

TerraCORE Exterior LEED® Product Information

TerraCORE Exterior Product Identification Information: TerraCORE- HCT and TerraCORE-HCI Lightweight Honeycomb Reinforced Stone Panels

Manufacturer: TerraCORE Panels

Website: <http://www.terracorepanels.com/>

TerraCORE Exterior Product Description: Thin Natural Stone veneer bonded to reinforcing Core backing consisting of fiberglass interlayer, Aluminium Honeycomb, Aluminium back plate using high strength epoxy Adhesive.

What is LEED?

LEED, or Leadership in Energy & Environmental Design, is a green building certification program that recognizes best-in-class building strategies and practices. To receive LEED certification, building projects satisfy prerequisites and earn points to achieve different levels of certification. Prerequisites and credits differ for each rating system, and teams choose the best fit for their project. TerraCORE Exterior products support achievement of LEED credits because of their sustainable and human health-related attributes.

How does TerraCORE Exterior help me earn LEED Points in the new LEED version 4 for Building Design and Construction projects?

TerraCORE Exterior directly contributes to a LEED Building Design and Construction v4 (LEED BD+C) project score and apply to project types including New Construction and Major Renovations, Core and Shell, Schools, Retail, Data Centers, Warehouses and Distribution Centers, Hospitality, and Healthcare.

TerraCORE Exterior is composed of 22.05% Post-Consumer Recycled Content and 10.8% Pre-Consumer Recycled Content. TerraCORE Exterior also carries a Health Product Declaration with full disclosure of known hazards in compliance with the Health Product Declaration open Standard. There are a total of two points within two separate credits in the Materials and Resources Category of LEED BD+C projects where these attributes of TerraCORE Exterior make this direct contribution:

- Materials and Resources Credit Building Product Disclosure and Optimization - Sourcing of Raw Materials
- Materials and Resources Credit Building Product Disclosure and Optimization - Material Ingredients

Can you help me complete the Materials and Resources documentation for my LEED project?

Yes. Our Health Product Declaration sheet and TerraCORE's data has been inputted into the new LEED v4 Building Product Disclosure and Optimization (BPDO) Calculator for you. LEED project teams use this to document achievement of these credits.

How do I adjust the LEED v4 Building Product Disclosure and Optimization Calculator for my project?

The LEED v4 BPDO Calculator has been populated with TerraCORE Exterior product data using an example project with the attributes shown below.

- Adjust these attributes directly in the calculator to match your project.
- Adjust the product cost to match your TerraCORE Exterior purchase (include taxes and delivery).
- Add the other materials on your job to calculate your achievement overall.

Example Project

- Total construction cost = \$30,000,000
- Total materials cost = \$13,500,000
- TerraCORE Exterior product cost example:
 - 100 square feet x \$32.00 per square foot = \$3,200 product cost
 - TerraCORE Exterior is composed of 22.05% Post-Consumer and 10.8% Pre-Consumer Recycled Content.
 - TerraCORE Exterior has a complete Health Product Declaration with full disclosure of known hazards in compliance with the Health Product Declaration open Standard.
- \$3,200 of TerraCORE Exterior contributes:
 - \$878.40 towards Total Recycled Content Value
 - 1 of the 20 required products carrying Material Ingredient Reporting status

What are the requirements for these new LEED BD+C v4 Materials and Resources credits and how does TerraCORE Exterior help me meet them?

Materials and Resources Credit Building Product Disclosure and Optimization - Sourcing of Raw Materials

Credit Intent:

To encourage the use of products and materials for which life cycle information is available and that have environmentally, economically, and

socially preferable life cycle impacts. To reward project teams for selecting products verified to have been extracted or sourced in a responsible manner.

TerraCORE Exterior products meet the Recycled Content criteria of this credit and can contribute to the project's achievement of one (1) point.

Applicable Credit Requirements:

- Option 2 – Leadership Extraction Practices (1 Point)
 - Use products that meet at least one of the six USGBC approved responsible extraction criteria for at least 25%, by cost, of the total value of permanently installed building products in the project.
 - **Recycled Content.** Recycled content is the sum of postconsumer recycled content plus one-half the preconsumer recycled content, based on cost. Products meeting recycled content criteria are valued at 100% of their cost for the purposes of credit achievement calculation.
 - **TerraCORE Exterior is composed of 22.05% Post-Consumer and 10.8% Pre-Consumer Recycled Content.**

Materials and Resources Credit Building Product Disclosure and Optimization - Material Ingredients

Credit Intent:

To encourage the use of products and materials for which life-cycle information is available and that have environmentally, economically, and socially preferable life-cycle impacts. To reward project teams for selecting products for which the chemical ingredients in the product are inventoried using an accepted methodology and for selecting products verified to minimize the use and generation of harmful substances. To reward raw material manufacturers who produce products verified to have improved life-cycle impacts.

TerraCORE Exterior products meet the Health Product Declaration criteria of this credit and can contribute to the project's achievement of one (1) point.

Applicable Credit Requirements:

- Option 1. Material Ingredient Reporting (1 point)
 - Use at least 20 different permanently installed products from at least five different manufacturers that use any of the four USGBC

approved programs to demonstrate the chemical inventory of the product to at least 0.1% (1000 ppm).

- **Health Product Declaration.** The end use product has a published, complete Health Product Declaration with full disclosure of known hazards in compliance with the Health Product Declaration open Standard.
- **TerraCORE Exterior's compliant Health Product Declaration is provided.**

Manufacturer Contact Information: