



GLADDING, McBEAN

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Green Standards

Gladding, McBean Company is committed to being environmental stewards by adopting responsible practices throughout its operation to minimize our environmental impact and to reduce and reuse waste, efficiently manage and control our water and energy use, so we can provide innovative products based on sustainable design.

No other building material can match the sustainability advantages of clay. And that's particularly true for Gladding, McBean products. Here's why:

- **Natural Materials Efficiently Sourced:** The plant maintains a highly effective Environmental Management System in place to control effluent, emissions and resource extraction. Our products are made of clay and water. 98% of the raw materials are located within 2 miles of the Gladding, McBean production facility.
- **Efficiency of Production and Energy Consumption:** Gladding, McBean uses computer-controlled firing technology to minimize our carbon footprint. Heat energy is recycled wherever possible in the production process to reduce energy consumption. Also, no process waste water is created in the production of our vitrified clay products. Recently, new raw material sources have been added to the recipe that densify the final product at a lower heat input thus, reducing fuel consumption during the firing process without adversely affecting product durability.
- **Efficient Materials Management through Recycling:** Product is recycled back into the raw material stream. As a result, no product is ever wasted. Gladding, McBean products are inert and innocuous: they do not harm the environment.
- **Durability and Lifetime Carbon Impact:** The high strength and long life cycle of vitrified clay lowers both its life-cycle cost and its lifetime carbon impact. It doesn't pollute or degrade, stays color fast, will not fade and requires little or no maintenance.
- **Culture of Environmental Sensitivity and Social Responsibility:** Our goal is to make all our employees more environmentally sensitive and to develop that culture within the organization. And as we employ mostly from the local rural communities our hope is that they will take this knowledge and culture with them and into their communities to be promoted in an ethical and sustainable manner.

LEED

LEED is an internationally recognized certification system that measures how well a building or community performs across all the metrics that matter most: energy savings, water efficiency, CO2 emissions reduction, improved indoor environmental quality, and stewardship of resources and sensitivity to their impacts.

Developed by the U.S. Green Building Council (USGBC), LEED provides building owners and operators a concise framework for identifying and implementing practical and measurable green building design, construction, operations and maintenance solutions.

LEED is flexible enough to apply to all building types – commercial as well as residential. It works throughout the building lifecycle – design and construction, operations and maintenance, tenant fitout, and significant retrofit. And LEED for Neighborhood Development extends the benefits of LEED beyond the building footprint into the neighborhood it serves.

Gladding McBean Clay Roof Tiles can contribute toward *the U.S. Green Building Counsel's Leadership in Energy and Environmental Design (LEED)* program in the following areas:

Sustainable Sites

Credit 7.2. Heat Island Effect, Roof.

- *Option 1.* Use roofing materials having a Solar Reflectance Index (SRI) equal to or greater than 29 for roofs with a slope greater than 2:12 to cover a minimum of 75% of the roof surface.
- *Qualifying.* GMcB has many colors with an SRI rating of 29 or higher.

Material & Resources

Credit 4.1, and 4.2. Material Recycled Content.

- *Use Materials* with post-consumer and pre-consumer recycled content.
- *Qualifying.* GMcB Clay Roof Tiles contain 25% Pre-Consumer recycled content.

Credit 5.1, and 5.2. Regional Materials

- *Use Materials* that are extracted, harvested or recovered, as well as manufactured within 500 miles of the project site.
- *Qualifying.* Manufacturing location: Lincoln, CA
- *Extraction location:* 2-11 miles from manufacturing location



For further information:

- Cool Roof Rating Council Preview: <http://www.gladdingmcbear.com/docs/CRRC%20Certification.pdf>
- Cool Roof Rating Council: www.coolroofs.org



OVER A CENTURY OF CRAFTSMANSHIP IN CLAY
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