# Gravel Paving

Geo-Coastal Engineering Ltd

## Description

Our Gravel Paving system is a 500x500mm paver with a 40mm infill depth and 25mm spike zone giving an overall depth of 75mm. It has TUV Certification.

It is manufactured from high quality recycled HDPE and has been approved for use in many high profile applications such as on motorway medians shoulders for the NRA and overflow carparks for the OPW.

Recent applications are at Leinster House, Google in Dublin, the Dept of the Environment in Wexford, Young Offenders Detention Centre in Lusk, M50 Motorway, M7 Motorway, M11 Motorway, Malahide Castle, Grangegorman Hospital, Oakfield House, Howth Golf Club etc.

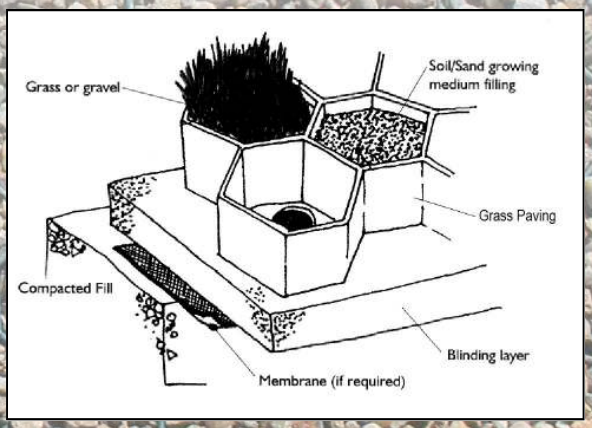
High quality recycled HDPE makes it both environmentally friendly and very durable, unlike cheaper alternatives which tend to go brittle and splinter rapidly when exposed to sunlight.

The fact that it has a base and integrated spikes makes it very stable when trafficked. The hook and loop connection provides tolerance and makes it easy and fast to install with a lot less cutting required compared to cheaper system which just slot together.

Gravel paved areas are fully permeable and will contribute towards flood prevention by allowing rain water to percolate naturally into the ground. It is one of the simplest and cheapest ways of reducing the SUDS requirements on projects.

Pavers are filled with gravel for paths and tracks to prevent the gravel migrating when trafficked.

Parking markers available if required.




## Uses

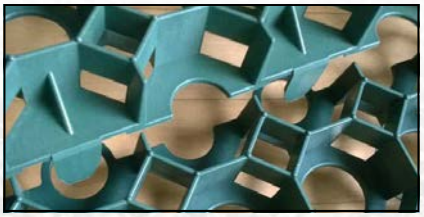
- Fire access ways
- Car parking
- Caravan parking
- Footpaths
- Gravel Driveway
- Agricultural entrances
- Erosion control
- Gate and style entrances
- Helipad
- Golf & amenity tracks

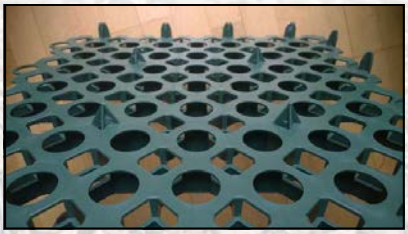
## Benefits

- Blends harmoniously into the environment.
- Durable
- Up to 90% of the surface is gravel
- Can be filled with variety of gravel
- Reinforces soil to increase load capacity.
- No additional surface water drainage required.
- SUDS compliant
- Quick to install.
- Minimal cutting required.
- Cost effective.
- Can be lifted and reused.
- Parking markers

**Unique System Benefits**

- Hexagonal honeycombs with heavy tapered walls for additional strength
- Made from high quality recycled UV stabilised HDPE for durability
- Base Plate reinforcement for strength and load distribution
- Built-in pins/studs
- Connectors which hinge and has tolerance for ease and speed of installation





## Paver Technical Data

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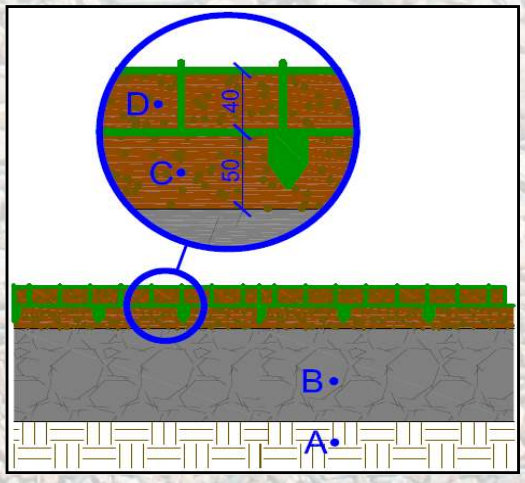
|---|---|
| **Material:** | Recycled UV-stabilised High Density Polyethylene (HDPE). |
| **Dimensions:** | Gross = 500mm x 500mm ± 4% and Net = 483mm x 483mm ± 4%. |
| **Honeycomb Height:** | 40mm ± 4%. |
| **Pin Height:** | 25mm ± 4%. |
| **Total Height:** | 65mm ± 4%. |
| **Weight:** | Approx. 1.3kg per paver. |
| **Chemical resistance:** | Chemically resistant against ionised water, petrol, diesel, motor oil, sodium hydroxide, hydrochloric acid |
| **Environment:** | Neutral to the environment in accordance with ISO11885, ISO17294-2A, EN17933 |
| **Weather:** | Weather-proof 1000h in accordance to DIN4892-3 |
| **Colours:** | Green and Black |
| **Ground Sealing:** | Prevented due to the open design of the paver. |
| **Surface Structure:** | Honeycomb structure with anti-sliding studs |
| **Bearing Capacity** | Up to 2,500kN/m2 unfilled and in excess of 3,500kN/m2 filled with suitable material |
| **Loading:** | Traffic loads in accordance with DIN1072 |
| **Filling:** | Sand or Gravel (<20mm). |
| **Certification:** | TUV |




## Typical Installation

**A) Subsoil Layer**
The subsoil needs to be evaluated to determine its load bearing capacity.

**B) Sub-base Layer**
The thickness of the sub-base depends on both the bearing capacity of the subsoil and the required bearing capacity of the paved surface.

**C) Bedding Layer**
The bedding layer is a 50mm layer of consolidated suitable bedding material.

**D) Paver Cells**
The paver cells can either be fill to just below the surface with gravel or overfilled to completely cover the honeycomb depending on your personal preference.