

AERO® TILE

The breathable roofing tile



Above sheat ventilation

Energy Efficient Roof

Sustainability

In conformity with the recent Minimum Environmental Criteria (MEC).

)

MORE PERFORMING ARCHITECTURE

A E R O

TILE

The structural peculiarities make the tile more breathable and together with a greater ventilation of the covering mantle, it favors the lowering of the attic temperatures.

AIR PERMEABILITY

The breathability of the tile, if properly used, favors a greater ventilation and a consequent lowering of the temperature of the covering mantle, reducing the phenomenon of heat island.

CO₂ REDUCTION

Increased ventilation, helps reduce the use of air conditioners, promotes energy savings and reduces CO₂ emissions.

Technology and design, a perfect sustainable combination.

AEROTILE® THE BREATHABLE ROOFING TILE



Data sheet

Lenght	487 mm
Width	268 mm
Weight	4,2 kg
Pieces per m ²	12,2
Longitudinal pitch	380 mm (+/- 2 mm)
Transversal pitch	215 mm

Rossa

Londra



The breathable roofing tile is the syntesis of wellness, energy saving and respect for the environment.

Aerotile[®], thanks to its innovative shape, augments the above sheathing ventilation and the energy efficienty of the house.



AERO





Firenze

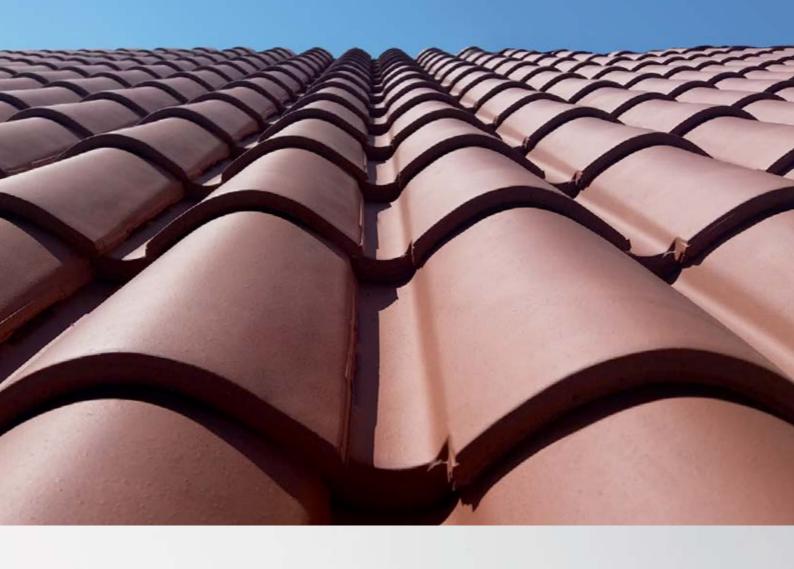
Berlino

Atene сод. нао1



AERO° TILE

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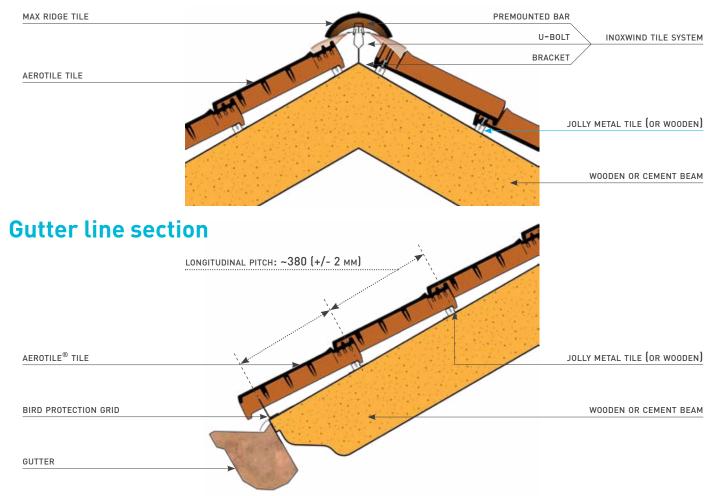


AEROTILE® Horizontal laying

AEROTILE® Vertical laying



Rooftop section



AEROTILE® Special pieces



Max Ridge Tile (2.4 pieces/linear metre) --20GR cod.

Max Ridge Tile Double Head cod. --23GR

End Max Ridge Tile cod. --30GR Front Max Ridge Tile cod. --80GR



Tile



Three-Way Max Ridge Tile cod. --40GR

Four-Way Max Ridge cod. --41GR



AEROTILE[®] Snow Stopper Tile cod. --71



Left Side Tile cod. --73



Right Side Tile cod. --72



AEROTILE[®] Aerial Holder cod. --70



*Not to be employed with hot fumes.

