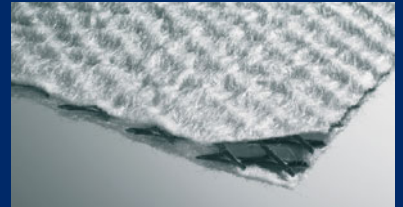


DC - Drainage Mats

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 compressibility, resulting in high discharge capacity even under high surcharge load. They are used in all kind of surface drainage applications.



TenCate Polyfelt DC

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).

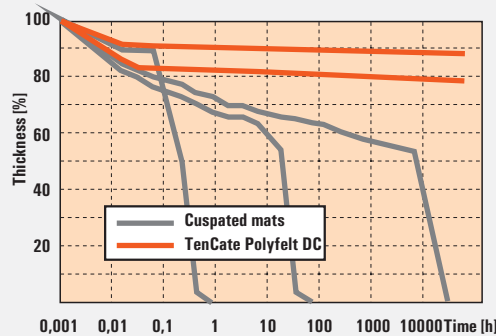
DC drainage mats can be easily installed. They are available in rolls of 2 m or 4 m width and can be cut to size using a construction knife. Please ask for our detailed installation guidelines..



Highest quality for long-term drainage

The controlled manufacturing process guarantees a consistently high quality. This simplifies 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.



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

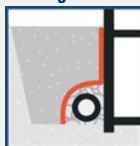


The advantages at a glance:

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

Applications

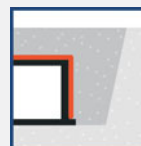
Wall and cellar drainage



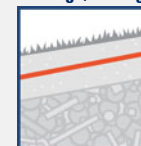
Soil retaining structures



Cut-and-cover tunnels



Landfill surface drainage/sealing



Bridge abutments



DC - Drainage Mats - Technical Data

| Properties <small>[Standard]</small> | Unit | DC 401E | DC 601E | DC 402E | DC 602E |
|---|--------------------------|---|---------|---|---------|
| Type of product | - | Geocomposite (Geonet + Filter geotextile on one side) | | Geocomposite (Geonet + Filter geotextile on both sides) | |
| In-plane flow rate q - MD i = 1 | 20 kPa | 1.26 | 1.91 | 0.62 | 1.40 |
| | 50 kPa | 1.11 | 1.71 | 0.51 | 1.25 |
| | 200 kPa | 0.76 | 1.30 | 0.35 | 1.00 |
| | 400 kPa | 0.43 | 0.90 | 0.24 | 0.65 |
| i = 0,1 | 20 kPa | 0.23 | 0.43 | 0.11 | 0.30 |
| | 50 kPa | 0.20 | 0.39 | 0.09 | 0.27 |
| | 200 kPa | 0.13 | 0.30 | 0.06 | 0.18 |
| | 400 kPa | 0.10 | 0.20 | 0.04 | 0.16 |
| <small>[ISO 12958, hard - hard, Specimen size 380 x 300 mm]</small> | | | | | |
| Thickness | 2 kPa | 4.5 | 6.3 | 5.2 | 6.6 |
| | 20 kPa | 4.3 | 6.1 | 4.8 | 6.4 |
| | 200 kPa | 4.0 | 5.8 | 4.2 | 6.0 |
| <small>[EN ISO 9863-1]</small> | | | | | |
| Tensile strength | MD/CD | kN/m | 12 / 9 | 15 / 10 | 19 / 17 |
| Elongation | MD/CD | % | 50 / 50 | 50 / 50 | 50 / 50 |
| <small>[EN ISO 10319]</small> | | | | | |
| Thickness under creep-load (pressure 100kPa) after 25 years (eytrapolated) | <small>[EN 1897]</small> | mm | - | - | 4.0 |
| | | | | | 6.0 |

| Properties <small>[Standard]</small> | Unit | all grades | Forms of supply | Unit | DC 401/402E | DC 601/602E |
|--|--------------------|---------------------|-----------------|------|-------------|-------------|
| Filter Geotextile: | | | | | | |
| Type of product | - | Nonwoven | Width* | m | 2 | 2 |
| Raw material | - | 100% PP | Length | m | 25 | 25 |
| CBR puncture resistance <small>[EN ISO 12236]</small> | kN | 1.4 | Width* | m | 4 | 4 |
| Cone drop test (hole diameter) <small>[EN ISO 13433]</small> | mm | 30 | Length | m | 50 | 65 |
| Water permeability (vertical) <small>[EN ISO 11058]</small> | l/m ² s | 90 | | | | |
| Opening size O ₉₀ <small>[EN ISO 12956]</small> | mm | <0.17 | | | | |
| Mass per unit area <small>[EN ISO 9864]</small> | g/m ² | 120 | | | | |
| Geonet: | | | | | | |
| Raw material | - | Polyethylene (HDPE) | | | | |
| Reduction of thickness under lon gterm load | % | < 3 | | | | |
| <small>[EN 1897-01, 1000 Std., 200 kPa]</small> | | | | | | |

*) The filter geotextile projects by 10 cm on one side each over the edge of the geonet.

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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