



DRENTER® 1.000 PIPE (DN 160/137)

***Drainage module with very high hydraulic / mechanical performances
with corrugated pipe at the bottom protected by a geotextile bag***

DATA SHEET

EXTERNAL CONTAINING CAGE

Square mesh electro-welded mesh

Height: 1 000 mm

Length: 2 000 mm

Width: 300 mm

Jersey: 100 mm x 100 mm

Breaking load: 650 - 800 N / mm²

Thickness of thread: 2.85 mm

Wire zinc-plating: according to EN 10244-2

COATING GEOTEXTILE

Spunbonded continuous-needle spunbonded geotextile

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 $\Delta h = 50$ 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%

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 and 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



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PIPE AT THE BOTTOM

Double wall corrugated pipe, provided with cracks displaced in rows at 60 ° intervals along the entire circumference

Material: HDPE - high density polyethylene

Manufacturer certification: UNI EN ISO 9001-2008

Environmental certification in compliance with UNI EN ISO 14001: 2004

Outside diameter DE / DI: 160/137 mm

Thickness in the perforation point: 1.5mm

Number of corrugations per linear meter: 66

Number of holes per throat: 6

Number of holes per linear meter: 198

Capture surface: > 110 cmq / ml

Resistance to crushing: 300 N/ml

JUNCTION SLEEVE

Junction fitting on each module to ensure perfect hydraulic seal of the system

Material: polypropylene

Outside diameter: 160 mm



HYDRAULIC PERFORMANCES OF DRAINING CORE (WITHOUT SURCHARGE)

Hydraulic performances ($\Delta h/L$)	0.009	0.02	0,037	0,060	0,092	0,141
Q (m ³ /s)	6×10^{-3}	12×10^{-3}	19×10^{-3}	23×10^{-3}	33×10^{-3}	40×10^{-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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