DRENOTER SRLS

DRENOTER® CHANNEL 1.000

Patented draining module
highly performing
with a free void channel at the base to increase water flow

DATA SHEET

EXTERNAL IRON GABION
Type: electro-welded mesh
Height : 1.000 mm
Length: 2.000 mm
Width: 300 mm
Mesh: 100 mm x 100 mm
Wire thickness: 2,85 mm
Zinc coating: conforming to EN 10244

FREE VOID CHANNEL AT THE BASE
Type: electro-welded mesh
Height : 100 mm
Length: 2.000 mm
Width: 300 mm
Mesh: 100 mm x 100 mm
Wire thickness: 2,85 mm
Zinc coating: conforming to EN 10244

GEOTEXTILE FILTER
Type:geotextile filo continouos filament
Raw material: polypropilene
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 Δh=50 mm
Pore size: 85 -105 µm
Tear strength 9.5 - 11.5 kN/m
Elongation at break (long/trasv): 90 / 75 %

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BLACK SHADOW GEOGRID ON VERTICAL FACES

Tipe: shadow HD PE net UV resistent
Warp:single wire 0,285 mm, wires n.8
Weft:single wire 0,285 mm, wires n.5,5
Weight : approx 96 g/m_2
Pore size: enough small to keep every piece of the draining core

LINKING OF GEOTEXTILE TO GEOGRID

Geotextile will be sewn to geogrid with a monofilament HD PE wire and a polypropilene wire, to avoid escape of the draining core.

DRAINING CORE (POLYSTIRENE CHIPS)

Raw material: small chips of polystirene

Water Pollution laboratory tests

Global migration :mg/dmq D.M. 21/03/1973 e s.m.i. **< 0,1**

Stirene ug/L EPA 5030C 2003 + EPA 8260D 2017 **< 0,01**

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DETAIL OF THE CHANNEL AT THE BOTTOM OF THE PANEL TO INCREASE FLOW RATE OF WATER

Tipologia:rete elettrosaldata a maglia quadrata
Altezza : 100 mm
Lunghezza: 2.000 mm
Spessore: 300 mm
Maglia: 100 mm x 100 mm
Spessore filo: 2,85 mm
Zincatura del filo : in conformità a EN 10244

