# LEED® GREEN BUILDING RATING SYSTEM™

The U.S. Green Building Council® (USGBC®) has developed The Leadership in Energy and Environmental Design (LEED®) Green Building Rating System™ to encourage and accelerate the practice of sustainable green building and development. There are a variety of categories in the LEED® Rating System.

Sustainable Sites (SS)
Materials & Resources (MR)
Water Efficiency (WE)
Regional Priority (RP).

East Coast Erosion Control products can contribute to the accumulation of LEED® project certification credits in various methods.

## Rolled Erosion Control Products (RECP)

**East Coast Erosion Blankets™** come in temporary Erosion Control Blanket "ECB" and permanent Turf Reinforcement Mat "TRM" varieties. All the products are designed to provide erosion protection while encouraging vegetation establishment. Applications range from mild slopes to high-flow channels.

## Hydraulic Erosion Control Products (HECP)

The **GroundControl hydraulically-applied mulch** product line is exclusive to East Coast Erosion Control. It is a patent-pending straw and reclaimed cotton plant material mixture created to assist with erosion control. The products are developed in coordination with Cotton Incorporated, and have a low carbon to nitrogen ratio to assist with rapid and healthy vegetation. Applications include mild to steep slopes and dust control.

## Sediment Retention Fiber Products (SRFP)

The **ECWattles™** are cylindrical products intended to help with sediment control by catching soil particles while allowing the runoff stormwater to filter through the device. The products are filled with rapidly renewable matrixes and the outer casing is photodegradable or biodegradable.

Products are not reviewed or certified under LEED. LEED credit requirements cover the performance of materials in aggregate, not the performance of individual products or brands. For more information on LEED, visit www.usgbc.org

| LEED® Category and Potential Credits for New Construction (NC) and/or Existing Buildings (EB) | | Rolled Erosion Control Products (RECP) Erosion Control Blankets and Turf Reinforcement Mats | | | | | | | | | | | | | | | | Ground Control HECP | | | | Sediment Retention Fiber Products (SRFP) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ECS-1/ECS-1D | ECS-1B | ECS-2/ECS-2D | ECS-2B | ECSC-2 | ECSC-2B | ECC-2 | ECC-2B | ECX-1 | ECX-2 | ECP-2 10 OZ | ECP-2 | ECSC-3 | ECC-3 | ECP-3 | TRECS | HY-C1 | HY-C2 | HY-C3 | HY-C4 | STRAW | EXCELSIOR | MULCH | COIR LOG |
| **SS Prerequisite #1** **Required for NC & EB** Construction Activity Pollution Prevention | 0 | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| **SS 3.0 EB** Integrated Pest Management, Erosion Control | 1 | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| **SS 5.1 NC & EB** Site Developlment Protect or Restore Habitat | 1 | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| **SS 5.2 NC** Site Development Maximize Open Space | 1 | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | | | | |
| **SS 6.1 NC & EB** Stormwater Design Quality Control | 1 | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| **SS 6.2 NC** Stormwater Design Quality Control | 1 | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| **WE 1.0 NC** **WE 3.0 EB** Water Efficient Landscape | 1-2 | x | x | x | x | x | x | x | x | x | x | | | x | x | | | x | x | x | x | x | x | x | x |
| **MR 4.1 NC** Recycled Content, 10% | 1 | | | | | | | | | | | | | | | | | x | x | x | x | | | | |
| **MR 4.2 NC** Recycled Content, 20% | 2 | | | | | | | | | | | | | | | | | | | x | x | | | | |
| **MR 5.1 NC** Regional Matericals 10%* | 1 | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| **MR 5.2 NC** Regional Matericals 20%* | 2 | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| **MR 6.0 NC** Rapidly Renewable Materials | 1 | x | x | x | x | x | x | x | x | x | x | | | x | x | | | x | x | x | x | x | x | x | x |
| **RP NC & EB** Regional Priority** | 1-4 | | | | | | | | | | | | | | | | | | | | | | | | |

*Credit validation based on proximity of project site to manufacturing facility.
**Credit validation based upon earning four of the six required priority credits in the project site's respective zip code. Complete list of specific credits can be found at www.usgbc.org



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This guide provides a summary of how East Coast Erosion Control products can potentially contribute towards satisfying credits under LEED® Rating System version 3.

**SS Prerequisite #1: Construction Activity Pollution Prevention**
Intent: To reduce pollution from construction activities by controlling soil erosion, waterway sedimentation and airborne dust.
RECP: Products minimize pollution from earth disturbance activities by controlling sediment laden stormwater and air bourne dust particles.
HECP: GroundControl helps control dust particles and assists with preventing erosion control.
SRFP: Products filter offsite drainage and reduce sediment concentration to waterways.

