GEOCELL by Geoser



HDPE CELLULAR CONFINEMENT SYSTEM

Geocell

Geocell that holds slopes, roads and ponds in place. Made in our own plant in Ankara, where we have produced geosynthetics since 1978.

Product catalogue

Since 1978 · Ankara, Türkiye

www.geocelll.com

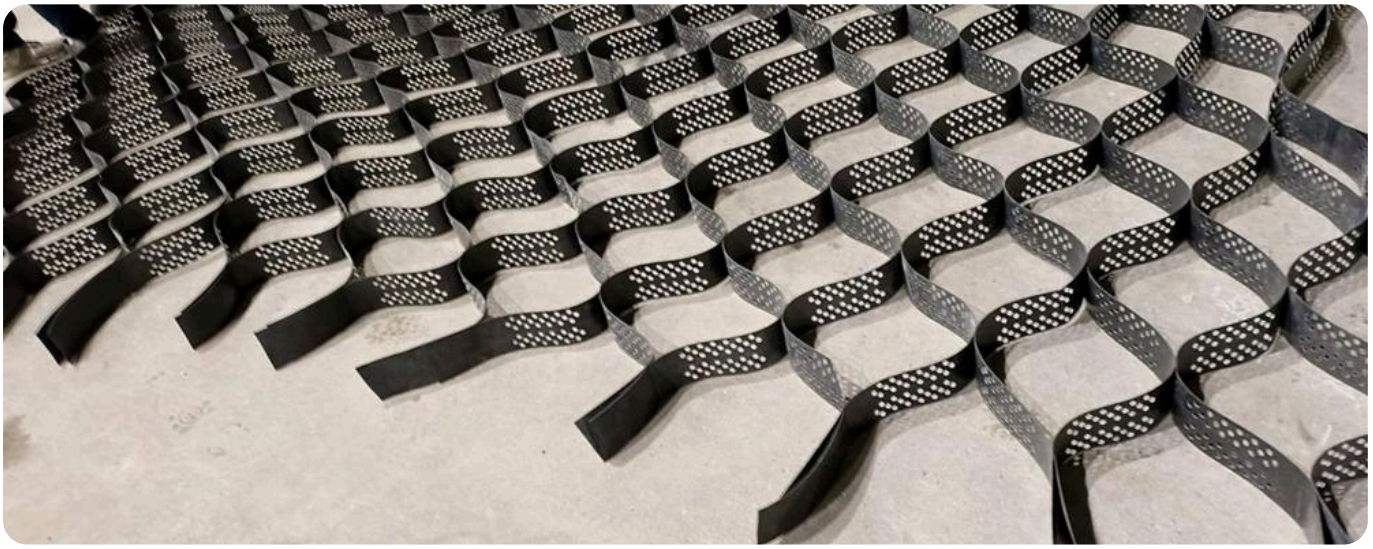
Geocell from a geomembrane manufacturer

Geoser has manufactured HDPE geomembranes and geosynthetics in Ankara since 1978 and ships to over 40 countries. Our geocell panels are made in the same plant to the same standard, so the liner and the cell layer on top of it come from one manufacturer in one shipment.

1978
Founded

40+
Export countries

5–30 cm
Cell heights



Every panel is welded, expanded and checked in our own factory before it ships.

Why buy from Geoser

Our own plant
Welded, expanded and checked in Ankara. No middlemen.

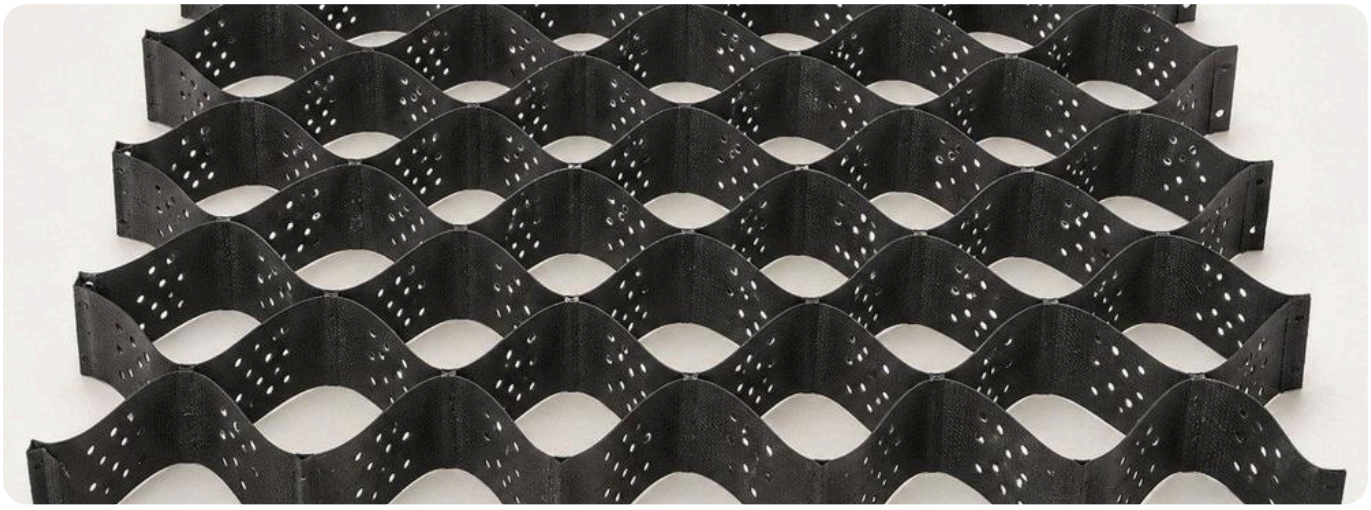
Geomembrane + geocell
One supplier for the liner and the cell layer on top of it.

