

DC-Drainage Mats

TenCate Polyfelt® DC are geocomposites comprising a geonet and a filter geotextile on one or both sides. The geonet is made from high density polyethylene (HDPE) and the filter geotextile from polypropylene (PP). They have a very low compressability, resulting in high discharge capacity even under high surcharge load. They are used in all kind of surface drainage applications.

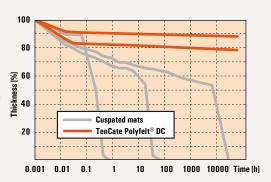


Effective surface drainage even under high surcharge loads

DC drainage mats offer the same flow rates as conventional drainage gravel at a considerably reduced thickness. They reduce the space requirements and thus the excavation costs. The working trench can be refilled with the excavation material, thus saving on backfilling costs.

Thanks to their structure, DC drainage mats are highly pressure resistant, and therefore offer adequate drainage even under high surcharge loads. They are also suitable in cases where both pressure and shear stresses are evident (such as along slopes or walls).

DC drainage mats can be easily installed. They are available in rolls of 2 m or 4 m width and can be cut to size using a construction knife. Please ask for our detailed installation guidelines.



Reduction of theickness at 200 kPa surcharge load over a long period of time (Testing laboratory: GEOTRAC / UK)

Highest quality for long-term drainage

The controlled manufacturing process guarantees a consistantly high quality. This simplyfies the quality control on the construction site.

Both geonet and filter geotextile offer excellent chemical and biological resistance. Therefore they can be used harmlessly in contact with soil and construction materials such as concrete.





The advantages at a glance:

- Reduced excavation costs
- Reduced costs for depositon of excavation material
- Easier quality control on the site
- High compression resistance



Applications

Wall and cellar drainage



Soil retaining structures



Cut-and-cover



Landfill surface drainage/sealing



Bridge abutments





DC-Drainage Mats - Technical Data

Properties [Standard]		Unit	DC 401E	DC 601E	DC 402E	DC 602E
Type of product		-	Geocomposite (Geonet + 1	Filter geotextile on one side)	Geocomposite (Geonet +	Filter geotextile on both side)
In-plane flow rate q - MD i = 1	20 kPa 50 kPa 200 kPa 400 kPa	I/ms	1.26 1.11 0.76 0.43	1.91 1.71 1.30 0.90	0.62 0.51 0.35 0.24	1.40 1.25 1.00 0.65
i = 0,1 [ISO 12958, hard – hard, Specimen size 380 x 300 mm]	20 kPa 50 kPa 200 kPa 400 kPa	I/ms	0.23 0.20 0.13 0.10	0.43 0.39 0.30 0.20	0.11 0.09 0.06 0.04	0.30 0.27 0.18 0.16
Thickness [EN ISO 9863-1]	2 kPa 20 kPa 200 kPa	mm mm mm	4.2 4.0 3.8	6.3 6.1 5.8	5.2 4.8 4.2	6.6 6.4 6.0
Tensile strength Elongation [EN ISO 10319]	MD/CD MD/CD	kN/m %	12/9 40/50	13 / 10 40 / 50	19/17 40/50	20 / 17 40 / 50
CBR puncture resistance [EN 12236] kN Thickness under creep-load (pressure 100 kPa) after 25 years (extrapolated) [EN 1897] mm			1.8	2.0	3.2 4.0	3.4 6.0

Properties [Standard]	Unit	all grades	Forms of supply	Unit	DC 401/402E	DC 601/602E
Filter Geotextile: Type of product Raw material CBR puncture resistance [EN ISO 12236] Cone drop test (hole diameter) [EN ISO 13433] Water permeability (vertical) [EN ISO 11058]	– kN mm I/m²s	Nonwoven 100 % PP 1.4 30 90 0.10 120	Width* Length Width* Length	m m m	2 25 4 50	2 25 4 65
Opening size Ogo [EN ISO 12956] Mass per unit area [EN ISO 9864] Geonet:	mm g/m²		*) The filter geotextile projects by 10 cm on one side each over the edge of the geonet			
Raw material Reduction of thickness under long term load [EN 1897-01, 1000 Std., 200 kPa]	- %	Polyethylene (HDPE) < 3				

The values given are average values obtained in our laboratories and in testing institutes. The right is reserved to make changes without notice at any time.

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