

Leadership in Energy and Environmental Design (LEED) is the most widely used green building rating system in the world. Owners, designers, and project teams committed to creating healthy, efficient and cost-saving green buildings use the LEED framework to implement a holistic approach to project design, construction, and operation. A significant challenge in achieving LEED certification is specifying and using compliant building products that can meet one or multiple product-related credits desired. Fireclay Tile's comprehensive approach to sustainable enterprise includes B Corp certification (the first B Corp in tile!), 100% renewable electricity sourced at our Aromas, California plant, and significant carbon offsets. We address the carbon-health nexus by obtaining Third Party Verified HPDs covering all our products and publishing a cradle-to-grave product-specific EPD and accompanying LCA Action Plan for Aromas-made tile, seeking to optimize both the material health and embodied carbon of our tile.

CREDIT CATEGORY	CREDIT NAME	DOCUMENTATION TO PROVIDE	AVAILABLE DOCUMENTATION FOR CREDIT 1 OPTION: DISCLOSURE/REPORTING	AVAILABLE DOCUMENTATION FOR CREDIT 2 OPTION: OPTIMIZATION	LEED V4.1 CONTRIBUTION	MULTIPLIER
Materials & Resources (MR)	Environmental Product Declarations	EPD Life Cycle Impact Reduction Action Plan	Product-specific, Type III EPD: cradle-to-grave scope, ISO 21930 compliant with external third party verification	LCA Action Plan	Disclosure: Valued as 1.5 products Optimization: Valued as 0.5 products	N/A
Materials & Resources (MR)	Sourcing of Raw Materials	Pre- and Post-Consumer Recycled Content	Pre-and Post-Consumer Recycled Content		Point value based on total spend on product. This will be determined at time of submittal	Regional materials multiplier not applicable.
Materials & Resources (MR)	Material Ingredients	Third Party Verified HPDs	Third Party Verified HPD demonstrating content inventory to 100 ppm (0.01%)	Advanced Inventory & Assessment: Third Party Verified HPD demonstrating content inventory to 100 ppm (0.01%) and at least 75% of by weight of the product is assessed using GreenScreen and/or HPDC Special Conditions	Disclosure: Valued as 1.5 products (with TPV HPD) Optimization: Valued as 1 product	Regional materials multiplier not applicable.
Indoor Environmental Quality (EQ)	Low-Emitting Materials	Inherently nonemitting source: compliant by program definition	Product is an inherently nonemitting source of VOCs (ceramic) and has no binders, surface coatings, or sealants that include organic chemicals.		Meets inherently nonemitting sources criteria for Flooring	N/A

Materials & Resources (MR): Environmental Product Declarations

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.

Option 1: Environmental Product Declaration (EPD)

Fireclay Tile has a product-specific, Type III cradle-to-grave EPD for its Ceramic Floor and Wall Tile manufactured in Aromas, California. The EPD is fully conformant to applicable EPD standards and has undergone external verification and external critical review, worth 1.5 products for credit achievement calculations.

Option 2: Embodied Carbon/LCA Optimization

Fireclay Tile has a published Life Cycle Impact Reduction Action Plan signed by our CEO, worth 0.5 products for credit achievement calculations.

Materials & Resources (MR): Sourcing of Raw Materials

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.

Recycled content is calculated as the sum of postconsumer recycled content plus one-half of the pre-consumer recycled content, based on weight.

Materials & Resources (MR): Material Ingredients

Fireclay Tile's products contain recycled content as follows:

Original Ceramic Tile

Recycled Material: Granite Fines

Recycled Content: 28%

Natural Press Ceramic Tile

Recycled Material: Alumina Fines

Recycled Content: 3.8%

Intent: To reward project teams for selecting products for which the chemical ingredients in the product are inventories 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.

Option 1: Material Ingredient Reporting

Fireclay Tile has four (4) Third Party Verified HPDs that demonstrate content inventory to 100ppm (0.01% by weight), worth 1.5 products for credit achievement calculations.

Option 2: Material Ingredient Optimization

Our Third Party Verified HPDs demonstrate content inventory to 100ppm (0.01% by weight). The LEED v4.1 Reference Guide (for BD+C and ID+C Standards) clarify "at least 75% by weight of product is assessed using GreenScreen Benchmark assessment and/or is inventoried using HPDC Special Conditions reporting requirements" allows for 1 product valuation toward credit achievement calculations. Our HPDs meet these criteria with the support of the Tile Council of North America's (TCNA) Material Ingredient Guide and the HPDC Geological Materials Special Condition.

Indoor Environmental Quality (EQ): Low-Emitting Materials

Intent: To reduce concentrations of chemical contaminants that can damage air quality and the environment, and to protect the health, productivity, and comfort of installers and building occupants.

Ceramic tile and other fired products are inert and inherently nonemitting sources of VOCs. Fireclay Tile does not add binders, surface coatings, or sealants after our products are fired at temperatures over 2,000°F. We also provide detailed Installation Guides for each of our products that address, cutting, setting, grout application, sealing (which is not needed, but may be recommended by the contractor due to specific use case) and care during product installation and use. Fireclay Tile suggests following TCNA-recommended installation details as well as using low VOC content adhesives, sealants and grouts to promote installer safety.