



**PRODUCT DESCRIPTION:**

**INTERDRAIN GMG 412** is a high-density polyethylene (HDPE) geonet with two Polypropylene (PP) geotextile heat laminated. The geonet is made with 2 overcrossed strands at 60°, 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 cappings, 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
<b>Geonet drainage</b>			
Polymer	High-density polyethylene ( HDPE )		
Thickness at 20 kPa / 200 kPa	4,2 / 3,8	mm	EN 964-1
Thickness reduction due to creeping <sup>(1)</sup>	< 3	%	EN 1897-01
<b>Geotextile filtration</b>			
Polymer	Polypropylene ( PP )		
Mass per unit area	120	g / m <sup>2</sup>	EN 965
Cone drop	32	mm	EN 918
CBR	1,4	kN	EN ISO 12236
Opening size	90	µm	EN ISO 12956
<b>Geocomposite</b>			
Mass per unit area	740	g / m <sup>2</sup>	EN 965
Thickness at 20 kPa / 200 kPa	4,8 / 4,2	mm	EN 964-1
Peak tensile strength MD / CD	19 / 17	kN/m	ISO 10319
Elongation at break, MD / CD	50 / 50	%	ISO 10319
Crush resistance	> 1.250	kPa	ASTM D 1621
Flow capacity in their plane, MD		l/m·s	ISO 12958 <sup>(2)</sup>
i = 1,0	σ = 20 kPa	0,62	
	σ = 50 kPa	0,51	
	σ = 200 kPa	0,35	
	σ = 500 kPa	0,24	
i = 0,1	σ = 20 kPa	0,13	
	σ = 50 kPa	0,09	
	σ = 200 kPa	0,07	
	σ = 500 kPa	0,03	

**INTERDRAIN** standard roll format is **2 or 4 meters-wide** and 50 meters-long.

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.

<sup>(1)</sup> Thickness reduction after 1.000 h under 200 kPa normal stress.

<sup>(2)</sup> ISO 12958-1999 with 380\*300 mm specimens and rigid plates (hard-hard).

i : Hydraulic gradient

MD : Machine direction (longitudinal)

CD : Cross machine direction (transversal)

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.