

Siena for LEED CI and NC

Materials & Resources (MR):

MR Credits 2.1 and 2.2 for both NC and CI: (Construction Waste Management)

In this credit, you have to remove construction or demolition debris and have it recycled into another manufacturing process. This is measured by weight or volume.

If you remove 50% of the waste, the project can earn up to 1 point. If you move 75% of the waste, the project can earn up to 2 points.

How does Siena contribute to this point? We have the ability to take back anyone's carpet and have it recycled. Just remember up front there is a cost to this, which generally is \$1.50 per square yard.

MR Credits 4.1 and 4.2 for both NC and CI: Recycle Content (Post Consumer and Pre-Consumer)

In this credit, they look at the total weight of all materials coming in, total material cost, and they look at the total recycle content of all materials coming in and weigh this against the material cost.

For example: If you are using Nexterra with a 36 ounce Zeftron yarn on a LEED Project, you will be contributing 53% post consumer recycled content by overall weight and 6% pre-consumer recycled content by overall weight.

How is this calculated into LEED? On the product I mentioned above, we will use the example that your customer is buying 2000 yards at \$30 a yard.

The calculation would be:

- 1) Product cost multiplied by quantity $2000 * 30 = \$60,000$
- 2) Post Consumer Content = 1 point for the percentage of the overall weight of the project.
 $\$60,000 * 53\% = \$31,800$
- 3) Pre Consumer Content = $\frac{1}{2}$ a point the percentage of the overall weight of the project.
 $(\$60,000 * 6\%) / 2 = \$1,800$
- 4) Combine the total points from the Post Consumer + Pre Consumer $\$31,800 + \$1,800 = \$33,600$
worth of recycled content
- 5) Now the customer has to take the total material budget and divide it by the dollar amount of recycled content.

If the percentage of recycled content is 10% of the total project budget, 1 LEED point can be obtained by in this credit. If the percentage of recycled content is 20% of the total project budget, 2 LEED points can be obtained on this credit.

MR Credit 5.1 and 5.2 for NC: (Local manufactured and harvested materials)

This applies to material that is harvested, recovered, and manufactured within 500 miles of the building site.

If 10% of the total material by weight is manufactured within 500 miles, they can apply for 1 point under this credit. If 20% of the total material by weight is manufactured within 500 miles, they can apply for 2 points under this credit.

INDOOR ENVIRONMENTAL QUALITY (IEQ)

IEQ Credit 4.1 for both NC and CI: (Low Emitting Adhesives and Sealants)

All adhesives and sealants used on the interior of the building shall comply with the South Coast Air Quality Management District Rule #1168.1

All BOC adhesives meet these requirements through the CRI Green Label Testing Protocol, so we can contribute to this point.

All you will have to supply is the MSDS of the adhesive which is on the technical section of the BOC website.

IEQ Credit 4.3 for both NC and CI: (Low Emitting Carpet Systems)

All carpet installed in the building interior shall meet the testing and product requirements of the CRI's Green Label Plus program.

All BOC carpets have been tested and certified against CRI's Green Label Plus testing procedures. All you will have to provide is the spec of the product, where you will find the CRI GLP certification number.

Also all of our certification numbers are on CRI's website as well.

Innovation Credits

ID C1: You will obtain the highest Innovation point when specifying Nexterra carpet tiles because ALL Nexterra carpet tiles are certified at the Platinum level.

First – *Specify any Nexterra carpet tile for your building (all carpet in the project must hold a NSF-140 2007 Certification, to apply for an Innovation point).*

Second – *Compare materials cost against total cost of all building products used in the project. (if your purchase of Nexterra carpet tiles meet at least 1.25% of the overall project material budget, you are eligible to apply for this point.)*

Total Point Contribution:

If we were to contribute to every point mentioned above, we can contribute to a maximum of 9 points under the LEED Rating System.

