



FROM DRENTER[®] 1,000 to DRENTER[®] - LECA[®]

DRENTER* 1.000 drainage modules have been used for years on numerous construction sites throughout Italy, as an alternative to gravel aggregates, in the creation of modern, safe to install, and high-performance drainage systems.

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

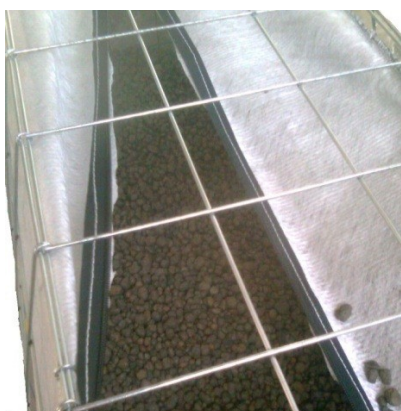


To adapt the DRENTER*1.000 modules to such extreme applications, the following modifications have been made :

- LECA* expanded clay drainage core
- Moving the hinge from the vertical head to the upper horizontal face to facilitate filling on site.

The result is a certified product, easy to assemble on site and quick to install:

DRENTER[®] - LECA[®]





LECA DRAINING CORE

LECA is an expanded clay of granulometric class 8-20 as shown in Fig.1

Property:

- Crushing resistance: $\sigma > 0.7 \text{ N/mm}^2$
- Water absorption after 24 hours of immersion: $\text{Cimb} < 20\%$
- Granule shape: round - whole

Advantages of its use:

Unalterable and resistant over time (does not contain organic materials or their derivatives)

Resistant to acids, bases and solvents while maintaining its characteristics unchanged.

Compression resistant Natural and eco-friendly

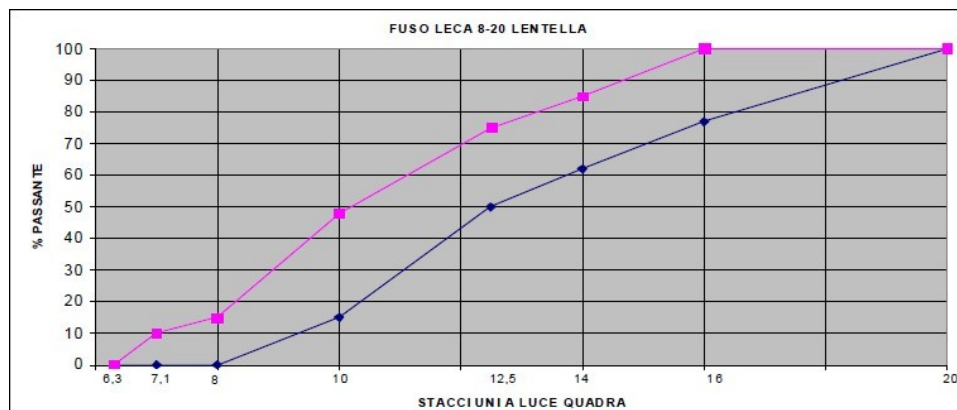


Fig.1

Sales format

- Polypropylene geotextile covering
- containment cage
- LECA draining core (sold separately)



PHASES OF FILLING DRENOTER -LECA

SALES



PALLET PHASE 2: OPENING OF MODULES



PHASE 3: FILLING WITH LECA PHASE 4: READY-TO -USE MODULE



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DRENOTER[®] LECA[®]

Drainage module with high hydraulic/ mechanical performance

TECHNICAL DATA SHEET

CONTAINMENT CAGE

Type: square mesh electrowelded mesh Height:

1,000 mm

Length: 2,000 mm

Thickness: 300 mm

Mesh: 100mm x 100mm Tensile

strength: 46KN/m Wire thickness:

2.85 / 3.0mm

Wire galvanization: in accordance with EN 10244



GEOTEXTILE COVERING

Type: mechanically needled, spunbonded continuous filament geotextile. Raw material: polypropylene.

Weight: between 125 and 155 g/m²

Thickness (at 2kPa): between 1.0 and 1.2 mm

Water permeability (at 2kPa): 100l/m²/sconDh=50mm

Effective pore diameter: between 85 and 105 µm

Tensile strength: between 9.5 and 11.5 kN/m

Elongation (long/transverse): 90 / 75 %

GEOGRID COATING ON THE HEADS

Type: square/rectangular mesh with dimensions such as to retain the drainage core blocks

Raw material: polyethylene/polypropylene

GEOTEXTILE/GEOGRID BINDING ON THE HEADS

The covering geotextile will be sewn to the geogrid of the ends using a multi-filament polyethylene filament and a polypropylene monofilament, in order to prevent the drainage material from leaking out.

DRAINING CORE (LOOSE SHAPED SYNTHETIC RESIN ELEMENTS)

Raw material: LECA (expanded clay) granulometric class 8-20

Crushing resistance $\sigma > 0.7 \text{ N/mm}^2$

Water absorption after 24 hours of immersion: Cimb < 20%

Granule shape: round-whole

Permeability: $8.3 \cdot 10^{-3} \text{ m/s}$