

Geotechnics



vertical drainage

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GEOTECHNICS

Building worldwide on our products



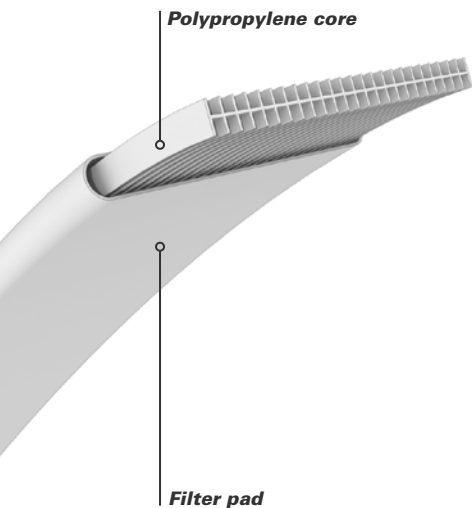
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Geotechnics is a proven partner in the field of civil engineering for the installation of vertical drainage. Its ability to respond proactively to customers requests and the custom production of the MebraDrain system, make Geotechnics a prominent international market leader. Geotechnics has a modern factory that dispenses products out to its customers all over the world. Due in part to the high quality and the monitoring of products in our own laboratory, Geotechnics is in great demand as a project partner in numerous drainage projects.





High production capacity in our own factory

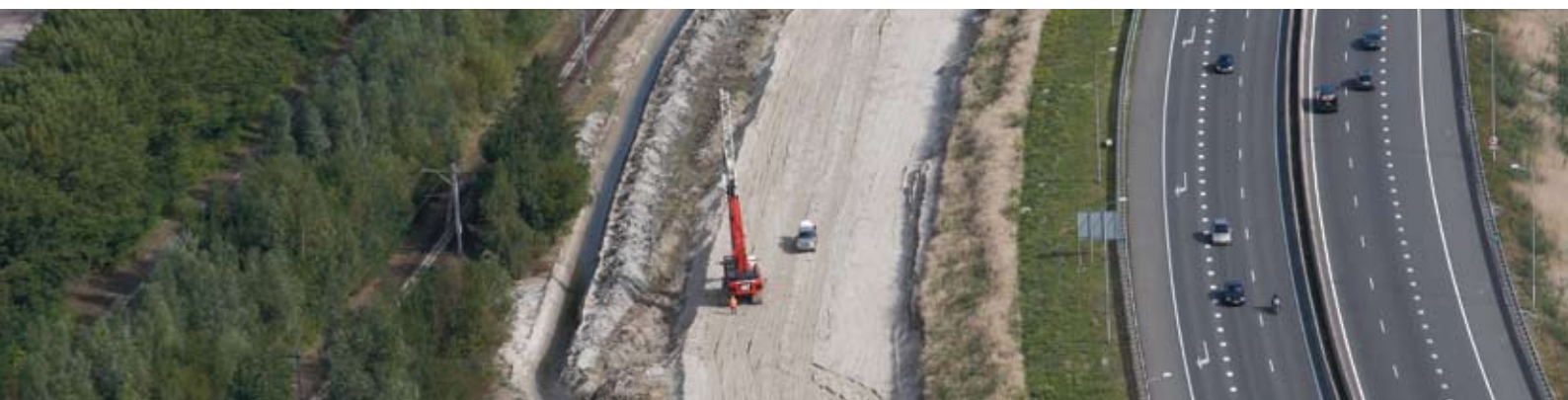


The MebraDrain product

MebraDrain is a pre-fabricated strip made of synthetics that is well suited for water drainage. The flexible core is made of high-quality polypropylene. Channels, through which water can flow unimpeded, run over the entire length on both sides. This core is surrounded by a strong and durable filter that combines a high degree of water permeability with an excellent impassable soil barrier.

Why MebraDrain?

MebraDrain is available in several types, the MD7407, MD7007 and MD88-H, each suitable for certain project-specific conditions such as soil conditions and installation depth. Moreover, Geotechnics also produces a custom-made drain under the name MD88-HD that can be dimensioned to meet the requirements of the design. The MebraDrain system has become one of the most frequently used vertical drainage systems in the world. This frequent use of MebraDrain in numerous projects around the world is clear proof of the trust customers have in our product. More than half a billion metres have now been installed worldwide. You can find the latest specifications for the drains at www.geotechnics.nl.



Installation of the infrastructure with the aid of vertical drainage on the Second Coen Tunnel project, Amsterdam



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Extrusion drain core

Applications of the MebraDrain system

If loads are applied on clay and peat layers, the poor permeability of the layers can lead to perched pore water. If no measures are taken, this perched pore water gradually flows away and will slowly alter the settlement. This can also lead to possible stability problems if embankment construction takes place too quickly. MebraDrain system consists of a synthetic strip drain that is installed vertically from ground level down to the desired depth. This causes vertical drainage paths in the subsoil, considerably reducing the flow path of the perched water. As a result, the consolidation process can be reduced from decades to six months or less and the increase in stability is accelerated, meaning that embankment construction can take place more quickly.

