TERRAM

HDPE GEOCELLS

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

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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 polyethene (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

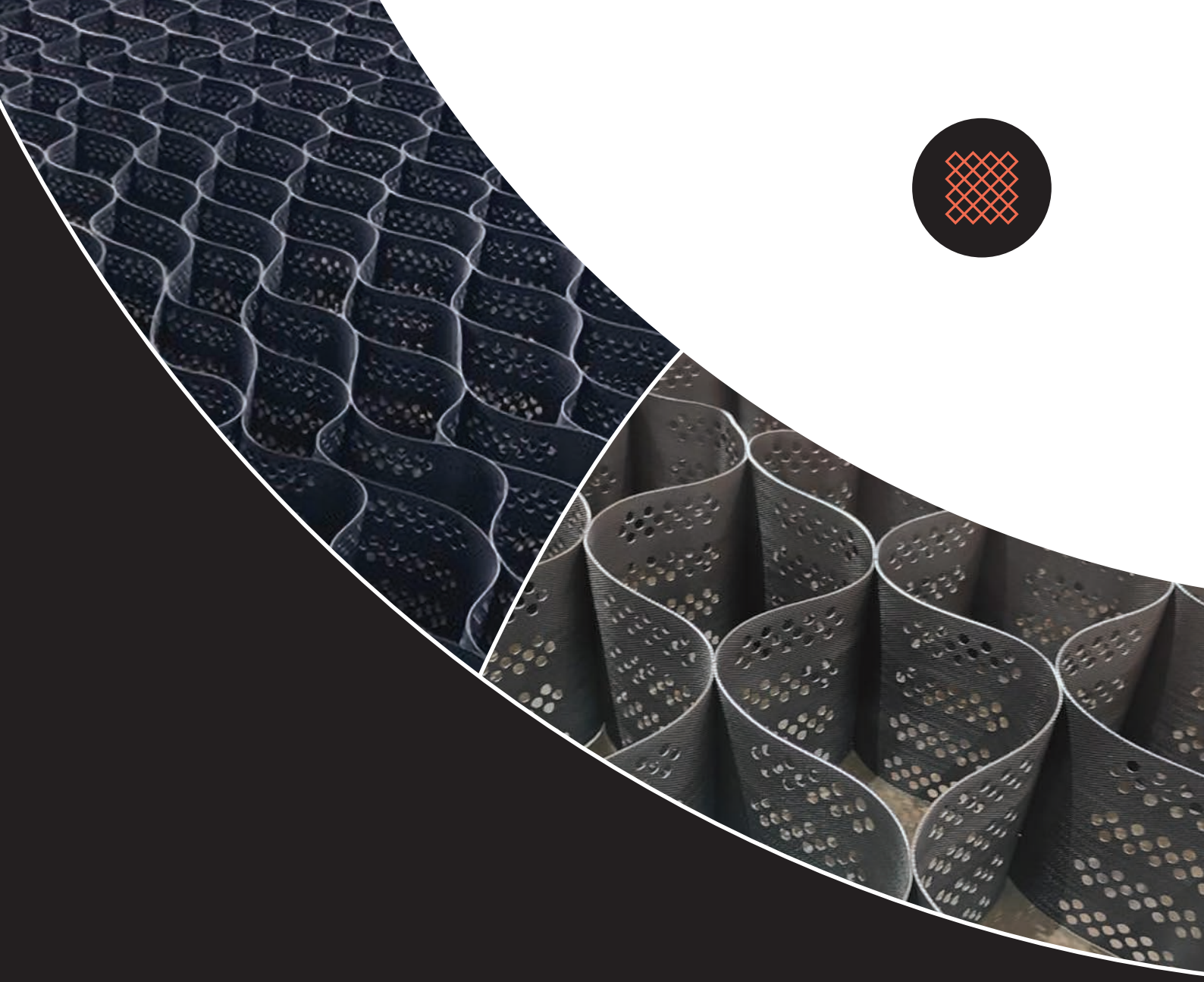
HDPE Geocells can help **reduce the CO2 footprint of a project** by limiting the transportation of imported infill, the amount of infill required, and prolonging the design's life. Geocells also foster **tree development and slope vegetation growth**, which ultimately contributes to CO2 capturing, by 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

BUREAU VERITAS Certification

CE UK CA



THE ORIGINAL & THE BEST

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

+44 (0) 1621 874200

terram.com

info@terram.com

/terram

Fiberweb Geosynthetics Ltd, Blackwater Trading Estate,
The Causeway, Maldon, Essex, CM9 4GG, United Kingdom

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