLE FINISHES: A, AK  
ASSEMBLY LENGTH\*: 28¾"  
# OF COMPONENTS: 5

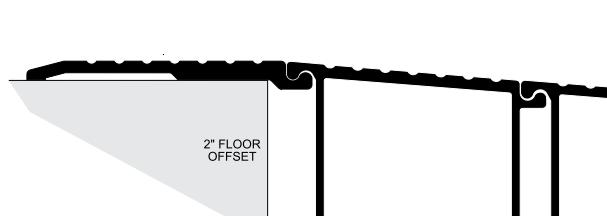


2" Floor Offset

R2OSS\_  
R2OSSMR\_ \*\*



AVAILABLE FINISHES: A, AK  
ASSEMBLY LENGTH\*: 31½"  
# OF COMPONENTS: 6



NOTE: Greater offset may be accomplished by using PEMKO risers.  
\*\* = Miter Returns are not ADA Compliant



Assembly Shown: R.75OSS

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)  
 A (Mill Finish Aluminum) AK (Mill Finish Aluminum with PemKote™ Non-Slip Coating)

## Modular Ramp Threshold Components

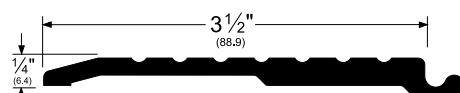
- Components are generally sold as part of assemblies
- Ramp Assemblies consist of interlocking components, eliminating the need to weld joints. Interlocking ball-joint design allows each component to flex and conform to uneven surfaces
- All assemblies carry the following labels:  
- PemKote™ is highly recommended for all threshold assemblies, especially exterior conditions where moisture may be present
- NOTE:** The following pages are for component identification only. Do not order from these pages. Order only complete assemblies from pages MR-2 - MR-4

