

INNOVATION IS OUR SPECIALTY. SERVICE IS OUR PASSION.

CONCEPT SURFACES™

Concept Surfaces General LEED Documentation

Our tiles are made of 100% natural materials

- These include Quartz, Kaolin, Clay, Feldspar, Silica and natural coloring elements.

Our tiles contribute to a safe, healthy indoor environment

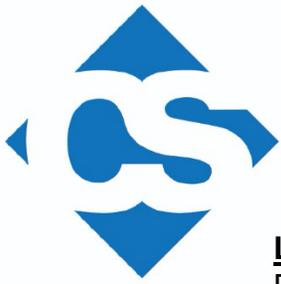
- NO “OFF-GASSING” – They contain NO sealants, waxes, epoxies or other chemicals that could release VOC’s (Volatile Organic Compounds) into the environment.
- Are highly resistant to stain, moisture, bacteria and odors thereby inhibiting mold, mildew and fungus.
- Easy regular cleaning with pH-neutral products.

Our tiles have exceptional durability and low maintenance requirements – Ceramic has a long life of 50+years!

- Ceramic tile lasts longer than soft as well as other hard surface materials and won’t likely be replaced for decades, reducing the need for new material.
- According to The Tile Council of North America (TCNA)’s Life Cycle Cost Study, ceramic tile costs less per year than all floor finishes over the life of a building.
- As a result of their high resistance to staining and high durability, they can contribute to a low impact maintenance program using environmentally friendly cleaners and cleaning products.

Our partners’ state of the art factories were designed with the latest technology for recycling waste, reusing raw materials and reduction of environmental impact

- The locations were selected to be close to plentiful raw materials, thus limiting transportation impact as well
- The factories were designed from the onset as low impact, versus having to “retrofit”.
- A CLOSED-LOOP production process: 100% of unfired tile, 90-100% of generated wastewater and 100% of particulate matter captured by dust collection systems are reused.
- Anti-pollution devices are utilized for all parts of the manufacturing process i.e., smoke Depurators, sand depurators, water purifiers, reutilization of the heat.



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II. Product Information Sheet

LEED v4/4.1

Porcelain tile is very durable and, with proper selection and installation, can last as long as the structure is standing. If the substrate selection is good and the preparation is performed correctly, porcelain tile can be used in many different applications such as floors, walls, countertops, ceilings, pools, tubs, showers, and exterior walls. [Materials & Resources: Building Product Disclosure and Optimization-Sourcing of Raw Materials Option1: Raw Material Source and Extraction Reporting for G2 Green Squared Materials and/or Option 2: Materials Reuse. Reuse includes salvaged, refurbished, or reused products. Products meeting materials reuse criteria are valued at 100% of their cost for the purposes of credit achievement calculation.]

Porcelain tiles:

Environmental Product Disclosures (EPD) As of April 2020 the Tile Council of North America (TCNA) released an Industry Wide EPD that covers 85% of the ceramic tile manufactured in the United States. The program operator is UL and the EPD was completed in accordance with ISO 14025, EN 15804 and ISO 21930-2017. LEEDv4.1 requires 10 EPD's from 3 manufacturers for LEED NC Core & Shell and 20 EPD's from 5 different manufacturers for NC. (1 Point)

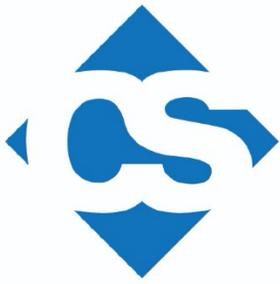
Are 100% recyclable into materials such as cement, brick, or artistic tile mosaics.

Materials & Resources Credit: Construction and Demolition Waste Management-Divert 50% and Three Material Streams (1 Point)/Divert 75% and Four Material Streams (2 Points) from Landfill (NC & CI).

