

GeoGrid®

Cellular Paving System

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- » Ground reinforcement and stabilisation
Ideal for integration into Sustainable Urban Drainage Systems (SUDS)
- » Unique patented design avoiding surface deformation in high temperatures
- » Designed and manufactured in the UK from 100% recycled polyethylene.
- » Fast and simple to install with simple interlocking design
- » Durable and lightweight - Available in either Premium or Standard option
- » Capable of withstanding loads up to 500 tonnes* / m²

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Ground Solutions
The fast and safe way forward

GeoGrid®

Cellular Paving System



Ground reinforcement and stabilisation

GeoGrid® cellular paving system enables the fast and efficient implementation of ground reinforcement and stabilisation. The cellular design of the grids allows the dispersion of excess rain or flood water which makes it ideal for integration with Sustainable Urban Drainage Systems (SUDS) and in areas prone to flooding or with water dispersion problems.

Unique patented design

GeoGrid®'s unique patented design offers the combination of excellent cellular strength and weight load capability whilst allowing for optimal expansion and contraction avoiding the risk of surface deformation in hot or cold climates.

Fast and efficient installation

Manufactured in the UK and Europe and made from 100% recycled polyethylene, GeoGrid® features an effective and simple interlocking design for fast and efficient installation. The grids can be lifted directly from the pallet as pre-connected 1m² sections and can be easily cut to form shapes around obstacles such as planters or posts, saving time and money on large scale installations.



GeoGrid® System Options

GeoGrid® Standard

Due to the unique patented design GeoGrid® Standard is capable of withstanding weight loads up to 400 tonnes / m² and a point load weight of 25 tonnes.

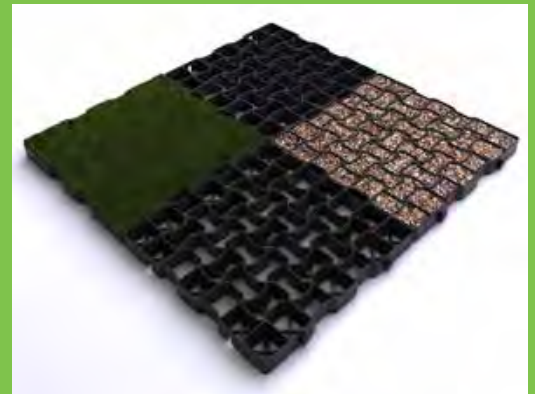
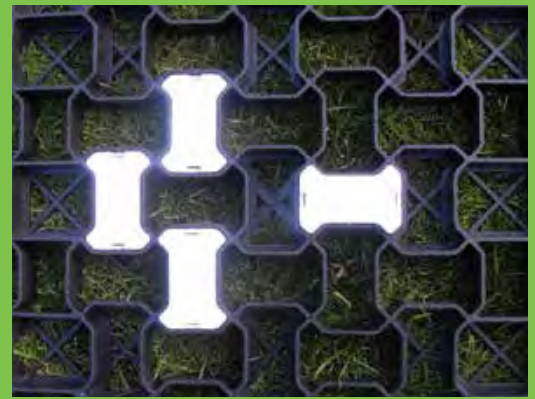
Light weight and easy to install with the option of white or hi-viz demarcation blocks, GeoGrid® Standard is ideal for areas where the passage of pedestrians or light vehicles is required.

GeoGrid® Premium

Withstanding weight loads up to 500 tonnes / m² and a point load of 35 tonnes, GeoGrid® Premium offers the same patented design features as GeoGrid® Standard but providing enhanced performance capabilities.

Still light weight at 1.6kg per mat or 6.4kg per m². GeoGrid® Premium utilises the same simple interlocking design offering ease and speed of installation. With the enhanced weight bearing capability, GeoGrid® Premium is ideal for areas where regular coach or heavy traffic is expected.

Both systems can be in-filled with either aggregate or decorative stones to provide robust ground reinforcement. Alternatively, GeoGrid® can be seeded with grass to provide an environmentally friendly and aesthetic option. The use of demarcation blocks enables GeoGrid® to be used in areas where there is a requirement for indicating specific zones, such as disabled parking bays and traffic flow directions.



Typical GeoGrid® Applications

- » Pathways & driveways
- » New & overflow car parks
- » Ground reinforcement and stabilisation including slopes, embankments and storage areas
- » Integration into Sustainable Urban Drainage Systems (SUDS)
- » Pedestrian access ways
- » Access roads and roadways
- » Event parking
- » Road extensions and widening
- » Equestrian and outdoor events
- » Fire and emergency routes
- » Infiltration basins
- » Depot storage areas
- » Gateway areas
- » Golf buggy routes
- » Helicopter landing pads

Technical Product Information

For use as a technical guide only

GeoGrid® Cellular Paving System

Material:	100% Recycled High Density Polyethylene (HDPE)	
Size:	495mm x 495mm x 40mm	
Weight per grid:	Standard - 1.1kg	Premium - 1.6kg
Weight per m ²	Standard - 4.4kg	Premium - 6.4kg

Weight loading / m ²	Standard - 400 tonnes*	Premium - 500 tonnes*
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Axel or Point load	Standard - 25 tonnes*	Premium - 35 tonnes*
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Connectivity	Simple interlocking design	
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Environmental features	Weather proof and water resistant. Polyethylene is resistant to acids, alkalis and solvents.	
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Packaging:	Pre-connected 1m ² sections - 4 grids 60 layers of 4 grids per pallet 240 grids per pallet	
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Pallet size and area required per pallet	105cm x 105cm x 120cm / 220cm (60m ²) 26 pallets per standard articulated lorry	
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Logistics	Typically 1560m ² of GeoGrid® per standard EU curtain sided trailer - based upon 26 pallets of 60m ² per pallet. Pallets can be loaded to customer requirements up to maximum of 60 layers.	
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Customisation	Optional white or high-viz demarcation blocks can be fitted into grid cells indicating specific zones such as disabled parking bays and traffic flow directions	
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Testing*	Tested by National Physical Laboratory UH under BSEN124: 1994	
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UK Patent No.	0808580.5	
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Installation	Please refer to installation guide and/or seek advice from qualified structural or civil engineer.	
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Ground Solutions

The fast and safe way forward

GeoGrid® is available for worldwide sale - please contact us for further details.

Health and Safety Information

General

Critical hazards to man and environment	None
Environment	The disposal of the material presents no danger regarding toxicological or ecological considerations. This material is not expected to be readily biodegradable.
Solubility in water	Insoluble
Regulatory	Not classified as hazardous under transport regulations.

Safety Properties

Melting point	Melt Temperature 90 - 140°C
Auto Ignition	330°C - 410°C
Decomposition temperature	> 300°C
Stability and reactivity	No possibility of degradation under normal circumstances.
Toxicology	Not harmful to health under normal conditions.

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*Load performance depends on ground conditions as well as the weight and type of vehicles and plant. Kedel Ltd, its agents or employees are not liable for any damage to existing ground or property through use of GeoGrid®. The sale or hire of all temporary access mats are subject to Kedel Limited's standard Terms and Conditions. These are available from our website www.kedel.co.uk or by telephoning our office.