

BASALTINA STONE PROJECT

100% ECO FRIENDLY



INTRODUCTION – MANUFACTURING STANDARD

Basaltina Stone Project has got the prestigious ecological mark **ECOLABEL** (EC Regulation 1980/2000), allowed by the EU only to those products with the lowest environmental impact.

- **ISO 14001: 2004** International Organization for Standardization
- **EMAS** - Eco-Management and Audit Scheme (EC Regulation 761/01)



REFERENCES

The EMAS Environmental Statements of the production sites are available on the corporate website www.ceramichelea.it.

CONTRIBUTE TO LEED CERTIFICATION POINTS

Lea Ceramiche is a member of the **U.S. Green Building Council**, an organisation that promotes buildings that are environmentally responsible, profitable and healthy places to live and work.



Recycled content, MR Credits 4.1 and 4.2 (2 LEED points)

Basaltina Stone Project is produced with **40 % of pre-consumer recycled materials**, as certified by a qualified external company. The certificate issued by Certiquality is available on the website www.ceramichelea.com.

REGIONAL MATERIALS, MR Credit 5.2 (2 LEED points are granted if the use of local raw material is equal to 20% of the total value of the raw materials)

- These credits are applicable for buildings constructed within 500 miles (804,5 km) from LEA CERAMICHE production sites. The Countries within this territorial radius are: Italy, Switzerland, Austria, Belgium, Hungary, Czech Republic, Slovenia, Croatia, Serbia and the major part of France, Germany, Holland, Slovakia and Spain (Catalogne).
- 45% of Basaltina Stone Project raw materials are quarried in the 500 miles radius. Therefore Basaltina Stone Project **contributes for 45% of its value to the LEED Credits of this Section.**

HEAT ISLAND EFFECT (Non Roof), SS Credit 7.1 (1 LEED point)

Basaltina Stone Project* **does not contribute to change the energy balance of the environments where installed.** It doesn't produce any Urban Heat Island Effect, thanks to its very good physical properties – SRI (Solar Reflectance Index) ≥ 29 . This encourages the external use of this product for both open and covered spaces.

OPTIMIZE ENERGY PERFORMANCE, EA Credit 1 (1 to 10 LEED points)

The thermal conductivity λ of Basaltina Stone Project is 0.7 Btu/ft-h-°F (1,3 Watt/m-°K or 1,1Kcal/m-h-°C). For this reason it is **particularly indicated for heating floors systems and ventilated curtain walls.**

VOC CONTENT, EQ Credit 4.2 (1 LEED point)

Basaltina Stone Project **does not emit any VOC (Volatile Organic Compounds).** No traces of VOC have been reckoned from the qualified external laboratories that examined our material.

INNOVATION IN DESIGN, ID Credit 1.1 - 1.4 (1 to 4 LEED points)

Basaltina Stone Project has got the prestigious **ecological mark ECOLABEL** (EC Regulation 1980/2000), allowed by the EU only to those products with the lowest environmental impact. Basaltina Stone Project is manufactured using production cycles that **guarantee excellence in terms of care and protection of the environment.** Our strive for excellence in terms of environmental performance, has led us to certify our production sites with the following recognized international standards: Environmental management systems

- **ISO 14001: 2004** International Organization for Standardization
- **EMAS** - Eco-Management and Audit Scheme (EC Regulation 761/01)

These environmental standards guarantee excellence in terms of:

- **safeguard** of the environment;
- **continuous improvement** of the environmental performances of the manufacturing sites;
- **healthcare** of LEA CERAMICHE's workers and customers.

*for Naturale, Sabbia, Scappellata, Texture

LEA CERAMICHE CARES FOR THE ENVIRONMENT

LEA CERAMICHE incessant strives for excellence has led us to respect the following principles when dealing with the environment.

All the waste that is produced during the productive process is **recycled** internally or externally.



100% INDUSTRIAL WASTE REUSED – NON FIRED TILES

The **totality of the non fired material**, which does not comply with our high quality standards, **is reused in the production cycle.** As these products are not yet fired, they can be reinserted in the initial phases of the production cycle. **Recycling of this waste also reduces the need of raw materials.**



100% INDUSTRIAL WASTE RECYCLED – FIRED TILES

On the other hand the fired material cannot be recycled into the production cycle. For this reason **all fired material is recycled externally and used in the construction industry.** These waste products are used as a foundation in the construction of roads – this reduces the need of the natural resources which are commonly used for this purpose.



100% INDUSTRIAL WASTE RECYCLED – NON CERAMIC WASTE

The totality of the non ceramic waste is differentiated and recycled externally.



100% WASTE WATER RECYCLED – SAFEGUARD OF NATURAL RESOURCES

The production of tiles requires important amounts of water. So as to safeguard this precious resource **LEA CERAMICHE recycles 100% of waste water from the production cycle. This allows the reduction of water consumption by 60%.** None of the water used in the production cycle is discharged into the ecosystem.



LOW GAS EMISSIONS INTO THE ATMOSPHERE

LEA CERAMICHE **complies strictly to Italian Standards (cfr Post-Kyoto Protocol negotiations on greenhouse gas emissions).** The strive for excellence has led us to invest in high quality technology that keeps **our emissions 10 times inferior the allowed limits.**



ENERGY SAVING

Through a complex piping system LEA CERAMICHE manages to conserve the heat emitted during the firing process and reuses it in the preparation of the mix used for the body – this **reduces the need in methane by 25%.**



100% RECYCLABLE MATERIAL USED FOR PACKING

The materials used for the packing of LEA CERAMICHE products are **completely recyclable.** These materials include carton boxes, plastic materials, wooden pallets, etc.



FAO PALLETS

For shipments LEA CERAMICHE uses debarked pallets (DB), **in accordance with the IPPC / FAO ISPM 15 standards.** This is a further warranty for the forest safeguard of countries importing LEA CERAMICHE products.