



DRENTER[®] 500

Draining panel with high hydraulic/mechanical performances

DATA SHEET

EXTERNAL IRON GABION

Type: square welded mesh
 Height : 500 mm
 Length: 2.000 mm
 Width: 300 mm
 Mesh: 100 mm x 100 mm
 Tear resistance: 46 KN/m
 Wire thickness: 2,85 / 3,0 mm
 Zinc coating : according to EN 10244

GEOTEXTILE FILTER

Type: nonwoven continuous filament spunbonded
 Raw material: polypropylene
 Weight : between 125 and 155 g/m²
 Thickness (2 kPa): between 1.0 and 1.2 mm
 Water permeability (2 kPa): 100 l/m²/s with $\Delta h = 50$ mm
 Pore size: between 85 and 105 μm
 Tear resistance: between 9.5 and 11.5 kN/m
 Elongation : 90 / 75 %



PLASTIC GEOGRID ON THE VERTICAL HEAD

Type: HD PE net UV stabilized
 Warp: wire 0,285 mm, n.8 wires
 Weft: wire 0,285 mm, n.5,5 wires
 Weight : about 96 g/m²
 Pore size: sufficient to retain plastic core

SEAM OF GEOTEXTILE TO GEOGRID

Geotextile will be sewn to geogrid through multifilament hd pe yarn and a polypropylene wire, in order to avoid the loss of the plastic core.

DRAINING CORE (PLASTIC SELECTED CHIPS)

Raw material: polystyrene chips

HYDRAULIC PERFORMANCES* OF THE DRAINING PANEL (NO VERTICAL LOAD)

Hydraulic gradient ($\Delta h/L$)	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 carried out on a module dimensions 0,3 m x 0,5 m x 1 m, with an hydraulic charge of H=320 mm in a channel 12 m long

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