



GeoEdge[™] is a flexible, multi-height, durable aluminum edge restraint and component system for the green build environment, including landscaped roof systems and permeable pavement applications. GeoEdge has a sturdy L-shaped profile available in several heights, with a choice of a solid wall or a slotted wall, which allows for water runoff.

- GeoEdge is a lightweight, flexible restraint that provides a finished look and assures an easy installation, making it a great alternative to poured concrete in permeable pavement applications.
- Engineered for use in greenroof applications, GeoEdge can be used to retain greenroof planting material, as well as stones, pavers and tiles for rooftop walkways.
- GeoEdge has been proven successful for both Intensive and Extensive Greenroofs, and qualifies for LEED points.



1. Product Name

Permaloc GeoEdge

2. Manufacturer

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3. Product Description

GeoEdge is designed to provide a high quality edge restraint system for the Green Building Industry. GeoEdge is engineered for use in edging greenroof applications. GeoEdge can be used to retain green roof planting material, as well as pavers and tiles for rooftop walkways. GeoEdge has been proven successful for both Intensive Greenroofs and Extensive Greenroofs. In addition to GeoEdge, many of Permaloc's versatile products have been used for special green roof applications.

From residential roofs to large-scale commercial and government projects, GeoEdge offers the greenroof industry a lightweight, flexible restraint that provides a finished look and assures an easy installation.

SIZES

GeoEdge is available in 3", 3-1/2", 4", 4-1/4", 4-1/2", 5-1/2", 6-1/2", 7-1/2", and 8-1/2" depths. Sections available in 8' lengths.

Preformed 90-degree inside and outside corners available in 3", 3-1/2", 4", 4-1/4", 4-1/2", 5-1/2", 6-1/2", 7-1/2", and 8-1/2" depths.

Drain Boxes and Drain Rounds are also available in 3", 3-1/2", 4", 4-1/4", 4-1/2", 5-1/2", 6-1/2", 7-1/2", and 8-1/2" depths with covers.

FINISHES

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

DRAINAGE

Water runoff is allowed to pass through the GeoEdge restraint through a series of cathedral shaped drainage holes.

CONNECTION

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

4. Technical Data

GENERAL

Manufactured of 6063 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 ductility 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

MEMBRANE INSTALLATION

Install membrane per specifier and/or manufacturer instructions.

EDGING INSTALLATION

Place GeoEdge in desired locations according to building plans. GeoEdge should be placed on top of the membrane and any other drainage layers/slip sheets, as directed by specification.

ANGLES & CORNERS

Angles and corners are formed by cutting the horizontal base (using a hacksaw) and bending to the desired angle. When possible, a corner angle should be formed using a continuous section. Preformed corners are also available from the manufacturer.

DRAIN BOXES & COVERS

Prefabricated Drain Boxes are to be set in place and securely fastened together using the provided hardware, or equivalent. Covers must be securely fastened to the edging using self tapping screws provided, or equivalent.

BACKFILLING AND CLEANUP

Backfill and compact backfill material along

edging. Cleanup and remove excess material from site.

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 landscape edging from manufacturing defects in workmanship or material. Contact manufacturer for more information on warranty terms.

8. Maintenance

Permaloc edging systems typically only require maintenance 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.