### Top Plates

#### RAMP8\_

Short top plate

AVAILABLE FINISHES: A, AK



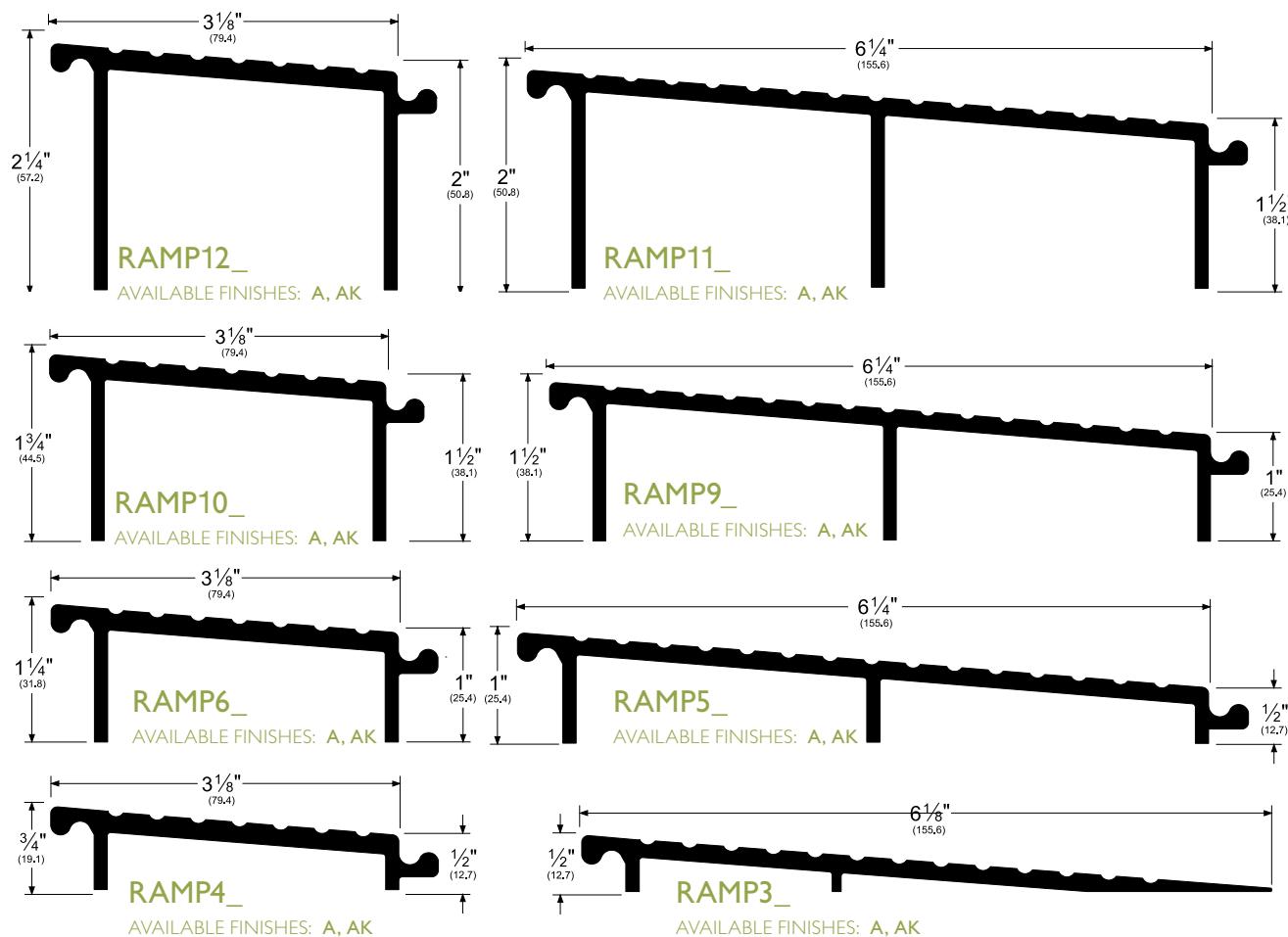
#### RAMP1\_

Top plate

AVAILABLE FINISHES: A, AK



### Bridges



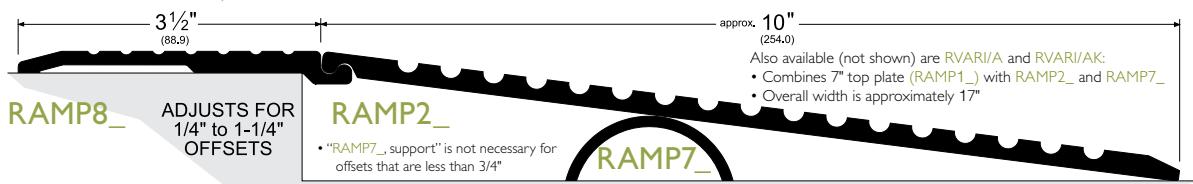
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)  
A (Mill Finish Aluminum) AK (Mill Finish Aluminum with PemKote™ Non-Slip Coating)

## Modular Ramp Threshold Assemblies - Variables

- Use a "Variable" component to accommodate offsets from  $\frac{1}{2}$ " to  $1\frac{1}{4}$ ". These meet the 1:8 maximum slope allowance (ADA) for existing buildings
- May require a variance from some state building codes, even though ADA compliant
- Ideal for use in cross traffic corridors where a minimal ramp projection may be required and a steeper slope may be allowed
- Supplied with #10 stainless steel sheet metal screws. Stainless steel machine screws and expansion shields are available at an extra cost
- Miter returns are not available due to the variable angle of this ramp. Please fill and feather the threshold ends. Do not leave threshold ends open
- This variable ramp is supplied un-drilled from PEMKO. Due to the variance in the angle, it must be drilled in the field. For proper installation, it requires the **RAMP7** to be placed under **RAMP2** after the assembly is in place, then must be match drilled and anchored through both components
- PemKote™ is highly recommended for all ramp threshold assemblies especially exterior conditions where moisture may be present
- All assemblies carry the following labels:   

