

To whom it may concern

TECHNICAL CERTIFICATIONS

ENVIRONMENT AND EUROPEAN CERTIFICATIONS

LEED, BREEAM and VERDE are green building certification systems, which assess buildings as opposed to products. When products by **Quintessenza Ceramiche srl** are used in building projects, they can contribute to the achievement of a certain rating for that building by obtaining more points than other alternative products.

With these green certification systems (**LEED, BREEAM and VERDE**) third-party checks are conducted and successful building projects are certified as having been designed and built using strategies conceived to improve on key environmental aspects of their design, such as energy saving, efficient water consumption, a reduction in CO₂ emissions, improvements to the building's indoor environmental quality, the use of recycled materials, the use of local raw materials close to the production plant so as to cut down on transport etc.

Quintessenza Ceramiche srl products are designed to help architects obtain certain points or credits awarded by these green certification systems, thus facilitating the materials specification process.

Quintessenza Ceramiche srl products can be used to obtain **LEED, BREEAM or VERDE** points in different categories of the rating systems, depending on their use:

- Recycled material content.
- Easy to care for, with no need for aggressive chemical substances.
- Water consumption. (e.g. using a tile with an impervious surface on terraces, roofs or facades to collect rainwater, or using a product that is easy to care for since it will require less water for cleaning purposes).



QUINTESSENZA CERAMICHE S.r.l.

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Global **EPD**

A VERIFIED **ENVIRONMENTAL** DECLARATION

EPD CERTIFICATIONS

Quintessenza Ceramiche srl ensures the environmental excellence of its products and services, among which stand out the **environmental product declarations (EPD)** in accordance with the **international standard iso 14025**, which defines the requirements that these environmental declarations must meet, including verification by Eenor granted in 2020.

These **environmental product declarations (epd)** provide a **reliable, relevant, transparent, comparable and verifiable environmental profile** that highlights an environmentally friendly product based on life cycle information (**lca**) in accordance with international standards and data. quantified environmental. The life cycle analysis (**lca**) on which the EPD is **based must be carried out in accordance with product category rules (rcp)** published as a technical standard or by a recognized program. These rcps ensure consistent criteria for a family of products with equivalent functions.

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RECYCLED MATERIALS



Quintessenza Ceramiche srl, in its effort to maintain the environment, uses recycled material and uncoloured cardboard in its packaging, thus saving large amounts of paper.

The productions of Quintessenza Ceramiche srl are committed to optimizing water management, based on the principles of reuse and optimization of water in various processes. In addition, they are committed to the constant application of energy efficiency criteria in their facilities and activities, as well as the use of land with a high percentage of recycled material



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WALL TILES - MATERIAL SAFETY DATA SHEET

Section 1 Product Identification

Manufacturer: Quintessenza Ceramiche S.r.l.
Via Ghiarola nuova, 140
Fiorano Modenese, MO, Italy
Date: May, 18th 2017
Product Name: Wall tiles
Point of Contact: Sales Department
0039 – 0536 - 910131

Chemical Name: None
Chemical Family: Natural inorganic products
Chemical Formula: Not applicable to tiles.
CAS Reg. No.: Not applicable to the tiles.

This document has been prepared in accordance with the Occupational Safety and Health Administration (OSHA) Hazard Communication standard, 29 Code of Federal Regulations (CFR) 1910.1200, and American National Standard for Hazardous Industrial Chemicals, ANSI Z400.1-1993, Material Safety Data Sheets - Preparation.

Section 2 Hazardous Ingredients

Tile products are mixtures of predominately Clays, and other naturally-occurring mineral, that have been mixed with water and fired in a high temperature kiln.
Tiles are manufactured in various shapes, sizes, and colors.
These products do not contain asbestos. Under normal condition these products do not release hazardous materials after installation and are not considered hazardous waste should disposal be necessary.

| Ingredient | Estimated % | PEL | TLV | Comments | Carcinogen |
|---------------------|-------------|---|-----------------------|-------------------------------|------------|
| Manganese | 1.0 | 5 mg/m ³ | 5mg/m ³ | | No |
| Calcium Carbonate | < 1.0 | 15 mg/m ³ 5 mg/m ³ | 10 mg/m ³ | Total Dust Respirable Dust | No |
| Barium | <1.0 | 0.5 mg/m ³ | 0.5 mg/m ³ | | No |
| Crystalline Silica* | 14-18 | 30 mg/m ³ 0.1 mg/m ³ | 0.1 mg/m ³ | Total Dust Respirable Dust | Yes |

* Crystalline Silica is a known carcinogen to the State of California.

