



TECHNICAL DATA SHEET

DRENOTER 1000

Drainage module with very high hydraulic-mechanical performance

EXTERNAL CONTAINMENT CAGE

Type: square mesh electro-welded mesh
Height: 1,000 mm
Length: 2,000 mm
Thickness: 300 mm
Mesh: 100mm x 100mm
Tensile strength: 46 KN/m
Wire thickness: 2.85mm
Wire galvanization: in accordance with EN 10244



GEOTEXTILE COATING

Type: spunbonded continuous filament geotextile
mechanically needled
Raw material: polypropylene
Weight: between 125 and 155 g/ m²
Thickness (at 2kPa): between 1.0 and 1.2 mm
Water permeability (at 2kPa): 100 l/m²/s with D h=50 mm
between 85 and 105 µm
Tensile strength: between 9.5 and 11.5 kN/m
Elongation (long/transv): 90 / 75 %



DRENOTER

PLASTIC GEOGRID COATING ON THE HEADS

Type: UV stabilized HDPE net

Warp: 0.285 mm monofilament, 8 threads

Weft: 0.285 mm monofilament, 5.5 threads

Weight: approx. 96 g/ m²

Effective pore diameter: sufficient to retain every fragment of the draining core and avoid any leakage

GEOTEXTILE/GEOGRID BINDING ON THE HEADS

The covering geotextile will be sewn to the geogrid of the heads using filament multifilament polyethylene and a monofilament polypropylene, in order to prevent leakage of the drainage material.

DRAINING CORE (LOOSE SHAPED SYNTHETIC RESIN ELEMENTS)

Raw material: expanded polystyrene blocks

HYDRAULIC PERFORMANCE OF THE 2 X 1 X 0.3 m BASIC DRAINAGE MODULE

*extrapolated from tests on a module with dimensions 0.3 x 0.5 x 1, carried out with a batten constant hydraulic H=320 mm in 12 m long channel.

i (Dh/L)	Q (m³/s)(l/s)
0.009	0.006 (6)
0.020	0.012 (12)
0.037	0.019 (19)
0.060	0.023 (23)
0.092	0.033 (33)
0.141	0.040 (40)

MECHANICAL PERFORMANCE OF THE 2 X 1 X 0.3 BASE MODULE

Operating load 4.6kN (11.5 kN/m²)

Maximum deformation: 40 mm

