

## LEED Rating System

The LEED Rating System is the standard for establishing what is considered a “green building”. No product is technically “LEED certified”, but combinations of a number of environmentally responsible building products and building design strategies achieve the points toward a building becoming LEED certified. The new recycled content Enkadrain products, as well as other Enka Engineered products can be used qualify for LEED points in a number of different categories.

## Sustainable Sites

### Erosion & Sedimentation Control (Prerequisite)

- Prevent loss of soil during construction by stormwater runoff and/or wind erosion, including protecting topsoil by stockpiling for reuse.
- Prevent sedimentation of storm sewer or receiving streams.
- Prevent polluting the air with dust and particulate matter.
- A number of Colbond Civil Engineering Products such as Enkamat can be used to achieve this required prerequisite

### Site Selection 1 (1 point)

- Reduce the environmental impact by minimizing site disruption.
- Enkamat, Enkagrid, and Enkadrain products can be :
  - Used to create steeper slopes
  - Used with site retaining walls that help minimize the amount of disturbed land area.

### Reduced Site Disturbance: Protect/Restore Open Space 5.1 (1 point)

- Similar goals of reducing earthwork and clearing of vegetation around the building, parking and roadways.
- Enkamat, Enkagrid and Enkadrain can help achieve this as well.

### Stormwater Management: Rate & Quantity 6.1 (1 point)

- Requires designs to either :
  - Reduce the amount of impervious surface
  - Reduce the rate and quantity of stormwater runoff
- Enkamat, Enkagrid and Enkadrain can help achieve this as well.
- Green roofs with EnkaRetain & Drain, Enkadrain, and Enkamat for drain layers and root reinforcement mats:
  - Reduce amount of impervious surface
  - Reduce amount of runoff water

### Stormwater Management: Treatment 6.2 (1 point)

- Designing stormwater treatment systems to remove suspended solids & phosphorus.
- Enkamat products are used to stabilize soils and reinforce vegetation in vegetated filter strips, channels, and bioswales.

### Heat Island Effect: Non-Roof 7.1 (1 point)

- Place parking below grade in order to have less heat generated by open parking areas
- Below grade parking structures that need Enkadrain subsurface drainage

## Sustainable Sites

### Heat Island Effect: Roof 7.2 (1 point)

- Use alternate roofing types to reduce heat absorption by buildings
- Enkadrain, EnkaRetain & Drain and Enkamat can be used to build green roofs.
- Installing a vegetated roof for 50% of the total roof area will provide one point

## Energy & Atmosphere

### Minimum Energy Performance (Prerequisite 2)

- Design building to comply with ASHRAE/IESMA Standard 90.1-1999 (Energy Code)
- Enkamat in the building envelope to reduce heating and cooling loads
- Use of vegetated roofs to reduce heating and cooling loads
- Enkadrain, EnkaRetain & Drain, and Enkamat can be used to create a green roofs.

### Optimize Energy Performance 1 (1-10 points)

- Design building to go beyond ASHRAE/IESMA Standard 90.1-1999 (Energy Code)
- Enkamat in the building envelope to reduce heating and cooling loads
- Use of vegetated roofs to reduce heating and cooling loads
- Enkadrain, EnkaRetain & Drain, and Enkamat can be used to create a green roofs.

## Materials & Resources

### Recycled Content 5% 4.1 (1 point)

- Materials used in the building must have the sum of post-consumer recycled content and ½ of the post-industrial recycled content equal to 5% of the total building material
- Enkadrain 3000R series drains have a core which is made of 40% post industrial recycled content polypropylene
- Use of other new Colbond products containing recycled material

### Recycled Content 10% 4.2 (1 point)

- Materials used in the building must have the sum of post-consumer recycled content and ½ of the post-industrial recycled content equal to 10% of the total building material
- Enkadrain 3600 & 3800 series drains have a core which is made of 40% post industrial recycled content polypropylene
- Use of other new Colbond products using recycled material

### Regional Materials: 20% manufactured regionally 5.1 (1 point)

- Materials manufactured within 500 miles of the project site
- Any Colbond product used within 500 miles of Enka, North Carolina

Colbond Building and Civil Engineering Products can help contribute an amazing 19 LEED points in buildings and sites designed to be sustainable..