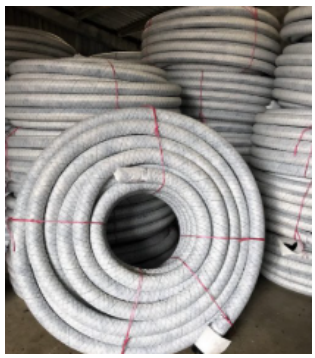
TME Grup Makina İnşaat San. Tic. Ltd. Şti.

CONFORMITY OF PRODUCT

TME GeoTech Drainage Pipe with Geotextile Wrap





Purpose of Usage

TME GeoTech Drainage Pipe with Geotextile Wrap is used for efficient subsurface drainage in civil, geotechnical, and environmental engineering projects. It is widely applied in road and railway drainage systems, retaining walls, foundation drainage, landfill leachate collection, sports fields, and agricultural drainage. The geotextile wrap prevents soil particles from entering the pipe while allowing water to pass through, ensuring long-term drainage performance.

Application Locations

TME GeoTech Drainage Pipe is typically manufactured from high-density polyethylene (HDPE) or PVC, featuring a perforated structure for effective water intake. It is wrapped with a nonwoven geotextile layer that acts as a filtration barrier, preventing clogging while maintaining high permeability. The pipe offers high compressive strength, flexibility, and resistance to chemicals, corrosion, and biological degradation. It is designed to perform efficiently under varying soil and load conditions.

Property	Unit	Typical Value
Material	—	UV Stabilized PP / PE
Structure	—	3D Open Matrix
Mass per Unit Area	g/m²	400 – 700
Thickness	mm	10 – 20
Tensile Strength (MD)	kN/m	1.5 – 3.0
Tensile Strength (CMD)	kN/m	1.0 – 2.5
Elongation at Break	%	30 – 60
UV Resistance	—	≥ 500 hours
Water Flow Velocity Resistance	m/s	Up to 4.0
Temperature Range	°C	-30 to +80
Durability	—	Long-term (10+ years)

Product Features

The main advantage of TME GeoTech Drainage Pipe with Geotextile Wrap is the combination of drainage and filtration in a single system, eliminating the need for additional filter layers. This reduces installation time and cost while ensuring reliable long-term performance. The geotextile wrap minimizes clogging risk, extending the service life of the system. Additionally, the lightweight and flexible design allows easy handling and installation, even in challenging site conditions.

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