EUROPOMICE

a natural source of ideas…

What you see depends on how you view the world.
To most people, this is just dirt.
To a farmer, it's potential.

Doe Zantamata

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LAPILLO

Vulsini Volcanite from the Pleistocene period, naturally calcined at high temperature,

PUMICE

ZEOLITE

Zeolite, ZEOLITITE CHABAZITE TYPE
Zeolite total content ca. 58% (Chabasite 45%; Phyllipsite 13%

ENGINEERED SOILS made with VOLCANIC blends

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http://z.about.com/d/geology/1/0/M/W/scoria500.jpg

The physical structure of these rocks makes them very interesting for roots and microbes....

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Lapillo

The internal part of the rock is in fact composed of an enormous quantity of ducts having a very small/medium diameter, intercommunicating between themselves and also externally.

Pumice

alveolar texture of remarkable lightness, high porosity, it provides great **water retention**, **slow release of liquids** and great thermal insulation

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LifeMedGreenRoof Project

Storm water management

LIFE12ENV/MT/000732

LifeMedGreenRoof Project

Project partially financed by the European community,

The LIFE programme is the EU's funding instrument for the environment. co-financing pilot or demonstration projects

In 2015 the EU financed a study for developing Media for Green roofs in Malta. All the 6 soil media that passed the preparatory trials include volcanic rocks such as pumice and lapillo.

Europomice **volcanic rocks have been extensively tested by Universities** and research centers:

University of Milano, University of Padova, University Federico II Napoli, University of Modena e Reggio, University of Di Malta

Landlab, MAC Minoprio

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In the following table and chart the composition of the selected growing media is being reported.

Table 2 Components and percentages of use (volumetric) for the selected growing media

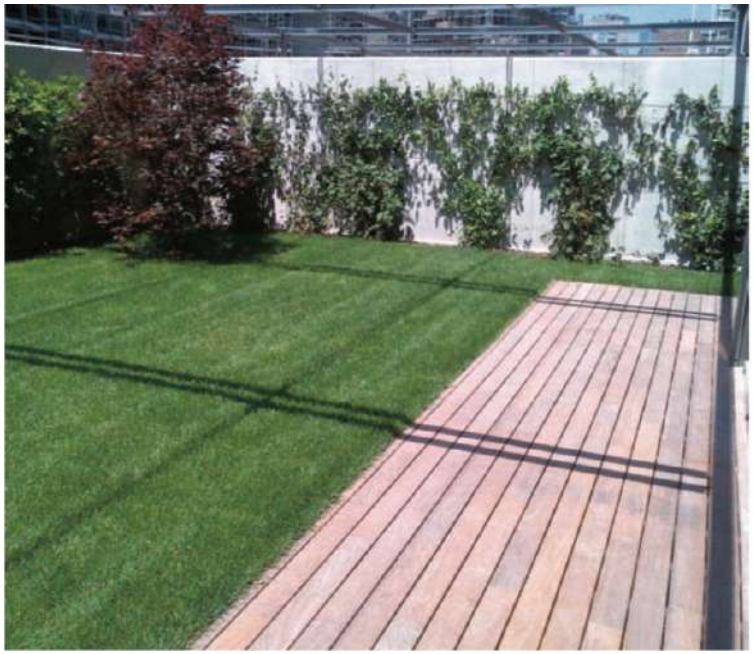
	MAC7*	MAC7/T	MAC7/FC	TA	MT1	MT2
PUMICE				45	35	30
PUMICE	30	30	30			
LAPILLUS					40	35
EX CRASHED CLAY	40	40	40	30		
peat 0-25	15	20		10	15	10
coconut fiber 0-25			20			
green compost	5	10	10	9	10	10
biochar	10			6		15

* There are two different versions of MAC7: MAC7/IT (in use in Italy) and MAC7/MT in use in Malta. The difference between these substrates is the type of biochar used in the mix. In the Italian version biochar is in pellet form, while in the Maltese version chippings are used.

Green roofs realized with **volcanic soils by** EUROPOMICE

- … transformation of the old **Alfa Romeo**'s industrial site - 2013

Owner: Euroambiente Srl per Acacia 2000 S.r.l. - Iper Montebello S.p.A.
Planning: Studio Canali, Milan ITA
Landscape architect: Studio Canali and Land Milano
irector: Arch. Andreas Kipar
landscape contractor : Euroambiente Srl
Green roofs areas total: **150,500 sq.ft**.



Draining: SUPERGARDEN® ed ECODREN SD5
Water storage layer: IGROPERLITE® type T2, variable depth 10-20 cm (4-8") depending on the kind of vegetation

Compensation volume water storage / draining : Perlite type T1 depth 50 cm (20")

Soil media : AgriTERRAM® TVS depth 10 - 20 cm (4-8") depending on the kind of vegetation

Vegetation: lawns, shrubs, ground covers, vines, trees

Irrigation system: drip line for shrubs and trees, and pop up

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Green roofs realized with **volcanic soils by** EUROPOMICE

- … green roofs and parks between the residences of Via Spinola, Milan, Italy created over the underground garages - year 2013.

