Lea Ceramiche has always considered environmental protection a matter of great importance.

- investing in the best technologies on the market to minimize the environmental impact of its activities.
- giving all employees an excellent working environment.
- obtaining prestigious environmental certifications.

Metropolis is manufactured in a production site that is certified with Environmental Management System:
- EMAS (European Regulation - EC Reg 1221/09).

**Low Gas Emissions into the Atmosphere**

Lea Ceramiche complies strictly with the high quality standards, is reused in the production cycle. As these products are not yet fired, they can be reintroduced in the initial phases of the production cycle. Recycling of this waste also reduces the need for raw materials.

**100% Industrial Waste Recycled - Non Fired Tiles**

The totally 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 reintroduced in the initial phases of the production cycle. Recycling of this waste also reduces the need for 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% 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 (FAO) in accordance with the IPPC / FAO BSM 15 standards. This is a far better warranty for the forest safeguard of countries importing LEA CERAMICHE products.

**100% Recyclable Packaging Materials (Mineral Wastes)**

The recycling of these packages, that are composed of plastic materials, is easy and very profitable.

**100% WATER WASTE RECYCLED - SAFEGUARD OF NATURAL RESOURCES**

The production of tiles requires important amounts of water. In order to safeguard this precious resource LEA CERAMICHE recycles 100% of waste water from the production cycle. This allows the reduction of water consumption by 80%. None of the water used in the production cycle is discharged into the ecosystem.

**CasaClima Building with Respect**

Lea Ceramiche has been recognized as a CasaClima Partner, proving that it satisfies the necessary requirements for this certification. Lea Ceramiche showroom is ideal for designing houses with low energy consumption. CasaClima is an autonomous agency that has for the last 20 years promoted energetic certification for buildings. In this way it promotes a culture of sustainable construction, which means building quality and comfortable housing that respect the environment.

**LEED Credit System**

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

**SS Credit 7.1 - Heat Island Effect / Non roof (NC, CI, CS, SCHOOLS LEED Rating Systems): 1 LEED point is granted for the use of Metropolis**

Metropolis does not contribute to change the energy balance of the environments where it is installed. It doesn't produce any Urban Heat Island Effect, thanks to its very good physical properties, i.e. Solar Reflectance Index SRI ≥ 29.

**EA Credit 1 - Optimize Energy Performance (NC, CI, CS, SCHOOLS LEED Rating Systems)**

Lea Ceramiche has been recognized as a CasaClima Partner, proving that it can satisfy the necessary requirements for this certification. Lea Ceramiche showroom is ideal for designing houses with low energy consumption. CasaClima is an autonomous agency that has for the last 20 years promoted energetic certification for buildings. In this way it promotes a culture of sustainable construction, which means building quality and comfortable housing that respect the environment.

**MR Credit 2 - Construction Waste Management (NC, CI, CS, SCHOOLS LEED Rating Systems): 2 LEED points are granted if at least 50% of the weight of raw materials, tiles and packaging will be recycled.**

Metropolis and its packing material (carton boxes, plastic packaging materials, wooden pallets, straps, etc.) are 100% recyclable. The management of the waste on the building site is also easier because the quantity of waste is very small (weight of packaging is around 2-3% of weight of total material).

**MR Credit 4 - Recycled Content (NC, CI, CS, SCHOOLS LEED Rating Systems): 2 LEED points are granted if the % post-consumer Metropolis is produced with 40% of pre-consumer recycled materials, as certified by a qualified external company. The certificate is available on the website www.ceramichelea.it.**

**MR Credit 5 - Regional Materials (NC, CI, CS, SCHOOLS LEED Rating Systems): 2 LEED points are granted if the use of local raw materials is documented, using the methods indicated in the LEED Credit C1 (materials).**

- These Credits are applicable for buildings constructed within a radius of 500 miles (804.6 km) from Lea Ceramiche production site (Toano RE, Italy).
- The % contribution based on the cost of Metropolis to a single LEED project is calculated based on the geographical position of the construction site.

**MR Credit 5 - Regional Materials (CI Rating Systems Only): 2 LEED points are granted if the use of local raw materials is equal to 20% of the cost.**

- LEED Point: use a minimum of 20% of the combined value of construction and Division 12 (Furniture) materials and products that are manufactured regionally within a radius of 500 miles from Lea Ceramiche production site (Toano RE, Italy).
- LEED Points: meets the previous criterion requirement and use a minimum of 10% of the combined value of construction and Division 12 Furniture materials and products extracted, harvested or recovered, as well as manufactured, within 500 miles of the project.

**IEQ Credit 4.1 - Low Emitting Materials, Adhesives and Sealants (NC, CI, CS, SCHOOLS LEED Rating Systems): 1 LEED point is granted if all adhesives and sealants used on the interior of the building comply w/ SCAQMD Rule 11618 (VOC limit of ceramic adhesives not more than 65 g of less water).**

**IEQ Credit 4.3 - Low Emitting Materials, Flooring Systems (NC, CI, CS, SCHOOLS LEED Rating Systems): 1 LEED point is granted if all flooring complies with the requirements indicated in the LEED Credit C1 (materials).**

Metropolis obtains 1 LEED point because it doesn't contain any Volatile Organic Compounds VOC (see LEED 2009 NC, CI, CS, SCHOOLS Rating Systems).

**IEQ Credit 4.6 - Low Emitting Materials, Ceilings and Wall Systems (SCHOOLS LEED Rating Systems only): 1 LEED point**


**MR 5 – Regional Materials (different method of calculating the distance from the production site and raw materials from the manufacturing site): 2 LEED points can be obtained with USBGC LEED NC 2009 Rating System (please see table). The only differences are regarding credit calculating method.**

- Lea Ceramiche packages 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.

**MR 3 – Sustainable Purchasing, Facility Alterations and Consumer Waste: 2 LEED points**

Metropolis is produced with 40% of pre-consumer recycled materials, as certified by a qualified external company. The certificate is available on the website www.ceramichelea.it.

**MR 3 - Regional Materials: 1 LEED point**

Metropolis is produced with 40% of pre-consumer recycled materials, as certified by a qualified external company. The certificate is available on the website www.ceramichelea.it.