Note: Crystalline Silica is inherent in the shale and sand used to produce ceramic tile. Further the glazed ceramic tile surface may contain trace amounts (< 0.1%) of cadmium, zinc, or chromium compounds.

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Section 3 Physical Data

Boiling Point (F): N/A
Solubility in Water: Insoluble
Percent Volatile by Volume: N/A
pH: N/A
Appearance and Odor: Glaze surface varies. Body white to beige color with no distinguishable odor

Vapor Pressure: N/A
Specific Gravity: N/A
Evaporation Rate: N/A
Flashpoint: N/A

Section 4 Fire and Explosion Data

Flashpoint: N/A
Flammability Class: Non combustible
Extinguishing Media: Water

Lower Explosion Limit: N/A
Upper Explosion Limit: N/A

Fire Fighting Procedures: No special procedures are required. As in all fires, fire fighters should wear SCBA and full protective clothing.

Unusual Fire and Explosion Hazards: This product will not burn. Use appropriate techniques to fight surrounding fire.

Section 5 Health Hazard Information

Routes of Exposure: Inhalation, Ingestion and Absorption

Acute Effects: Manganese and barium are considered to be potentially poisonous to humans, if sufficient quantities are ingested. However, the concentration of these elements in the ceramic tile is well below the reported LD_{Lo} and LD₅₀ concentrations. Some skin irritation may occur from contact with the clay powder resulting from tile cutting operations.

Chronic Effects: Crystalline silica is a known carcinogen and produces a condition known as silicosis in humans.

First Aid Procedures:

- Eyes: Rinse eyes with clean water for at least 15 minutes. If irritation persists seek medical attention.
 - Skin: Wash hands thoroughly with soap and water after handling.
 - Inhalation: If a cough develops the individual should seek medical attention.
 - Ingestion: Seek medical attention if nausea develops
 - Absorption: If irritation or blebs develops under sores or wounds seek medical attention.
- Personal Protective Equipment Requirements
- Skin: Water proof or water resistant gloves should be worn when installing ceramic tile.
 - Eye: Protective glasses should be worn when cutting ceramic tile.
 - Respiratory: A dusk mask should be worn when dry cutting ceramic tile. If work activities will cause a dust cloud than a N95 or N100 rated respirator should be worn.

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Section 6
Reactivity Data

Stability: This is a stable material

Incompatibilities: None known

Decomposition Temperature: Not Established

Hazardous Polymerization: Will not occur

Instability Conditions: None known

Decomposition Products: None known

Section 7
Spill or Leak Procedures

Spill or Leak Procedures: Not applicable

Waste Disposal Methods: Scrap ceramic tile should be disposed of in accordance with applicable state and local regulations. Scrap ceramic tile is not a hazardous waste under U.S. E.P.A. regulations.

Section 8
Additional Information

Hazardous Material Identification System

HMIS: Health: 0 Fire: 0 Reactivity:

0National Fire Protection Association

NFPA: Health: 0 Fire: 0 Reactivity: 0


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To whom it may concern,

QUINTESSENZA CERAMICHE srl certifies that all the ceramic products it sells have a zero Volatile Organic Compounds (VOCs) emission during their life cycle.

This is due to the high temperature (+1000°C) that all our products are produced at. At those temperatures, every organic compound present in the raw materials is completely burned during the production, so no organic emission can happen after during its life cycle.

QUINTESSENZA CERAMICHE srl
Ramona Macchi


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To whom it may concern,

asbestos are a type of mineral fiber that is used as a reinforcement in cement (called fiber cement). The handling and cutting of products containing asbestos is related to lung diseases, therefore its use has been prohibited in Italy since 2001.

By their very nature, no glass or ceramic product contains asbestos.

For all these reasons, no product marketed by QUINTESSENZACERAMICHE contains asbestos.

QUINTESSENZA CERAMICHE srl

Ramona Macchi


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