

TECHNICAL BULLETIN



LEED® Green Building Rating System™



BEST PRACTICES



EROSION & SEDIMENT CONTROL

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) • Water Efficiency (WE) • Materials & Resources (MR) • Regional Priority (RP).

Western Green products can contribute to the accumulation of LEED® project certification credits in various methods.

Western Green 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.

Western Green Straw Wattles are cylindrical products intended to help with sediment control by catching soil particles while allowing the runoff storm water to filter through the device. The products are filled with rapidly renewable products and the outer casing is photodegradable or biodegradable.

LEED® Category and Potential Credits for New Construction (NC) and/or Existing Buildings (EB)	Rolled Erosion Control Products Erosion Control Blankets & Turf Reinforcement Mats															Sediment Retention Fiber Products					
	SR-1/S75	SR-1NN/S75BN	SS-2/S150	SS-2NN/S150BN	CS-3/SC150	CS-3NN/SC150BN	CC-4/C125	CC-4NN/C125BN	R-1/ECX-1	S-2/ECX-2	P300LW/PP5-8	P300/PP5-10/PP5-12	SC250/ECSC-3	C350/ECC-3	P550/ECP-3	PP5-Xtreme/TMAX	STRAW	WATTLEFENCE	COIR LOGS	BIO STRAW	
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
SS 5.1 NC & EB Site Development 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
SS 5.2 NC Site Development Maximum Open Space	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
SS 6.1 NC & EB Stormwater Design Quantity Control	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SS 6.2 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
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
MR 4.1 NC Recycled Content, 10%	1											X									
MR 4.2 NC Recycled Content, 20%	2											X									
MR 5.1 NC Regional Materials 10%*	1	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 Materials 20%*	2	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
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.

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

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LEED® Green Building Rating System™ cont.

This guide provides a summary of how Western Green products can potentially contribute towards satisfying credits under LEED® Rating System version 4.

<p>SS Prerequisite: Construction Activity Pollution Prevention Required</p> <p>Intent: To reduce pollution from construction activities by controlling soil erosion, waterway sedimentation and airborne dust.</p> <p>RECP: Products minimize pollution from earth disturbance activities by controlling sediment laden stormwater, airborne dust particles and stabilizing disturbed areas.</p> <p>SRFP: Products control offsite drainage, sediment concentration to waterways and provides perimeter control for stockpiles.</p>
<p>SS Credit: Protect or Restore Habitat</p> <p>Intent: To conserve existing natural areas and restore damaged areas to provide habitat and promote biodiversity.</p> <p>RECP: All RECPs help establish vegetation quickly in damaged areas for a diverse habitat.</p> <p>SRFP: The wattles do not disrupt wildlife migration patterns, and the end stage of the product can be introduced to the site and incorporated into the soil matrix</p>
<p>SS Credit: Open Space</p> <p>Intent: To create exterior open space that encourages interaction with the environment, social interaction, passive recreation, and physical activities.</p> <p>RECP: ECBs help sites reestablish disturbed areas with native or adapted plant materials. TRMs allow for green vegetation rather than hard-armorings</p>
<p>SS Credit: Rainwater Management</p> <p>Intent: To reduce runoff volume and improve water quality by replicating the natural hydrology and water balance for the site, based on historical conditions and undeveloped ecosystems in the region.</p> <p>RECP: RECPs increase on-site infiltration, filter stormwater pollutants and provide a restoration of the natural hydrologic process.</p> <p>SRFP: The products reduce peak storm water flows to receiving waterways.</p>
<p>MR: Environmentally Preferable Products</p> <p>Intent: To increase demand for products or building components that minimize material consumption through recycled and recyclable content, reclamation, or overall reduced life-cycle impacts.</p> <p>RECP: The ECP-2 Recycle is made with 50% of recycle polypropylene fiber as the matrix</p>
<p>MR: Building Product Disclosure and Optimization – Sourcing of Raw Materials</p> <p>Intent: To encourage the use of products for which life cycle information is available and that have environmentally, economically, and socially preferable life cycle impacts. To reward project teams for selecting products verified to have been extracted or sourced in a responsible manner.</p> <p>RECP: All products are manufactured in the United States at multiple locations. The majority of the raw materials originate in the United States.</p> <p>SRFP: All products are manufactured in the United States at multiple locations. The majority of the raw materials originate in the United States. (Verify bio-based materials clause) (Verify recycled content clause) (Verify products manufactured with 100 miles clause)</p>
<p>RP: Regional Priority</p> <p>Intent: To provide an incentive for the achievement of credits that address geographically specific environmental priorities, social equity, and public health priorities</p> <p>RECP: 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.usgbc.org.</p> <p>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.usgbc.org.</p>

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