

IDROTER di Martinelli Francesco
Via Tevere 3-35030 Rubano (PD)-ITALY- phone 049/8979925 fax 049/5224306
DRENOTER is a trademark of IDROTER di Martinelli Francesco
products are covered by international patent
Copyright 2009 IDROTER di Martinelli
All rights reserved

IDROSAC 500

The simple, lightweight and economical system to implement drainage in shallow trenches without using gravel or inert

Applications: drainage in football fields, golf courses, gardens, roof gardens



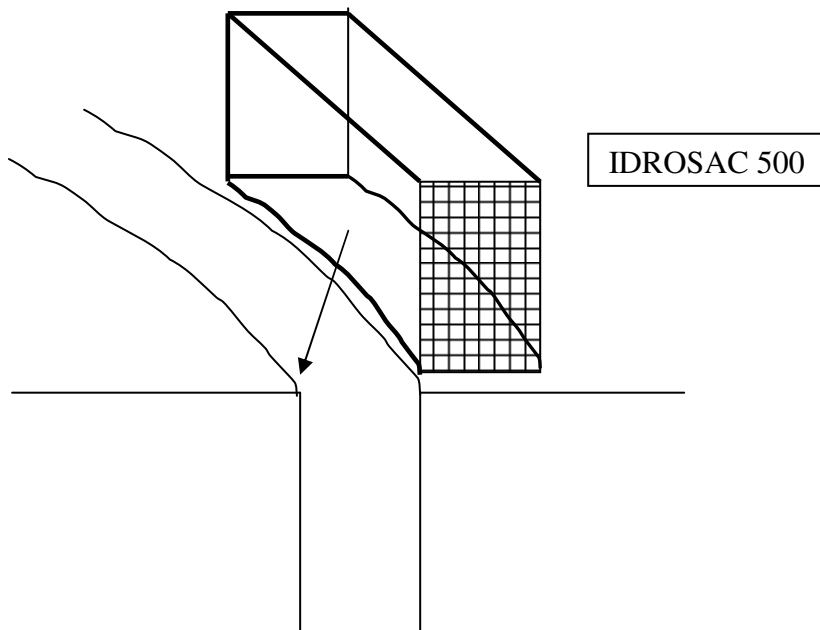
Operation: polystyrene chips contained within IDROSAC give the produced a good resistance to crushing and a large amount of voids that can capture water in the soil and channel it rapidly within the geocomposite into the drains. The bags of the product consists of a layer of geotextile fabric with function of filter ground-water placed on a sturdy polyethylene square mesh grid in order to allow radial inflow of water from one product to another.

Package size: flexible nonwoven bags shavings saturated with polystyrene
(**Thickness D** = 300 mm), **Length** = 2,000 mm **Height** = 500 mm
L = 2.000 mm

LAYING HINTS



1) You run the excavation of the width and depth desired (maximum 0.7-1.0 m) then install IDROSAC 500



IDROTER di Martinelli Francesco
Via Tevere 3-35030 Rubano (PD)-ITALY- phone 049/8979925 fax 049/5224306
DRENTER is a trademark of IDROTER di Martinelli Francesco
products are covered by international patent
Copyright 2009 IDROTER di Martinelli
All rights reserved

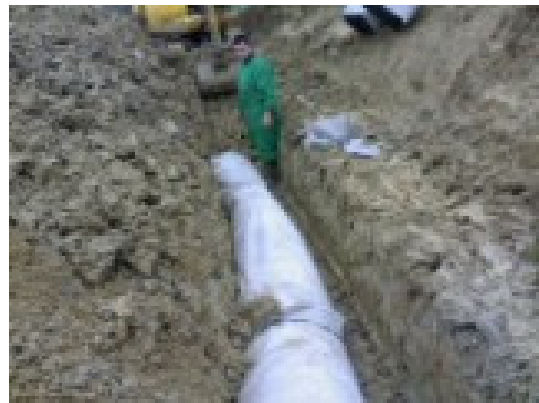
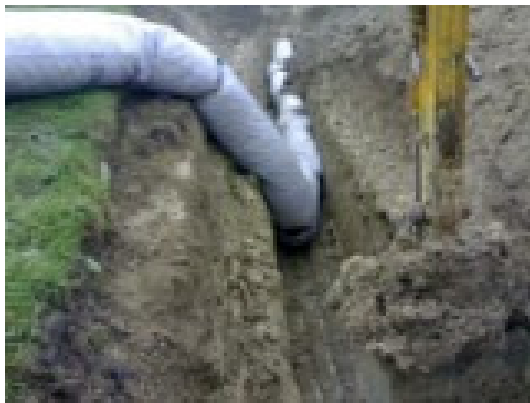
you are joining the modules together, out of the excavation, combining with the iron wire the black heads one each other to give continuity to the hydraulic system



Among the other is a module has to place a band of geotextile, supplied, that prevents the intrusion of the land between the products, once linked

