



PRODUCT DESCRIPTION:

Techdrain GTG 512 is a high-density polyethylene (HDPE) TRIPLANAR geonet with two Polypropylene (PP) geotextile heat laminated. The geonet is made with 3 strands, whose geometry create channels with a high flow capacity, also under pressure and at very low gradients. The Techdrain GT has an excellent behavior when it works at higher pressures.

FUNCTION:

DRAINAGE, FILTRATION, SEPARATION and PROTECTON in only one product.

MAIN USES:

Landfill capping, new landfills, water reservoirs, horizontal drainage in embankments and platforms of roads, railways, trams and other trafficked areas, retaining structures, bridges, foundations, basements, canals, cut and cover tunnels, tunnels and other underground structures, gardens and sport fields.

Characteristics	Value	Unit	Standard
Geonet drainage			
Polymer	High-density polyethylene (HDPE)		
Carbon black	1,2 - 2,5	%	ASTM D 1603
Density	> 0,94	g / cm ³	ASTM D1505
Thickness at 2 kPa / 200 kPa	5,4 / 5,1	mm	ISO 9863-1
Geotextile filtration			
Polymer	Polipropileno (PP)		
Mass per unit area	120	g / m ²	ISO 9864
Cone drop	30	mm	ISO 13433
CBR	1,4	kN	ISO 12236
Waterflow normal to the plane	90	l / m ² s	ISO 11058
Opening size	< 170	µm	ISO 12956
Drainage geocomposite			
Mass per unit area	1.040	g / m ²	ISO 9864
Thickness at 2 kPa / 200 kPa	6,0 / 5,5	mm	ISO 9863-1
Peak tensile strength (RT _{MAX}), MD / CD	20 / 17	kN/m	ISO 10319
Elongation at break, MD / CD	40 / 50	%	ISO 10319
Flow capacity in their plane, MD		l/m·s	ISO 12958 ⁽¹⁾
i = 1,0	σ = 20 kPa	1,30	
	σ = 100 kPa	1,10	
	σ = 200 kPa	0,95	
	σ = 500 kPa	0,65	

TECHDRAIN standard roll format is 3,7 meters-wide.

has 10 cm overlap at each side; it ease the installation and prevents the soil intrusion.

has to be covered between 14 days after installation.

⁽¹⁾ISO 12958-1999 with 380*300 mm specimens and rigid plates (hard-hard).The tolerance is ±30%.

MD : Machine direction (longitudinal)

CD : Cross machine direction (transversal)

i : Hydraulic gradient

σ: Normal stress

This information are typical values based on our present state of knowledge and is intended to provide general notes on our products and their uses.

