



# HDPE GEOCELLS

New robust 3D cellular confinement system designed to improve soil stabilisation, control erosion, and increase load support.

# Terram HDPE Geocells

Terram HDPE Geocells are our latest robust 3D cellular confinement system designed to **improve soil stabilisation, erosion control, and increase load support.**

Compared to traditional construction methods, Terram HDPE Geocells are a **cost-effective and sustainable solution**, enabling significant cost and CO2 emission savings, by reducing construction depth and granular infill importation by approximately 50%.

The robust design of HDPE geocells allows for **fast installation**, eliminating the potential for cracking and deformation of the structure, consequently reducing maintenance costs and ultimately **extending the design's life**. They can be used for multiple applications, including slope erosion control, construction platforms, road sub-base stabilisation and tree root protection.



## Over 5000 Hours of Environmental Stress Cracking Resistance (ESCR)

Terram HDPE Geocells are designed to provide a long service life.

They are manufactured from high-density polyethylene (HDPE) and other special additives to sustain dynamic installation methods.

Our HDPE Geocells have been tested to offer >5000 hours of ESCR (ASTM D1693) and high UV resistance.

## Product Applications

Geocells soil stabilisation, load support and erosion control properties make them suitable for multiple applications, including the below:



Slope erosion control



Load platforms & Road sub-base stabilisation



Tree root protection

# Product Benefits



## EXTENDED DESIGN LIFE

Terram HDPE Geocells **reduce the risk of structural failures**, by improving soil stabilisation, load transfer, and erosion control. Geocells prevent platform settlement and deformation, and improve slopes resistance to erosive forces.



## COST-EFFECTIVE

HDPE Geocells support a **rapid installation** and allow you to **half your spend on infill materials and reduce time and money spent on excavation works**. They reduce the required construction and excavation depth by 50% vs. traditional construction methods, whilst enabling the use of available local infill, such as sand, removing the import cost of traditional pavement subbase materials.



## SUSTAINABLE SOLUTION

HDPE Geocells can help **reduce the CO2 footprint of a project** by limiting the transportation of imported infill, the amount of infill required, and prolonging the design's life. Geocells also foster **tree development and slope vegetation growth**, which ultimately contributes to CO2 capturing, by preventing soil and vegetation erosion on slopes, protecting tree roots from the damage and starvation caused by compacted topsoil.

# Product Specifications

PROPERTY	TG330	TG356	TG445	TG660	TG712
Expanded Cell Width (mm){±10%}	244	259	320	488	508
Expanded Cell Length (mm){±10%}	210	224	287	436	475
Cell Depth (mm)	75, 100, 125, 150, 200, 250, 300				
Cell Panel Width (m){±10%}	2.44	2.56	2.56	2.44	2.56
Cell Panel Length (m){±10%}	6.10	6.52	8.35	12.63	13.72







# THE ORIGINAL & THE BEST

Terram provides a unique range of value engineered solutions that are extensively used in civil engineering and building.



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