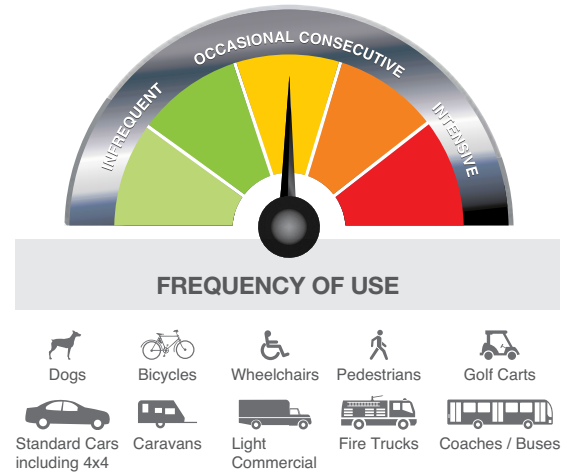





PRODUCT SELECTION CHART

The following table is designed to identify which ground reinforcement products may be best suited for your requirements where vehicles are required to drive over grass and gravel surfaces. Typical applications and frequency of use would need to be confirmed by the existing ground conditions. Please contact our technical sales team for further guidance on product suitability. All our products can be used for regular pedestrian applications.



Product	Typical Applications	Frequency of Use	Loading	Page
 <p>TR4 Turf Reinforcement Mesh – heavier grade plastic mesh for reinforcing grass.</p>	Overflow grass car parks, lawn reinforcement, dog areas, playgrounds, grass paths, wheelchair access and free range chicken farms.			04
 <p>GR11 Grass Reinforcement Mesh – 11mm thick plastic mesh for reinforcing grass.</p>	Overflow grass car parks, grass verge parking, access roads, wheelchair access, and golf buggy routes.			06
 <p>GR14 Grass Reinforcement Mesh – 14mm thick plastic mesh for reinforcing grass.</p>	Overflow grass car parks, grass verge parking, access roads, wheelchair access, and golf buggy routes.			07
 <p>PP40 Porous Paver for Gravel – Plastic paving grid for ground reinforcement and gravel retention.</p>	Car parks, coach parks, private driveways, access roads, shed bases, fire access lanes, pedestrian walkways, wheelchair access.			08
 <p>EconoGrid 40™ – An economical porous reinforced grass paver used for creating reinforced grassed and gravelled areas.</p>	Overflow car parking, fire access lanes, caravan/holiday home parking, residential parking.			10
 <p>TruckGrid – Recycled plastic grids ideal for forklift movements</p>	Industrial factory yards, outside storage areas, HGV loading area, forklift access and coach and bus parking.			12
 <p>TruckGrid Max – Permeable paving grids for heavy weight vehicle movement</p>	Intensive use car parking truck stands, loading bays and heavy duty industrial vehicle movements.			14

TURF REINFORCEMENT MESH

TR4



Turf reinforcement meshes have been specially designed, using carefully selected high density plastics, to allow light trafficking – car or pedestrian – to grassed areas where and when this would not normally be considered. Turf Reinforcement mesh helps to reduce grass wear, rutting and damage by spreading loads and creating a stronger root base and so retaining a natural, structure free grass cover.

Applications:

- Overflow grass car parking requirements (TR4)
- Access to grass areas normally closed off to traffic (TR4)
- Pedestrian grassed areas / walkways. (TR4)
- Grass Paths (TR4)
- Lawn reinforcement (TR4)
- Dog and Pet run grassed areas (TR4)

Grass reinforced with turf reinforcement meshes can be used throughout the warmer seasons and occasionally in the winter months in some special circumstances, subject to factors like frequency of use, type of traffic, nature of soil and the surface drainage.

Turf reinforcement meshes are manufactured from part recycled HDPE plastics and are designed to provide many solutions to grass parking, access roads and worn and rutted grass areas.

TR grass reinforcement meshes have been specially designed to allow quick and maximum grass entanglement and a reinforced structure. The plastic mesh will quickly disappear into the grass producing an invisible reinforced natural looking grass surface. TR4 mesh is intended to give extra strength and a footprint to the top grass surface protecting the grass root structure and so abrasion is greatly minimised.





