



# MUNA NOOR

Quality, Inside and Out



## GEOSYNTHETICS PRODUCT BROCHURE

### Muna Noor Manufacturing & Trading LLC.

PO. Box 50, Road # 4D,  
Rusayl Industrial Estate Rusayl  
Postal Code 114  
Sultanate of Oman: 00968 24442500

### Factories in Rusayl and Sohar

#### Retail Outlets

H.O. 2444 2500 | Rusayl: 93526893  
Barka: 9261 8040 | Sohar: 99204820  
Salalah: 92219849 | Nizwa: 9825 1932

 [www.munanoor.com](http://www.munanoor.com)

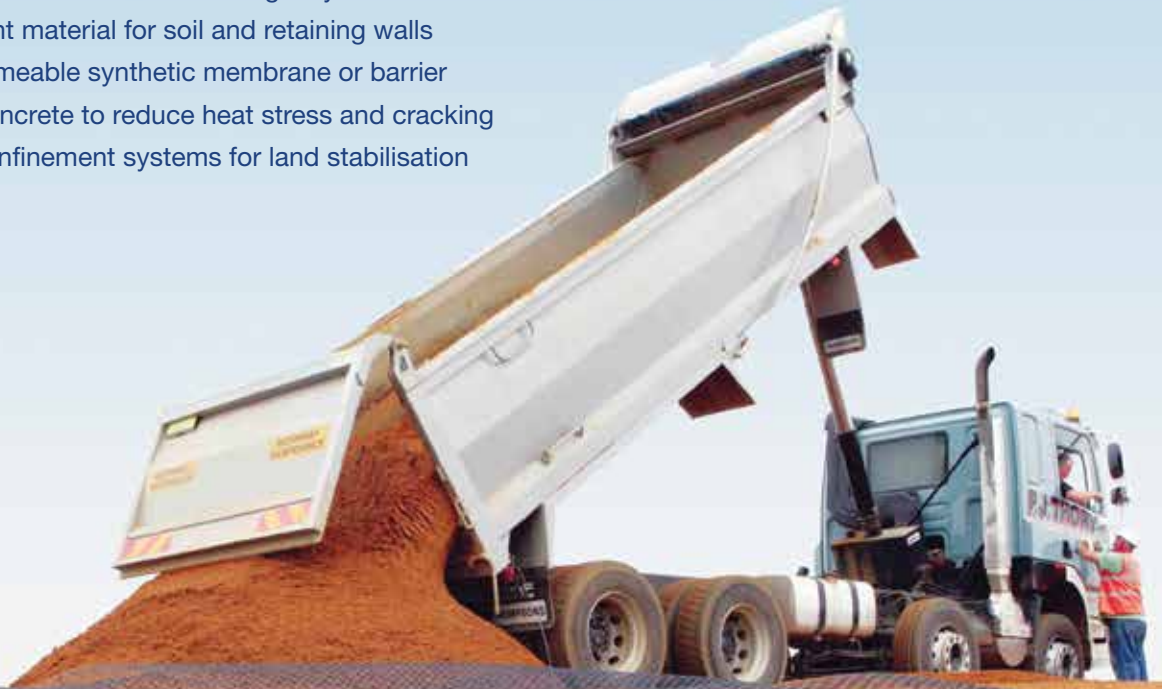


# Geosynthetics are where innovation meets infrastructure!

Muna Noor's comprehensive range of geosynthetic products offer cutting-edge solutions for construction, civil engineering, and environmental applications. Geosynthetic materials are engineered to enhance the performance, durability, and sustainability of various projects, making them indispensable for modern infrastructure developments. In this product brochure, we will explore the various geosynthetic products we offer and highlight their key benefits.

## Geosynthetics can be broken down into five main categories:

- **Geotextiles:** Permeable fabrics used in geotechnical applications
- **Geocomposites:** Combination of one or more geosynthetic materials
- **Geogrids:** Reinforcement material for soil and retaining walls
- **Geomembranes:** Impermeable synthetic membrane or barrier
- **Drain Cells:** Ventilate concrete to reduce heat stress and cracking
- **Geocells:** 3D cellular confinement systems for land stabilisation



# Geotextiles

Geotextiles are woven or non-woven fabrics specifically designed for soil reinforcement and separation. These versatile materials improve soil stability, prevent erosion, and facilitate drainage. Geotextiles are available in a range of tensile strengths and permeabilities, making them suitable for diverse applications, such as road construction, landfill liners, and coastal protection.

