

LEA CERAMICHE 100% ECO FRIENDLY



100% REUSE OF UNFIRED TILES

crude waste generated by the process is reintegrated in the production cycle with no costs for the environment. This contributes to the safeguard of natural resources.



100% RECYCLING OF THE FIRED TILES (used as inert supports)

all the waste-fired tiles generated by the process are recycled from the building industry as inert supports for road subsoils and foundations, reducing the use of new natural resources.

100% RECYCLING OF NON CERAMIC WASTE

is differentiated and recycled in other production cycles.



100% WATER RECYCLING

the water used in the production process is 100% recycled. The water demand is reduced by about 60% by this mean. No industrial water is discharged in the ecosystem.



LOW EMISSION IN THE ATMOSPHERE

the high quality of the technology used keeps low emissions in the atmosphere.



METHANE CONSUMPTION ARE HIGHLY REDUCED

by the use of up to date technologies and customized installations.



LEA CERAMICHE PACKING MATERIAL IS 100% RECYCLABLE

(carton boxes, plastic packaging materials, wooden pallets, straps, etc..).

LEED CREDITS

● RECYCLED CONTENT, Sections MR Credit 4.1 and MR Credit 4.2 - (2 LEED points)

Emperor is produced with 40% of pre-consumer recycled materials.

● 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 the production site of Lawrenceburg, Kentucky - USA.
- Leed: Regional materials credits.
As a product manufactured with regional raw materials, Emperor will contribute to get these credits on all job-sites located within 500 miles from the production plant (Lawrenceburg, KY U.S.A.)

● HEAT ISLAND EFFECT (Non roof), SS Credit 7.1 - (1 LEED point)

Emperor doesn't 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 Solar Reflectance Index SRI \geq 29.

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

Thermal conductivity λ of Emperor (Porcelain tile) is 0.75 Btu/ft h °F (1.3 Watt/m°K or 1.1 Kcal/m h °C). For this reason it's particularly indicated for heating floors systems and ventilated curtain walls.

● LOW EMITTING MATERIALS, EQ Credit 4.2 - (1 LEED point)

No traces of VOC (Volatile Organic Compounds) are present in Emperor tiles.

These environmental standards guarantee excellence in terms of:

- **safeguard** of the environment
- **continuous** improvement of the environmental performances of Emperor and of the manufacturing sites
- **healthcare** of Lea Ceramiche's workers and customers



Lea Ceramiche

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

