

VOLCANIC LAPILLUS FOR GARDENING NURSERY

COMPOSITION: ALVEOLAR LAPILLUS WITH OPEN CELLS

Mainly it is a magmatic effusive mineral (Vulsini Volcanite from the Pleistocene period) naturally calcined at high temperature, porous, insulating, light

LAPILLUS

- It is a finished product, soft textured, free form toxic or dangerous substances and weed seeds.
- It contributes to form frequently usable lawn (up to 500 hours/year).



IDEAL FOR:

- Growing substrates for roots
- Drained underground for sports fields (soccer, tennis, etc.)
- Drained stabilization for clay court surfaces
- Mulching
- Preparation of compost
- Cultures outside the ground
- Thermal and acoustic insulation
- Amendment of the ground
- Mineral layer for bio-filtration

MEDIUM CHEMICAL ANALYSIS of representative samples of the front quarry	
SiO ₂	56 %
Al ₂ O ₃	16,5 %
K ₂ O	4,9 %
Fe ₂ O ₃	6,5 %
CaO	8,8 %
Na ₂ O	2,2 %
TiO ₂	0,8 %
MgO	3,1 %
P.F.	1,2 %
pH	7-8

PHYSICAL AND CHEMICAL PROPERTIES:

- Water retention: from 8 to 13 % in volume
- Water availability: from 6 to 9 % in volume
- pH: 7-8
- C.S.C.: approx. 18 meq / 100g
- Active limestone free
- Chemical composition: see provided table
- Non-toxic product (Silica Free)

FUNCTIONAL PROPERTIES:

Material particularly recommended for the realization of drainages, ideal for lawn, in sport organizations, for all building technologies.

- ex DIN standards in all variations
- STRI standards
- USGA drainage purposes
- reinforced drainage purposes
- vertical drainage purposes



AVAILABLE TYPES	GRAIN SIZE	APPARENT DENSITY Material in a wet quarry
SAND	0 - 3 mm	1.050 - 1.150 Kg/m ³
GRANULES	3 - 5 mm	950 - 1.050 Kg/m ³
GRANULES	5 - 10 mm	880 - 980 Kg/m ³
GRANULES	10 - 16 mm	850 - 950 Kg/m ³
GRAVEL	20 - 70 mm	820 - 920 Kg/m ³

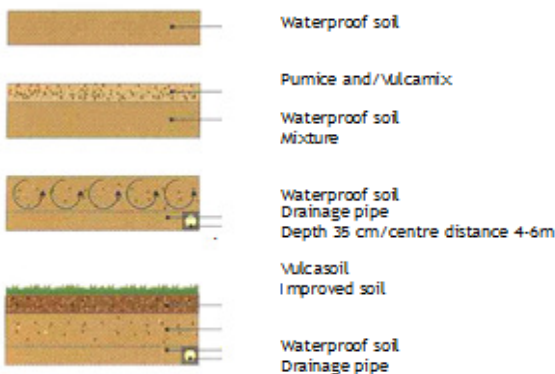
AVAILABLE UNPACKED, IN BAGS (BIG-BAGS) 1,5MC SIZE AND IN 33LT BAGS PACKED ON PALLETS (50 bags on each pallet)

CONSTRUCTION PLANS FOR SPORT FIELDS

Scheme 1

Improvement of physical and chemical properties and the drainage purpose of the ground:

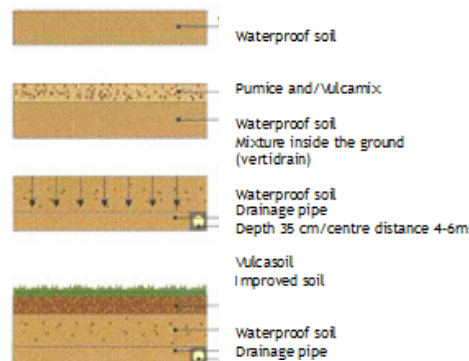
- Filling of 5 cm Pumice Sand or Vulcamix
- Machining with harrows to mix the volcanic sands with the ground
- Top dressing with 5 cm Vulcasoil
- Sowing or mounting of a turf



Scheme 2

Improvement of physical and chemical properties and the drainage purpose of the ground:

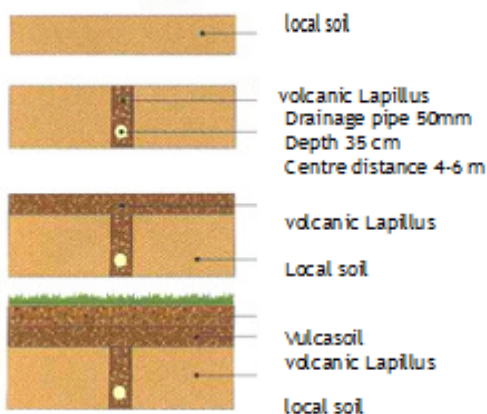
- Filling of 5 cm Pumice Sand or Vulcamix
- Deep coring with a vertidrain machine
- Top dressing with 5 cm Vulcasoil
- Sowing or mounting of a turf



Scheme 3

New construction of sport fields with double drained and rooted layer:

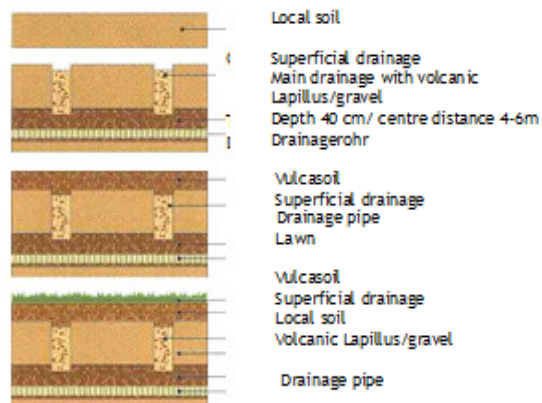
- Formation of the strengthened drainage with the draining pipe filled with gravel of Volcanic Lapillus
- Formation of the drained layer through filling 15 cm of gravel of Volcanic Lapillus all over the surface
- Formation of the fertile layer through filling 15 cm vulcasoil all over the surface
- Sowing or mounting of a turf



Scheme 4

New construction of sport fields with the system of drainage trench:

- Formation of the main cross drainage with the draining pipe filled with gravel of Volcanic Lapillus
- Formation of the superficial longitudinal drainage purpose filled with Volcanic Lapillus or Vulcamix.
- Formation of the fertile layer by filling 10-15 cm vulcasoil all over the surface.
- Sowing or mounting of a turf



This mineral is a natural raw material. All data indicated above are therefore approximate and do not provide any warranty.