



## ROOFING SYSTEMS

# Dow Roofing Systems and LEED®-NC v.2.2



Dow Roofing Systems can contribute to the requirements of several credits in the U.S. Green Building Council's LEED-NC Green Building Rating System. Dow Roofing Systems is a member of the USGBC and partners with other organizations such as the EPA's ENERGY STAR® program and the Cool Roof Rating Council.

### SS Credit 5.2: Site Development: Maximize Open Space 1 Point

**Intent:** Provide a high ratio of open space to development footprint to promote biodiversity.

A Stevens GardenTop™ Roof System can contribute to the open space area requirement of this credit. The vegetated roof area can contribute to the open space requirement only if SS Credit 2: Development Density & Community Connectivity is achieved.

### SS Credit 6.1: Stormwater Design: Quantity Control 1 Point

### SS Credit 6.2: Stormwater Design: Quality Control 1 Point

**Intent:** Limit disruption of natural hydrology by reducing impervious cover, increasing on-site infiltration, and managing stormwater runoff.

A Stevens GardenTop Roof System can be used to minimize or mitigate the impervious area on a project site. This can both reduce the quantity and improve the quality of the stormwater runoff.

### SS Credit 7.2: Heat Island Effect: Roof 1 Point

**Intent:** Reduce heat islands (thermal gradient differences between developed and undeveloped areas) to minimize impact on microclimate and human and wildlife habitat.

Low-sloped roofs have a slope of 2-in. per foot or less. To meet the requirements of this credit, at least 75% of the roof area must be covered with materials that have a Solar Reflectance Index (SRI) of at least 78. Dow Roofing Systems offers three (3) types of membranes that meet this requirement.

The credit requires steep-sloped roofs (slope greater than 2-in. per foot) to have at least 75% of the roof area be covered with materials that have an SRI of at least 29. Dow Roofing Systems offers nine (9) products that meet the requirements for steep-sloped roofs.

Product	Type	Color	SRI	Slope(s)
Stevens EV®	Elvaloy®/PVC	White	109	Low or Steep
Stevens CSPE*	CSM	White	107	Low or Steep
Stevens EP™	TPO	White	101	Low or Steep
Stevens EP	TPO	Buckskin	65	Steep
Stevens EV	Elvaloy/PVC	Light Slate Gray	60	Steep
Stevens EP	TPO	Neon Blue	56	Steep
Stevens EP	TPO	Light Slate Gray	52	Steep
Stevens EP	TPO	Desert Brown	35	Steep
Stevens EP	TPO	Pewter	29	Steep

\*Stevens CSPE Roofing Membrane is made with Hypalon® from DuPont.



Another option to meet the requirements of this credit is to have a vegetated roof system covering at least 50% of the roof area. Stevens GardenTop™ Roof Systems can be used in the installation of a vegetated or green roof.

Additionally, the project may be eligible for exemplary performance under the Innovation & Design section (ID 1.1 – 1.4) if 100% of the project's roof area (excluding mechanical equipment, photovoltaic panels, and skylights) is comprised of a Stevens GardenTop Roof System.

A third option is to combine highly reflective and vegetated roof coverings to meet the credit requirements.

### **MR Credit 4.1: Recycled Content: 10%** **1 Point**

### **MR Credit 4.2: Recycled Content: 20%** **1 Point in addition to MR Credit 4.1**

**Intent:** Increase demand for building products that incorporate recycled content materials, thereby reducing the impacts resulting from extraction and processing of virgin materials.

Although, we only use the highest quality raw materials in the manufacture of our roofing membranes, several components of the roofing system may contain recycled materials. These materials can make a contribution to the total recycled materials content for the project.

### **MR Credit 5.1: Regional Materials: 10%** **1 Point**

### **MR Credit 5.2: Regional Materials: 20%** **1 Point in addition to MR Credit 5.1**

**Intent:** 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.

Dow Roofing Systems manufactures roofing membranes in western North Carolina. Provided that the project site is within 500 miles of the manufacturing facility, there may be a contribution to the regional materials requirement of this credit.

Other components of the roofing system are manufactured at various locations around the country. Even if the project is not in the Eastern U.S, a contribution to the regional material may still be possible.

### **ID Credit 1–1.4: Innovation in Design** **1–4 Points**

**Intent:** To provide design teams and projects the opportunity to be awarded points for exceptional performance above the requirements set by the LEED-NC Green Building Rating System and/or innovative performance in Green Building categories not specifically addressed by the LEED-NC Green Building Rating System.

If 100% of the project's roof area (excluding mechanical equipment, photovoltaic panels, and skylights) is comprised of a Stevens GardenTop Roof System, then the project may be eligible for exemplary performance under the Innovation & Design section (ID 1.1 – 1.4).



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**Dow Roofing Systems is an  
ISO 9000 Certified Facility**

