



Potential LEED Credits

SS (Sustainable Sites)

SS 5.1 Site Development: Protect or Restore Habitat

1 Credit

Objective: Conserve existing natural areas and restore damaged areas to provide habitat and promote biodiversity.

A Rooftop Garden from IB Roof Systems can help contribute to this credit by applying option 2, which says on previously developed or graded sites, restore or protect a minimum of 50% of the site area with native or adapted vegetation. Projects earning SS credit 2 can use IB Rooftop Garden System in this calculation if the plants meet the definition of native/adapted.

SS 5.2 Site Development: Maximize Open Space

1 Credit

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

An IB Rooftop Garden System can contribute to the open space requirement of this credit if SS credit 2: Development Density and Community Connectivity is achieved.

SS 6.1 Stormwater Design: Quantity Control

1 Credit

Objective: Limit disruption of natural water hydrology by reducing impervious cover, increasing on-site infiltration, reducing or eliminating pollution from stormwater runoff, and eliminating contaminants.

By specifying an IB Rooftop Garden System on a project with imperviousness greater than 50% that results in a 25% decrease in the volume of stormwater runoff from the two-year 24-hour design storm, this credit can be achieved.

SS 6.2 Stormwater Design: Quality Control

1 Credit

Objective: Limit disruption and pollution of natural water flows by managing stormwater runoff.

An IB Rooftop Garden System can help to increase onsite infiltration, limit the amount of impervious area and 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 7.1 Heat Island Effect: Non-Roof

1 Credit

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

An IB Rooftop Garden System can contribute to this credit by helping provide a combination of strategies for 50% of the site hardscape. Consider replacing constructed surfaces (i.e. roof, roads, sidewalks, etc.) with vegetated surfaces such as vegetated roofs and open grid paving or specify high-albedo materials to reduce the heat absorption.



Solar Energy



Rooftop Gardens



IB Green™



Reflectivity



Reclamation

SS 7.2 Heat Island Effect: Roof

1 Credit

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

To meet the requirement of this credit, on roofs that have a slope less than or equal to 2:12 pitch, 75% of the roof area must be covered with roofing materials that have a Solar Reflectance Index (SRI) of at least 107. IB Roof Systems offers three (2) types of membrane systems that meet this requirement. Installation of an IB Rooftop Garden that covers at least 50% of the roof area or a combination of reflective and Rooftop Garden that meets the following criteria:

$$(\text{Area of SRI Roof}/0.75) + (\text{Area of vegetated roof}/0.5) \geq \text{Total Roof Area}$$

EA (Energy & Atmosphere)

EA Prerequisite 2: Minimum Energy Performance

Required

Objective: Establish the minimum level of energy efficiency for the proposed building and systems.

IB Roof Systems SolarWise™ membranes can contribute to this credit by having a SRI of 107. This will cause a reduction in HVAC energy usage and can aid in reflecting light into windows reducing the need for additional lighting energy. For projects pursuing point under EA Credit 1, the computer simulation model may be used to confirm satisfaction of this prerequisite.

EA Credit 1: Optimize Energy Performance

1-10 Credits

Objective: Achieve increasing levels of energy performance above the baseline in the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use.

An IB SolarWise membrane system which has high emittance and is highly reflective can contribute to this credit in either type of project, new construction or existing building renovations.

EA Credit 2: On-Site Renewable Energy

1-3 Credits

Objective: Encourage and recognize increasing levels of on-site renewable energy self-supply in order to reduce environmental and economic impacts associated with fossil fuel energy use.

By utilizing IB Roof Systems SolarWise membranes in conjunction with the Solar Save photovoltaic system you could easily design your project to meet this credit(s).

MR (Materials & Resources)

MR Credit 4.1 Recycled Content: 10%

1 Credit Each

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

All of IB Roof Systems membranes can contribute to this credit by recycling 1% pre-consumer membrane back into the membrane construction, reducing waste and minimizing the unnecessary processing of virgin materials.

Product	Type	Color	SRI	Slope(s)
IB Roof Systems	PVC Single-Ply 50, 60, 80 Mil	White	107	Low



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