Third Party Certifications:

NSF/ANSI-140 2007: (all Nexterra Products are certified platinum to the NSF-140 Standard)

Certifying to NSF/ANSI Standard 140 for Commercial Carpets and Rugs

Manufacturers, suppliers, architects, designers and government procurement now have a U.S. National Standard for the production of sustainable carpets and rugs: NSF/ANSI 140, Sustainable Carpet Assessment. Written through a public process by a multi-stakeholder group of manufacturers, suppliers, regulatory agencies, customers, end-users, academia and other industry participants, the standard enables organizations throughout the carpet supply chain to achieve sustainable attributes and demonstrate compliance.

Independent certification to NSF 140 provides the highest level of credibility in a marketplace with numerous and confusing green claims.

Standard 140 Overview

Based on life cycle assessment principles, NSF 140 employs an easy-to-use point system with established performance requirements and quantifiable metrics in six key areas:

- Public Health and Environment
- Energy and Energy Efficiency
- Bio-Based, Recycled Content Materials or Environmentally Preferable Materials
- Manufacturing
- Reclamation and End of Life Management
- Innovation

Certification is granted in one of three levels – Platinum, Gold or Silver – consistent with how many points are earned.

Certification Benefits

There are numerous benefits for manufacturers to certify products to a U.S. national standard. NSF 140 certification will allow manufacturers to:

- Distinguish your “green” products from your competitors, making you a preferred vendor to those seeking sustainable solutions.
- Meet state and Federal procurement guidelines.
- Achieve the most credible type of certification available in the marketplace.
- Save money by adopting more sustainable operational practices and business approaches.

Why Choose NSF International?

- **Reliable, consistent results:** As the standard development organization, NSF knows the requirements inside and out, and the intent behind each key area.
- **Meet your expanding needs:** NSF is a leading worldwide third-party registrar with programs such as ISO 14001, ISO 9000 and Greenhouse Gas verification and Forestry certification services.
- **International Service:** NSF conducts audits in 101 countries around the world and has a large network of international auditors.
- **Exceptional Customer Service:** NSF will provide you with a single point of contact to guide you through the process.

- Cost effective: NSF pricing is very competitive. Each proposal is carefully tailored to the individual client. Discounts may be available for multiple services.
- Peace of Mind: NSF draws upon a 60-year history of laboratory testing, product review, validation, and technical excellence.

Background

The Carpet and Rug Institute (CRI) set out to provide the commercial market with a single easy rating certification system for carpet and rugs. A multi-stakeholder committee was formed with balanced representation from the end user, manufacturer, and regulatory groups. With the assistance of NSF International, a leader in standards development and product certification, the ANSI-accredited Sustainable Carpet Assessment Standard was developed in late 2007. The standard allows transparency and open understanding regarding conformance requirements, allowing for more understandable and meaningful marketplace comparisons.

CRI's Green Label Plus: (All BOC products are certified to this testing)

What is Green Label Plus? Today, indoor air quality (IAQ) is an important environmental consideration, especially since we spend approximately 90 percent of our time indoors. In 1992, CRI launched its Green Label program to test carpet, cushions and adhesives to help specifiers identify products with very low emissions of VOCs. CRI has recently launched its next series of improvements called Green Label Plus for carpet and adhesives. This enhanced program sets an even higher standard for IAQ and ensures that customers are purchasing the very lowest emitting products on the market. Using scientifically established standards, the Green Label Plus program symbolizes the carpet industry's commitment to a better environment for living, working, learning and healing.

