

Geo Composite (RDSO & MORTH)

TerraShield Geo Composite is a Geonet-Geotextile, Drainage Composite for Planar Drainage manufactured by HDPE Geonet and thermal bonded PP Nonwoven Geotextiles bonded to both sides. It is durable in both the harsh construction installation phase and aggressive soil PH range from 2-13. It is used to give excellent lateral transitivity for the transmission of the water or other fluids within the plane of the drain.

Applications

-  Highway & Railway Sub-Drainage System
-  Retaining wall & bridge abutment drainage
-  Landfill leachate collection systems
-  Sports Filed & Green Roofs
-  Tunnel & Basement wall drainage

Features

- A. High Flow Capacity
- B. Excellent Filtration
- C. Lightweight & Easy to Install
- D. High Compressive Strength
- E. Chemical & Biological Resistance
- F. Long-term durability
- G. Customizable design
- H. Eco-friendly & Sustainable



Specifications

Properties (Standard)	Unit	Mean Value (Applied Tolerance Value)
Type of Product	-	Geocomposite (Geonet+Filter Geotextile on both side)
Tensile Strength	MD CMD kN/m	20 (-2.0)
Elongation [EN ISO 10319]	MD CMD %	35 (+/-15)
CBR Puncture Resistance [EN 12236]	N	3500 (-350)
Cone Drop [EN ISO 13433]	mm	38 (+/-5)
Thickness [EN ISO 9863-1]	mm	8.0 (-0.8)
In-plane flow rate q -MD ²	100kPA l/ms	2.3
$i = 1$ [ISO 12958]	200kPA	2.0
	400kPA	1.7

Properties (Standard)	Unit	Mean Value (Applied Tolerance Value)
Filter Geotextile		
Type of Product	-	Nonwoven
Raw Material	-	100% PP
CBR Puncture Resistance [EN ISO 12236]	N	1500
Cone Drop Test [EN ISO 13433]	mm	30
Permittivity [ASTM D4491]	Sec ⁻¹	0.5
AOS [ASTM D4751] MaxARV	mm	0.22
Mass per unit area [EN ISO 9864]	g/m ²	135
Geonet:		
Raw Material	-	Polyethylene (HDPE)
Roll Dimension		2x100mtr