For technical and installation information visit:
www.grassreinforcement.com.au/reinforced-turf-mesh

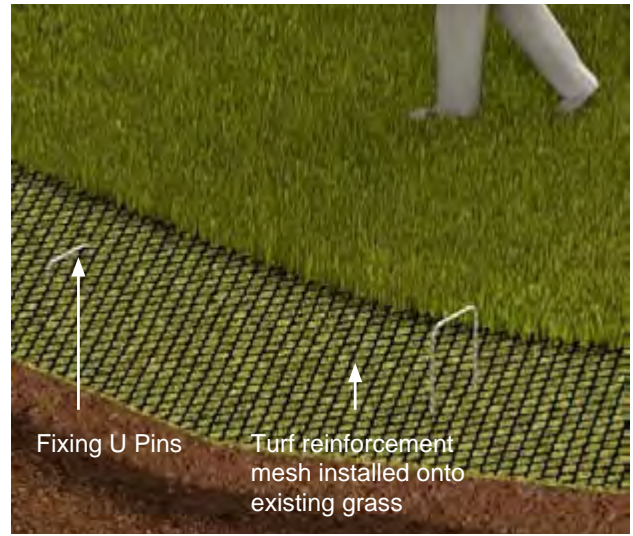


Installation is normally easy and trouble free by pinning the plastic mesh to the existing grass surface using steel fixing U-Pins. If installed correctly and not used inappropriately, the expected lifetime of the meshes should be 10 to 20 years.

TR4 plastic mesh is UV stabilised, and once in place the mesh should not degrade. For full details of how to install TR turf reinforcement mesh, please see our installation guide for further instruction. For further clarification please contact our technical team.

TR4 is a fully permeable solution and as such are used as or in a Water Sensitive Urban Design (WSUD) system. The natural drainage of the land is unaffected as is the natural ecology of the soils by the mesh.

TR4 reinforcement mesh reinforces grass for cars and pedestrian applications while keeping a natural grass surface that is permeable.



Turf reinforcement mesh is available in two mesh grades and in various roll sizes:

- TR4 turf mesh is our premium grade 660g/m² product that is suitable for the more frequent light traffic applications
- TR3 turf protection mesh is our lighter standard-grade 430g/m² product for less frequent and very light traffic applications or pet areas.

Product Range

Product	Size	Mesh Aperture	Weight	Material	Colour
TR4	2m x 30m	26 x 26mm	660g/m ²	HDPE (Part recycled)	BLK/GRN
TR4	1m x 10m	26 x 26mm	660g/m ²	HDPE (Part recycled)	BLK/GRN

Fixing U-Pins

TR turf reinforcement mesh is fixed to the grass using steel u-shaped pins.

Product	Pack Size	Material
200mm long x 35mm wide x 4mm dia	150 per pack	Steel





GRASS REINFORCEMENT MESH

GR11 & GR14



GR11 and GR14 grass reinforcement meshes have been specially designed, using carefully selected high density plastics, to allow permanent trafficking – car or pedestrian – to grassed areas where and when this would not normally be considered. GR grass reinforcement mesh achieves this by reinforcing and protecting existing grass areas against traffic damage (vehicle / pedestrian wear and rutting) whilst retaining and keeping the natural look of grass cover.

GR grass reinforcement meshes will allow prolonged summer and winter use subject to factors like frequency of use, type of traffic, nature of soil and drainage. This would include parking on a daily basis, access to areas closed off in the colder, wetter months and disabled access. Please contact our technical team for further guidance.

GR grass reinforcement meshes are used to provide many application solutions of parking and access where a grass surface may not have been previously considered.

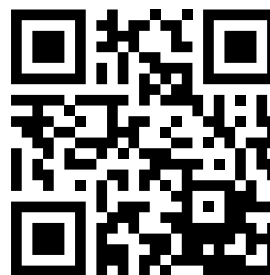
Typical problems solved would include:

- Daily car parking requirements
- Overflow car parking requirements
- Allowing off road parking on grass verges
- Access to grass areas normally closed off to trafficking
- Minimising damage to highly trafficked grassed areas like builders compounds.
- Temporary grass access routes
- Protection to allow routing by golf buggies.
- Equestrian issues like poaching and rutting at paddock gateways, walkways and feeding rings.





