

# CaesarGreen

# RELATE

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CERAMICHE  
◆ CAESAR ◆  
WHERE MATERIAL BECOMES CULTURE



ADDITIONAL PRODUCT AND/OR TECHNICAL INFORMATION REGARDING CAESAR PRODUCTS IS AVAILABLE BY EMAIL THROUGH [INFO@CAESAR.IT](mailto:INFO@CAESAR.IT). PLEASE NOTE: ANY AND ALL PRODUCT SPECIFICATIONS REFERRED TO ARE AVERAGE VALUES. CERAMICHE CAESAR KEEPS THE RIGHT TO CHANGE TECHNICAL AND ESTETICAL PRODUCT SPECIFICATION AT ANY TIME.





## Philosophy

For more than twenty years, Caesar's philosophy of "Where Material Becomes Culture" has become widespread and is undeniably linked to our proud heritage of quality products that are "Made In Italy." Today, thanks to our eco-compatible process, we would like to contribute to the spread of a new "green" style for design and construction that is socially responsible. A style which has eco-sustainability as a starting point and which continues towards the development of discerning consumption, respecting man and the environment.

## Certifications and Environmental Awards



**ISO 14001:** Certificate for Environmental Production Processes (Caesar was the first ceramic tile manufacturer in the world to earn this prestigious certificate in 1998)



**ISO 9001:** Quality Certification of the Production Process (Caesar was one of the first ceramic tile manufacturers to obtain this production process certification)



**OHSAS 18001:** (Occupational Health and Safety Assessment Specification) a standard that has been drafted for the purpose of helping companies define targets and policies for achieving the Health and Safety of Workers.

**LCA** (Life Cycle Assessment): a method that analyses the entire life-cycle of a product, to make sure that nature is respected and protected always, from the moment in which we have an idea to the moment in which the finished ceramic product is manufactured.

**EPD** (Environmental Product Declaration), a document that communicates transparent information about the life-cycle environmental impact of a product, from extraction of raw materials to shipment of finished items.

**PEF** (Product Environmental Footprint) a declaration based on various criteria, which measures the performance of our ceramic product throughout its entire life-cycle.

**FDES** (Fiche de Déclaration Environnementale et Sanitaire): environmental and health-related declaration for the French market, applying to building materials. Its purpose is to measure the environmental impact throughout the entire lifecycle, namely from extraction to use, by means of special sustainability indicators.

**CAM** (minimum environmental criteria): technical requirements and quality levels with a reduced environmental impact, complying with the ISO 14021 standard and established by the Ministry of the Environment. These requirements are essential for being entrusted with projects for building, renovation and maintenance of Italian public buildings.

## Caesar respects the environment

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### \* 100% recycling of industrial water

Thanks to continual investments made during our ceramic tile production, Caesar has been able to purify and recycle water used in our manufacturing processes and reduce the waste of this precious natural resource.

### \* 100% recycling of ceramic waste before the firing production phase of our tiles

Caesar recycles its un-fired ceramic tiles which do not meet our quality standards; this practice significantly reduces the need for raw materials and resources extracted from our planet.

### \* 100% potential recycling of packaging materials

The packaging materials used for our products as well as the majority of our marketing materials can be almost completely recyclable as they are made of paper, cardboard, wood and plastic.

### \* 100% potential recycling of "fired" ceramic tiles

The "fired" production ceramic tile waste which is not re-introduced into our production process is recycled as gravel for pavements during the construction of public roadways and by-passes.

### \* Caesar uses "FAO pallets" for freight shipments where required


Our use of this specific type of pallet reduces the risk of contamination in countries importing our ceramic tile products and is in compliance with ISPM-15 FAO.

### \* Minimum release of polluting substances in the atmosphere

The investments made in the most up-to-date exhaust filtering systems reduce the environmental impact of the productive process to the minimum, thus protecting nature.

### \* Energy saving

Thanks to a modern co-generation system, Caesar self-produces most of the electric energy it needs for its production processes, hence reducing waste and increasing efficiency. Investments in innovative technology have reduced the energy requirements for firing tiles to a minimum.

