Knight-Celotex Fiberboard

USGBC LEED®

Product Evaluations

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Scope and Key Points of Knight-Celotex Fiberboard LEED Evaluation

- This document is intended as an informational tool to address the increasing frequency of LEED questions from the market.

- The USGBC LEED website at http://www.leedbuilding.org and the LEED New Construction Version 2.2 Reference Guide have provided LEED content for this document.

- The evaluation encompasses all Knight-Celotex Fiberboard products at all manufacturing locations.

- There are three primary LEED Project Rating Systems, all of which contain the same credit categories relating to Knight-Celotex Fiberboard.

    1. New Construction/Major Renovation
    2. Commercial Interiors
    3. Core and Shell Development

- Knight-Celotex Fiberboard primary areas for LEED credit contribution are:
    - Recycle content (bagasse, waste paper, saw mill residuals)
    - Regional materials extracted, harvested, recovered or manufactured
    - Rapidly renewable materials (bagasse, starch, soy flour)
    - Low emitting materials (no added urea-formaldehyde)

- Products are not LEED certified and do not in themselves earn LEED credit points. It is the cumulative effect of a project's materials, methods and outcomes that earn LEED project credit points and gain LEED project certification.

LEED Background and Frequently Asked Questions

What is LEED® (Leadership in Energy and Environmental Design)?

The Leadership in Energy and Environmental Design (LEED) Green Building Rating System™ is a nationally accepted benchmark for the design, construction, and operation of high performance green buildings. LEED promotes a whole-building approach to sustainability by recognizing performance in five key areas of human and environmental health: sustainable site development, water savings, energy efficiency, materials selection and indoor environmental quality.

Who created LEED?

The U.S. Green Building Council (USGBC) created LEED. USGBC is a coalition of leaders from sectors of the building industry working to promote buildings that are environmentally responsible, profitable and healthy places to live and work. The U.S. Green Building Council's core purpose is to transform the way buildings and communities are designed, built and operated, enabling an environmentally and socially responsible, healthy, and prosperous environment that improves the quality of life.

How is LEED developed?

The LEED Rating System was created to provide the building industry with consistent, credible standards for what constitutes a green building. The rating system is developed and continuously refined via a consensus-based process.

Are products LEED certified?

Products are not LEED certified. Products contribute to an overall building project's LEED certification. Although USGBC does not certify, promote or endorse products and services of individual companies, products and services do play a role and can help projects with credit achievement.

What is LEED Certification?

The first step to LEED certification is to register the **building project**. To earn certification, a building project must meet certain prerequisites and performance benchmarks ("credits") within each category. Projects are awarded Certified, Silver, Gold, or Platinum certification depending on the number of credits they achieve. A LEED project applicant provides the LEED documentation forms and determines what further verification/documentation is needed for products.

How does LEED determine if the project qualifies for a particular LEED credit?

Each LEED Credit has specific calculation instructions to determine if the project qualifies for a LEED Credit. In many cases, LEED credit is calculated by the sum of all product costs associated with a particular LEED Credit, then compared to the overall project cost. The LEED project applicant is responsible for gathering data for these credit determination calculations.

Knight-Celotex Fiberboard LEED Credit Contribution for the Following Project Rating Systems:

1. **New Construction/Major Renovation**
2. **Commercial Interiors (Same credit areas as New Construction)**
3. **Core and Shell Development (Same credit areas as New Construction)**

Materials and Resources

Credit MR 4.1 Recycled Content 10% of the total value of the building materials in the project.

Credit MR 4.2 Recycled Content 20% of the total value of the building materials in the project.

Requirement: Use materials with recycled content, post-consumer and pre-consumer (formerly post-industrial) content. Excluded is reutilization of materials such as rework, regrind or scrap generated in a process and capable of being reclaimed within the same process that generated it.

Credit Contribution: Yes, there is LEED credit contribution based on fiber supply at each manufacturing location. (See the matrix on next page.)

Credit MR 5.1 Regional Materials 10% of the total value of the building materials in the project

Credit MR 5.2 Regional Materials 20% of the total value of the building materials in the project

Requirement: Use building materials or products that have been extracted, harvested or recovered, as well as, manufactured within 500 miles of the project site.

Credit Contribution: There is possible credit contribution depending on proximity of the LEED building project in relation to the manufacturing, extraction and harvesting locations. Credit contribution also includes the relationship of raw materials (and their extraction, harvesting, processing and manufacturing) to the LEED building project.

Credit MR 6 Rapidly Renewable Materials 2.5% of the total value of the building materials in the project

Requirement: Use rapidly renewable building materials and products made from plants (or animals) that are typically harvested within a ten-year cycle or shorter.

Credit Contribution: Yes, there is LEED credit contribution based on vegetable starch binder at all manufacturing locations and bagasse at the Marrero, LA location.

Indoor Environmental Quality

Credit EQ 4.4 Low-Emitting Materials. Composite Wood & Agrifiber Products

Requirement: Composite wood and agrifiber products used on the interior of the building (defined as inside of the weather proofing system) shall contain no added urea-formaldehyde resins.

Credit Contribution: Yes, there is full LEED credit contribution. There is no added urea-formaldehyde in Knight-Celotex Fiberboard products

Knight-Celotex Fiberboard
LEED Credit Contribution/Product/Mfg Location Matrix
For the Following Rating Systems

1. **New Construction/Major Renovation**
2. **Commercial Interiors**
3. **Core and Shell Development**

LEED Credit	Sunbury Sturdy Brace	Sunbury All Other Products	Danville Sturdy Brace	Danville All Other Products	Marrero All Products	Lisbon Falls VERSAKOR	Lisbon Falls KORLITE	Lisbon Falls CONFLEX
MR 4 Recycled Content	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
MR 5 Regional Materials	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible
MR 6 Rapidly Renewable Materials	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
EQ 4.4 Low-Emitting Materials	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Pre= Pre-consumer content, formerly called post-industrial content

Post= Post-consumer content