



## SIP No. 2060

**Subject:** Building Green and LEED

**Date:** November 2007 (Revised August 2010)

The United States Green Building Council (USGBC) published a credit based rating system to help encourage sustainable design. The Leadership in Energy and Environmental Design (LEED) rating system developed by the USGBC establishes requirements for design components that impact sustainable design. Credits or points are earned for meeting specific milestones in various categories. These categories include Sustainable Sites, Water Efficiency, Energy and Atmosphere, Materials and Resources, Indoor Environmental Quality, and Innovation and Design Process. A minimum number of available points are required to achieve a LEED Certified rating. Silver, Gold, and Platinum levels are also available by meeting higher point thresholds.

R-Control SIPs are an ideal structural and insulation choice for inclusion into LEED building designs.

- Stable Thermal Efficiency - Foam-Control EPS is one of the few rigid board insulations that does not lose its R-value over time. Polyiso and Extruded Polystyrene insulations suffer from thermal drift due to the loss of blowing agents to the atmosphere and this results in a lower R-value for the building as it ages. Foam-Control EPS does not suffer from R-value thermal drift.
- Recyclable - Foam-Control EPS is 100% recyclable.
- Zero Ozone Depleting Potential - Foam-Control EPS does not and never has contained ozone depleting blowing agents (CFC, HCFC, or HFC's)
- FSC Certified OSB - R-Control SIPs can be manufactured with FSC certified OSB

### LEED Point Potential when using R-Control SIPs

#### Energy & Atmosphere

Minimum Energy Performance

R-Control EPS helps ensure compliance with local energy codes and ASHRAE 90.1.  
(required)

EA1: Optimized Energy Performance

R-Control SIPs are the key building envelope component that provides for dramatically reduced energy use through increased R-value, lower thermal bridging, and reduced air leakage.  
(up to 19 points)

#### Materials & Resources

MR2: Construction Waste Management

R-Control SIPs can be fabricated prior to shipment to the jobsite. Factory fabrication provides for optimum use of materials and reduces construction debris that goes to a landfill or incineration facility.  
(1-2 points)

MR5: Local/Regional Materials

R-Control SIPs are manufactured across North America. An R-Control SIPs facility will likely be less than 500 miles from the jobsite to help meet the local materials requirements.  
(up to 2 points)

MR10: Certified Wood

R-Control SIPs can be manufactured with FSC certified OSB facings.  
(1 point)



**Indoor Environmental Quality:**

## IEQ2: Increased Ventilation

R-Control SIPs create a very tight building envelope. The coupling of the tight building envelope with outdoor air ventilation provides improved indoor air quality and promote occupant comfort, well-being and productivity. (1 points)

## IEQ4.4: Low-Emitting Materials - Composite Wood and Agrifiber Products

OSB used in the manufacture of R-Control SIPs does not contain added urea-formaldehyde resins. (1 points)

## IEQ7.1: Thermal Comfort - Design

R-Control SIPs are the key building envelope component that provides for a comfortable thermal environment. (1 points)

**Innovation in Design:**

## ID1: Innovation in Design

R-Control SIP use can be shown to be an innovative design measure. (1 point)



R-Control SIPs are made exclusively with Foam-Control EPS. R-Control SIPs and Foam-Control EPS are manufactured by AFM Corporation licensees.

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