

GEOCELL

Ground, Wind, Weed
and Erosion Control

A cellular confinement system fabricated from strips of high strength non-woven Terram geotextile with chemically bonded joints. The Terram geotextile strips are manufactured from UV stabilised, high tenacity, virgin polypropylene fibres that have been both mechanically and thermally bonded to give high strength and permeability.

Applications

- Mechanical stabilisation/reinforcement projects
- Slope erosion control for topsoil and vegetation
- Sub-base confinement of granular fills particularly Tree Root Protection (TRP) and Sustainable Drainage Systems (SuDS)
- Retaining structures using multiple horizontal and stacked layers

Features and Benefits

- Made from inert polymers giving excellent long term durability in all soil types
- Fully permeable geotextile allows water movement in all directions preventing surface water cascading over cells and piping through punched holes in cell walls
- Stabilises fill reducing the amount of imported material required reducing costs
- Reduces bearing pressures helping to control differential settlement in soft and variable strength ground
- British manufactured with a low transport carbon footprint for UK deliveries
- Lightweight flexible material which hugs ground contours and is easy to handle, cut and install

Packaging and Identification

Terram Geocell panels are supplied flat packed on pallets with banding straps and identification labels.

Storage

Geocell panel pallets shall be stored on stable/ level ground, stacked not more than two packs high and no other materials shall be placed on top. Can be stored outdoors when packaged, but should be protected from exposure to UV. All materials should be stored in accordance with good health and safety practice and in accordance with local laws.



Quality

Terram Geocells are supplied having met internal quality requirements in accordance with our Quality Management system which is certified to BS EN ISO 9001:2015.

Notes

Reported values are nominal unless otherwise stated. Reported values related to durability testing are generally based on the lowest grade of Terram geotextile within a family.

Gross pallet weight is provided is for lifting guidance only, it does not form part of quality control procedures.

Additional Information

Refer to the Terram Specification, Design and Installation guides for advice on product grade selection, installation, fixing, jointing and filling.

These figures relate to standard product weights and pack sizes. Other weights, sizes and colours may be available on request.



| Physical Properties | Test Method | Unit | 22/20 | 22/25 | 25/10 | 25/15 | 35/10 | 35/15 |
|--|----------------------|--------------------|-------|-------|-------|-------|-------|-------|
| Cell Diameter | | mm | 220 | 220 | 250 | 250 | 350 | 350 |
| Cell Length | | mm | 275 | 275 | 295 | 295 | 415 | 415 |
| Cell Width | | mm | 230 | 230 | 250 | 250 | 370 | 370 |
| Cell Depth | | mm | 200 | 250 | 100 | 150 | 100 | 150 |
| Approx. cells per sqm | | | 30 | 30 | 26 | 26 | 12 | 12 |
| Colour | | | Grey | Grey | Grey | Grey | Grey | Grey |
| Mechanical/Hydraulic Properties | | | | | | | | |
| Cell Wall Permeability (H50) | EN ISO 11058 | l/m ² s | 20 | 20 | 20 | 20 | 20 | 20 |
| Cell Wall Tensile Strength | EN ISO 10319 | kN/m | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 |
| Cell Junction Tensile Strength | Internal test method | kN/m | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| Durability Properties | | | | | | | | |
| Weathering (UV exposure) | EN 12224 | Days | 30 | 30 | 30 | 30 | 30 | 30 |
| Combined ageing (oxidation, temp and moisture) | EN ISO 13438 | Service Life (yrs) | 100 | 100 | 100 | 100 | 100 | 100 |
| Panel Dimensions | | | | | | | | |
| Panel Length | | m | 6.2 | 3.2 | 7.3 | 7.3 | 7.4 | 7.4 |
| Panel Width | | m | 3.2 | 6.2 | 5.1 | 5.2 | 5.2 | 5.2 |
| Panel Weight | | kg | 20 | 25 | 17 | 25 | 11 | 17 |
| Panels per pallet | | | 12 | 12 | 18 | 12 | 30 | 14 |
| Gross pallet weight | | kg | 233 | 241 | 320 | 395 | 14 | 252 |

FLP endeavour to ensure that the information given on this technical data sheet is accurate but accept no liability for its use or suitability for particular application.