



#### PRODUCT DESCRIPTION:

**CAPDRAIN GCG 55.12** is a high-density polyethylene (HDPE) TRIPLANAR geonet with two Polypropylene (PP) geotextiles 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.

#### FUNCTION:

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

#### MAIN USES:

Landfill capping (rainwater drainage and gas collection).  
Civil Works.  
Gardens and sport fields.

Characteristics	Value	Unit	Standard
<b>Geonet</b>			
Polymer	High-density polyethylene ( HDPE )		
Carbon black	2,0 - 3,0	%	ASTM D 4218
Density	> 0,94	g / cm <sup>3</sup>	ASTM D1505
Thickness at 2 kPa / 200 kPa	5,6	mm	ISO 9863-1
<b>Filter geotextile</b>			
Polymer	Polypropylene ( PP )		
Mass per unit area	120	g / m <sup>2</sup>	ISO 9864
Cone drop	30	mm	ISO 13433
CBR	1,4	kN	ISO 12236
Waterflow normal to the plane	90	l / m <sup>2</sup> s	ISO 11058
Opening size	< 170	µm	ISO 12956
<b>Drainage geocomposite</b>			
Thickness at 2 kPa	6,2	mm	ISO 9863-1
Peak tensile strength (RT <sub>MAX</sub> ), MD	21,5	kN/m	ISO 10319
Elongation at break, MD	35	%	ISO 10319
Flow capacity in their plane, MD		l / m·s <sup>(1)</sup>	ISO 12958 <sup>(2)</sup>
i = 1,0	σ = 20 kPa	1,75	
	σ = 50 kPa	1,65	
	σ = 100 kPa	1,55	
	σ = 200 kPa	1,35	
	σ = 400 kPa	1,05	

#### CAPDRAIN:

- Standard rolls format are **2 or 4 meters wide, 50 meters long**.
- Has 10 cm overlap at one side; which eases installation and prevents soil intrusion.
- Has to be covered within 14 days after installation.

<sup>(1)</sup> l / m·s = 10<sup>-3</sup> m<sup>2</sup> / s

<sup>(2)</sup> Average values according to ISO 12958 using aluminum plates (H/H). Tolerance is ±10%.

MD : Machine direction (longitudinal)

i : Hydraulic gradient

σ : Normal stress