About 110,000 sq.ft of of intensive green roofs, Perliroof ® System, with lawn, shrubs and trees, landscaped by Euroambiente SpA

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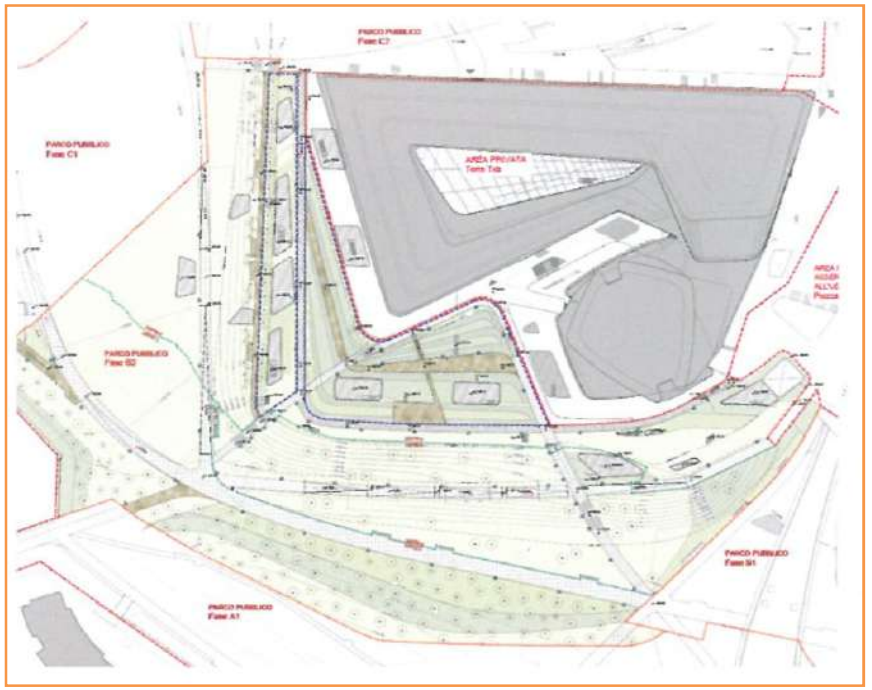
Green roofs realized with **volcanic soils by** EUROPOMICE

- … one of the most recent - 2017

Owner: CityLife SpA
Architect: **Zaha Hadid,** London, UK
Landscape Architect: P'Arcnouveau, Milan ITA
Yard Director: Studio Inpro, Turin, ITA
Landscape Contractor: Euroambiente-Peverelli Srl



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Green roofs realized with **volcanic soils by** EUROPOMICE

The roof gardens at the base of the tower designed by Zaha Hadid

Draining: ECODREN SD5
Water storage layer: IGROPERLITE® of different types and variable depth 10-30 cm (4-8”) depending on the kind of vegetation
Compensation volume water storage / draining : IGROPerlite® of different types and depths
Soil media : AgriTERRAM® TVS depth 10 - 30 cm (4-12”) depending on the kind of vegetation
Vegetation: lawns, shrubs, trees
Irrigation system: drip line for shrubs and trees, and pop up for lawns

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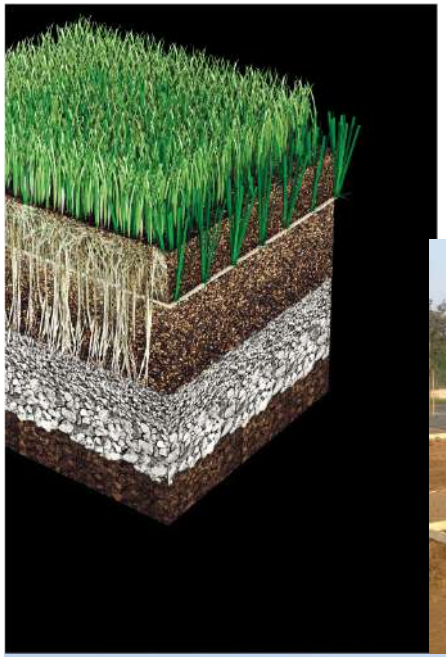
Vertical forest realized with
volcanic soils and lapillus by

EUROPOMICE

Architect **Studio Boeri**
Realized by **Peverelli**

Ornamental lawns realized with **volcanic soils by** EUROPOMICE

Ornamental lawns
realized with Europomice
Vulcagarden



Sport field realized with a substrate including Zeolite by EUROPOMICE

Akhmat Arena, Grozny. RUSSIA

Hanging gardens realized with **a volcanic soil by** EUROPOMICE

Portello Park Milan ITALY

Envi Park Torino ITALY