40+ countries
Export packing, documents and freight handled for you.

Fast, clear quotes
Price per m² by height, with volume discounts shown upfront.

What is geocell?

Geoser geocell is a three-dimensional honeycomb panel made of HDPE strips. It ships folded flat, is stretched open on site and filled with soil, gravel or concrete to stabilise slopes, roads, channels and lined ponds.



How it works

1

Confinement

The cell walls stop the infill from moving sideways, so loose material behaves like a stiff layer.

2

Load spreading

The filled panel distributes wheel and foundation loads over a wider area of weak subgrade.

3

Erosion control

Each cell holds its own soil, so rain cannot carry it downhill, and perforations let water and roots pass.

Material and manufacturing

Panels are made from HDPE strips welded at regular intervals in our plant in Ankara, the same plant that has produced HDPE geomembranes since 1978. Walls are supplied smooth and solid, or textured and perforated for better grip and drainage. Every panel is expanded and checked before it is folded and packed for shipment.



Product range and specifications

Virgin HDPE strips, ultrasonically welded. Smooth or textured, perforated or solid walls.



5 cm
Light slope cover, landscaping



10 cm
Slopes, footpaths, light traffic



15 cm
Roads, channels, parking



20 cm
Heavy load support, haul roads



30 cm
Retaining walls, very soft subgrade

Cell height	Typical use	Weld spacing	Strip thickness
50 mm	Light slope cover, landscaping	330 – 712 mm	1.2 – 1.5 mm
100 mm	Slopes, footpaths, light traffic	330 – 712 mm	1.2 – 1.5 mm
150 mm	Roads, channels, parking	330 – 712 mm	1.2 – 1.5 mm
200 mm	Heavy load support, haul roads	330 – 712 mm	1.5 mm
300 mm	Retaining walls, very soft subgrade	330 – 712 mm	1.5 mm

Options

Wall type	Smooth and solid · Textured and perforated
Weld spacing	330 · 356 · 445 · 660 · 712 mm
Raw material	Virgin HDPE
Shipping	Folded panels, palletised export packing



Main applications



Slope protection

Stops erosion on cut and fill slopes and lets vegetation take root.

Recommended: 50–100 mm for gentle slopes with vegetation; 150 mm for steep cuts or gravel infill.



Load support

Stabilises haul roads, trench beds, rail and soft subgrades with less fill.

Recommended: 150 mm for site roads and yards; 200 mm for heavy trucks or very soft ground.



Ponds & canals

Holds cover soil or gravel in place over geomembrane liners on steep side slopes.

Recommended: 100–150 mm, perforated and textured, with stakes or tendons at the crest.



Landfills & lined basins

Protects the liner and keeps the cover layer from sliding.

Recommended: 100–150 mm perforated panels; 200 mm on the steepest sections.

More applications



Channel lining

Filled with concrete, geocell forms a flexible, joint-free lining that resists cracking.



Permeable parking and paths

Filled with fine crushed stone, it gives a surface that drains rainwater and does not rut under wheels.



Railway formation

In the subbase beneath the ballast it reduces settlement and keeps track geometry stable for longer.



Green retaining wall

Soil-filled layers stacked in stepped courses form a flexible wall with plants growing on its face.



Riverbank protection

Filled with stone at the waterline and topsoil above, it stops the current scouring the bank.



Heavy-duty yards

Aggregate-filled geocell spreads forklift and truck loads and prevents rutting.

Installation in five steps

1. Prepare and level the subgrade; lay a geotextile where the soil is fine or wet.
2. Stretch the panel open to its full size, starting from the top of the slope.
3. Fix it with stakes or anchors and connect neighbouring panels.
4. Fill the cells with soil, gravel or concrete, slightly overfilling.
5. Compact the infill and, on green slopes, seed the topsoil.

Choosing the right height

As a rule of thumb: 50–100 mm for vegetated slopes and landscaping, 150 mm for roads, channels and steep slopes, 200–300 mm for heavy loads, very soft ground and retaining walls. Send us your drawings and we confirm the right panel.

On site

Dilovası, Türkiye: geocell laid over an HDPE geomembrane liner on pond side slopes, and as base stabilisation in a trench.







GEOCELL by Geoser

Get a quote for your project

Share the project area, the application and your delivery port, and we confirm the final price and lead time the same day.

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Price calculator and quote form