

USGBC Unrolls New LEED Version 3

– How Each ISI Product Can be Used for Different Credits

MPR = Minimum Project Requirements

SS = Sustainable Sites

WE = Water Efficiency

MR = Materials and Resources

Grasspave2

- MPR #1: Must Comply with Environmental Laws – use of Grasspave2 can help a site comply with NPDES Phase 2 regulations regarding the amount of stormwater allowed off site post-development.
 - The porous pavement will allow a greater percentage of water to infiltrate on-site reducing the calculated post-development flow rate.
- 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.
 - Case 1: use of Grasspave2 extends the boundary of allowable site disturbance from 10 feet to 25 feet, allowing for more room to work during construction.
 - Case 2:
 - Installing Grasspave2 in areas previously developed with asphalt or concrete, and seeding with native plants, would contribute to the percent of area restored.
 - Installing Grasspave2 on a vegetated roof and seeding it with native plants would contribute to the percent area restored if the site were also earning SS Credit 2: Development Density and Community Connectivity.
- 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.
 - For All 3 Cases:
 - Using Grasspave2 as a parking area, fire lane, grass drive, or similar will count toward the vegetated open space necessary to achieve this credit.
 - Installing Grasspave2 on a vegetated roof would contribute to the percent area vegetated if the site were also earning SS Credit 2: Development Density and Community Connectivity.
- 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:
 - Using Grasspave2 as a parking area, fire lane, grass drive, or similar will minimize the impervious surface on-site and increase infiltration.

- Using [Grasspave2](#) on a vegetated roof will minimize impervious surface on-site.
- 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:
 - Using [Grasspave2](#) minimizes impervious surfaces, increases infiltration, and reduces pollutant loads.
 - Using [Grasspave2](#) on a vegetated roof will minimize impervious surface on-site.
- SS Credit 7.1: Heat Island Effect – Nonroof (1 Point): To reduce heat islands to minimize impacts on microclimates and human and wildlife habitats.
 - Option 1:
 - Use of [Grasspave2](#) will qualify as “open grid pavements system” and can be computed toward area calculation
 - Option 2:
 - [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:
 - [Grasspave2](#) can be used on a vegetated roof to reduce heat absorption.
- 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. No Potable Water Use or Irrigation (4 Points)
 - [Grasspave2](#) can be used on a vegetated roof to collect stormwater and convey it to [Rainstore3](#) or similar device to store for irrigation use.
- 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.
 - [Grasspave2](#) counts as 100% PREconsumer 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.
 - [Grasspave2](#) can qualify as long as the project is within 500 miles of Aurora, CO

Gravelpave2

- MPR #1: Must Comply with Environmental Laws – use of Gravelpave2 can help a site comply with NPDES Phase 2 regulations regarding the amount of stormwater allowed off site post-development.
 - The porous pavement will allow a greater percentage of water to infiltrate on-site reducing the calculated post-development flow rate.
- 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.
 - Case 1: use of Gravelpave2 extends the boundary of allowable site disturbance from 10 feet to 25 feet, allowing for more room to work during construction.
- 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:
 - Using Gravelpave2 as a parking area, fire lane, or similar will minimize the impervious surface on-site and increase infiltration.
- 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:
 - Using Gravelpave2 minimizes impervious surfaces, increases infiltration, and reduces pollutant loads.
- SS Credit 7.1: Heat Island Effect – Nonroof (1 Point): To reduce heat islands to minimize impacts on microclimates and human and wildlife habitats.
 - Option 1:
 - Use of Gravelpave2 will qualify when filled with gravel material with an SRI of at least 29
- 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.
 - Gravelpave2 counts as 100% PREconsumer 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.
 - Gravelpave2 can qualify as long as the project is within 500 miles of Aurora, CO

Draincore2

- MPR #1: Must Comply with Environmental Laws – use of Draincore2 can help a site comply with NPDES Phase 2 regulations regarding the amount of stormwater allowed off site post-development.
 - Collecting and conveying water elsewhere for irrigation purposes with Draincore2 will reduce post-development flow rate.
- 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.
 - Case 2:
 - Installing Draincore2 on a vegetated roof and seeding it with native plants would contribute to the percent area restored if the site were also earning SS Credit 2: Development Density and Community Connectivity.
- 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.
 - For All 3 Cases:
 - Installing Draincore2 on a vegetated roof would contribute to the percent area vegetated if the site were also earning SS Credit 2: Development Density and Community Connectivity.
- 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:
 - Using Draincore2 on a vegetated roof will minimize impervious surface on-site.
- 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:
 - Using Draincore2 on a vegetated roof will minimize impervious surface on-site.
- SS Credit 7.1: Heat Island Effect – Nonroof (1 Point): To reduce heat islands to minimize impacts on microclimates and human and wildlife habitats.
 - Option 2:
 - Draincore2 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** can be used on a vegetated roof to reduce heat absorption.
- 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. No Potable Water Use or Irrigation (4 Points)
 - **Draincore2** can be used on a vegetated roof to collect stormwater and convey it to **Rainstore3** or similar device to store for irrigation use.
- 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.
 - **Draincore2** counts as 100% PREconsumer 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.
 - **Draincore2** can qualify as long as the project is within 500 miles of Aurora, CO

Rainstore3

- MPR #1: Must Comply with Environmental Laws – use of **Rainstore3** can help a site comply with NPDES Phase 2 regulations regarding the amount of stormwater allowed off site post-development.
 - Using **Rainstore3** wrapped in a non-woven geotextile will allow collected stormwater to infiltrate back into the ground, thus reducing post-development flow rate.
 - Using **Rainstore3** wrapped in an impermeable liner will collect stormwater making it available for non-potable reuse, thus reducing non-potable post-development flow rate.
- 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.
 - Case 1: use of **Rainstore3** with permeable cover extends the boundary of allowable site disturbance from 10 feet to 25 feet, allowing for more room to work during construction.
 - Case2:
 - Installing **Rainstore3** in areas previously developed with asphalt or concrete, and seeding the system over with native plants, would contribute to the percent of area restored.

- 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 [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.

- 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 [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.

- 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. No 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.

- 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: 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 100% POSTconsumer 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.
 - [Rainstore3](#) can qualify as long as the project is within 500 miles of Aurora, CO

Slopetame2

- MPR #1: Must Comply with Environmental Laws – use of [Slopetame2](#) can help a site comply with NPDES Phase 2 regulations regarding the amount of stormwater allowed off site post-development.
 - [Slopetame2](#) can reduce erosion and soil migration, allow for biofiltration of stormwater runoff, and recharge the ground water reducing the post-development flow rate.
- 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.
 - Case2:
 - Installing [Slopetame2](#) in areas previously developed with asphalt or concrete, and seeding 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.
 - For All 3 Cases:
 - Use of [Slopetame2](#) will increase the vegetated open space necessary to achieve 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 **Slopetame2** 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 **Slopetame2** can be used in vegetated swales to reduce imperviousness and promote infiltration and thereby reduce pollutant load.
- 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.
 - **Slopetame2** counts as 100% PREconsumer 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.
 - **Slopetame2** can qualify as long as the project is within 500 miles of Aurora, CO

Beachrings2

- 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.
 - Case 1:
 - Use of **Beachrings2** anywhere on site would not classify as site disturbance. Great for use as walkway or ADA accessible surface.
- 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.
 - **Beachrings2** can qualify as long as the project is within 500 miles of Aurora, CO