## Key benefits:

- Reinforce soil structures
- Enhance drainage capabilities
- Reduce soil erosion
- Improve road and pavement longevity

## Products:

- Standard geotextile
- Salt barrier
- Weed guard
- Root guard
- Geobags

## Product specifications:

Width: 4.5m

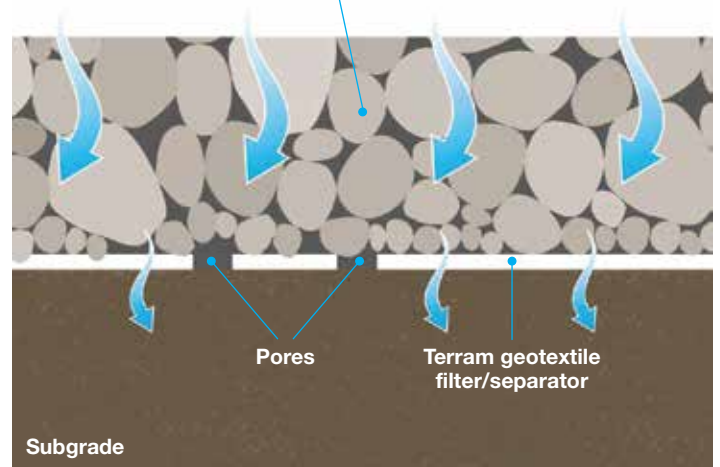
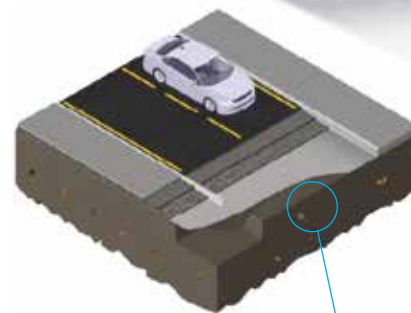
Length: 50 – 150m

Colour: White



Terram is the leading manufacturer of geosynthetic products.

[terram.com](http://terram.com)



A natural filter is established adjacent to the geotextile's pores.

# Geocomposites

Geocomposites combine multiple geosynthetic materials to address complex engineering challenges. Most often, they combine the following geosynthetic materials:

- Geonet core between two geotextile filters
- Geonet core between a geotextile and a geomembrane

Geocomposites are the perfect solution for the function of drainage:

- Alongside roads
- Within slopes
- Around culvers, basements and reservoirs

## Applications:

- Water and wastewater management
- Drainage
- Municipal waste landfills
- Stadiums and golf courses
- Highways and roads
- Tunnels
- Landfills and mining
- Soil reinforcement for civil construction



# Geogrids

Geogrids are high-strength, grid-like structures that provide excellent reinforcement for soil, enabling the construction of stable foundations, retaining walls, and embankments. Geogrids are manufactured using cutting-edge materials and technologies to ensure maximum performance.

## How do geogrids work?

Geogrids have openings, called apertures, which allow aggregate to interlock with the grid and the other aggregate, creating a stable base and providing support to the load above.

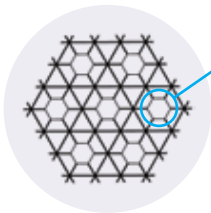
## Key benefits:

- Increase soil load-bearing capacity
- Prevent soil settlement
- Enhance slope stability
- Extend the life of structures

## Products:

- InterAx® geogrids
- TriAx® geogrids
- Uniaxial geogrids
- Biaxial geogrids

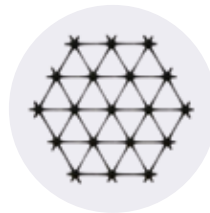




**InterAx® three-layer geogrid**  
The newest geogrid on the market

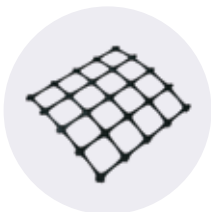
**InterAx® geogrids:**

The newest of the geogrid technology, utilising the design of the H-Series and enhancing the strength and function with three-layer extrusion technologies.



**TriAx® geogrids:**

The diamond pattern of the TriAx® geogrid improve stress forces and improve load dispersion.



**Biaxial geogrids:**

The original geogrid, still trusted globally for ground reinforcement.