### RVARIOSS

AVAILABLE FINISHES: A, AK



## Variable Ramp Components

### RAMP2\_

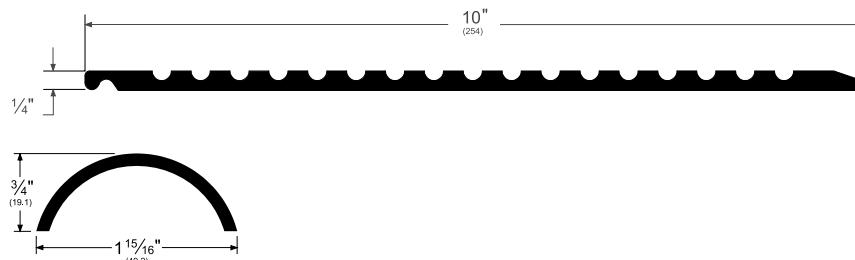
variable

AVAILABLE FINISHES: A, AK

### RAMP7\_

support for variable

AVAILABLE FINISHES: A, AK

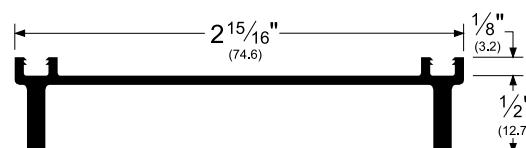


## Risers for Modular Ramps

- Risers easily attach to the legs of PEMKO's Modular Ramp Systems. Each adds  $\frac{1}{2}$ " in height to accommodate offsets greater than  $2\frac{1}{4}$ "
- Contact PEMKO Customer Service for information on stacking risers to reach desired height

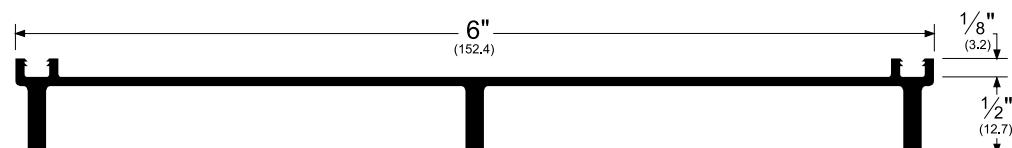
### RAMP13\_

AVAILABLE FINISHES: A, AK



### RAMP14\_

AVAILABLE FINISHES: A, AK



NOTE: Products shown in this section are not drawn to scale.

 AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)  
 A (Mill Finish Aluminum) AK (Mill Finish Aluminum with PemKote™ Non-Slip Coating)

## Miter Returns For Modular Ramp Thresholds

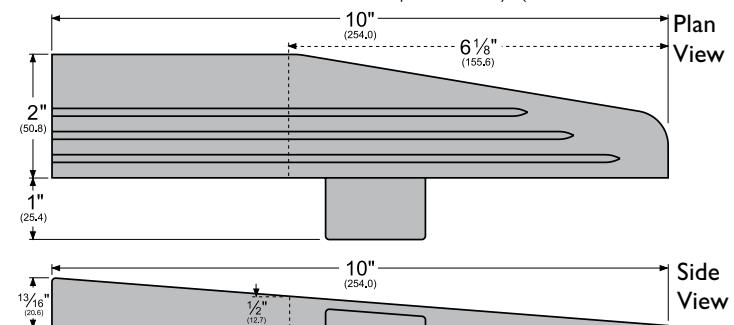
- Cast aluminum "wings" fit into end of modular ramp threshold assembly and are fastened to ramp mid sections with self-tapping machine screws
- Neat, compact, and tight-fitting design replaces former mitering methods

- Miter Returns are match-drilled with each assembly
- Miter Returns are not "ADA" compliant

### WING10\_H\_

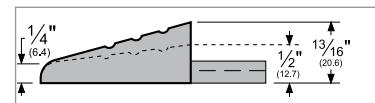
AVAILABLE FINISHES: A, AK

- WING10 can be trimmed to fit ramp assembly (dotted lines show cut down for use with R.5FMR\_)



### WING10RH\_

(right-hand) shown  
End View

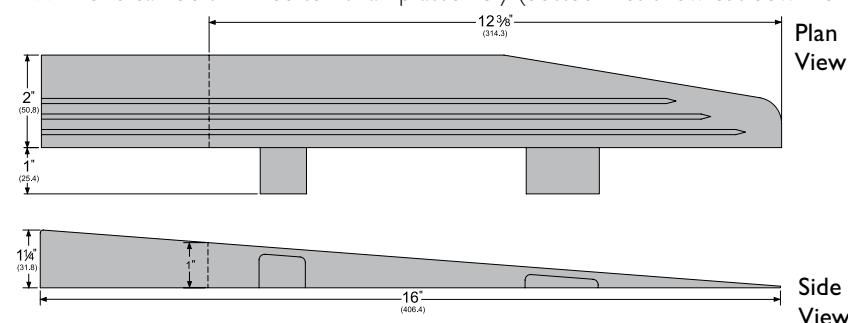


View from high-end

### WING16\_H\_

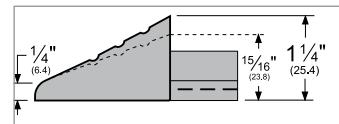
AVAILABLE FINISHES: A, AK

- WING16 can be trimmed to fit ramp assembly (dotted lines show cut down for use with R1FMR\_)