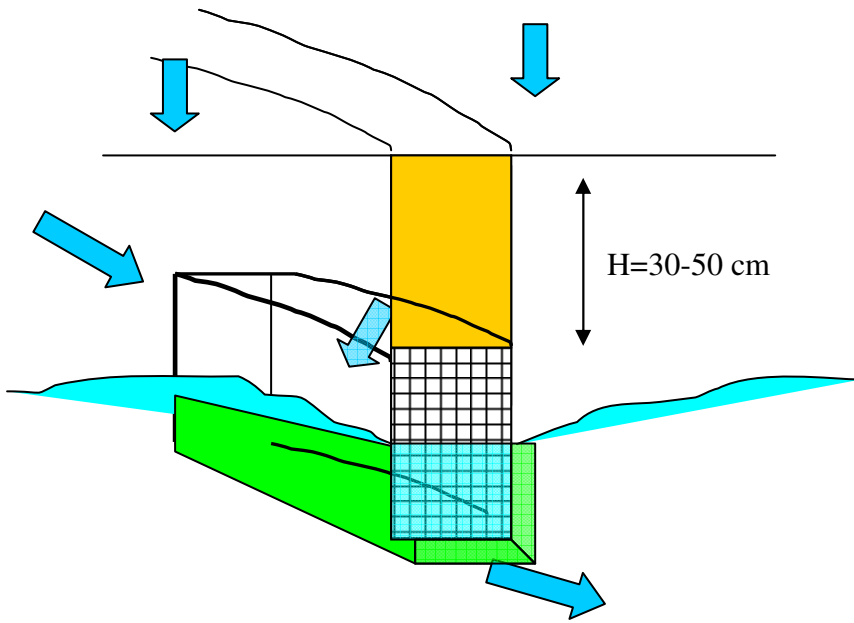


you get a long tubular, lightweight and convenient to lay the excavation

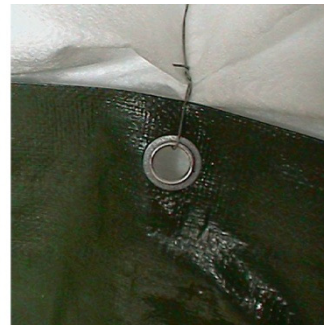


Once placed all products is done by the backfilling with soil excavation, which will cover the product with a layer of soil of about 30 -50 cm

POSSIBLE FIXING SLEEVE TRENCH FUND



Application metal rod



eyelet detail on jacket



View of all forms IDROSAC 500 with sheath applied through the bottom tie

IDROTER di Martinelli Francesco
Via Tevere 3-35030 Rubano (PD)-ITALY- phone 049/8979925 fax 049/5224306
DRENTER is a trademark of IDROTER di Martinelli Francesco
products are covered by international patent
Copyright 2009 IDROTER di Martinelli
All rights reserved

IDROSAC 500

Geosynthetic flexible high index of voids in the trenches for drainage
Applications: drainage in football fields, golf courses, gardens, roof gardens

DATA SHEET

Width: 500 mm

Length: 2,000 mm

Depth tested: 300 mm

Weight: 3.0 kg

GEOTEXTILE FOR COATING

Type: continuous filament spunbonded needle-punched geotextile 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/s/m² with $\Delta h = 50$ mm

Effective diameter of pores: between 100 and 105 μ m

Tensile Strength: from 9.5 and 11.5 kN / m

Elongation (long / transverse): 90 / 75%

COVERING THE HEADS Geogrids

BLACK COVER IN GEOGRID OF HEADS

mesh square / rectangular with dimensions able
to retain the draining plastic core

Raw material: polyethylene / polypropylene

LINKING GEOTEXTILE/GEOGRID ON THE HEADS

The geotextile filter is sewn to the geogrid by multifilament and monofilament polyethylene polypropylene, so as to prevent the leakage of drainage material.

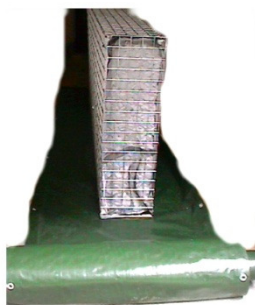
DRAINAGE CORE (BULK SHAPED ELEMENTS OF SYNTHETIC RESIN)

HYDRAULIC PERFORMANCE OF CORE DRAINAGE

Hydraulic gradient ($\Delta h/L$)	0.35	0.75	1.5	3	6.8
Permeability K (m/s)	2.8×10^{-4}	4.2×10^{-4}	5.81×10^{-4}	7.99×10^{-4}	1.10×10^{-3}

These permeability values are obtained through laboratory tests with permeameter cell.

Waterproofing liner in rolls for base of draining panels



DATA SHEET

Caratteristiche minime della guaina :

Geomembrane low density polyethylene (LPDE), reinforced with internal armature fabric of high density polyethylene (HPDE), UV stabilized

Tensile strength (MD)	20 kN/m	DIN 53354
Tensile strength (TD)	20 kN/m	DIN 53354
Resistance to tearing (MD)	150 N	DIN 53356
Resistance to tearing (TD)	150 N	DIN 53356
CBR puncture resistance	2.500 N	EN ISO 12236
Mass per unit area	200 g/m²	UNI 8202/7
Thickness	0,30 mm	UNI 8202/6
Permeability to water vapor	0,94 gr/m² x 24 h	UNI 8202/23
permeability	1,47 x 10⁻¹⁴ m/sec	UNI 8202/23
U.V. resistance	Yes	
Chemical stability	Typical of PE	
Temperature resistance	from - 40° to + 80° C	
Quality assurance	ISO 9002	
Tolerance	5%	