

# **USGBC LEED Rating System**

## ***How Each Credit Applies to Invisible Structures, Inc. Products***

MPR = Minimum Project Requirements  
WE = Water Efficiency

SS = Sustainable Sites  
MR = Materials and Resources

- **MPR #1: Must Comply with Environmental Laws**

Grasspave<sup>2</sup>, Gravelpave<sup>2</sup>, Rainstore<sup>3</sup>, and/or Slopetame<sup>3</sup> can help each site comply with NPDES Phase II, an Environmental Law addressing the reduction of NPS Pollution in Stormwater among other things.

- **SS Credit 5.1: Site Development - Protect or Restore Habitat (1 Point)**

To conserve existing natural areas and restore damaged areas to provide habitat and promote biodiversity.

- o Case 1:

- Use of Grasspave<sup>2</sup>, Gravelpave<sup>2</sup> or Rainstore<sup>3</sup> with permeable cover extends the boundary of site disturbance from 10 feet to 25 feet, allowing for more room to work during construction.
- Use of Beachrings<sup>2</sup> anywhere on site would not classify as site disturbance. Great for use as walkway or ADA accessible surface.

- o Case 2:

- Installing Grasspave<sup>2</sup>, Slopetame<sup>3</sup>, or Rainstore<sup>3</sup> in areas previously developed with asphalt or concrete, and seeding over these areas with native plants, would contribute to the percent of area restored.
- If the site were earning SS Credit 2: Development Density and Community Connectivity, using Draincore<sup>2</sup> and/or Grasspave<sup>2</sup> in a vegetated roof seeded with native plants would contribute to the percent of area restored.

- **SS Credit 5.2: Site Development - Maximize Open Space (1 Point)**

To promote biodiversity by providing a high ratio of open space to development footprint.

- o For All 3 Cases:

- Use of Grasspave<sup>2</sup> and Slopetame<sup>3</sup> will increase the vegetated open space necessary to achieve this credit.

- If a site also earns SS Credit 2, use of Draincore2 and/or Grasspave2 on a vegetated roof will count toward the vegetated area requirement of this credit.

- **SS Credit 6.1: Stormwater Design – Quantity Control (1 Point)**

To limit disruption of natural hydrology by reducing impervious cover, increasing on-site infiltration, reducing or eliminating pollution from stormwater runoff and eliminating contaminants.

- All Cases:
  - Use of Grasspave2 and Gravelpave2 minimizes impervious surfaces and increases infiltration.
  - Use of Rainstore3, when installed with an impermeable liner, allows for short or long-term underground water storage for non-potable uses.
  - Use of Rainstore3, when installed with a non-woven geotextile, increases infiltration and groundwater recharge.
  - Draincore2 and/or Grasspave2 on a vegetated roof will minimize impervious surface area.
  - Use of Slopetame3 will protect stream channel from excessive erosion.

- **SS Credit 6.2: Stormwater Design – Quality Control (1 Point)**

To limit disruption and pollution of natural water flows by managing stormwater runoff.

- All Cases:
  - Use of Grasspave2 and Gravelpave2 minimizes impervious surfaces, increasing infiltration, and reducing pollutant loads.
  - Use of Rainstore3, when installed with an impermeable liner, allows for short or long-term underground water storage for non-potable uses.
  - Use of Rainstore3, when installed with a non-woven geotextile, increases infiltration and groundwater recharge.
  - Draincore2 and/or Grasspave2 on a vegetated roof will minimize impervious surface area.
  - Use of Slopetame3 can be used in vegetated swales to reduce imperviousness and promote infiltration and thereby reduce pollutant load.

- **SS Credit 7.1: Heat Island Effect – Nonroof (1 Point)**

To reduce heat islands to minimize impacts on microclimates as well as human and wildlife habitats.

- Option 1:
  - Use of Grasspave2 will qualify as “open grid pavements system” and can be computed toward area calculation
  - Use of Gravelpave2 will qualify when filled with gravel material with an SRI of at least 29
  - Option 2: Draincore2 and/or Grasspave2 can be used on a vegetated roof to cover a parking area to reduce heat absorption.

- **SS Credit 7.2: Heat Island Effect – Roof (1 Point)**

To reduce head islands to minimize impacts on microclimates and human and wildlife habitat.

- Option 2 and 3:
  - Draincore2 and/or Grasspave2 can be used on a vegetated roof to reduce heat absorption.

- **WE Prerequisite 1: Water Use Reduction (REQUIRED)**

To increase water efficiency within buildings to reduce the burden on municipal water supply and wastewater systems.

- Use of Rainstore3, when installed with an impermeable liner, allows for short or long-term underground water storage for non-potable water sewage conveyance.

- **WE Credit 1: Water Efficient Landscaping (2-4 Points)**

To limit or eliminate the use of potable water or other natural surface or subsurface water resources available on or near the project site for landscape irrigation.

- For Both Options: Option 1. Reduce by 50% (2 Points) or Option 2. Non-Potable Water Use or Irrigation (4 Points)
  - Use of Rainstore3, when installed with an impermeable liner, allows for short or long-term underground water storage for irrigation use.
  - Draincore2 and/or Grasspave2 can be used on a vegetated roof to collect stormwater and convey it to Rainstore3 to store for irrigation use.

- **WE Credit 2: Innovative Wastewater Technologies (2 Points)**

To reduce wastewater generation and potable water demand while increasing the local aquifer recharge.

- Option 1:
  - Use of Rainstore3, when installed with an impermeable liner, allows for short or long-term underground water storage for non-potable water sewage conveyance.

**WE Credit 3: Water Use Reduction (REQUIRED)**

To further increase water efficiency within buildings to reduce the burden on municipal water supply and wastewater systems.

- Use of Rainstore3, when installed with an impermeable liner, allows for short or long-term underground water storage for non-potable water sewage conveyance.

**MR Credit 4: Recycled Content (1-2 Points)**

To increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials.

- Rainstore3 counts as 50% Post-Consumer and 50% Post-Industrial Recycled Material.
- Grasspave2, Gravelpave2, Slopetame3, and Draincore2 count as 100% Post-Consumer Recycled Material.

- **MR Credit 5: Regional Materials (1-2 Points)**

To increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.

- All products: Grasspave2, Gravelpave2, Slopetame3, Draincore2, Rainstore3, and Beachrings2 can qualify as long as the project is within 500 miles of Aurora, CO.