

Pliteq Inc. - LEED Summary



At Pliteq, we're committed to serving the health and safety of both our environment and our community.

Pliteq is an engineering company dedicated to providing creative solutions to vibration, and sound control problems using recycled materials. Using elastomer technology and intellectual property, high performance solutions are researched, developed and rigorously tested. We are committed to using resources wisely and consider the impact on the environment and health and safety in all of our design and engineering choices.

It's not magic, it's engineering.[®]

What is LEED?

The Leadership in Energy and Environmental Design (LEED) Green Building Rating System represents the U.S. Green Building Council's effort to provide an international standard for what constitutes a "green" building. It is utilized as a design guideline and certification tool for architects and designers seeking to develop high-performance, sustainable buildings.

The LEED rating system defines the requirements, by category, needed to achieve points under each area. Projects earn one or more points toward certification by meeting or exceeding each credit's technical requirements. Points compute to a final score that relates to one of four possible levels of certification: LEED Certified, LEED Silver, LEED Gold, or LEED Platinum.

Why is LEED certification beneficial?

In addition to the obvious environmental benefits, certification proves to the market that a building is efficient and incorporates responsible building practices. LEED certification showcases environmental commitment and leadership to both your community and employees. As a result, positive publicity and exposure may be generated.

Green buildings have also been proven to be more economically efficient as a result of the following factors:

- Improved health and safety of occupants
 - Increased student and employee productivity
 - Lowered turnover and absenteeism
 - Reduced building operation costs
- Higher return on investment

Recycled rubber underlayment and **resilient sound isolation clips** are growing categories for sound control within the construction industry and continue to increase in popularity as practical solutions for construction applications. The easy installation, durability, and quality of **Pliteq** products are ideal for a wide variety of sound control applications.

The demand for sound control products is increasing due to their many positive environmental attributes. The high-recycled content and low-VOC emissions make **GenieMat**[®] an environmentally sensitive choice for a variety of applications. The superior acoustic isolation capabilities of the **GenieClip**[®] and **GenieMat** provide building occupants with a high level of acoustic comfort and privacy.

How Pliteq Products Apply:

Many products have the potential to contribute points toward LEED certification, but since credits are based on the performance of all the products involved in a particular project, there is not one stand-alone product that can guarantee you will obtain LEED points. It is the combination and the value of each product that is critical.

Pliteq products are designed to meet the stringent criteria required to help earn points in various categories.

By specifying GenieMat and GenieClip, Pliteq enables projects to earn points towards LEED certification.

Note: Credit requirements differ from one rating system to another. This guide is intended for general overview and use only. Please refer to USGBC's rating systems and reference guides for the specific requirements of each credit.

LEED v2009

Segment Explanations:

- LEED for New Construction and Renovations (LEED-NC) is designed to guide and distinguish high-performance commercial and institutional projects, including office, high-rise residential, and government buildings.
- LEED for Commercial Interiors (LEED-CI) is the green benchmark for the tenant improvement market. It is the recognized system for certifying high-performance green interiors that are healthy, productive places to work; are less costly to operate and maintain; and have a reduced environmental footprint.
- LEED for Existing Buildings: Operations & Maintenance (LEED-EB) helps building owners and operators measure operations, improvements and maintenance on a consistent scale, with the goal of maximizing operational efficiency while minimizing environmental impacts.
- LEED for Core and Shell Development (LEED-CS) is a green building rating system for designers, builders, developers and new building owners who want to address sustainable design for new core and shell construction.
- LEED for Schools (LEED-SCH) recognizes the unique nature of the design and construction of K-12 schools. Based on the LEED for New Construction rating system, it addresses issues such as classroom acoustics, master planning, mold prevention and environmental site assessment.
- LEED for Healthcare (LEED-HC) guides the design and construction of both new buildings and major renovations of existing buildings, and can be applied to inpatient, outpatient and licensed long-term care facilities, medical offices, assisted living facilities and medical education and research centers.

| LEED-NC 2009 (up to 10 points) | Category | Credit Number | Credit Title | Applicable Products |
|-----------------------------------|-------------------------|---|-------------------------|---------------------|
| | Materials and Resources | MR 4 | Recycled Content: 10% | GenieMat, GenieClip |
| | | MR 4 | Recycled Content: 20% | |
| | | MR 5 | Regional Materials: 10% | |
| MR 5 | | Regional Materials: 20% | | |
| Indoor Environmental Quality | IEQ 4.1 | Low-Emitting Materials – Adhesives and Sealants | GenieMat FAS | |
| | IEQ 4.3 | Low-Emitting Materials – Flooring Systems | | |
| Innovation in Design | ID 1 | Superior Acoustic Isolation | GenieMat, GenieClip | |
| | ID 1 | Recycled Content: 30% | | |
| | ID 1 | Regional Materials: 30% | | |
| | ID 1 | Pilot Credit 24: Acoustics | | |