Contain both post-consumer and pre-consumer recycled content. Building Product Disclosure & Optimization: Sourcing of Raw Materials-Contributes to Option2. Leadership Extraction Practices (1Point) 10%/20% Recycled Content (post-consumer & ½ pre-consumer) (NC & CI).

Contribute to Option 2. Multi-Attribute Optimization under Building Product Disclosure and Optimization-Environmental Product Declarations through the TCNA's Green Squared Program. (NC & CI).

Are highly resistant to stain, moisture, bacteria, and odors, thereby inhibiting mold, mildew, and fungus.



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Indoor Environmental Quality Credit Construction IAQ
Management Plan: During Construction (NC & CI) & Indoor Air
Quality Assessment (NC & CI)

Contains no sealants, waxes, or other chemicals that could
release Volatile Organic Compounds (VOCs). No off-gassing is
required. (NC & CI) Indoor Environmental Quality Credit Indoor
Air Quality Assessment.

(NC & CI)

Does not show pathways, which reduces the use of chemicals
and equipment to buff and polish. Can be cleaned using a broom
and mop, which contributes to better indoor air quality, and also
reduces the purchase of durable goods and the use of fossil
fuels. Are easy to clean by using the mildest cleaning products
which are Ph neutral. Contributes to: Green Cleaning Policy
(EB)Green Cleaning (EB) Purchasing (EB).

Purchasing from Concept Surfaces will contribute to Building
Disclosure & Optimization: Environmental Product Declarations,
if the project is within 100 miles of 1300 Crampton Street, Dallas,
Texas. Materials extracted, manufactured, or purchased within
100 miles of the project site are valued at 200% of their base
contributing cost within the LEED BPDO calculator.

LEED Programs: NC = New Construction
CI = Commercial Interiors
EB = Existing Building

Rev. 4/28/20

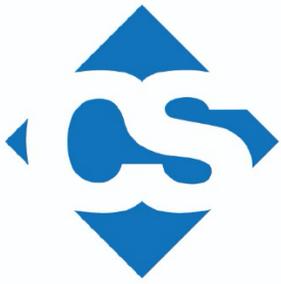
III. SUSTAINABLE FACTS ABOUT PORCELAIN TILE

- Is a very sustainable product. Properly selected and installed, porcelain tile will last as long as you want or until the structure it is attached to falls down. Proof is in the ancient ruins of Egypt, Pompeii and other places in the Middle East.
- Porcelain tile goes anywhere. It can be used on floors, walls, countertops, ceilings, pools, tubs, showers, and outside walls. Even moving surfaces, as found in motor homes and boats, can be tiled, but the tile must be properly selected and properly installed. Substrate selection and preparation are important.

972.386.4900

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- Porcelain tiles are 100% recyclable into materials such as cement, brick or artistic tile mosaics.
- According to the Tile Council of North America's (TCNA) Life Cycle Cost Study, porcelain tile costs less per year than all other floor finishes over the life of a building.
- Porcelain tiles contain no sealants, waxes or other chemicals that could release Volatile Organic Compounds (VOC) into the environment.
- Dry set tiles are reusable by removing and installing in different locations.
- No off-gassing is required when using porcelain tiles.
- Porcelain tiles are highly resistant to stain, moisture, bacteria, and odors, thereby inhibiting mold, mildew, and fungus. This contributes to a low impact green cleaning program and better indoor air quality.
- The durability of porcelain tile alleviates the need for polishing or sealing.
- Unlike materials such as granite and marble, pathways do not occur when using porcelain tile flooring, which reduces the use of chemicals and equipment to buff and polish.
- Tile is easy to clean by using the mildest cleaning products which are pH neutral.
- The only tools needed for cleaning tile are brooms and mops, which contribute to better indoor air quality, and also reduces the purchase of durable goods and the use of fossil fuels.

IV. ECO FACTS ABOUT PORCELAIN TILE PRODUCTION

- 100% of the water is recirculated. The only water lost is due to evaporation.
- 100% of the particulate matter is captured by dust collection systems and is reused.



