



AthletEdge<sup>™</sup> is a line of flexible, L-shaped aluminum athletic surface restraints specifically designed for running tracks, jogging trails, tennis, basketball, and other court surfaces. AthletEdge's patented design and installation features work in concert with your athletic surfacing, providing a clean maintainable edge on your athletic installations. Weep holes allow for water drainage from the surface.

- Engineered to extend the life of athletic surfaces by helping to prevent broken edges and provide a finished, maintainable look along the sport surface border.
- Permaloc's patented AthletEdge is the only product specifically designed to be installed and perform as an integral restraint system for asphalt type athletic surfaces.
- AthletEdge is designed for poured in place athletic surfaces, asphalt over aggregate, asphalt overlay, and asphalt over concrete, including residential, commercial and municipal applications.



## 1. Product Name

Permaloc AthletEdge

## 2. Manufacturer

Permaloc Corporation

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## 3. Product Description

The AthletEdge family of products is the first restraint system in the world designed to perform integrally with asphalt and sport surfacing. Applications include tracks, basketball and tennis courts, jogging and walking trails and numerous other projects.

Permaloc AthletEdge is a line of flexible, L-shaped aluminum sporting surface/asphalt restraints designed for use over aggregate, asphalt or concrete. AthletEdge provides a clean appearance on all of your athletic surface installations.

AthletEdge's patented design and installation features work in concert with your sports surfacing allowing a clean maintainable edge on your sports installations for years to come.

### SIZES

AthletEdge is available in 1", 1-1/2", 2", 2-1/2", 3", and 4" depths. Sections available in 8' lengths.

### FINISHES

Finishes include: Mill (natural aluminum) and Black DuraFlex (electrostatically applied, baked on paint).

### ANCHORING

Anchoring is accomplished through the use of 10" spiral steel spikes and is designed to receive spikes every 4". Other anchoring options may be applicable.

### CONNECTION

Our unique sliding connection system eliminates possible weak points in the system.

## 4. Technical Data

### GENERAL

Manufactured of 6005 Alloy containing Silicon and Magnesium as the major alloying elements, contributing to good strength, corrosion resistance, weldability, and machinability.

According to the Aluminum Extruders Council (AEC) publication Extrusion Spotlight Alloys, aluminum alloyed in the 6XXX series contain the following desirable properties: 1. Very lightweight, one-third that of steel and concrete. 2. High strength, comparable to steel and steel/concrete composites. 3. Strength and ductil-

ity as high or higher at sub-zero temperatures than at room temperature. 4. Exceptional corrosion resistance. 5. Ease of fabrication by many techniques, including extrusion, to unique advantageous structural configurations. This publication can be found at www.aec.org.

### EXTREME LOW TEMPERATURE

The many advantages of extruded aluminum are not impaired by exposure to low temperatures. Aluminum actually gains strength as temperature is reduced, making it an appropriate metal for low temperature applications.

### ULTRAVIOLET RADIATION

Aluminum reflects ultraviolet radiation and is not damaged by it. Sunlight includes ultraviolet (electromagnetic) radiation which may cause chemical or structural changes in some commercial materials.

### COMBUSTABILITY

Extruded aluminum will not burn, which makes it safer than many other materials, such as wood, paper, or plastic for design applications. Extruded aluminum does not emit any toxic, hazardous fumes when exposed to high temperatures.

## 5. Installation

### BASE INSTALLATION

1. Install base per specifier/design instructions.
2. Extend base at least 6 inches beyond edge of restraint edging.
3. Level base beneath restraint edging.

### EDGING INSTALLATION

1. Install edging leaving 3/8" gap between sections for expansion.
2. Drive spikes through edging holes in base of asphalt restraint edging (or drive nails through aluminum base when using powder actuated fastening system) at spaces for following applications:
  - a. Anchor each section end.
  - b. Aggregate Base: Spiral steel spikes at 4 inches to 12 inches on center.
  - c. Softer or Thinner Asphalt Base: Spiral steel spikes at 4 inches to 12 inches on center spacing.
  - d. Older, Harder, or Thicker Asphalt Base: Hilti DX A41 Fully Automatic Powder Actuated Tool is desirable where sufficient hold can be obtained. Provide 1-1/2 inch to 2-1/2 inch nail at 4 inches to 12 inches on center spacing with applicable charge recommended.
  - e. Concrete Base: Hilti DXA41 Fully Automatic Powder Actuated Tool is desirable where sufficient hold can be obtained. Provide 3/4 inch to 1 inch nail at 4 inches to 12 inches on center spacing with applicable charge recommended. Anchor into outer 1 inch of base of restraint edging and not less than 2-1/2 inches from edge of concrete.
3. Securely connect sections in accordance with manufacturer's instructions. Provide additional anchors at closer spacing as necessary to firmly secure edging for permanent intended use.

## PAVEMENT INSTALLATION

1. If asphalt installation is over restraint edging, avoid excessive asphalt temperatures to minimize aluminum expansion.
2. Lay asphalt pavement adjacent to and approximately 1/2 inch over top of restraint edging, depending on expected compaction results. Then, compact first pass with desired equipment within 6 inches of restraint edging. "Pinch roll" to create a hard joint. Subsequent passes may be directly against or over top of edging to ensure complete compaction of asphalt pavement.
3. Finish pavement shall be compacted and level with, but not to exceed 1/4 inch above top of restraint edging.

## BACKFILLING AND CLEANUP

Backfill and compact backfill material along edging. Cleanup and remove excess material.

## 6. Availability & Cost

### AVAILABILITY

Product is supported by a global network of distributors. Consult manufacturer for information on local availability.

### COST

Information regarding budget and installed costs can be obtained from the manufacturer.

## 7. Warranty

15-year limited material warranty for edging from manufacturing defects in workmanship or material. Contact manufacturer for more information on warranty terms.

## 8. Maintenance

Permaloc edging systems typically require maintenance only in the event that the landscape design is changed.

## 9. Technical Services

Permaloc Corporation works closely with the specifier to ensure the appropriate products are chosen for the application. For technical assistance, contact the manufacturer.

## 10. Filing Systems

Additional product information is available from the manufacturer at www.permaloc.com or by calling 1.800.356.9660.

