



protected by **design** |

Designing for Sustainability in Homes



daltile   
greenworks™

# designed to protect nature's designs

Daltile stands for beautiful design in every way possible. Because we believe the best design includes consideration for the environment, we have introduced Greenworks™ – our philosophies and operating practices that are reducing our impact on this earth.

Daltile Greenworks is more than just a compilation of our sustainability programs – it's a company-wide philosophy, a commitment to help you design sustainable projects – without compromising your artistic vision. With Daltile products, great design doesn't have to be sacrificed in order to protect nature's remarkable designs. Nature's beauty is our inspiration. nature has provided for our inspiration.

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# building green



**D**altile offers a variety of products that can help professionals like you construct or remodel in an environmentally responsible manner. In the next few pages, you'll find useful information regarding programs you can use to make environmentally conscious design choices.

You can find more detailed information about our program and green building on [daltilegreenworks.com](http://daltilegreenworks.com).



## A Beautiful Choice for Green Residences

Our products can help qualify under many of the industry-leading green building programs, in addition to local and state green building initiatives. Specifically, using Daltile products can help you in two major areas – indoor air quality and environmentally preferable materials.

### Indoor Air Quality

Except for the walls, floors usually account for more surface area than anything else in a house, so they have a great effect on indoor air quality. Adults, children and pets walk, play and sit on them, wear them down and breathe in what they emit for many years.

- Most tile glazes are water based and use minimal amounts of solvents. Once fired, the tile and glaze are completely fused and there is no possibility of volatile gas emissions.
- All of our manufactured products pass Department of Health testing standards and contain no VOC's.

### Environmentally Preferable Materials

The choice of building materials is important for sustainable home building and remodeling because of the extensive network of extraction, processing and transportation they require. *Recycled-content materials reuse waste products that would otherwise be deposited in landfills. And use of local materials supports the local economy and reduces the harmful impacts of long-distance transport.*

- More than 97% of Daltile's manufactured products contain pre-consumer (post-industrial) recycled materials.
- Our multiple manufacturing facilities in the United States and Mexico provide the opportunity for our products and raw materials to be closer to more building projects, thus conserving fossil fuels required for transportation.

We offer real-time information on recycled materials content and information on whether or not your home project falls within a 500-mile radius of one of our plants, making it easy for you select the material that best meets your needs.

For real-time information visit [daltilegreenworks.com](http://daltilegreenworks.com)

## LEED® for Homes (New Construction)

The United States Green Building Council developed the LEED Green Building Rating System in 1998. Today it's the nationally accepted benchmark for high-performance green building.

LEED for Homes is a voluntary rating system that promotes the design and construction of high-performance green homes. Our products can help you earn LEED® credits in the following categories:

Innovation & Design	ID 2.1.(c) Indoor Moisture Control
Sustainable Site	S 3.2 Light Colored Hardscapes
Materials and Resources (MR)	MR 2.2 Environmentally Preferable Materials
Indoor Environmental Quality (IEQ)	IEQ 8.2 Indoor Contaminant Control

## REGREEN Guidelines (Remodeling)

The American Society of Interior Designers' Foundation and the U.S. Green Building Council have partnered to develop a series of best practice guidelines and educational resources for sustainable residential improvement projects.

The REGREEN program is designed to increase the understanding of sustainable renovation practices and the benefits to homeowners. Whether you're a seasoned renovator or a first-time do-it-yourselfer, many of our products can help your next renovation adhere to the REGREEN Guidelines.

Find more information on the REGREEN Guidelines at [regreenprogram.org](http://regreenprogram.org) or [greenhomeguide.org](http://greenhomeguide.org).

## National Association of Home Builders (NAHB) Green Guidelines

NAHB's voluntary Green Home Building Guidelines are designed to be a tool kit for builders and home builder associations who are looking to launch their own local green building programs.

Developed with the mainstream builder in mind, the NAHB Green Home Building Guidelines are designed to help provide standards for the green design and construction process and assist builders in incorporating more green building features into homes.

