

Contribution to LEED® regulation credits

In full compliance with its eco-aware industrial policy, Marazzi Group with sole shareholder has taken a new opportunity for eco-sustainable development offered by the LEED certification (Leadership in Energy and Environmental Design).

With their high environmental performance, Marazzi Group tiles allow designers to achieve the scores buildings require to obtain LEED certification.

In particular, Marazzi Group products achieve credits in the following areas:

- ✓ Materials and resources (MR)
- ✓ Sustainable site (SS)
- ✓ Indoor Environmental Quality (EQ)



Marazzi Group S.r.l is a member of the Green Building Council Italia, an association that promotes sustainable, energy efficient and environmentally friendly building, helping to improve people's quality of life with the LEED® standards and certification.

Credit MR

Sourcing of Raw Materials RECYCLED MATERIAL CONTENT

(up to 1 LEED point)

Marazzi Group uses partly recycled materials in the production of several porcelain stoneware ranges. The recycled material comes from:

- *purchased raw materials*, which contain a given quantity of recycled material
- *recycled processing materials* (raw terracotta, water and processing sludge) from external companies

At your request we could declare the content of post-industrial (pre-consumer) recycled material for specific collections.

% pre-consumer	% post-consumer	Prodotto
5%	0%	Size 75x75 – 60x60 – 30x60 All colors
12%	0%	Size 60x120 All colors
40%	0%	Size 30x90 – 60x60 C2 All colors
20%	0%	Size 60x60_20 mm All colors

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Credit MR	Material Ingredients	(up to 2 LEED points)
	MATERIAL INGREDIENT REPORTING	

Marazzi Group has published the material ingredient report for slabs and tiles to assure a transparent communication upon the possible hazards of the substances used. The reports are available at site:

- **Health Product Declaration (HPD)** "Ceramic tiles and stoneware slabs brand Marazzi, brand Ragno by Marazzi Group" <https://hpdrepository.hpd-collaborative.org/>
- **Declare label** designated as Red List Free "Ceramic tiles and stoneware slabs: Marazzi brand, Ragno brand" <https://declare.living-future.org/>

Credit MR	Material Ingredients	(up to 2 LEED points)
	MATERIAL INGREDIENT OPTIMIZATION	

Marazzi Group tiles don't contain ingredients identified in the REACH Regulation as substances of Very High Concern listed on the REACH Authorization or Candidate List.

Credit MR	Sourcing of Raw Materials	(doubling of the product % value)
	REGIONAL MATERIALS	

Marazzi Group tiles are made with recycled processing materials and raw materials from companies and quarries located partly within a radius of 100 miles (160 km) from the production plants. At your request, we will calculate the specific percentage of regional materials depending on the distance between your project site and Marazzi Group plant.

Credit MR	Building Product Disclosure and Optimization	(up to 2 LEED points)
	ENVIRONMENTAL PRODUCT DECLARATION	

Marazzi Group has evaluated the lifecycle impacts of its products from cradle to grave and published the **Environmental product declaration (EPD)** for each manufacturing plant, available at site: <https://www.epditaly.it/en/view-view-epd/>



Credit MR	Sourcing of Raw Materials	(up to 1 LEED point)
	RAW MATERIAL SOURCE AND EXTRACTION REPORTING	

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Raw materials used in Marazzi Group tiles manufacturing are harvested in quarries with an ecologically responsible management. Marazzi Group requires to its suppliers a report with:

- the map indicating the location of the quarry
- the authorization for the extraction activity
- the environmental recovery plan and/or environmental impact assessment report
- the declaration of conformity to Council Directive 92/43/EEC (habitats) and Council Directive 79/409/EEC (birds) or for areas outside the EU Community the compliance with the UN conservation on biological diversity (1992)

Credit MR	CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT	(up to 2 LEED points)
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Tiles been left after the installation and their scraps produced by cutting are inert wastes, not environmentally hazardous and so **disposed for recovery**. They have to be recovered with the European Waste Code 170103 (unlaid tiles) or 170107 (aggregated with other building material from demolition) to be reused as substrate material for roadways, clean fill material in land reclamations, recycled material in bricks manufacturing.

The packaging materials have to be recovered with the code 150101 (boxes - paper and cardboard), 150103 (pallets - wood), 150102 (hoods and straps - plastic).

Credit SS	HEAT ISLAND REDUCTION	(up to 2 LEED points)
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To assess the contribution of ceramic tiles to buildings with less impact on the microclimate and the habitat, Marazzi Group carries out tests to define the solar reflectance index (SRI) of its roofing products and the solar reflectance value (SR) for its external flooring products. At your request, we will test and calculate the specific SRI of products of your interest.

Credit EQ	LOW-EMITTING MATERIALS	(up to 3 LEED points)
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The use of ceramic tiles in internal areas of buildings helps reduce the presence of air contaminants which compromise the comfort and wellbeing of installation staff, occupants and the environment. Marazzi Group ceramic tiles **do not give off VOC** (volatile organic

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substances) as they are mineral-based finish flooring products without integral organic-based coatings and sealants. As set by LEED, they qualify for credit without any testing requirements.

Marazzi Group tiles have been tested for compliance with **GREENGUARD** and **GREENGUARD GOLD** certification program. The list of products certified is available at site: <https://spot.ul.com>

