FROM DRENOTER® 1.000 TO DRENOTER®-LECA®

The modules draining **DRENOTER® 1.000** have been used for many years in numerous construction sites throughout Italy, as an alternative to gravel aggregates, in the creation of modern drainage systems, safe to install and highly performing.

Given the excellent results obtained, it was decided to expand the applications of these panels to the case of contaminated sites, where the need to drain the water containing hydrocarbons requires a superior chemical resistance compared to standard polystyrene filling.

To adapt the modules DRENOTER * 1000 to such extreme applications, it was necessary to make the following changes:

- Replacement of the drainage core polystyrene with expanded clay LECA®
- Moving the hinge from the head vertical line at the upper horizontal to facilitate filling.

The result is a certified product, easy to assemble on site, and rapid to install:
DRENOTER® LECA®

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Phone +390498979925
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www.idroter.com
info@idroter.com

Sales format:

- Geotextile sack polypropylene
- external gabion welded iron net
- draining core LECA (to buy apart)

THE DRAINING CORE LECA

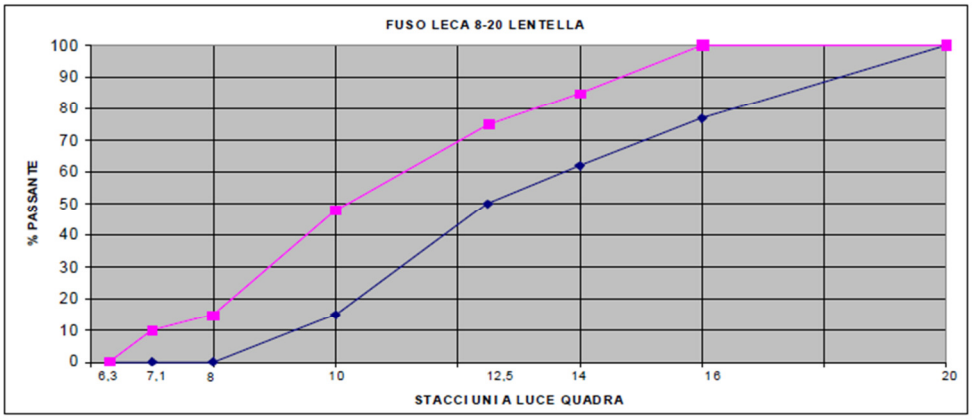
LECA is an expanded clay particle size class 8-20 as shown in Figure.

Properties:

- - Resistance to crushing: $\sigma > 0,7$ N/mm^2
- - Water absorption after 24 hours of immersion: Cimb <20%
- - Form grains: whole-rounded:

Advantages:

- Unalterable and durable (not contain organic materials or their derivatives)
- Resistant to acids, bases and solvents preserving its characteristics.
- Resistant to compression
- Natural and ecological



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DRENOTER® LECA®

Draining module with high performance hydraulic/mechanical

T E C H N I C A L D A T A S H E E T

CAGE EXTERNAL CONTAINMENT

Type: welded square mesh
Height: 1 000 mm
Length: 2 000 mm
Thickness: 300 mm
Mesh: 100 mm x 100 mm
Tensile strength: 46 KN/m
Wire size: 2.85/3.0 mm
Galvanizing wire: according to EN 10244

GEOTEXTILE COATING

Type: continuous filament spunbonded filament nonwoven geotextile
Raw material: polypropylene
Weight: between 125 and 155 g/m^2
Thickness (2 kPa): between 1.0 and 1.2 mm
Water permeability (2 kPa): 100 l/m^2/s with Dh = 50 mm
Effective diameter of pores: 85 to 105 mM
Tensile strength: between 9.5 and 11.5 kN / m
Elongation (long / transverse): 90/75%

BLACK GEOGRID ON THE HEADS

Type: mesh square / rectangular with dimensions such to hold blocks drainage core
Raw material: polyethylene/polypropylene

FASTENING GEOTEXTILE/GEOGRID ON THE HEADS

The geotextile lining is sewn to the geogrid of the heads through the filament multifilament and a monofilament polyethylene polypropylene, so as to prevent the escape of drainage material.

DRAINAGE CORE (BULK SHAPED ELEMENTS OF SYNTHETIC RESIN)

Raw material: LECA (expanded clay) granulometric size 8-20
Resistance to crushing: σ> 0.7 N / mm^2
Water absorption after 24 hours of immersion: Cimb < 20%
Shaped grains: whole-rounded
Permeability: 8.3 * 10^{-3} m / s

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