



The Icynene Insulation System® and The U.S. Green Building Council's LEED™ Green Building Rating System: Together Contributing To a Healthier Indoor Environment

The U.S. Green Building Council's Leadership in Energy & Environmental Design (LEED™) Green Building Rating System, launched in March 2000, defines what a "green" building is. Through the process of attaining credits for using recommended strategies, a building achieves certification as a green building. The more credits a building achieves, the higher the level of certification awarded. Icynene®, the only fully-integrated insulation system offering a Healthier, Quieter, More Energy Efficient® solution to maximum indoor air quality, can also contribute to achieving the following LEED prerequisites and credits:

LEED Credit Category – Energy & Atmosphere

Prerequisite 2 – Minimum Energy Performance

Requires the building to comply with ASHRAE/IESNA Standard 90.1-1999 (without amendments) or the local energy code, whichever is more stringent.

Icynene® can help achieve this prerequisite by significantly lowering air leakage of building envelope.

Credit 1 – Optimize Energy Performance

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

Icynene® can help achieve a reduction of up to 50% in energy consumption.

LEED Credit Category – Materials & Resources

Credit 2 – Construction Waste Management

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

Icynene®'s composition contributes a significantly lower amount of waste materials by weight, which can help a project divert a minimum of 50% of waste from the landfill.

Credit 5 – Local/Regional Materials

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

Since the final assembly of Icynene®'s components occurs at the project site it is considered to have been manufactured on site.

LEED Credit Category – Indoor Environmental Quality

Credit 7 – Thermal Comfort

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

Icynene® can help a building comply with ASHRAE Standard 55-1992, Addenda 1995, for thermal comfort standards including humidity control within established ranges per climate zone because it eliminates random outside air infiltration and produces a tighter building envelope.

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.

Icynene®'s unique performance characteristics and flexible installation process can contribute to this credit in a number of ways. Areas that are difficult to insulate with traditional materials rarely pose a problem with Icynene®, thereby increasing design flexibility and enhancing energy efficiency. Icynene® is also extremely effective at controlling air borne sound movement, making Icynene® insulated buildings quieter than those insulated with traditional materials. In addition, Icynene® has a lifetime warranty and does not ever shrink, sag, or settle, thereby preserving its insulation value throughout its lifetime.

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.