

Product description

Enkadrain TPL is a 1 m wide flexible composite matting made up of a drainage core of polyamide filaments and provided on one or both sides with a nonwoven filter fabric. The components are thermally bonded together over the entire contact-area.

Each of the non-woven filters extend 100 mm to one side of the core in opposite directions. This ensures that the joint is covered when lanes of Enkadrain are layed adjacent to one another.

Application

Enkadrain TPL can be used to replace the mineral drainage and filter layers in the civil engineering and building industry.

Performances

Properties of the composite

Applied stress in kPa	Hydraulic gradient i in -	Water flow capacity in-plane* $Q_{\text{stress/gradient}}$ in $l/(s \cdot m)^{**}$		
		Mean value	Tolerance value	
20	1.0	2.0	-0.4	EN ISO 12958

* Test results by Colbond Geosynthetics Laboratory according to EN ISO 12958, opt. R/F.
Soil pressure against one filter side was simulated by a foam layer.

** $l/(s \cdot m) = 10^{-3} m^2/s$

Hydraulic properties of the filter T125PET/PA

		Mean value	Tolerance value	
Water permeability, V_{H50}	mm/s	150	- 40	EN ISO 11058
Opening size	μm	160	+/- 25	EN ISO 12956

Mechanical properties of the filter T125PET/PA

		Mean value	Tolerance value	
Polymer		PET/PA		
Mass per unit area	g/m^2	125	- 10	EN 965
Thickness	mm	0.6	- 0.1	EN 964-1
Tensile strength MD	kN/m	9	- 1	EN 10319
Tensile strength CMD	kN/m	8	- 1	EN 10319
Elongation at break MD	%	33	- 6	EN 10319
Resistance to static puncture	kN	1.6	- 0.2	EN 12236
Dynamic perforation resistance	mm	34	+ 5	EN 918

Mean value + tolerance value correspond to the 95% confidence level.

Dimensions and weights

Enkadrain Premium	Mattings					Rolls		
	Type	Thickness	Weight	Width	Length	Area	Ø	Length
	mm	g/m ²	M	m	m ²	m	m	kg
TPL/1-1s	10	575	1.0	45	45	0.80	1.02	29
TPL/1-2s	10	700	1.0	45	45	0.80	1.02	33

1s means 1 nonwoven filter. 2s means 2 nonwoven filters.
Individual values may vary from above mentioned data.

Quality Assurance



The Quality Management System of Colbond Geosynthetics, at Arnhem (development and sales) and Oberburg (production), has been approved by Lloyd's Register Quality Assurance Limited for the ISO 9001:2000 quality management system standard (Certificate No. 935136).



Enkadrain TPL is CE-certified by an independent notified body (0799-CPD).

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