

# CONFORMITY OF PRODUCT

## TME GeoTech Turf Reinforcement Mat



### Purpose of Usage

*TME GeoTech Turf Reinforcement Mat is used for permanent erosion control and vegetation support in civil and environmental engineering projects. It is widely applied on slopes, riverbanks, channels, shorelines, and landscaped areas where long-term soil stabilization is required. The mat reinforces vegetation by protecting root systems and preventing soil loss caused by water flow, rainfall, or wind.*

### Application Locations

*TME GeoTech Turf Reinforcement Mat is manufactured from high-strength synthetic fibers, typically UV-stabilized polypropylene or polyethylene. It features a three-dimensional open structure that allows vegetation to grow through and interlock with the mat. This structure provides excellent resistance to hydraulic forces while maintaining flexibility for easy installation. The material is resistant to UV radiation, biological degradation, and environmental stress, ensuring long-term durability.*

Property	Unit	Typical Value
Material	—	UV Stabilized PP / PE
Structure	—	3D Open Matrix
Mass per Unit Area	g/m <sup>2</sup>	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 Turf Reinforcement Mat is its ability to provide permanent erosion control while promoting natural vegetation growth. It enhances root reinforcement, increases slope stability, and improves resistance against surface runoff. The lightweight and flexible structure allows quick and easy installation. Additionally, it reduces maintenance requirements, supports sustainable solutions, and ensures long-lasting performance in challenging environmental conditions.*