OBJECTIVES	REQUISITES	CAESAR PRODUCTS	CREDITS
<b>SUSTAINABLE SITES (SS)</b>			
To reduce the influence of the heat island effect on the micro-climate and natural habitats to the absolute minimum.	<b>Heat island effect reduction.</b>	The light-colored tiles of the Caesar range, used in outdoor areas, help reduce the heat island effect (the thermal gradient difference between urban and suburban areas) to minimize the impact on the microclimate. All thanks to the high values of solar reflectance coefficient of Caesar products.	Heat island effect reduction. - Not roofs (exterior paving) <b>1</b> - Roofs (with the exception of Healthcare that gives 1 point) <b>2</b>
<b>MATERIALS AND RESOURCES (MR)</b>			
Commit to using products and materials with low environmental, economic and social impact and for which information is available on the entire life cycle.	<b>CERTIFIED EPD AVAILABLE.</b>		Trasparenza ed ottimizzazione dei prodotti per l'edificio - EPD - Dichiarazione ambientale di prodotto.
	<b>Option 1.</b> EPD can be thought of as a virtual identity card for products and describes their impact on the environment during all stages of the life cycle: from extraction of raw materials to their disposal.	Caesar has an EPD certified by an independent external body (EPD ITALY).	<b>1</b>
	<b>Option 2.</b> Multi-attribute optimization. Use products that comply with one of the criteria below for 50 %, by cost of the total value of permanently installed products in the project, valued as below: global warming potential - depletion of the stratospheric ozone layer - acidification of land and water sources - eutrophication - formation of tropospheric ozone - depletion of non-renewable energy resources.	This credit is applicable for all Caesar products. Evaluation: the company's EPD proves the reduction, for at least 3 indicators, of the environmental impact below the average established by EPD "Confindustria Ceramica" EPD – COI-20160202-ICG1-EN of 26/09/2016	<b>1</b>
	<b>RAW MATERIAL SOURCE AND EXTRACTION REPORTING.</b>		Building product disclosure and optimization Source of raw materials
	<b>Option 1.</b> Transparency throughout the extraction phase of raw materials.	For all raw materials used for the production of its tiles, Caesar can provide information (certified by the DNV certification body) relating to origin, extraction and commitment to reduction of environmental impact.	<b>1</b>
	<b>Option 2.</b> Leadership extraction practices. Use products that meet at least one of the responsible extraction criteria below for at least 25%, by cost, of the total value of permanently installed building products in the project. Recycled content: is the sum of postconsumer recycled content plus one-half the preconsumer recycled content, based on cost.	This credit is applicable for Caesar products listed in the appendix 1 of DNV Certificate available in the company or on the website <a href="http://www.caesar.it">www.caesar.it</a>	<b>1</b>
Verification on to minimization of the use and generation of harmful substances.	<b>MATERIAL INGREDIENT REPORTING.</b>		Building product disclosure and optimization Material ingredients.
	<b>Option 1.</b> Use permanently installed products which have a published, complete Health Product Declaration with full disclosure of known hazards in compliance with the Health Product Declaration Open Standard.	Ceramiche Caesar has a Health Product Declaration (HPD); the statements contained in this declaration are supported by evidences.	<b>1</b>
	<b>Option 2.</b> Optimization. International Alternative Compliance Path - REACH Optimization. End use products and materials that do not contain substances that meet REACH criteria for substances of very high concern.	Caesar does not use substances belonging to the Reach or Candidate list for the manufacturing of its products.	<b>1</b>
	<b>Content of recycled material.</b> 	These products contain more than 20% (Blaze, Crag, Land, Moss, Trail, Veil, Wind) pre-consumer recycled material content and has the goal of reducing its impact on the environment by minimizing the extraction and manufacturing of raw materials.	<b>max 1</b>
<b>INDOOR ENVIRONMENTAL QUALITY (IEQ)</b>			
To reduce the concentrations of chemical contaminants that can damage air quality, human health, productivity, and the environment.	It covers volatile organic compound (VOC) emissions into indoor air and the VOC content of materials, as well as the testing methods by which indoor emissions are determined. Different materials must meet different requirements to be considered compliant for this credit.	Caesar products do not release any volatile organic substances (VOC) into the environment.	Low - emitting materials <b>1-3</b>