For technical and installation information visit:
www.grassreinforcement.com.au/grass-reinforcement-mesh



Installing GR14 & GR11 grass reinforcement meshes is normally easy and trouble free. The plastic mesh is laid onto the existing grass and fixed in place using steel U-Pins. If installed correctly and not used inappropriately, the expected lifetime of the grass reinforcement meshes should be 10 to 20 years. The plastic mesh is UV stable, rot proof and once in place the mesh will not degrade. Please see our installation guide for instructions or contact our technical team for further clarification.

GR meshes can be installed for immediate use for temporary applications. These would include grass access routes and builder compounds. Although not having the full working capacity of an integrated mesh, the effects of trafficking will be greatly minimised.

GR11 and GR14 are a fully permeable solution and as can be used as part of a source control system within a Water Sensitive Urban Design (WSUD) solution. The natural drainage of the land is unaffected as is the natural ecology of the soils by the mesh.



GR grass reinforcement meshes are available in two mesh thickness / grades and in various roll sizes:

- GR14 mesh is our heavy-grade 14mm thick, 2kg/m² product that is suitable for the more intensive / frequent traffic applications
- GR11 mesh is our standard-grade 11mm thick, 1.2kg/m² product for less frequent and lighter applications or where economic restraints prevail.

Product Range

Product	Size	Thickness	Weight	Material	Colour
GR14 Heavy	2m x 20m	14mm	2kg/m ²	HDPE (Part recycled)	Green
GR11 Standard	2m x 20m	11mm	1.2kg/m ²	HDPE (Part recycled)	Green
GR11 Standard	1m x 10m	11mm	1.2kg/m ²	HDPE (Part recycled)	Green

Fixing U-Pins

GR grass reinforcement mesh is fixed to the grass using steel u-shaped pins.

Product	Pack Size	Material
200mm long x 35mm wide x 4 mm dia	150 per pack	Steel



PP40

POROUS PAVER GRAVEL FINISH



PP40 is a porous paver that can provide a solution to a wide range of trafficking needs, especially in providing a stable, free draining pavement surface that retains gravel in situ. The application might be a gravel car park, an emergency access route or wheel chair / disabled access path. PP40 plastic paving grids have been designed, using carefully selected recycled plastics, to meet the demands and loadings imposed across a wide range of end requirements and site conditions.

Applications:

- Gravel car parking
- Overflow car parks
- Wheelchair / disabled access paths
- Free draining pedestrian paths
- Fire access roads / lanes
- Cycle paths
- Access routes and roads
- Drives and Driveways

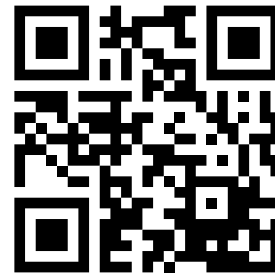
PP40 porous plastic pavers can be filled with a 5mm to 20mm mixed sharp angular aggregate/gravel to give a very stable, hardworking and free draining working surface. The design of PP40 plastic porous pavers allows excellent interlock with the gravel resisting and negating dynamic and lateral loadings so the gravel and paver remains in situ with little or no maintenance requirements. The retained gravel finish, when installed correctly will provide a hard-wearing, robust and permeable free draining surface that would have an expected lifetime of many years. Please see our installation and design guidance documents for further information.

PP40 porous pavers are supplied in easy to handle square grids which interlock with adjacent paving grids to create a stable and robust surface. The plastic pavers have a 40mm deep open honeycomb structure which promotes and allows excellent interlock between angular stone/gravel particles where a gravel pavement is required. Pavers have integral 25mm ground spikes that provide additional support and negate lateral displacement which is key where moving vehicles are in operation.





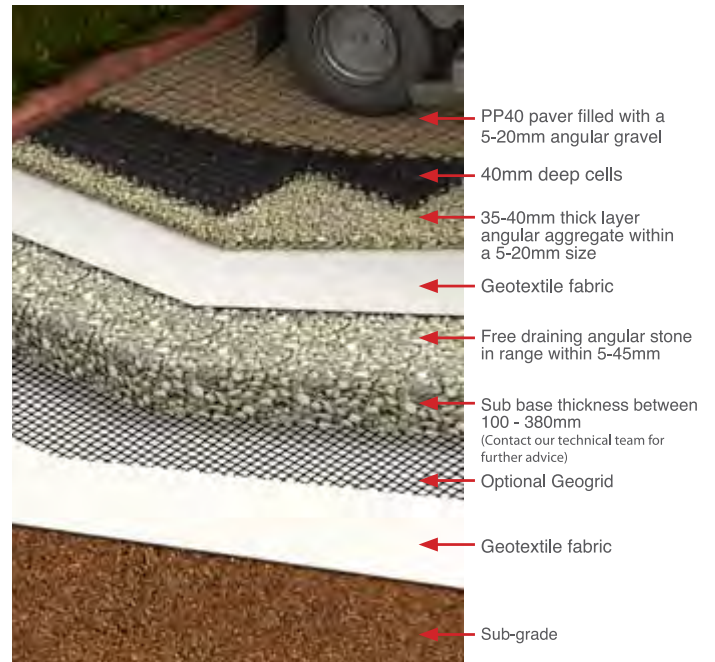
For technical and installation information visit:
www.grassreinforcement.com.au/product/pp40-gravel



