



## STAYFLEX™ SYSTEMS Spray Foam Insulation & Specialty Coatings And LEED®

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The U.S. Green Building Council's LEED Green Building Rating System™ is a voluntary, consensus-based program encouraging the design, construction and operation of high performance, sustainable buildings worldwide.

The LEED program provides a design framework to assess building performance for achieving sustainability goals. For new construction and renovation projects, design professionals accumulate points based upon meeting specified building performance criteria pertaining to sustainable, resource-efficient products and systems.

**STAYFLEX™ SYSTEMS Spray Foam Insulation & Specialty Coatings** provide multi-functional solutions to assist project teams in achieving points and LEED certification in three of the following five key areas of human and environmental health and a sixth design category:

1. Sustainable Sites (14 points available)
2. Water Efficiency (5 points available)
3. **Energy and Atmosphere (17 points available)**
4. **Materials and Resources (13 points available)**
5. **Indoor Environmental Quality (15 points available)**
6. Innovation in Design (5 points available)

For buildings to qualify as LEED certified, it must earn a minimum 26 out of 69 total points.

### Levels of Certification:

Certified: 26-32 points

Silver: 33-38 points

Gold: 39-51 points

Platinum: 52-69 points

To download the LEED Green Building Rating System, visit [www.usgbc.org](http://www.usgbc.org).

## Why Build Green?

- Reduce energy & operation costs
- Improve employee productivity and satisfaction
- Improve air and water quality
- Conserve natural resources
- More efficient use of existing, local infrastructure
- Contribute to overall quality of life

# The LEED Green Building Rating System™

STAYFLEX™ SYSTEMS can assist project teams in achieving LEED certification in the following rating systems:

LEED – NC	New Construction & Major Renovations
LEED – EB	Existing Buildings: Operations & Maintenance
LEED – CS	Core and Shell

## Energy & Atmosphere

NC, EB, CS: EA Prerequisite 2 (Required): Minimum Energy Performance  
EA Credit 1: Optimize Energy Performance (1-10 Points)

The LEED rating program encourages improved energy performance (above the baseline prerequisite standard per ASHRAE<sup>1</sup> Standard 90.1-2004) to reduce environmental and economic impacts associated with excessive energy use.

STAYFLEX™ SYSTEMS - STAYCELL™ 245-2.0 Series closed-cell spray polyurethane foam insulations and STAYCOAT™ protective coatings – help reduce energy usage by combining superior insulation efficiency with continuous air and moisture infiltration control.

## Materials & Resources

CS: MR Credit 1.1: Building Reuse: Maintain 25% of Existing Walls, Floors and Roof (1 Point)  
MR Credit 1.2: Building Reuse: Maintain 50% of Existing Walls, Floors and Roof (1 Point)

NC, CS: MR Credit 1.1: Building Reuse: Maintain 75% of Existing Walls, Floors and Roof (1 Point)  
MR Credit 1.2: Building Reuse: Maintain 95% of Existing Walls, Floors and Roof  
(1 point in addition to MR Credit 1.1)

One of the goals of the U.S. Green Building Council is to extend the life cycle of the existing building stock with an emphasis on reducing the environmental impacts associated with building materials manufacture and transport.

STAYFLEX™ SYSTEMS, having a diverse range of applications, provide unique solutions to critical building reuse and renovation problems. For example, STAYFLEX™ SYSTEMS environmental solutions provide safer, faster and more cost-effective alternatives to removal for mitigating hazardous contamination risks posed by lead paint and asbestos. STAYFLEX™ Corrosion Control Systems can be used to solve concrete deterioration/spall problems. STAYCELL™ foam insulation and STAYCOAT™ coatings can be applied without surface preparation, thereby eliminating scraping and abrasive blasting debris transported to landfill – all while providing state-of-the art insulating and air barrier performance to existing ceilings and walls.

EB: MR Credit 3: Sustainable Purchasing – Facility Alterations & Additions (1 Point)

STAYCELL™ 245-2.0 Series spray polyurethane foam insulations and STAYCOAT™ protective coatings do not emit volatile organic compounds (VOC's) and contain no ozone depleting raw materials.

## Indoor Environmental Quality

CS: EQ Prerequisite 1: Minimum IAQ Performance (Required)

Establishing minimum indoor air quality (IAQ) performance requires a balance between HVAC systems, energy efficiency and sustainable building products. By minimizing uncontrolled air leakage and providing efficient thermal insulation, STAYFLEX™ SYSTEMS can help project teams optimize ventilation systems to minimize initial equipment investment and maximize long-term operating efficiencies. In addition, superior air sealing properties keeps dust and other air pollutants from entering the building from uncontrolled sources. STAYCELL™ 245-2.0 Series spray foam insulations and STAYCOAT™ protective coatings do not emit volatile organic compounds (VOC's) and contain no ozone depleting raw materials.

NC: EQ Credit 3.1: Construction IAQ Management Plan: During Construction  
EQ Credit 4.1: Low-Emitting Materials: Adhesives & Sealants (1 Point)  
EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings (1 Point)

STAYCELL™ 245-2.0 Series spray polyurethane foam insulations contains zero volatile organic compounds (VOC's) and no ozone depleting blowing agent technology. In addition, the STAYCOAT™ line of low VOC coatings meets the requirements of Green Seal Standard GS-11 and South Coast Air Quality Management District (SCAQMD) Rule 1113 and Rule 1168.

NC: EQ Credit 7.1: Thermal Comfort: Design (1 Point)  
EB: EQ Credit 7.1: Thermal Comfort: Compliance (1 Point)  
CS: EQ Credit 7.1: Thermal Comfort (1 Point)

Combining superior insulation efficiency and air infiltration control, STAYFLEX™ SYSTEMS can help project teams meet ASHRAE Standard 55-2004, Thermal Comfort Conditions for Human Occupancy, if used as part of a comprehensive building envelope and HVAC system design.

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ASHRAE: American Society of Heating, Refrigeration and Air Conditioning Engineers