



# LEED Certification

Shelter Enterprises' EPS (Expanded Polystyrene) can contribute to achieving green building ratings in the following categories:

## MATERIALS & RESOURCES (MR CREDITS)

### **MR Credit 2.1 & 2.2 – Construction Waste Management: Divert 50% or 75% from Disposal**

(2 points possible)

Purpose: Recycle and/or salvage at least 50% (1 point) or 75% (2 points) of non-hazardous construction and demolition debris. Shelter Enterprises can receive and reuse uncontaminated polystyrene removed from rehabilitated buildings and the scrap generated on new construction projects.

### **MR Credit 3.1 & 3.2 – Materials Reuse: 5% or 10%**

(2 points possible)

Purpose: Use salvaged, refurbished or reused materials so the sum of these materials, based on cost, constitutes at least 5% (1 point) or 10% (2 points) of the total value of materials on the project to reduce demand for virgin material and minimizing generation of waste. Shelter Enterprises Roof Insulation is suitable for and often reused in new roof systems at the end of the original roof system's life.

### **MR Credit 4.1 & 4.2 – Recycled Content 10% or 20%**

(2 points possible)

Purpose: Increase demand for building products that incorporate recycled content of at least 10% (1 point) or 20% (2 points), thereby reducing impacts resulting from extraction and processing of virgin materials. Shelter Enterprises can provide products suitable for use in many different construction applications with up to a 40% pre-consumer and post-consumer recycled content.

### **MR Credit 5.1 & 5.2 – Regional Materials**

(2 points possible - 1 point for 10% & 2 points for 20%)

Purpose: 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. If only a fraction of a product or material is extracted/harvested/recovered and manufactured locally, then only that percentage (by weight) shall contribute to the regional value. Shelter Enterprises can provide products that include only components extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site for a minimum of 10% (based on cost) of the total materials value.

## SUSTAINABLE SITES (SS CREDITS)

### **SS Credit 7.2 – Heat Island Effect: Roof**

(1 point possible)

Purpose: Reduce heat islands to minimize impact on microclimate and habitat. The credit requires the use of a reflective roofing material or the use of a roof garden. Although this credit does not relate solely to insulation, Shelter Enterprises insulation can be used in roof systems with reflective membranes and in garden roof assemblies to help reduce the urban heat island effect.

## ENERGY & ATMOSPHERE (EA CREDITS)

### **EA Credit 1 – Optimize Energy Performance**

(10 points possible)

Purpose: Reduce the negative environmental impact resulting from excessive energy use by demonstrating a measurable improvement in the building performance rating compared to the baseline building performance rating per ASHRAE/IESNA Standard 90.1-2004 (without amendments). This credit encompasses the entire building. An increase in the R-value of the Shelter Enterprises insulations used in the roof, wall and below-grade systems of a project would contribute to this credit.

### **EA Credit 5 – Measurement & Verification**

(1 point possible)

Purpose: Provide for the ongoing accountability of building energy consumption over time by developing and implementing a Measurement & Verification Plan. Although this credit does not relate solely to insulation, any R-value provided by the Shelter Enterprise products will help to contribute to the overall energy savings and the subsequent accounting of building energy consumption.

To access the Green Building Rating System for New Construction and Renovations, visit [www.usgbc.org](http://www.usgbc.org)