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Impact Barrier® QT LEED Sheet

Overview

Recycled rubber underlayment is a growing category for sound insulation within the construction industry and continues to increase in popularity as a practical solution for construction applications. The easy installation, durability, and quality of Impact Barrier QT Sound Insulation is ideal for a wide variety of sound control applications.

The demand for recycled sound insulation products is increasing due to its many positive environmental attributes. The high recycled content and low-VOC emissions and live cycle costs make it an environmentally sensitive choice for a variety of applications. These benefits also enable it to potentially contribute points towards LEED certification. Impact Barrier QT is designed to meet the stringent criteria required to help earn point in two of the six categories of LEED. Based on these criteria, Impact Barrier QT can assist by potentially contributing towards up to 7 LEED-NC/CI and 9 LEED-EB points.

Key

- LEED-NC: LEED for New Construction and Major Renovations
- LEED-EB: LEED for Existing Buildings
- LEED-CI: LEED for Commercial Interiors
- LEED for Core & Shell
- LEED for Schools

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

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CONSTRUCTION WASTE MANAGEMENT

Definition of LEED-NC Credits MR 2.1 & MR 2.2

MR 2.1 (1 point)

Recycle and/or salvage at least 50% of non-hazardous construction and demolition debris. Develop and implement a construction waste management plan that, at a minimum, identifies the materials to be diverted from disposal and whether the materials will be sorted on-site or commingled. Calculations can be done by weight or volume, but must be consistent throughout.

MR 2.2 (1 point in addition to MR 2.1)

Recycle and salvage an additional 25% beyond MR 2.1 (75% total) of non-hazardous construction and demolition debris.

Definition of LEED-EB Credits MR 1.1 & MR 1.2

MR 1.1 (1 point)

Divert at least 50% of construction, demolition, and land-clearing waste from landfill and incineration disposal.

MR 1.2 (1 point in addition to 1.2)

Divert at least 75% of construction, demolition, and land-clearing waste from landfill and incineration disposal.

How Impact Barrier QT can contribute:

Impact Barrier QT selvages and overages can shipped back at the owner's expense to be recycled and reused. Materials will be sorted, shredded, cleaned, and ground for the next generation of underlayment.

We require scrap and old materials to be free of excessive adhesive and foreign contaminates, including stones, wood, concrete, asphalt, etc. For more information, please contact us at 1-866-949-9269.

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Potential Strategies

Establish goals of diversion from disposal in landfills, incineration facilities, and adopt a construction waste management plan to achieve these goals.

Consider recycling cardboard, metal, brick, rubber, mineral fiber panel, concrete, plastic, clean wood, glass, gypsum wallboard, carpet, and insulation. Designate a specific area on the construction site for segregated or commingled collection of recyclable materials, and track recycling efforts throughout the construction process.

RECYCLED CONTENT

Definition of LEED-NC Credits MR 4.1 & MR 4.2

MR 4.1 (1 point)

Use materials with recycled content such that the sum of post-consumer recycled content plus one half (the value of) the pre-consumer content constitutes at least 10% of the total value of the materials in the project.

The value of the recycled content portion of a material or furnishing shall be determined by dividing the weight or recycled content in the item by the total weight of all the material in the item, then multiplying the resulting percentage by the total value of the item.

MR 4.2 (1 point in addition to MR 4.1)

Use materials with recycled content such that the sum of post-consumer recycled content plus one half (the value of) the pre-consumer content constitutes at least 20% of the total value of the materials in the project.

Definition of LEED-EB Credits MR 2.1 - MR 2.5

MR 2.1 – MR 2.5

Maintain a sustainable purchasing program covering at least office paper, office equipment, furniture, furnishings, and building materials for use in the building and on the site. A template calculator will be provided for LEED for

Existing Buildings MR Credit 2.1-2.5. One point (up to a maximum of five) will be awarded for each 10% of total purchases over the performance period (on a dollar basis) that achieves at least one of the following sustainability criteria:

· Contains at least 70% salvaged material from off site or outside the organization.

· Contains at least 70% salvaged from onsite through an internal organization materials and equipment reuse program.

