

Drainage Function

“The use of a geosynthetic material to collect and transport fluids.”

The geosynthetic material used to collect and transport fluids. Drainage functions can be used in a number of applications such as dissipating pore water pressure, assisting with consolidation or collecting leachate amongst other uses.

The geosynthetic acts as a drain to carry fluid flows through less permeable soils. For example, geotextiles are used to dissipate pore water pressures at the base of roadway embankments. For higher flows, geocomposite drains have been developed. These materials have been used as pavement edge drains, slope interceptor drains, and abutment and retaining wall drains. Prefabricated vertical drains (PVDs) have been used to accelerate consolidation of soft cohesive foundation soils below embankments and preload fills.

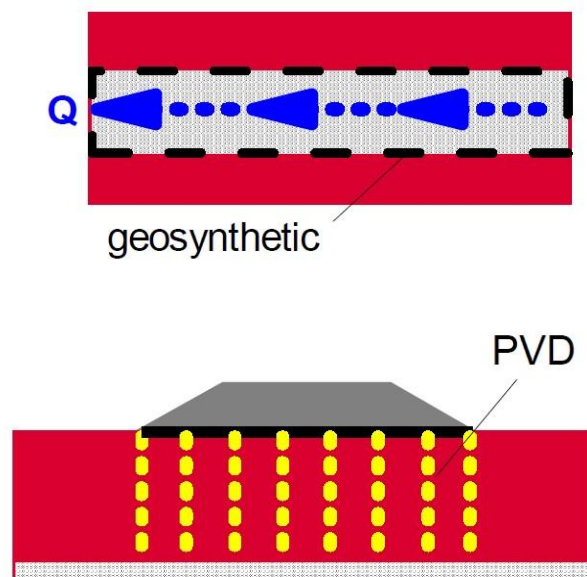


Image: Drainage Function

The above definitions are stated within the South African context.
Refer to ISO 10318:2018: Geosynthetics – Terms and definitions for formal definitions.
IGS Reference.