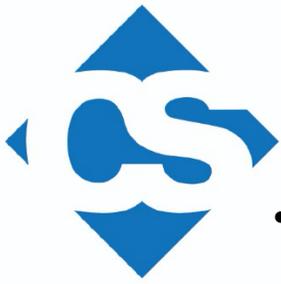
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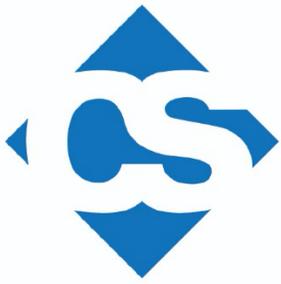
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- The porcelain tile industry as a whole, out of respect for conservation of the environment, has set up rigorous controls to obtain greater efficiency in power consumption and conservation of raw materials. During production, Chamotte, which is a porcelain material made from recycled tile that is wet ground and milled, is utilized. This process reduces the impact on the environment because of reuse of scrap that would otherwise be dumped in a landfill.
- Manufacturers of porcelain tile collaborate with universities and public organizations on research projects that support using raw materials and reducing atmospheric pollution through use of an energy co-generator. Manufacturers are proactive when it comes to energy, water, and raw materials conservation by using their own solar power and by using co-generation, which is the use of a heat engine or a power station to simultaneously generate both electricity and useful heat.
- Most broken tiles are recycled as cement, bricks, or artistic tile mosaics.
- 100% of the materials used for packaging are made from recycled materials.
- On average, our products have over 10% pre-consumer recycled content.
- Our manufacturing facilities work within the International Organization for Standardization's ISO 9000 and ISO 14000 management standards. ISO 9000 addresses quality management while ISO 14000 addresses environmental management.
- Smoke depurators, sand depurators and water purifiers are anti-pollution devices which are utilized for all phases of the manufacturing process
- Porcelain tiles are made with 100% natural minerals and natural coloring elements which are abundantly found.

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V. Possible LEED Points Under LEED v4 and v4.1 Achieved By Using Porcelain Tile

Possible-Contribution to LEED for BD+C: New Construction (NC Points)

Materials & Resources (M&R)

Construction and Demolition Waste Management Planning Prerequisite	
Building Life Cycle Impact	up to 6 points
Building Product Disclosure and Optimization: Environmental Product Disclosure***	up to 2 points
Sourcing of Raw Materials	up to 2 points
Material Ingredients	up to 2 points
Construction and Demolition Waste Management	up to 2 points

Indoor Environmental Quality (IEQ)

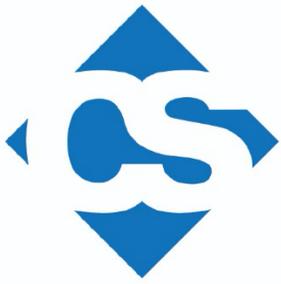
Low Emitting Materials	up to 3 points
Construction Indoor air Quality Management Plan	up to 1 point

LEED for Existing Buildings

Materials & Resources (M&R)

Purchasing-Facility Maintenance and Renovation	up to 2 points
Solid Waste Management- Facility Maintenance and Renovation	up to 2 points

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Indoor Environmental Quality (IEQ)

Green Cleaning Policy Prerequisite

Green Cleaning: Products and Materials up to 1 point

Green Cleaning: Equipment up to 1 point

LEED for ID+C: Commercial Interiors

Materials & Resources (M&R)

Construction and Demolition Waste Management Planning Prerequisite

Interiors Life-Building Life Cycle Impact up to 4 points

Building Product Disclosure and Optimization:
Environmental Product Disclosure up to 2 points
Sourcing of Raw Materials up to 2 points
Material Ingredients up to 2 points

Construction and Demolition Waste Management up to 2 points

Indoor Environmental Quality (IEQ)

Low Emitting Materials up to 3 points

Construction Indoor air Quality Management Plan up to 1 point