



DRENTER® 1.000 SUPER

Draining module with very high hydraulic-mechanical performances
with impact protection system

DATA SHEET

EXTERNAL CONTAINING CAGE

Type: square mesh electro-welded mesh

Height: 1,000 mm

Length: 2,000 mm

Thickness: 300 mm

Jersey: 100 mm x 100 mm

Tensile strength: 46 kN / m

Thickness of thread: 2.85 mm

Wire zinc-plating: according to EN 10244

ANTI-SHOCK PROTECTION LAYER

Raw material: expanded polyethylene

Width: 300 mm

Length: 2,000 mm

Thickness: 30 mm

Density: 22 kg / m³

Mechanical performances

Applicable load (N / mm²): 0.200 (200 kPa)

Maximum expected deformation (70%)

COATING GEOTEXTILE

Type: geotextile continuous spunbonded needle-punched thread mechanically

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 pore diameter: between 85 and 105 μ m

Tensile strength: between 9.5 and 11.5 kN / m

Elongation (long / transv): 90/75%

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GEOGRIDS 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 e avoid any leakage

SEAM OF GEOGRIDS TO GEOTEXTILE ON THE HEADS

The covering geotextile will be sewn to the geogrid of the heads by filament polypropylene multibanks and a polypropylene monofilament, in order to prevent leakage of draining material.

DRAINING CORE (LOOSE SHAPED ELEMENTS OF SYNTHETIC RESIN)

Raw material: expanded polystyrene blocks

HYDRAULIC PERFORMANCE OF THE DRAINAGE MODULE *

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

i (Dh/L)	Q (m ³ /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)

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