Environmental Choice New Zealand: (Nexterra Tiles are certified)

- Improve the quality of the environment by encouraging more sustainable processes through e.g. the design, production, marketing, & use of products which have a reduced environment impact during their entire life cycle.
- Offer a credible national and/or regional (e.g. Australasian) programmed for environmental labeling;
- Work towards compliance with recognized international programs and principles;
- Foster and develop international relationships with relevant recognized international networks and other eco-labeling programs/initiatives;
- Establish mutual recognition agreements with other similar programs;
- Work towards the harmonization of national and/or international product specifications;
- Provide a clear, credible and independent guide to help consumers (including business consumers) identify products and services that are less harmful to the environment;
- Provide a market incentive to manufacturers, suppliers and retailers of environmentally preferable products and services;
- Encourage manufacturers, suppliers and retailers to develop products and processes that are in compliance with published product specifications;
- Promote responsible procurement policies by central and local government, other organizations and business;

- Establish and maintain strategic relationships with government, business and non government organizations which have common environmental and product performance interests.

Green-E: (We have done a third party certification on all energy purchases)

The mission of the Green-e program and its governing body, the Green-e Governance Board, is to:

- Bolster customer confidence in the reliability of retail electricity products reflecting renewable energy generation.
- Expand the retail market for electricity products incorporating renewable energy, including expanding the demand for new renewable energy generation.
- Provide customers clear information about retail "green" electricity products to enable them to make informed purchasing decisions.
- Encourage the deployment of electricity products that minimize air pollution and reduce greenhouse gas emissions.

- **Q: What is Green-e Marketplace™?**

A: Green-e Marketplace™ is a program that lets companies display the Green-e® logo on their corporate communications, products and company collateral to communicate their commitment to clean, renewable energy.

- **Q: Why should I join Green-e Marketplace™?**

A: Green-e Marketplace™ provides forward-thinking companies with a simple, nationally recognized logo they can use to communicate their commitment to renewable energy to their customers and shareholders. The Green-e® logo is the nation's leading symbol of renewable energy excellence and distinguishes Green-e Marketplace™ participants as environmental leaders.

- **Q: What are the program's requirements?**

A: In order to qualify to participate in Green-e Marketplace™, prospective clients must purchase and/or generate a qualifying amount of Green-e Energy™ certified renewable energy. These minimum purchasing requirements reflect those of the EPA's Green Power Partnership Leadership requirements and are outlined on page two of Annex B: Logo Use Terms and Conditions & Language Guidelines. Additionally, in order to use the logo on products that reflect their brand, 100 percent of the electricity used to manufacture the product must be met with Green-e Energy™ Certified renewable energy. Green-e Marketplace™ staff approves use of the logo on products on a case-by-case basis.

- **Q: What claims can I make about my renewable energy purchase?**

A: Annex B: Logo Use Terms and Conditions & Language Guidelines outlines specific claims and commitment statements that can be made in conjunction with the Green-e Energy™ logo. The program allows participating companies to make claims about their commitment to certified, renewable energy as it relates to the electricity used in their headquarters, manufacturing processes, and/or entire operations.

- **Q: What claims can't I make about my renewable energy purchase?**

A: Green-e Marketplace™ does not endorse or approve any environmental claims not contained in [Annex B: Logo Use Terms and Conditions & Language Guidelines](#). Companies that choose to make carbon equivalency or other environmental claims based on their purchase/generation of renewable energy are advised to always disclose the methodologies and research they used to justify those claims. Green-e Marketplace™ always encourages program participants to work with an independent third party to verify any corporate environmental claims.

- **Q: What is the difference between renewable energy certified under Green-e Energy™ and renewable energy certified under Green-e Climate™?**

A: Green-e Energy™ certifies renewable energy sold to consumers. Green-e Climate™ certifies the sale of greenhouse gas reductions (or carbon offsets) sold to consumers.

- **Q: Does Green-e Marketplace™ certify companies that have purchased offsets?**

A: a. Green-e Marketplace™ does not currently have a logo-use program that recognizes companies for their purchase of carbon offsets. Green-e Marketplace™ only allows use of the logo based on a purchase of Green-e Energy™ Certified renewable energy products.

ISO 14021: (we had NSF certify all recycled content claims in all products to ISO 14021)

What is ISO 14021? This is for environmental declarations. We choose to do this to be transparent on our environmental claims. When we say a product has x% of recycled content, this has been tested and verified against ISO 14021.