



TECHNICAL DATA SHEET

IDROSAC 500

Drainage module with very high hydraulic-mechanical performance

MODULE DIMENSIONS

Height: 500 mm

Length: 2,000 mm

Width: 300 mm

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 %



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 BASE DRAINAGE MODULE 2 X 0.5 X 0.3 m

*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 (m ³ /s)(l/s)
0.009	0.003 (3)
0.020	0.06 (6)
0.037	0.09 (9)
0.060	0.011 (11)
0.092	0.016 (16)
0.141	0.020 (20)