### WING16RH\_

(right-hand) shown  
End View

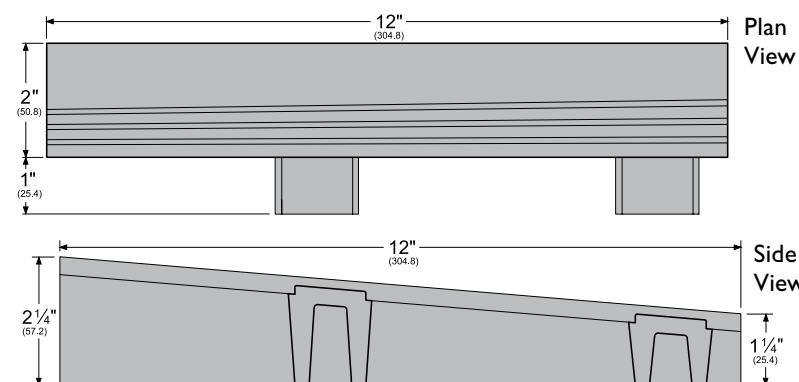


View from high-end

### WINGEXT\_H\_

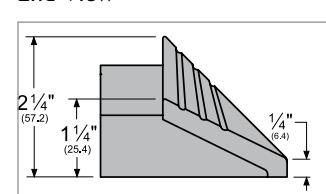
AVAILABLE FINISHES: A, AK

- WINGEXT are included with assemblies to completely fill ends for 2" offset or 2 1/4" flush conditions  
WINGEXT works in conjunction with WING16 for these higher offset conditions



### WINGEXTRH\_

(right-hand) shown  
End View



View from high-end

See flyer on the Literature page of [www.pemko.com](http://www.pemko.com) for WING cut-down chart.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)  
A (Mill Finish Aluminum) AK (Mill Finish Aluminum with Pemkote™ Non-Slip Coating)

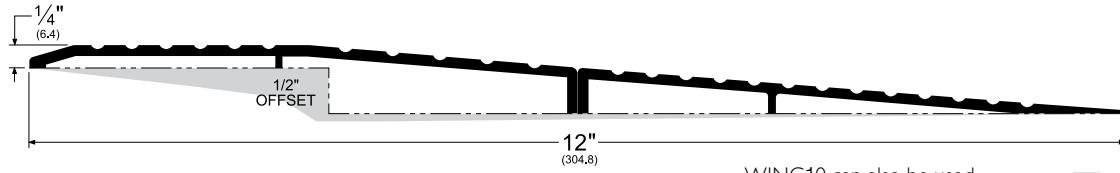
## Barrier-Free Ramp Thresholds

- The modular ramp thresholds are an improvement over the **257/259** however, **257/259** will remain available for special requirements
- Use **257** and **259** together, or use **257** with an abutted 1:12 concrete slope
- When used as a cover plate assembly (see Commercial Thresholds section), a longer spindle may be required

- Ramps on this page are not ADA compliant when used at a door opening
- The **257** is not ADA compliant when used alone.
- PemKote™ is highly recommended for all threshold assemblies, especially exterior conditions where moisture may be present

