



Zenolite[®] and the Environment

Credit Points Contribution

for

**Leadership in Energy and Environmental
Design (LEED)**

Green Building Rating System™

LEED for New Construction Rating System

Zenolite® and the Environment

As a global manufacturer of a diverse range of products for various industries, EGR is dedicated to minimizing our impact on the Environment. From our systems for manufacturing and management, which are certified to ISO 14001 (Environmental Management Systems), to the “low impact” design of our products, EGR is committed to protecting all communities associated with our products.



EGR supports the US Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED) Green Building Rating System™ and we are extremely pleased to be able to offer products which contribute credit points and help create environmentally responsible buildings.

The contribution of Zenolite towards LEED points are explained in this document. In providing this information, our goal is to assist you in creating a new standard of sustainable, green buildings.

Zenolite can contribute credit points under the LEED Green Building Rating System™ for “Material & Resources” under the following categories:

- Building Reuse (MR Credit 1.1, 1.2 and 1.3)
- Recycled Content (MR Credit 4.1 and 4.2)
- Regional Materials (MR Credit 5.1)

The following pages describe each of the above categories, the requirements and how Zenolite can contribute credit points to your project for each category.

Building Reuse

**MR Credit 1.1: Maintain 75% of Existing Walls, Floors & Roof
1 Point**

**MR Credit 1.2: Maintain 95% of Existing Walls, Floors & Roof
1 Point in addition to MR Credit 1.1**

Intent

Extend the life cycle of existing building stock, conserve resources, retain cultural resources, reduce waste and reduce environmental impacts of new buildings as they relate to materials manufacturing and transport.

Requirements

MR Credit 1.1

Maintain at least 75% (based on surface area) of existing building structure (including structural floor and roof decking) and envelope (exterior skin and framing, excluding window assemblies and non-structural roofing material).

MR Credit 1.2

Maintain an additional 20% (95% total, based on surface area) of existing building structure (including structural floor and roof decking) and envelope (exterior skin and framing, excluding window assemblies and non-structural roofing material).

**MR Credit 1.3: Maintain 50% of Interior Non-Structural Elements
1 Point**

Intent

Extend the life cycle of existing building stock, conserve resources, retain cultural resources, reduce waste and reduce environmental impacts of new buildings as they relate to materials manufacturing and transport.

Requirements

Use existing interior non-structural elements (interior walls, doors, floor coverings and ceiling systems) in at least 50% (by area) of the completed building (including additions). If the project includes an addition to an existing building, this credit is not applicable if the square footage of the addition is more than 2 times the square footage of the existing building.

Zenolite Credit Contribution

Zenolite decorative panels can be applied directly over previously painted, tiled or existing drywall, if the wall is found to be in sound condition.

As a result, specifying the use of Zenolite in an existing building can allow a significant portion of the existing building structure to be maintained, conserving resources and reducing waste.

Recycled Content

MR Credit 4.1: 10% (post-consumer + 1/2 pre-consumer)

1 Point

MR Credit 4.2: 20% (post-consumer + 1/2 pre-consumer)

1 Point in addition to MR Credit 4.1

Intent

Increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials.

Requirements

MR Credit 4.1

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

MR Credit 4.2

Use materials with recycled content such that the sum of post-consumer recycled content plus one-half of the pre-consumer content constitutes an additional 10% beyond MR Credit 4.1 (total of 20%, based on cost) of the total value of the materials in the project.

The recycled content value of a material assembly shall be determined by weight. The recycled fraction of the assembly is then multiplied by the cost of assembly to determine the recycled content value.

Post-consumer material is defined as waste material generated by households or by commercial, industrial and institutional facilities in their role as end-users of the product, which can no longer be used for its intended purpose.

Pre-consumer material is defined as material diverted from the waste stream during the manufacturing process.

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.

Zenolite Credit Contribution

Zenolite decorative panels can be 100% recycled as a "Post-consumer material". The material is 100% acrylic (PMMA) and can be reground and recycled for various uses. One such use of recycled Zenolite is the manufacture of acrylic based paints.

Zenolite thereby contributes LEED credit points as 100% of the content is Post-consumer recyclable, reducing the extraction and use of virgin materials.



Regional Materials

**MR Credit 5.1: 10% Extracted, Processed & Manufactured Regionally
1 Point**

**MR Credit 5.2: 20% Extracted, Processed & Manufactured Regionally
1 Point in addition to MR Credit 5.1**

Intent

Increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.

Requirements

MR Credit 5.1

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 materials value.

MR Credit 5.2

Use building materials or products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site for an additional 10% beyond MR Credit 5.1 (total of 20%, based on cost) of the total materials 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.

Zenolite Credit Contribution

Zenolite is manufactured at EGR's world class extrusion plant in Brisbane, Australia. However, the optical grade resin used to manufacture Zenolite is sourced and derived from various sources around the world.

Depending on the project location, Zenolite may contribute to LEED credit points for Regional Materials.



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