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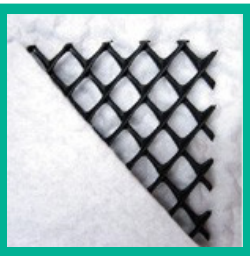
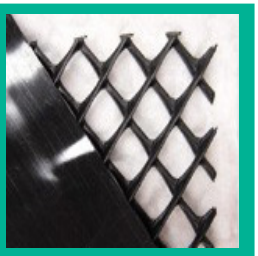
Duodrain GM Range

Geosynthetics

Drainage geocomposite

Product Description: Duodrain GM Range are high-density polyethylene (HDPE) geonets with a Polypropylene (PP) geotextiles heat laminated to either both faces or one face and an impermeable geomembrane on the opposite face. 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 Protection in only one product
Main Uses: Retaining structures, bridges, foundations, basements, canals, cut and cover tunnels and other underground structures, gardens and sport fields. Horizontal drainage and embankments and platforms of roads, railways, trams and other trafficked areas.

Characteristics	Standard	Unit	 Duodrain GMG412	 Duodrain GMFL4
Geonet Drainage				
Polymer			High-density polyethylene (HDPE)	
Thickness at 2 kPa/200 kPa	EN 964-1	mm	4.2 / 3.8	4.0 / 3.7
Geotextile filtration				
Polymer			Polypropylene (PP)	
Mass per unit area	EN 29073 / 1	g/m²	120	120
Cone drop	EN 918	mm	30	30
CBR	EN ISO 12236	kN	1.4	1.4
Waterflow normal to the plane	ISO 11058	l/m²/s	90	90
Opening Size	ISO 12956	µm	< 170	< 170
Drainage geocomposite				
Roll Size		m	2 x 50	2 x 50
Mass per unit area	EN 965-95	g / m²	740	880
Thickness at 2 kPa/200 kPa	EN 964-1-95	mm	4.8 / 4.2	4.8 / --
Peak tensile strength (RT_{MAX}), MD/CD	ISO 10319-1997	kN/m	19 / 17	19 / 13
Elongation at break, MD/CD	ISO 10319-1997	%	40 / 50	40 / 50
Flow capacity in their plane, MD	ISO 12958-1999(1)	l/m· s		
i-1.0 □ = 20 kPa □ = 50 kPa □ = 200 kPa □ = 400 kPa			0.60 0.51 0.35 0.24	1.33 0.96 0.52 0.13

Duodrain standard roll format is 2 metres wide.
has 10cm overlap at each side; to ease the installation and prevents the soil instrusion.
has to be covered between 14 days after installation.

CE Certificate of conformity
0099/CPD/A42/0013
0099/CPD/A42/0014

AENOR ER Empresa Registrada ER-0061/2/94

AENOR Gestión Ambiental GCM-98/007

(1)ISO 12958-1999 with 380*300mm specimens and rigid plates (hard-hard). The tolerance is ±30%.
MD: Machine direction (longitudinal)
CD: Cross machine direction (transversal)
i: Hydraulic gradient
□: Normal stress