| LEED-CI 2009 (up to 10 points) | Category | Credit Number | Credit Title | Applicable Products |
|-----------------------------------|-------------------------|---|-------------------------|---------------------|
| | Materials and Resources | MR 4 | Recycled Content: 10% | GenieMat, GenieClip |
| | | MR 4 | Recycled Content: 20% | |
| | | MR 5 | Regional Materials: 10% | |
| MR 5 | | Regional Materials: 20% | | |
| Indoor Environmental Quality | IEQ 4.1 | Low-Emitting Materials – Adhesives and Sealants | GenieMat FAS | |
| | IEQ 4.3 | Low-Emitting Materials – Flooring Systems | | |
| Innovation in Design | ID 1 | Superior Acoustic Isolation | GenieMat, GenieClip | |
| | ID 1 | Recycled Content: 30% | | |
| | ID 1 | Regional Materials: 30% | | |
| | ID 1 | Pilot Credit 24: Acoustics | | |

| LEED-EB 2009 (up to 4 points) | Category | Credit Number | Credit Title | Applicable Products |
|----------------------------------|------------------------------|--|--|--------------------------------|
| | Materials and Resources | MR 3 | Sustainable Purchasing – Facility Alterations and Additions: 50% | GenieMat, FAS |
| | Indoor Environmental Quality | IEQ 2.1 | Occupant Comfort – Occupant Survey | GenieMat, GenieClip |
| | Innovation in Operations | IO 1 | Superior Acoustic Isolation | GenieMat, GenieClip (Retrofit) |
| IO 1 | | Sustainable Purchasing – Facility Alterations and Additions: 95% | | |

| LEED-CS 2009 (up to 9 points) | Category | Credit Number | Credit Title | Applicable Products |
|--|-------------------------|---|--------------------------|----------------------------|
| | Materials and Resources | MR 4 | Recycled Content: 10% | GenieMat, GenieClip |
| | | MR 4 | Recycled Content: 20% | |
| | | MR 5 | Regional Materials: 10% | |
| MR 5 | | Regional Materials: 20% | | |
| Indoor Environmental Quality | IEQ 4.1 | Low-Emitting Materials – Adhesives and Sealants | GenieMat FAS GenieMat | |
| | IEQ 4.3 | Low-Emitting Materials – Flooring Systems | | |
| Innovation in Design | ID 1 | Superior Acoustic Isolation | GenieMat, GenieClip | |
| | ID 1 | Recycled Content: 30% | | |
| | ID 1 | Regional Materials: 30% | | |

| LEED-SCH 2009 (up to 10 points) | Category | Credit Number | Credit Title | Applicable Products |
|--|-------------------------|---|---------------------------------------|----------------------------|
| | Materials and Resources | MR 4 | Recycled Content: 10% | GenieMat, GenieClip |
| | | MR 4 | Recycled Content: 20% | |
| | | MR 5 | Regional Materials: 10% | |
| MR 5 | | Regional Materials: 20% | | |
| Indoor Environmental Quality | IEQ 4.1 | Low-Emitting Materials – Adhesives and Sealants | GenieMat FAS GenieMat GenieClip | |
| | IEQ 4.3 | Low-Emitting Materials – Flooring Systems | | |
| | IEQ 9 | Enhanced Acoustical Performance | | |
| Innovation in Design | ID 1 | Superior Acoustic Isolation | GenieMat, GenieClip | |
| | ID 1 | Recycled Content: 30% | | |
| | ID 1 | Regional Materials: 30% | | |

| LEED-HC 2009 (up to 10 points) | Category | Credit Number | Credit Title | Applicable Products |
|---|-------------------------|---|--|----------------------------|
| | Materials and Resources | MR 3 | Sustainably Sourced Materials and Products: 10% | GenieMat, GenieClip |
| | | MR 3 | Sustainably Sourced Materials and Products: 20% | |
| | | MR 3 | Sustainably Sourced Materials and Products: 30% | |
| MR 3 | | Sustainably Sourced Materials and Products: 40% | | |
| Indoor Environmental Quality | IEQ 2 | Acoustic Environment: Sound Isolation and Room Noise | GenieMat, GenieClip GenieMat, GenieClip GenieMat FAS GenieMat | |
| | IEQ 2 | Acoustic Environment: Acoustical Finishes and Site Exterior Noise | | |
| | IEQ 4 | Low-Emitting Materials – Group 1: Interior Adhesives and Sealants | | |
| | IEQ 4 | Low-Emitting Materials – Group 3: Flooring | | |
| Innovation in Design | ID 1 | Superior Acoustic Isolation | GenieMat, GenieClip | |
| | ID 1 | Sustainably Sourced Materials and Products: 50% | | |

LEED v4

- The following table serves as a guide to all segments of LEED v4.

