CERTIFIED
ENVIRONMENTAL PRODUCT DECLARATION
UL.COM/EPD

EPD **Transparency Summary**

COMPANY NAME	**Industry-Wide**
PRODUCT TYPE	**Porcelain, Pressed Floor, Mosaic, Quarry, Wall**
PRODUCT NAME	Ceramic Tile: Made in North America
PRODUCT DEFINITION	Floor or wall covering which is inert, fire resistant, non-combustible, durable, easy to maintain and made of mineral-based natural materials. Manufacturers include: Arto, Crossville, Dal-Tile, Florida Tile, Florim USA, Interceramic, Ironrock, Porcelanite Lamosa, Quarry Tile Co, Stonepeak, and Vitromex.
PRODUCT CATEGORY RULE (PCR)	NSF PCR for Flooring (Carpet, Resilient, Laminate, Ceramic, and Wood)
CERTIFICATION PERIOD	**October 24, 2014 to October 24, 2019**
DECLARATION NUMBER	**4786483078.101.1**

LIFECYCLE IMPACT CATEGORIES

The environmental impacts listed below were assessed throughout the product's lifecycle – including raw material extraction, transportation, manufacturing, packaging, use, and disposal at end of life.

	ATMOSPHERE			WATER		EARTH	
	Global Warming Potential refers to long-term changes in global weather patterns – including temperature and precipitation – that are caused by increased concentrations of greenhouse gases in the atmosphere.	**Ozone Depletion Potential** is the destruction of the stratospheric ozone layer, which shields the earth from ultraviolet radiation that's harmful to life, caused by human-made air pollution.	**Photochemical Ozone Creation Potential** happens when sunlight reacts with hydrocarbons, nitrogen oxides, and volatile organic compounds, to produce a type of air pollution known as smog.	**Acidification Potential** is the result of human-made emissions and refers to the decrease in pH and increase in acidity of oceans, lakes, rivers, and streams – a phenomenon that pollutes groundwater and harms aquatic life.	**Eutrophication Potential** occurs when excessive nutrients cause increased algae growth in lakes, blocking the underwater penetration of sunlight needed to produce oxygen and resulting in the loss of aquatic life.	**Depletion of Abiotic Resources (Elements)** refers to the reduction of available non-renewable resources, such as metals and gases, that are found on the periodic table of elements, due to human activity.	**Depletion of Abiotic Resources (Fossil Fuels)** refers to the decreasing availability of non-renewable carbon-based compounds, such as oil and coal, due to human activity.
TRACI							
CML	**15.1** kg CO2-Equiv.	**8.11E-010** kg R11-Equiv.	**0.0052** kg Ethene-Equiv.	**0.0565** kg SO2-Equiv.	**0.00604** kg Phosphate-Equiv.	**1.22E-005** kg SB-Equiv.	**219** MJ

FUNCTIONAL UNIT: One square meter of ceramic tile. Life cycle impact results are expressed for 60 years of use.

Environment

MATERIAL CONTENT

Material content measured to 1%.

COMPONENT	MATERIAL	AVAILABILITY	MASS%	ORIGIN
Body	Clay	Mineral perpetual	70.3%	US, Mexico, Europe
	Feldspar	Mineral perpetual	5.3%	US, Mexico, Europe
	Sand	Mineral perpetual	4.8%	US, Mexico, Europe
	Scrap	Pre-consumer Post-consumer	4.2%	US, Mexico, Europe
	Kaolin	Mineral perpetual	3.2%	US, Mexico, Europe
	Granite	Mineral perpetual	1.3%	US, Mexico, Europe
	Lime	Mineral perpetual	1.1%	US, Mexico, Europe
	Other Additives	Mineral perpetual	4.0%	US, Mexico, Europe
Surface	Glaze & Stain	Mineral perpetual	5.4%	US, Mexico, Europe

ADDITIONAL ENVIRONMENTAL INFORMATION

PRE-CONSUMER RECYCLED CONTENT	VARIES %
POST-CONSUMER RECYCLED CONTENT	VARIES %
VOC EMISSIONS	ZERO/INORGANIC
WATER CONSUMPTION	

RECYCLING OR REUSE

Ceramic tile can outlast multiple generations of building occupants and is commonly reused in an existing building or salvaged for use in a new building. Solid and inert, it can also be used in a variety of post-life applications such as clean fill, roadway paving, and raw materials used to manufacture new products. To represent a "worst case" scenario, this EPD reports environmental impacts based on 100% of all tile removal waste being disposed of in a landfill.

ENERGY

RENEWABLE ENERGY	4.42 %	10.4 MJ
NON-RENEWABLE ENERGY	95.58 %	225 MJ

STANDARDS

ANSI A137.1 American National Standard Specifications for Ceramic Tile

ISO 13006 International Organization for Standardization Specifications for Ceramic Tile

ANSI A138.1/Green Squared® American National Standard Specifications for Sustainable Ceramic Tiles, Glass Tiles, and Tile Installation Materials

CERTIFICATIONS

MANUFACTURER CONTACT INFO

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