Ø 150 mm

cod. --62



AEROTILE[®] Half-Tile

cod. --78



Minitec Straight Ridge Tile Support 9 pieces/linear metre

cod. --84

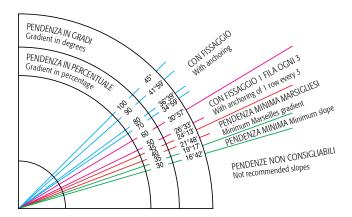


Minitec 45° Double Face Tile Left/Right Ridge Tile Support 6 pieces/linear metre cod. --85DX / --85SX

Specification sheet AEROTILE® Line

Supply of discontinuous roofing systems in clay, fully ventilated and compliant with Minimal Environmental Criteria (MEC). Tiles forming the roof are moulded with spoilers and labyrinth pattern in the rear section, marked side edges. Manufactured in terracotta, length ca. 490mm weight ca. 4,2Kg, ca. 12,2 pieces per sq/m at the end of installation, including related special pieces such as ridge tiles, end tiles, chimney basis, minitec etc. Tiles must be supplied with a regular warranty period, they must meet the requirements of UNI EN 1304 on "Clay roofing tiles and fittings" and, in general, they must comply with the in-force regulations and subsequent amendments. Tile name Aerotile® by Industrie Cotto Possagno S.p.A.

Chart of slopes for clay roofing tiles



Slopes to be used and overlays are indicated in the table above. Concerning the strength of the wind, refer to the Ministry of Public Works circular that divides the national territory into climatic zones (Circular n. 22631 dated 24.05.82).

THE PROJECT RESUITS RESULTS ACHIEVED

The product

The **AEROTILE**[®] rooftile was created thanks to the financial contribution of the European research programme LIFE (LIFE14CCA/ ventilated roofs.

as the best solution enhancing the passive thermal insulation in hot climate areas.

he project

The LIFE HEROTILE project, which saw the participation of international partners from a aimed at improving the energy performance of buildings sited in South European countries, by means of an increased undertile ventilation.

model (named AEROTILE®), ensuring higher performances in comparison to other roofing

Ferrara were carried out with the main scope of maximizing ventilation and air permeability of roof tiles, while at the same

development of the first prototypes of Herotile roof tiles and to the construction of demonstrative roofs (photo on the right/left) to be compared with other roofing systems available in the market, in order to come eventually to the verification of collected data on two real buildings, one in Zaragoza (Spain) and the other in Ca' del Bosco (Italy).

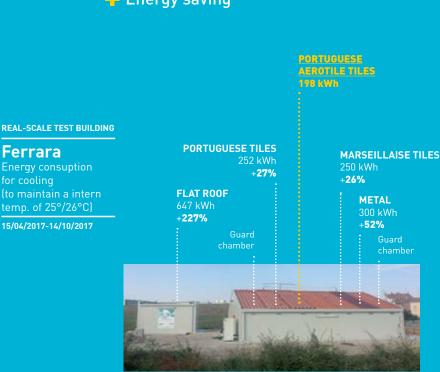
Project results

The initially pre-set objectives were by far exceeded, achieving a reduction of more than 50% of the heat entering the roof and consequently of the energy consumptions the building.

Aerotile[®] +300%**MORE VENTILATED** than a classic portuguese

roofing tile

 Urban heat island Energy saving



~57% reduction of specific

cooling power

Sensapiro

Ferrara

Energy consuption

15/04/2017-14/10/2017

Thanks to the extensive research work and to the collected data, it was possible to develop a freeware software (SENSAPIRO) capable of evaluating the global energy performance ensured by different types of roofing. Sensapiro also allows to calculate the Watt rate entering a building in accordance with the following factors:

- Roof pitch
- Presence or absence of ventilation
- **Building location**
- Attic/crawlspace structure
- Type and thickness of insulation
- Roof azimut

A E R O T I L E

Aerotile® performances



50% reduction of the carbon footprint



50% reduction of inlet watts to be cooled in comparison with a non-ventilated roof



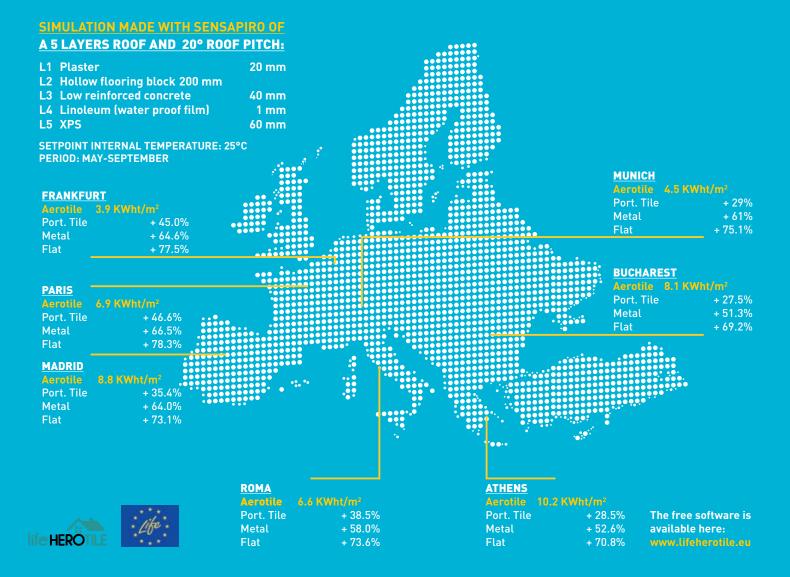
25% reduction of maximum temperature peak of the under-tile airflow



10% reduction of greenhouse gases emissions



5% reduction of atmospheric pollution









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