

Permeable Grass / Gravel Paver – Grass Paving System

Description



Grass Paving system is a lightweight, high strength interlocking plastic cell structure designed for the creation of Permeable Grassed/Gravel areas subject to pedestrian and vehicular traffic.

The cell structure provides heavy load bearing support and true containment of soil mix / gravel to create a permeable surface with unlimited traffic volume and/or duration time for parking without traditional problems associated with permeable paving such as compaction of the root zone.

The system can be used for storage and filtration of rainwater. Polluted runoff and vehicle drips are consumed prior to reaching the ground water table, or waterways.

Drainage Cell can be used in any situation where low to medium use parking surfaces, access roads and driveways are required.

The sub-base requirement for permeable paving is normally less than the sub-base required for concrete or bitumen paving systems, the large panel size supplied in pre-clipped formats makes installation quick and easy with unskilled labour.

System Benefits

- Strongest Product in the market.
- Very high compressive load carrying capacity of up to 235 tons/m2 unfilled in point load and UDL.
- Cell Structure allows for 3d vertical & horizontal root growth.
- Maintains actual void size for effective drainage & root growth after backfill& compaction.
- Fit-in system easy to cut and comes in pre-clipped panels.
- Thin profile depth – reduces depth of cover and allows the use of planting in shallow conditions.
- Holds and creates a perch water table, providing ideal moist conditions for root growth.
- Easy to shop, store and install comes in pre-clipped panels.
- Environmentally friendly made from selected Recycled Polypropylene
- Recharges Groundwater Table through principle of infiltration.
- Light weight and easy to install hence no heavy machinery or skilled labour required.
- Site space utilization and minimum site disruption.
- Creates Green Permeable Surface and reduces Heat Island effect.
- Reduces Storm water runoff rate & volume.
- Reduces Erosion & soil Migration.
- Complies with principles of WSUD (Water Sensitive Urban Design)
- Filters Hydrocarbon drip.

Applications

Permeable Grass Pave Cell is a lightweight, yet incredibly strong Cell panel, ready to be filled with Gravel or Soil mix to create aesthetically pleasing natural Green or Gravel surface to drive on for :

- Fire lanes
- Overflow, Stadium and Event Parking
- Church Parking
- Green Driveway
- Gravel Car park & Driveway
- Parking Aisles and Bays
- Handicap Parking Spaces
- Vehicle Storage Yards
- Loading Dock Areas
- Trails for Multiple Uses
- Boat Ramps
- Outdoor Bulk Storage Areas
- Infiltration Basins
- High-Use Pedestrian Areas
- Utility Access Way
- On-street Parking – Grass Edge Shoulders
- Pedestrian Walkways
- Emergency Access
- Infiltration Basin Reinforcement
- Golf Buggy Paths
- Erosion Control

Specifications

	Metric	Imperial
Width	500mm	1,64'
Length	600mm	1,97'
Height	50mm	1.96"
Surface Void Area	90% void	
Internal Void Area	95%	
Material	90% recycled polypropylene + 10% Propriety Mix	
Colour	Black	
Biological & Chemical Resistance	Unaffected by moulds and algae, soil-borne chemicals, bacteria and bitumen, Oils & light Acid, Alkaline Solutions.	
Service Temperature	-10°C to 85°C	-14F to 185 °F
Compressive Strength (Unconfined Load)	>235 t/m ²	> 320.02 psi
Compressive Strength (Confined Load)	>4,465 t/m ²	> 6,351.7 psi