

“WaterAlley” Rainscreen Drainage Mats:

LEED & WaterAlley Rainscreen Products: 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 within WaterAlley Rainscreen products, as well as other WaterAlley Engineered products can be used to qualify for LEED points in a number of different categories.

WaterAlley Building Products can help contribute an amazing **19 LEED** points in buildings and sites designed to be sustainable.

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 WaterAlley products can be used to achieve this required prerequisite.

Site Selection 1

(1 point)

- Reduce the environmental impact by minimizing site disruption.
- WaterAlley 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.
- WaterAlley mats 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
- WaterAlley mats can help achieve this objective.
- Green roofs with WaterAlley materials incorporated 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.
- WaterAlley 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 need WaterAlley subsurface drainage

Heat Island Effect: Roof 7.2
(1 point)

- Use alternate roofing types to reduce heat absorption by buildings
- WaterAlley Mats can be used to build green roofs.
- Installing a vegetated roof for 50% of the total roof area will provide 1 point

Energy & Atmosphere:

Minimum Energy Performance (Prerequisite 2)

- Design building to comply with ASHRAE/IESMA Standard 90.1-1999 (Energy Code)
- WaterAlley Mats in the building envelope reduce heating and cooling loads
- Use of vegetated roofs can also reduce heating and cooling loads
- WaterAlley Mats can be used to create a green roof.

Optimize Energy Performance 1
(1-10 points)

- Design building to go beyond ASHRAE/IESMA Standard 90.1-1999 (Energy Code)
- WaterAlley Mats in the building envelope to reduce heating and cooling loads
- Use of vegetated roofs to reduce heating and cooling loads
- WaterAlley Mats can be used to create a green roof.

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
- Many WaterAlley products (#9714A for example) have a core which is made of 40% post industrial recycled content polypropylene
- Use of other WaterAlley products containing recycled materials

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
- Many WaterAlley products (#9714A for example) have a core which is made of 40% post industrial recycled content polypropylene
- Use of other new WaterAlley products using recycled material

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

- Materials manufactured within 500 miles of the project site
 - Any WaterAlley product used within 500 miles of Enka, North Carolina or Mayfield Heights, Ohio