**SS 3.0: Integrated Pest Management, Erosion Control and Landscape Management Plan - (EB)**
Intent: To preserve ecological integrity, enhance natural diversity and protect wildlife while supporting high-performance building operations and integration into the surrounding landscape.
RECP: Products can be used to reestablish vegetation on disturbed soils and are used for erosion control.
HECP: The products can be applied to all bare soils to reestablish vegetation and help control erosion.
SRFP: The products are utilized to minimize erosion and the resulting sedimentation from disturbed soils.

**SS 5.1: Site Development - Protect or Restore Habitat**
Intent: To conserve existing natural areas and restore damaged areas to provide habitat and promote biodiversity.
RECP: All RECPs establish vegetation quickly in damaged areas and restore habitat.
HECP: The HECPs have a low carbon-to-nitrogen ratio and encourage plant growth above and below the ground surface. In addition, the products are net-free and will not entangle wildlife.
SRFP: The wattles do not disrupt wildlife migration patterns, and the end stage of the product can be introduced to the site and be incorporated into the soil matrix.

**SS 5.2: Site Development - Maximize Open Space**
Intent: To promote biodiversity by providing a high ratio of open space to development footprint.
RECP: ECBs help sites reestablish disturbed areas with native or adapted plant materials. TRMs allow for green vegetation rather than hard-armoring.
HECP: The HECPs provide an erosion control method on steep slopes that allow multiple options for building location selections within the state.

**SS 6.1: Stormwater Design - Quality Control**
Intent: To limit disruption of natural hydrology by reducing impervious cover, increasing on-site infiltration, reducing or eliminating pollution from storm water runoff, and eliminating contaminants.
RECP: RECPs increase on-site infiltration, reduce storm water runoff, and provide a restoration of the natural hydrologic process.
HECP: The HECPs increase porosity and contribute to the natural hydrology process.
SRFP: The products reduce peak storm water flows to receiving waterways.

**SS 6.2: Stormwater Design - Quality Control**
Intent: To limit disruption and pollution of natural water flows by managing storm water runoff.
RECP: The erosion blankets prevent soil particle displacement and keep sediment particles on site.
HECP: The mulch prevents rain drop splash erosion thereby eliminating soil detachment and transport to the waterways.
SRFP: Products are designed to treat storm water runoff, remove pollutants, and reduce the TSS loads by up to 90%.

**WE 1: Water Efficient Landscaping (NB)**
**WE 2: Water Efficient Landscaping (EB)**
Intent: To limit or eliminate the use of potable water or other natural surface or subsurface water resources available on or neat the project site for landscape irrigation.
RECP: The organic fiber matrix absorbs precipitation and slowly releases moisture into the soil.
HECP: The non crusting surface allows precipitation to pass through the product and infiltrate the soil.
SRFP: The organic base matrixes have high water holding capacity and slowly release the capture storm water into the soil after storm events.

**MR 4: Recycled Content**
Intent: To increase demand for building products that incorporate recycled materials, thereby reducing impacts resulting from the extraction and processing of virgin materials.
HECP: A portion of the raw materials is a reclaimed waste product therefore eliminating the need for virgin cotton fiber.

**MR 5: Regional Materials**
Intent: To increase demand for building materials and products that are exracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.
RECP: All products are manufactured in the United States at multiple locations. The majority of the raw materials originate in the United States.
HECP: The raw materials and production of the complete product line is manufactured in the Southeastern United States.
SRFP: All products are manufactured in the United States at multiple locations. The majority of the raw materials originate in the United States.

**MR 6.0: Rapidly Renewable Materials**
Intent: To reduce the use and depletion of finite raw materials and long-cycle renewable materials by replacing them with rapidly renewable materials.
RECP: Products made with organic matrixes that are harvested annually. These include straw, excelsior, and coconut. In addition, the biodegradable line of products netting is a rapidly renewable resource.
HECP: The majority of the raw materials are made with organic products including straw and reclaimed cotton plant material.
SRFP: Matrixes used in the products are harvested annually including straw, excelsior, coconut, and wood mulch.

**RP: Regional Priority**
Intent: To provide an incentive for the achievement of credits that address geographically-specific environmental priorities.
RECP/HECP/SRFP: Credit validation is based upon earning four of the six required priority credits in the project site respective zip code. Complete list of specific credits can be found at www.usgb.org.