Common applications of MebraDrain are:

- > Installation of roads, railways and airports
- > Land reclamation projects
- > Port construction
- > Dike construction
- > Residential and industrial areas





Development of the core with the filter pad



Pressure vessel used for the testing of the vertical drains (Delftse test)

Advantages of MebraDrain:

- > Guaranteed water drainage, even in the case of high soil pressure and deformation
- > The core and the filter pad can be adapted to the soil conditions
- > Drains are suitable for installation at more than 45 metres below ground level
- > Due to large production capacity, it is possible to supply very large volumes in a short period
- > Thanks to the flexible core and the smooth filter pad the MebraDrain is the favourite drain of the user, i.e. the driver of the installation equipment
- > Certified and high-quality production process
- > Quality control in our own laboratory



MebraDrain *vertical drainage*



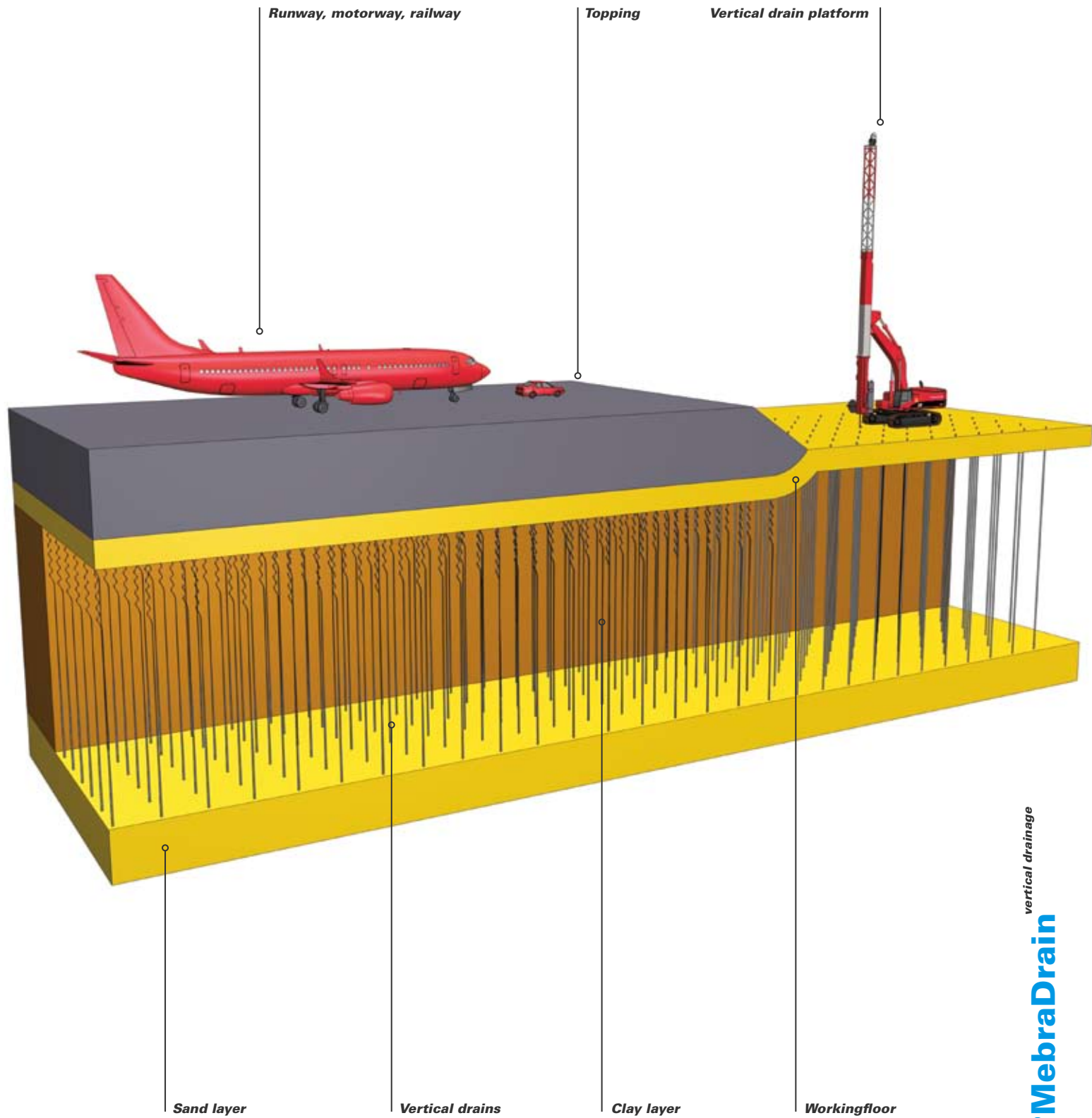
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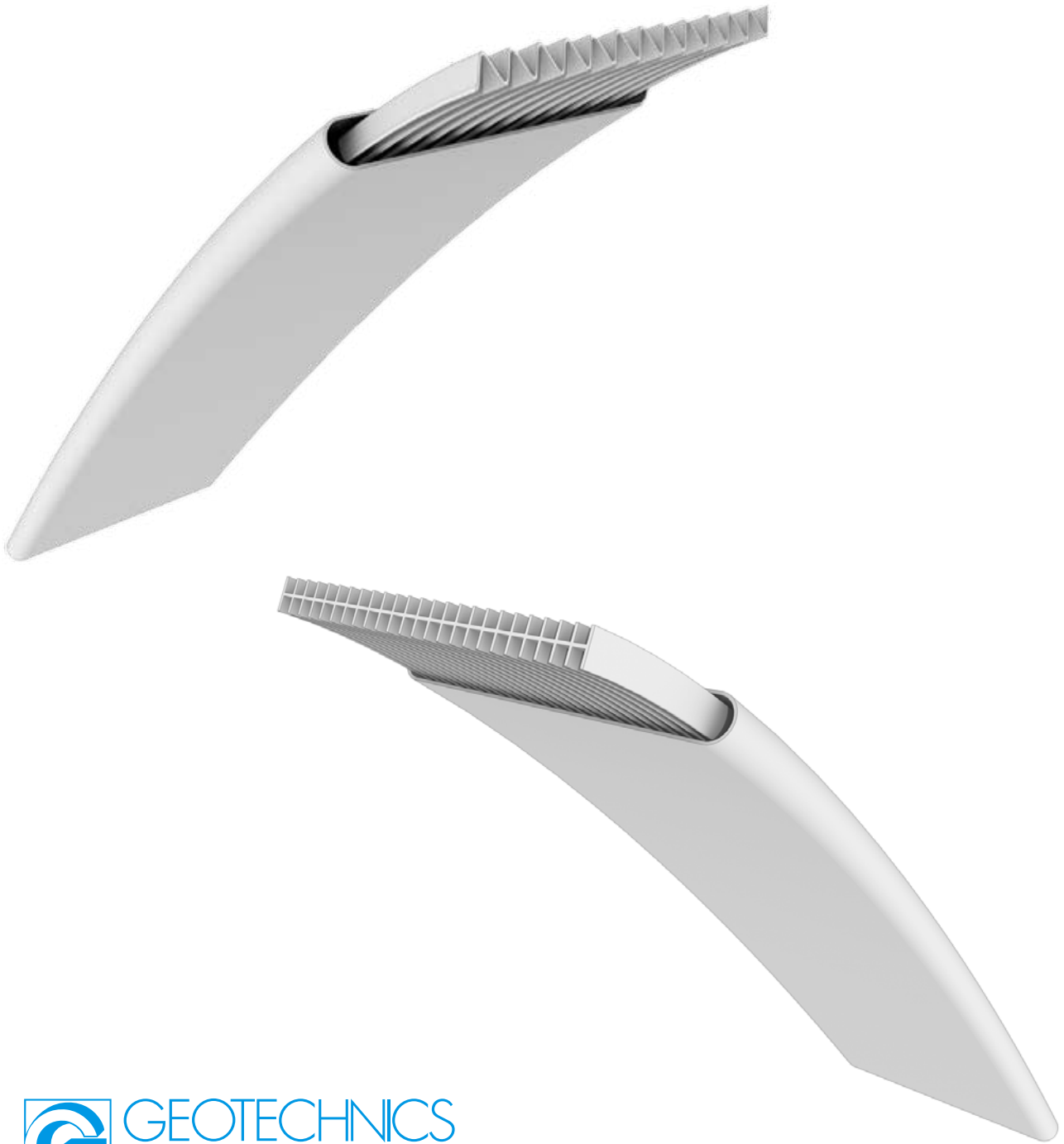
Geotechnics is the production company and commercial enterprise within the Boskalis Cofra Holding. Civil engineering is an innovative industrial sector in which developments come thick and fast. New techniques make it possible to attain increasingly better results. Geotechnics has for years played a leading role in this sector. Geotechnics produces and sells geosynthetics for civil engineering and for environmental technology. On the Kwadrantweg in Amsterdam stands a production facility with its own laboratory that was erected and refurbished in 2007. Owing to its many years of experience and geotechnical support, you will find the answers to all your questions about use of MebraDrain and Geoflex can be supplied by Geotechnics.

Other Geotechnics products are:

- > Membranes, geotextiles and geogrid
- > Geoflex
- > Geolock
- > BeauMatt

You can find more information about MebraDrain and other Geotechnics products at our website www.geotechnics.nl.





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