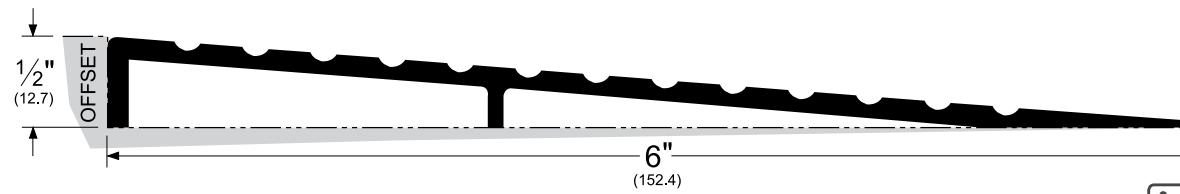
### 257 x 259\_

AVAILABLE FINISHES: A, B, D, G



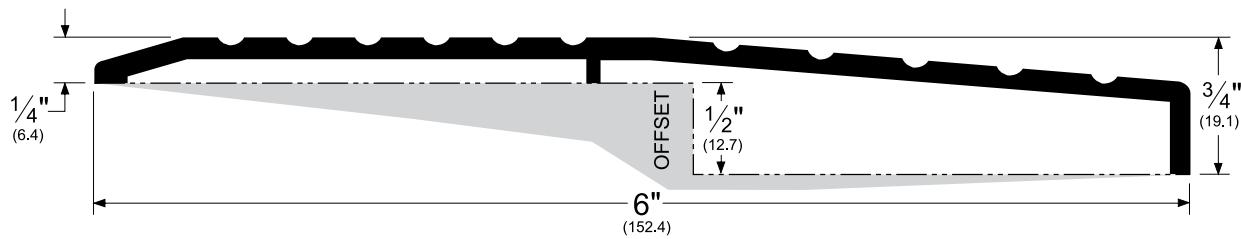
### 259\_

AVAILABLE FINISHES: A, B, D, G



### 257\_

AVAILABLE FINISHES: A, B, D, G



NOTE: Products shown in this section are not drawn to scale.

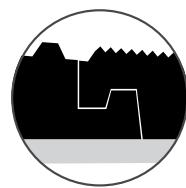
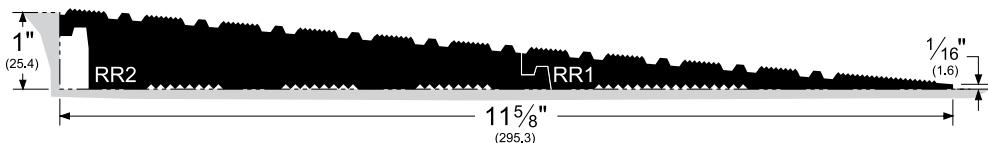
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)  
 A (Mill Finish Aluminum) AK (Mill Finish Aluminum with PemKote™ Non-Slip Coating) B (Mill Finish Extruded Bronze [Brass]) D (Dark Bronze Anodized)  
 G (Gold Anodized)

## Fire Retardant and Styrene Butadiene Rubber Ramp Thresholds

- Rubber ramps meet the requirements of **ADAAG-2010**; **IBC/ANSI A117.1**; and **California Title 24, Part 2**
- Styrene butadiene rubber ramps are weather, ozone, abrasion, and impact resistant; long-lasting and fire retardant
- Rubber ramps are sold in one foot increments up to 15-foot lengths
- Rubber ramps can be butted together for longer lengths
- Rubber ramps are cut square on each end but are available with molded rubber miter returns. To receive a pair of miter returns, add "MR" to the part number (example: **SBR.5FMR**)
- Rubber ramps have a superior grip, anti-slip surface and a "no bump" tapered lead edge. Rubber ramps are classified by Underwriters Laboratories, Inc.,® as a skid-resistant floor surface per **UL standard for safety, UL410**. Rubber ramps also meet the requirements of **ASTM D 2047** and **Federal Specification P-F-430C**
- Rubber ramps are easy to install on most surfaces by using a construction adhesive. Mechanical fasteners are not required and not recommended
- Rubber ramps are also portable. For temporary applications, an assembly stays in place by its sheer weight and can be removed from one opening and placed at another opening
- Use **RR200** to glue rubber ramps to floor surfaces
- Rubber ramps are available for  $\frac{1}{2}$ " and 1" offset heights
- Rubber ramps can be cross-cut to length or ripped to a custom offset height using a table or radial arm saw with a carbide-tipped blade. These modifications must be made in the field

