



# pietraeco

MANUFACTURED STONE, FAITHFUL TO NATURE

**PIETRAECO** is the **manufactured stone** made by RASTONE Srl using the **best raw materials available on the market**, consisting of Portland cement, pit inert, pumice and high quality mineral oxides. Thanks to a **technologically advanced manufacturing process**, PIETRAECO manufactured stone displays a wide variety of shapes, dimensions and finishes. Dyeing is done by hand to ensure inhomogeneous shades and nuances, thereby perfecting the aesthetics to such an extent that the stone is neither visibly nor noticeably distinguishable from its underlying natural stone.

## KEY FEATURES

- 33 different models;
- 6 base colours + a series of special colours;
- a total offer of over 150 solutions;
- PIETRAECO consists of individual stones and the relevant corner stones, which are made of diverse dies, all derived from natural stone;
- different dimensions between 25 cm<sup>2</sup> and 1100 cm<sup>2</sup>, depending on the model;
- weight between 10 and 50 kg/m<sup>2</sup>, depending on the model, so much less than natural stone;
- limited thicknesses, from min. 2 cm to max. 7 cm for stones; from min. 0.7 cm to 3 cm for bricks.

## USE

PIETRAECO is **suitable for indoor and outdoor cladding** on a variety of substrates. Ideal for installation on HEAT INSULATION, it increases living comfort and reduces energy consumption.

## LAYING

PIETRAECO must be **laid in accordance with RASTONE regulations** and in compliance with local construction standards. Failure to follow the instructions in our Technical Guide and the non-use of ECOCOLLA adhesive and ECOSTUCCO mortar relieves RASTONE Srl of any liability and forfeits all warranty.

## WARRANTY

PIETRAECO is **warranted for a period of 30 years from the date of purchase**, provided that the manufacturer's instructions are followed during laying and use. The warranty covers only manufacturing defects and does not guarantee for laid material. Therefore, the cost of removing and replacing defective parts is not taken into account in any way.

PIETRAECO has been **rigorously tested** by recognized laboratories to certify the following characteristics:

**RAW MATERIAL:** CEMENT TSEN 197-1 / ASTM C150

**BINDERS:** TS 706 EN 12620 / ASTM C33

Technical specifications	Stone	Brick	Standard
Compression resistance	66.75 MPa	68.3 MPa	TS EN 12390-3
Frost resistance	No effect (neither bursts nor fissures)	No effect (neither bursts nor fissures)	TS EN 13198
Bending resistance	8.11 MPa	8.36 MPa	TS EN13748-2
Water absorption	6.97 %	7.83 %	TS EN 13369
Compressive strength	4.13 MPa	4.32 MPa	TS EN 12390-6
Apparent density	2030 Kg / m <sup>3</sup>	1880 Kg / m <sup>3</sup>	TS EN 12390-7
Fire resistance	Non-combustible	Non-combustible	
Fire behaviour	No smoke formation	No smoke formation	
Colour fastness	There is no unwanted change in colour even after years	There is no unwanted change in colour even after years	



## RASTONE rebuilds, like nature creates

The collection of RASTONE manufactured stone cladding is born of a simple idea: to capture and **amplify the benefits and assets of the true stone** through careful analysis, excluding the negative aspects and using a complex production process perfected over the years so as to create an innovative material: PIETRAECO.

### LIGHT

The **weight** between 10 and 50 kg/m<sup>2</sup> of PIETRAECO (depending on the model) is **very low** and only one third **compared to natural stone** of the same thickness. Thanks to this feature, the stone is suitable for laying on light structures such as thermal insulation or dry walls, as well as for installation at heights without the need for foundations or reinforced structures.

### REALISTIC

Whatever stone exists in Nature, you are bound to find it in our vast PIETRAECO range. RASTONE manufactured stone faithfully reproduces natural stone in its **many different forms and colours**. With a touch of unique style and, of course, sustainability.

### ECOLOGICAL

Choosing PIETRAECO means limiting the extraction of natural stone, thereby **protecting the environment and the landscape**. Cladding with PIETRAECO also contributes to improving the energy efficiency of a building: laying it on thermal insulation reduces fuel consumption for greater environmental protection.

### THIN

PIETRAECO has a **very small thickness**: depending on the model, it goes with stones from 2 to 7 cm and with bricks from 0.7 to 3 cm. This important feature provides functionality without sacrificing aesthetics **nor wasting space** indoors or outdoors.

### ROBUST

The material that makes up the various PIETRAECO models has been specially designed to **withstand the elements and weather conditions**, and does not change over time, making it ideal for outdoor cladding.

### FUNCTIONAL

**Functionality** and **time savings** are the main features of PIETRAECO. A practical and clear Technical Guide provides instructions for laying as well as information on the technical products so as to obtain a state-of-the-art result.

### EASY TO HANDLE

Thanks to its low weight and packaging in comfortable and sturdy cardboard boxes, PIETRAECO is truly a **revolution in handling** under all aspects: from transporting the material to laying it.

### SIMPLE

The **laying** of PIETRAECO is **extremely easy and immediate**, starting with the first coat of ECOCOLLA glue until cleaning and maintenance after completion of the work.

### STRONG

Thanks to RASTONE experience, PIETRAECO gives the surroundings an unmistakable solidity in terms of both the **resistance** of the materials and the **reliability** and **quality** of the work, despite its low weight and thickness.

### BREATHABLE

The perfect breathability of all PIETRAECO veneers ensures their natural permeability by any formation of condensate, so that the **wall** breathes and **always remains dry**. PIETRAECO also makes an elegant contribution to increasing the efficiency of outdoor thermal insulation systems.

### FROST RESISTANT

PIETRAECO is thoroughly **tested against freezing** and general weather conditions. Thanks to its **technical properties** and insulation, the cladding is **ideal** for **exterior cladding** and efficiently responds to different temperatures and humidity levels.

### ATTRACTIVE

The **elegance** and **fascination** of natural stone and at the same time an important contribution to **sustainability**. PIETRAECO is the ideal solution to perfectly harmonize your exclusive, personal natural environment with the planet's.