· Contains at least 10% post-consumer or 20% post-industrial material.

· Contains at least 50% rapidly renewable materials.

· Is Forest Stewardship Council (FSC) certified wood.

· Contains at least 50% materials harvested and processed or extracted and processed within 500 miles of the project.

How Impact Barrier QT can contribute:

Impact Barrier QT is comprised of shredded and cleaned SBR tire rubber (post-consumer waste) and EPDM flecks. The result is a polymerically bound insulation with very high-recycled content.

Potential Strategies

Establish a project goal for recycled content materials and identify material suppliers that can achieve this goal. During construction, ensure that the specified recycled content materials are installed and quantify the total percentage of recycled content materials installed.

LOCAL/REGIONAL MATERIALS

Definition of LEED-NC Credits MR 5.1 & MR 5.2

MR 5.1 (1 point)

Use building materials or products that have been extracted, harvested, or recovered, as well as manufactured, within 500 miles of the project site for a minimum of 10% (based on cost) of the total material value. If only a fraction

of a product or material is extracted/harvested/recovered and manufactured locally, then only that percentage (by weight) shall contribute to the regional value.

MR 5.2 (1 point in addition to MR 5.1)

Same as above but with a minimum of 20% of the total material value.

How Impact Barrier QT can contribute:

Impact Barrier QT is manufactured in Lancaster, PA. All product components, including both SBR and EPDM rubber are manufactured on-site.

Potential Strategies

Establish a project goal for locally sourced materials and identify materials and material suppliers that can achieve this goal. During construction, ensure that the specified local materials are installed and quantify the total percentage of local materials installed.

LOW-EMITTING MATERIALS: ADHESIVES & SEALANTS

Definition of LEED-NC Credit EQ 4.1

EQ 4.1 (1 point)

Adhesives and sealants must be lower than the current VOC content limits of South Coast Air Quality Management District (SCAQMD) Rule #1168.

Definition of LEED-EB Credits EQ 3.1 - EQ 3.2

EQ 3.1 - EQ 3.2

Optimize use of air quality compliant materials inside the building to reduce the emission from materials used in the building. Points are awarded for the existence of product purchasing policies for the building and site addressing the requirements of this credit and documentation of purchasing during the performance period in conformance with those policies, as described below.

Subsequent re-certification is tied to both policies and purchasing performance, as described below. At a minimum, these policies must include the following product groups: paint and coatings, adhesives, sealants, carpet, composite panels, and agrifiber products. The building materials covered include any building materials covered by letter a-e listed below that are used for improvements, including upgrades, retrofits, renovations, or modifications, inside the building.

One point shall be awarded, up to a maximum of 2 points, for each 45% of annual purchases calculated on a cost basis that conform to one of the following sustainability criteria:

a. Adhesives and sealants with VOC content less than the current VOC content limits of SCAQMD Rule #1168, or sealants used as fillers that meet or exceed the requirements of the Bay Area Air Quality Management District Regulation 8, Rule 51.

OR

b. Paints and coatings with VOC emissions that do not exceed the VOC and chemical component limits of Green Seal's Standard GS-11 requirements.

OR

c. Carpet that meets the requirement of the CRI Green Label Plus Carpet Testing Program.

OR

d. Carpet cushion that meets the requirements of the CRI Green Label Testing Program.

OR

e. Composite panels and agrifiber products that contain no added urea-formaldehyde resins.

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How Impact Barrier QT can contribute:

To achieve optimum sound-reducing results, we recommend installing Impact Barrier QT with our OSI® Pro-Series® SC-175 Acoustical Sound Sealant. This sealant has ultra-low VOC content, is GREENGUARD® approved, and qualifies for LEED points. It complies with SCAQMD Rule # 1168, CARB, and BAAQMD.

Potential Strategies

Specify low-VOC materials in construction documents. Ensure that VOC limits are clearly stated in each section where adhesives and sealants are used. Review product cut sheets, MSDS sheets, sign attestations, or other official literature from the manufacturer clearly identifying the VOC contents or compliance with referenced standards.

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