IDROSAC 500

Drainage module with very high hydraulic / mechanical performances

DATA SHEET

EXTERNAL CONTAINMENT BAG

Height: 500 mm
Length: 2,000 mm
Thickness: 300 mm

COATING GEOTEXTILE
Type: geotextile continuous spunbonded needle punched
Raw material: polypropylene
Weight: between 125 and 155 g / m2
Thickness (at 2 kPa): between 1.0 and 1.2 mm
Water permeability (at 2 kPa): 100 l / m2 / s with □h = 50 mm
Effective diameter of pores: between 85 and 105 □m□
Tensile strength: between 9.5 and 11.5 kN / m
Elongation (long / transv): 90/75%

COATING IN PLASTIC GEOGRID ON THE HEADS
Type: UV stabilized PEAD net
Warp: monofilament 0.285 mm, wires n.8
Texture: monofilament 0.285 mm, threads n.5.5
Weight: about 96 g / m2
Effective diameter of pores: sufficient to retain every fragment of the draining core and avoid any leakage

GEOTEXTILE LIGATURE TO GEOGRIDS ON THE HEADS
The geotextile will be sewn to the geogrid of the heads using multi-strand polyethylene filament and a monofilament
made of polypropylene, in order to prevent the draining material from coming out.

DRAINING CORE (LOOSE SHAPED ELEMENTS OF SYNTHETIC RESIN)
Raw material: expanded polystyrene blocks

HYDRAULIC PERFORMANCES * OF THE DRAINING MODULE (WITHOUT LITOSTATIC LOAD)

Hydraulic gradient (Δh/L)	0.009	0.02	0,037	0,060	0,092	0,141
Q (m^3/s)	3 x 10-3	6 x 10-3	9 x 10-3	13,5 x 10-3	16 x 10-3	20 x 10-3

* extrapolated from tests on a module with dimensions of 0.3 x 0.5 x 1, made with constant hydraulic head H = 320 mm in a 12 m long channel

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