### SBR1F

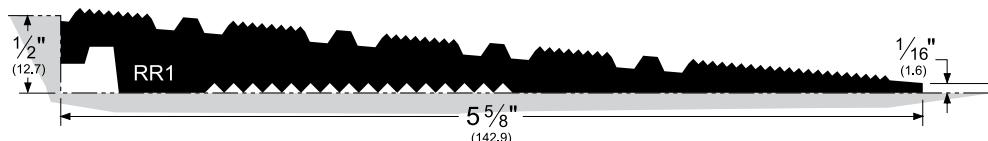
### SBR1FMR \*\*



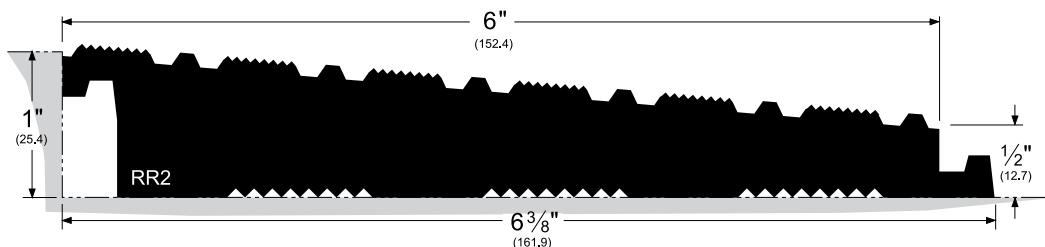
Assembly consists of two inter-locking components.

### SBR.5F

### SBR.5FMR \*\* RR1



### RR2



This component (RR2) is not ADA compliant when used by itself.

NOTE: Products shown in this section are not drawn to scale.

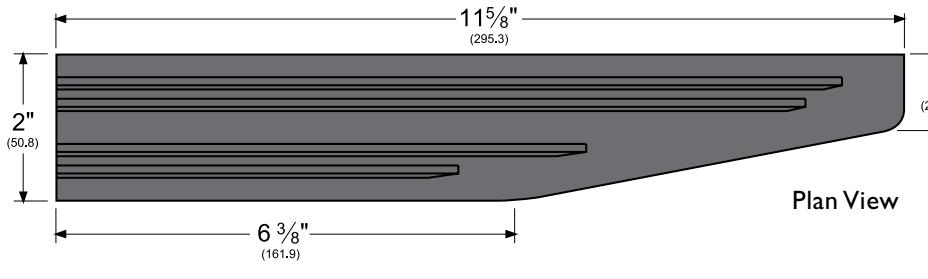
\*\* = Miter Returns are not ADA compliant

## Rubber Ramp Miter Returns

- Made from molded styrene butadiene rubber
- Glue miter returns to each end using an adhesive such as **RR200**

- Miter Returns are supplied in pairs: one left-hand (**RR12LH**) and one right-hand (**RR12RH**)
- If only one miter return is required, specify the handing

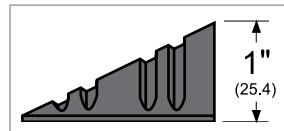
### RR12\_H



Plan View



### End View



Shown as viewed from the low end.

## Recycled Rubber Ramp Assembly

- ADA Compliant, based on application
- Meets: UL410, ASTM D2047, Federal Specification P-F-430C
- Recycled Rubber Ramp Assemblies meet **IBC/ANSI A117.1-2010**
- Made from #20 mesh minus crumb rubber (with urethane binders) reclaimed from 100% recycled rubber automotive tires
- PEMKO strongly recommends using **RR200** to glue rubber ramps to floor surfaces. Avoid Liquid Nails with Rubber Ramps

- Using ordinary tools, trim to fit your application
- Can be ripped for offsets less than 1 1/4"
- Plane bottom surface of ramp to accommodate irregular surface conditions
- Miter returns are molded into the design of the Recycled Rubber Ramp
- 36" and 60" ramps are supplied as one (1) piece assemblies
- 48" and 72" ramps are supplied as two (2) piece assemblies

## Ordering Chart

Other sizes are available, please contact PEMKO customer service.

PART #	WIDTH "A" (door opening)	WIDTH "B" (total width)
RR1.25FMR36	36"	41"
RR1.25FMR48	48"	53"
RR1.25FMR60	60"	65"
RR1.25FMR72	72"	77"
RR1.25FMR96	96"	101"

