



BioBased® Insulation and LEED Certification

The following are suggestions of how BioBased® Insulation might be incorporated into a project in order to achieve LEED credits. This list is by no means exhaustive. Please consult with the LEED Accredited Professional on your project to determine if BioBased® Insulation can be used to gain additional LEED credits.

LEED Credit Category – Energy and Atmosphere

Prerequisite 2 – Minimum Energy Performance

Requires the building to comply with ASHRAE/IESNA Standard 90.1-2004 or the local energy code, whichever is more stringent.

When BioBased® Insulation is installed into a structure, the insulating and air sealing properties of the foam will provide an envelope that will facilitate the design of an efficient system.

Credit 1 – Optimize Energy Performance

Requires a reduction in design energy cost compared to the energy cost budget.

When BioBased® Insulation is installed into your structure, it provides the building with a sealed envelope, allowing the designer to downsize HVAC systems and supply the required ventilation. BioBased® Insulation, when used with a whole building concept, can help achieve the 10 possible points.

LEED Credit Category – Materials and Resources

Credit 2 – Construction Waste Management

Requires recycling and/or salvaging construction, demolition and land clearing waste.

Since BioBased® Insulation is installed exclusively by certified dealers who can apply exactly what is needed in each area, there is very minimal waste. BioBased® Insulation contributes a significantly lower amount of waste materials by weight, tremendously helping the project reach the 50% to 75% target for diverting waste from the landfill.

Credit 5.1-5.2 – Regional Materials

Requires use of building materials and products that are manufactured regionally within a radius of 500 miles of the project site.

Our product is manufactured in Rogers, Arkansas.

5/8/2008



Credit 6 – Rapidly Renewable Materials

Requires use of rapidly renewable products and materials (made from plants harvested within a ten-year cycle or shorter) for 2.5% of the total value of all building materials and products used in the project.

Since BioBased® Insulation is manufactured with annually renewable soybean oil it is classified as a rapidly renewable product. Depending on the size, cost, and amount of the project insulated, BioBased® Insulation can contribute a significant portion of the required 2.5% of rapidly renewable products and materials.

LEED Credit Category – Indoor Environmental Quality

Credit 4.1 – Low Emitting Materials: Adhesives & Sealants

Reduce the concentration of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.

BioBased® Insulation utilizes water as its blowing agent, therefore falls below the 50 VOC g/L less water limit that is set for plastic foams, and can be incorporated into a variety of substrate types and specific applications.

Credit 6.1 Controlling of Systems – Thermal Comfort

Credit 7.1 – Thermal Comfort

Requires a thermally comfortable environment that supports the productivity and well being of building occupants.

BioBased® Insulation can help a building comply with ASHRAE Standard 55-2004 by insulating and air sealing the building, which allows for controlled ventilation strategies that enhance uniform temperatures, humidity control and pollutant reduction.

LEED Credit Category – Innovation & Design Process

Credit 1 – Innovation in Design

Provides design teams and projects with an opportunity to be awarded points for exceptional performance above the requirements set by the LEED Green Building Rating System and/or innovative performance in Green Building categories not specifically addressed by the LEED Green Building Rating System.

BioBased® Insulation's superior performance characteristics and installation flexibility contribute to this credit in two ways. First, BioBased® Insulation allows easy installation in areas that do not allow simple installation of conventional insulation products. Second, BioBased® Insulation is guaranteed to perform to the stated specifications for the life of the structure.

The above are suggestions only. It is recommended that a complete review of the LEED Green Building Rating System be made prior to applying for the listed prerequisites and credits. The LEED System can be reviewed at www.usgbc.org.

5/8/2008