**Uniaxial geogrids:**

Used for retaining walls and stress reinforcement in one direction.

**Tensar**

All Muna Noor geogrids are supplied by Tensar International  
[tensarcorp.com](http://tensarcorp.com)



# Geomembranes

Geomembranes are impermeable membrane liners that create a barrier between liquids and soil, making them essential for containment applications. Geomembranes are widely used in ponds, landfills, and waste disposal facilities to prevent environmental contamination.

Geomembranes are available in high-density polyethylene (HDPE), and linear low-density polyethylene (LLDPE), and can come with a smooth or textured surface depending on the application.

## Applications:

- Agricultural and nurseries
- Marine construction
- Manufacturing
- Mining

## Technical specifications:

Width: Up to 8m

Length: Up to 300m

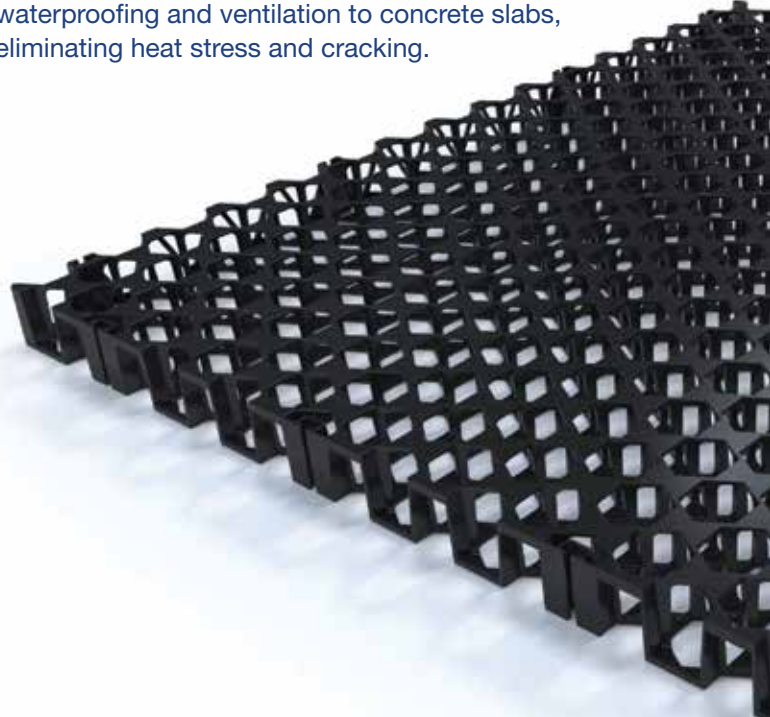
Thickness: 0.5mm – 3mm

Colour: Black or white

Finish: Smooth or textured, single/double-sided

## Drain Cells

Drain Cells function as a protective membrane for waterproofing and ventilation to concrete slabs, eliminating heat stress and cracking.





# Geocells



Geocells are three-dimensional honeycomb-like structures made from high-density polyethylene (HDPE). They provide an efficient and eco-friendly solution for soil confinement and erosion control. Geocells are easy to install and adapt to various terrain configurations.

## Key benefits:

- Soil stabilisation
- Erosion control
- Tree root protection
- Flood defense
- Load platforms
- Retaining walls

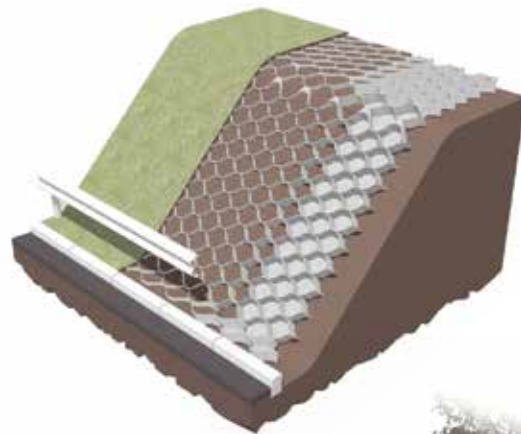
## Technical specifications:

Weld spacing: 330mm – 712mm

Length: 7m

Cell depth: 75mm – 300mm

Colour: Grey







Please note that the information contained in this catalogue may be subject to inaccuracies and that all technical details and specifications should be verified before making any purchasing decisions.

For any questions or further information, please contact one of our world-class customer service representatives.

+968 24442500

info@munanoor.com

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