Daltile products can help you earn points for a NAHB Green Home Project in the following areas:

Section 2: Resource Efficiency	2.1.5 Building materials that require no additional finishing 2.4.1 Use recycled content materials 2.5.1. Develop and implement a construction and demolition management plan 2.5.3. Recycle construction waste off-site 2.6.1. Use materials manufactured from renewable resources or agricultural by products 2.6.2. Use certified wood and wood-based materials 2.8.1 Use locally available indigenous materials
Section 7: Global Impact	7.1.3. Use low-VOC sealants and adhesives

For more information on the NAHB Green Home Building Guidelines, visit [daltilegreenworks.com](http://daltilegreenworks.com).

## The Green Communities Guidelines for Affordable Housing

Green Communities is transforming the way America thinks about, designs, and builds affordable communities. Green building integrates materials and methods that promote environmental quality, economic vitality and social benefits through design, construction and operation of the built environment. Green Communities aligns affordable housing investment strategies with environmentally responsive building practices.

The 2008 version of the Green Communities criteria is purposefully aligned with the USGBC LEED for Homes Rating System for Homes. The Green Communities Criteria were developed specifically for developers of all types of affordable housing to be a rigorous yet holistic approach to deliver homes that provide significant health, economic and environmental benefits.

Daltile products can help you qualify in the following areas:

Materials Beneficial to the Environment	6.2 Recycled Content Material 6.5(b) Reducing Heat-Island Effect: Paving
Healthy Living Environment	7.2 Low / No VOC Adhesives and Sealants 7.9(a) Materials in Wet Areas: Surfaces 7.9(b) Materials in Wet Areas: Tub and Shower Enclosures 7.16 Healthy Flooring Materials: Alternative Sources

For more information on the Green Communities Guidelines, visit [daltilegreenworks.com](http://daltilegreenworks.com).



# designed to make a difference



**D**

ue to our firm belief that design is intended to create better places to live and work, Daltilo takes the necessary steps to help make our operations as sustainable as possible. We are recycling, reusing and reducing solid materials and water used to manufacture our tile, as well as achieving a remarkable level of energy conservation.

## Conserving Solid Materials

To help protect nature's grand design, the Daltile Greenworks program has included changes in our processes as well as our products. Daltile is currently preventing more than 200 million pounds of solid waste from ending up in landfills.

This is being done in a variety of ways such as utilizing byproducts that other companies had previously discarded, reusing our own manufacturing waste and recycling as many solid materials as possible that cannot be reused internally.

## Conserving Energy

Daltile lives for wonderful design. But we recognize that a bold redesign can be just as beautiful. By reevaluating our operations, we have dramatically reduced the energy we consume. As of today, we're conserving enough to provide natural gas for over 6,000 homes and electricity for over 1,700 homes annually.

Daltile's multiple manufacturing facilities in the U.S. and Mexico provide the opportunity for our products and raw materials to be closer to more building projects, thus conserving fossil fuels required for transportation. In addition, we have several strategically placed Regional Distribution Centers and Sales Service Centers/Stone Showrooms across United States and Canada that allows us to maximize the volume of every truckload for the most efficient transportation our products. Further, a fuel saving device is being applied to reduce fuel consumption by 10%-20% and emissions by an average of 50%.

Additionally, our manufacturing operations use clean-burning natural gas as an energy source in all of our kilns, which minimizes air pollution. No fuel oils or coals are utilized. Manufacturing plants have reduced natural gas demand by more than 8% in the last two years.

Our holistic corporate approach to conservation has included innovative modifications to air compressor systems, installation of high efficiency lighting and office occupancy sensors, leading to a savings of over 18 million KWHr per year.

## Conserving Waste Water

Water is essential to life. And Daltile is taking major steps to help ensure that this vital element is protected and preserved. Annually, Daltile recovers and reuses over 60 million gallons of process wastewater.

Today, three of our plants recycle and reuse 100% of wastewater generated in manufacturing. In these facilities, not a single drop goes to waste. Our remaining manufacturing facilities recycle water to a great extent, and we are working towards our goal of zero discharge of process wastewater from any of our plants in the near future.

