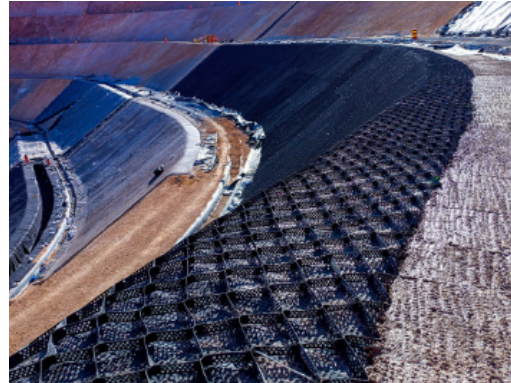


CONFORMITY OF PRODUCT

TME GeoTech Perforated Geocell



Purpose of Usage

TME GeoTech Perforated Geocell is designed for soil stabilization, erosion control, drainage facilitation, and load support in civil and environmental engineering projects. It is widely used in road and railway embankments, riverbanks, slopes, channels, green roofs, and landscaping. The perforations allow water to pass through, improving drainage and reducing hydrostatic pressure while maintaining soil confinement.

Application Locations

TME GeoTech Perforated Geocell is made from high-density polyethylene (HDPE) with UV stabilization for long-term durability. The three-dimensional honeycomb structure confines infill materials such as soil, sand, or gravel, providing enhanced load distribution and slope stability. Perforations in the cell walls allow efficient water drainage, preventing waterlogging and reducing erosion risk. The material is chemically resistant, flexible, and can adapt to uneven terrain for easy installation.

Material Properties	Unit					Test Method
Cell Depth	mm	75	100	150	200	
Polymer Density	g/cm ³	0.935-0.965				ASTM D 1505
Environmental Stress Crack Resistance	Hours	> 400				ASTM D 5397
Environmental Stress Crack Resistance	Hours	6000				ASTM D 1693
Carbon Black Content	%	> 1.5				ASTM D 1603
Nominal Sheet Thickness Before Texturing	mm	1.27 -5%,+10%				ASTM D 5199
Nominal Sheet Thickness After Texturing	mm	1.52-5%,+10%				ASTM D 5199
Strip Puncture Resistance	N	450				ASTM D 4833
Seam Peel Strength	N	1065	1420	2130	2840	EN ISO13426-1B
Seam Efficiency	%	100				GRI-GS13
Nominal Expanded Cell Size (width x length)	mm	320x287,475x508 etc				
Nominal Expanded Panel Size (width x length)	m	2.56x8.35, 4.5x5.0, 6.5x4.5, 6.1x2.44				

Product Features

The perforated geocell combines soil confinement and drainage in a single product, reducing the need for additional drainage layers. It improves slope stability, distributes loads evenly, and minimizes soil erosion. The lightweight and flexible design allows for rapid installation and easy transportation. Its long-lasting durability under UV exposure, chemicals, and environmental stresses ensures reliable performance in a wide range of applications.