| | Category | Credit Title | Details | Applicable Products |
|-----------------|------------------------------|---|--|--|
| LEED- v4 | Materials and Resources | Building Product Disclosure and Optimization - Sourcing of Raw Materials *Possible Regional Material Contribution | Option 2: Recycled Content: 94% post-consumer recycled rubber content | GenieMat RST & GenieMat FF, GenieMat FIT |
| | Materials and Resources | Building Product and Disclosure Optimization - Material Ingredients | Option 1: Health Product Declaration | GenieMat RST & GenieMat FF, GenieClip, GenieMat FIT, GenieMat FAS2, GenieMat FASHM |
| | Indoor Environmental Quality | Low-Emitting Materials | -Compliant in accordance with California Department of Public Health (CDPH) Standard Method v1.1-2010 -0.5 mg/m ³ or less | GenieMat RST & GenieMat FF, GenieMat FIT |
| | Indoor Environmental Quality | Low-Emitting Materials | Compliant with SCAQMD Rule 1168, July 1, 2005 | GenieMat FAS2, GenieMat FASHM |
| | Indoor Environmental Quality | Acoustical Performance Sound Transmission Requirements for floor/ceilings and walls *Opportunity for Innovation Credit for superior sound isolation | Extensive acoustical test library available on a multitude of wall and floor ceiling assemblies - Contact our Technical Services Department for your specific requirements | GenieMat FF & GenieMat RST, GenieClip, GenieMat FIT |

Product Information

GenieMat® RST and GenieMat® FF

Sound Control Underlayment (RST) and Floating Floors (FF)

GenieMat is a line of high-quality sound control underlayment and floating floors manufactured in Ontario and Ohio by Pliteq Inc, a leading innovator in recycled products technology. GenieMat is made from up to 94% post-consumer recycled rubber content and has been tested in many different laboratory and field test assemblies. It has been proven to repeatedly perform as engineered to meet design requirements. The product and engineering support provided by Pliteq Inc guarantees that GenieMat will work as specified, every time.

- RST & FF are composed of 94% post-consumer recycled rubber
- Manufactured in Ontario and Ohio, which may qualify it as a regional product depending on the location of the project
- GenieMat RST & GenieMat FF** product lines are **FloorScore®** certified
- Significantly improves Sound Transmission Class (STC) and Impact Insulation Class (IIC) ratings of floor-ceiling assemblies, providing superior acoustic isolation and increased occupant comfort
- Minimizes the impact of site exterior noise on building facility occupants by isolating vibrations occurring from heliports, generators, mechanical equipment, building services, etc.
- Can be used in retrofit projects to improve existing acoustic conditions

GenieClip®

Resilient Sound Isolation Clip

GenieClip is a unibody molded rubber and galvanized steel mount used for noise control (de-coupling). Engineered for superior acoustical performance in reducing the transmission of airborne and impact sound through wall and floor-ceiling assemblies. Made from recycled components and engineered to reduce assembly weight, **GenieClip** contributes to LEED certified buildings.

- Composed of 20% post-consumer recycled rubber
- Manufactured in Ontario and Ohio which may qualify it as a regional product depending on the location of the project
- Steel material is extracted from Detroit, MI, 48211;
Rubber material is extracted from Avon Lake, OH44012
- Significantly improves Sound Transmission Class (STC) and Impact Insulation Class (IIC) ratings of wall and floor-ceiling assemblies, providing superior acoustic isolation and increased occupant comfort
- Can be used in retrofit projects to improve existing acoustic conditions

GenieMat® FAS

Sound Control Adhesive

GenieMat FAS, GenieMat FAS2 & GenieMat FASHM are lines of sound control adhesives that are used for bonding **GenieMat** sound control underlayments to various subfloors/ substrates, and for bonding all specified floor finishes and coverings, including vinyl floor products, to **GenieMat** sound control underlayments. **GenieMat FAS** adhesives are low-VOC and contain no hazardous chemicals as per OSHA Regulation CFR 1910.1200, and meets all federal, states, and local government indoor air quality regulations.

- GenieMat FAS, GenieMat FAS2 and GenieMat FASHM** are **UL Greenguard** certified.

GenieMat® FIT

Fitness Floor Coverings for Reduced Sound Transmission

GenieMat FIT is a line of high-quality fitness flooring manufactured in Ontario and Ohio by **Pliteq Inc.**, a leading innovator in recycled products technology. **GenieMat FIT** products are made from up to 94% post-consumer recycled rubber content. **GenieMat FIT** has been proven to reduce vibration and sound transmission resulting from regular weight room and fitness facility activities.

- **GenieMat FIT30, GenieMat FIT70 and GenieMat FIT08** are composed of 94% post-consumer recycled rubber
- Manufactured in Ontario and Ohio, which may qualify it as a regional product depending on the location of the project
- Complies with ASTM D5116 CHPS/CA Section 01350 – Collaborative for High Performance Schools, Low-Emitting Materials Section
- Significantly improves Impact Insulation Class (IIC) ratings of floor-ceiling assemblies in fitness applications and provides superior vibration dampening in high-impact areas
- Can be used in retrofit projects to improve existing acoustic conditions

For detailed credit requirements and/or technical inquiries, contact Pliteq Technical Services at (416) 449-0049.

CONTACT US

For Your Project Specific Questions
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The information provided is accurate to the best of our knowledge at the time of issue. However, we reserve the right to make changes when necessary without further notification. Suggested application may need to be modified to conform with local building codes and conditions. We cannot accept responsibility for products that are not used, or installed, to our specifications. All listed dimensions are nominal.