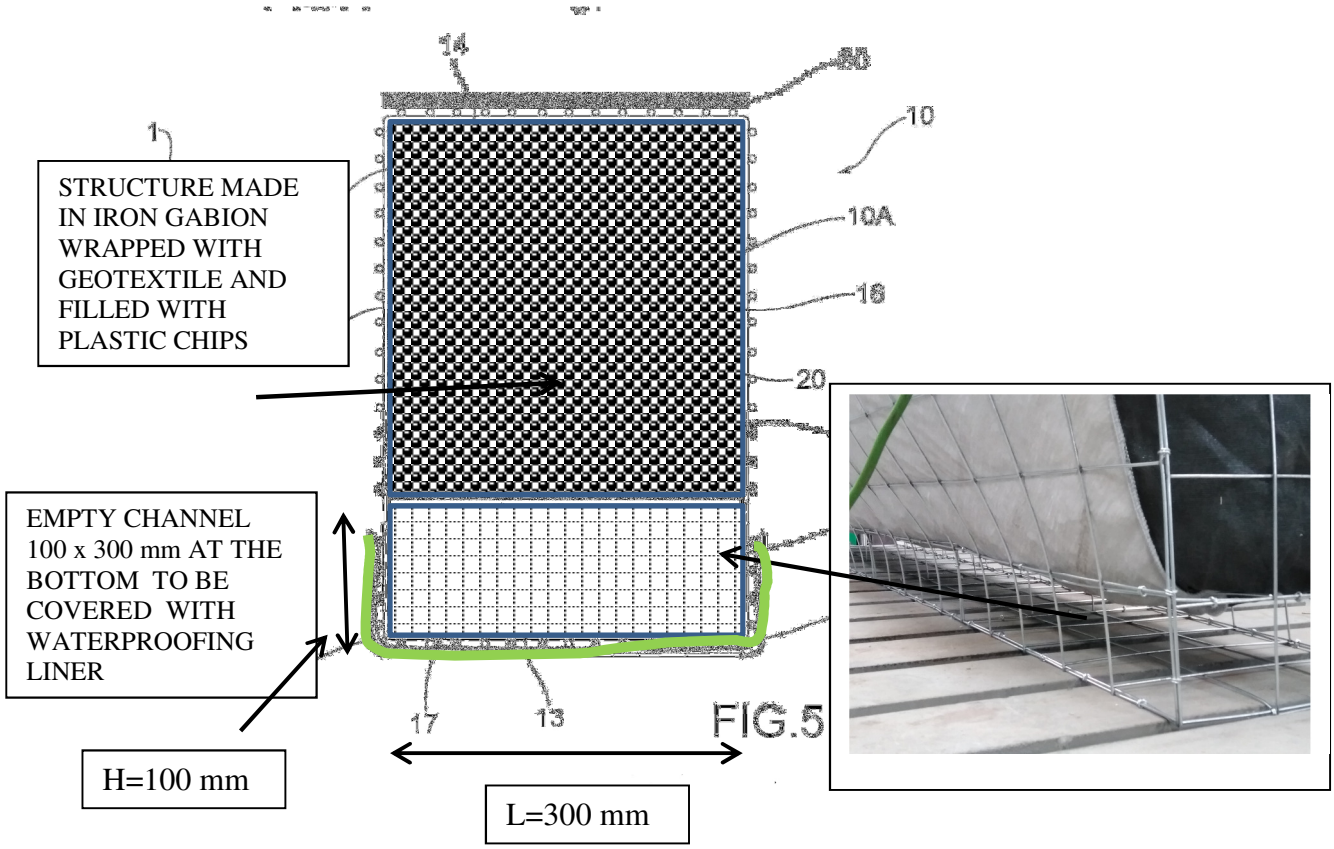

FIG.5

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Hydraulic performances*

*of the upper panel with costant hydraulic charge H=320 mm

i (Dh/L)	Q (m3/s)(l/s)
0,009	0,005 (5)
0,020	0,010 (10)
0,037	0,017 (17)
0,060	0,020 (20)
0,092	0,029 (29)
0,141	0,035 (35)

HYDRAULIC PERFORMANCES OF THE CHANNEL AT THE BOTTOM (SECTION H=100 mm x L=300 mm)**

i (Dh/L)	Q (m3/s)(l/s)
0,009	0,0349 (34,9)
0,020	0,0520 (52,0)
0,037	0,0708 (70,8)
0,060	0,0901 (90,1)
0,092	0,112 (112)
0,141	0,138 (138)

HYDRAULIC PERFORMANCES OF THE CHANNEL AT THE BOTTOM (SECTION H=200 mm x L=300 mm)**

i (Dh/L)	Q (m3/s)(l/s)
0,009	0,0885 (88,5)
0,020	0,132 (132,0)
0,037	0,179 (179)
0,060	0,229 (229)
0,092	0,283 (283)
0,141	0,350 (350)

****CALCULATED ACCORDING TO GAUCKLER-STRICKLER**

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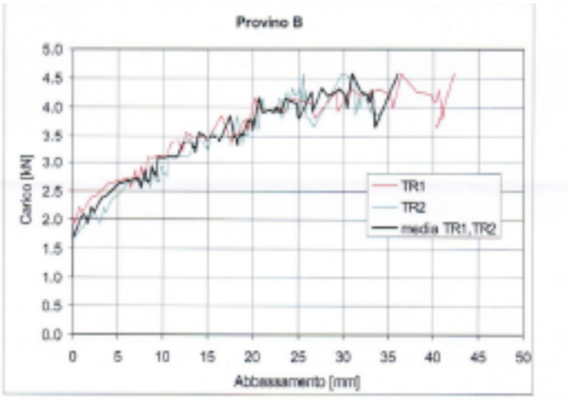
LABORATORY TESTS UNDER LOAD

Max force : 5,6 kN
Limit pressure: 5,6/0,6=9,3 kN/m^2
Max deformation under load: 60 mm



DRENOTER® CHANNEL is a patented system covered by indian patent.

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