PP40 paving grids have been manufactured using specially selected 100% recycled plastics that have the qualities that are required for a strong, long-lasting, stable product suitable for the designed traffic load. These include:-

- UV stabilisation to stop degradation by sunlight.
- Tested to 150T/m², capable of withstanding cars, vans, trucks and lorries.
- Paver profile allows expansion on warmer days or in direct sunlight when required to stop lifting.
- Plastic selection to allow use in cold temperatures – some plastic will become fragile when cold.
- Open structure to allow unhindered water permeability.
- Paver design maximises support and stability from either a gravel or a grass root structure.
- All plastics used are stable, chemically inert and are not toxic so are suitable for normal soil conditions.

PP40 porous plastic paving grids have been designed to meet the demands laid down by local government regarding flood alleviation and WSUD requirements (Water Sensitive Urban Design).



PP40 pavers provide a porous / permeable pavement surface that allows rainwater / flood water to infiltrate through the paver surface and fill material into the subgrade below. PP40 can be used as part of a source control layer within a WSUD design.

Product Range

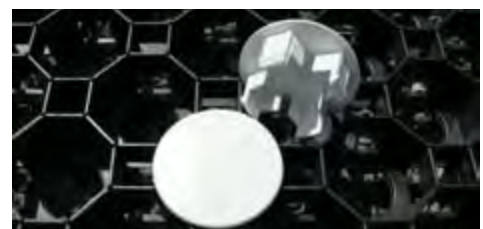
Laid size for 4 grids cover 1m²

Product	Size (outer)	Grid per m ² laid	Paver Cell Depth	Load bearing Strength Capacity	Material	Colour
PP40 Porous Paver	500mm x 500mm	4	40mm	150T/m ²	100% Recycled PP/PE	Green

Parking Markers

Clip in plastic markers can be used to mark parking spaces in parks or provide directional information.

Product	Colour
Plastic Markers	White





ECONOGRID 40™

POROUS PAVER



EconoGrid40™ is an economical porous reinforced grass paver used for creating permeable driveways, pedestrian and road paths. It makes a great alternative to concrete and suitable for grassed and gravel areas. EconoGrid40™ meets the demands and loads imposed across a wide range of vehicle loads, frequencies of use and site conditions.

Applications:

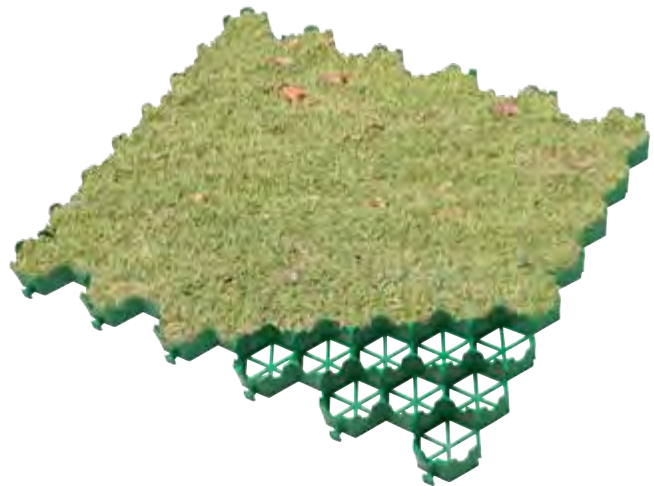
- Parking areas, grass or gravel
- Nature strip
- Caravan parks
- Emergency vehicle access
- Horse and livestock stables
- Car and Bus access

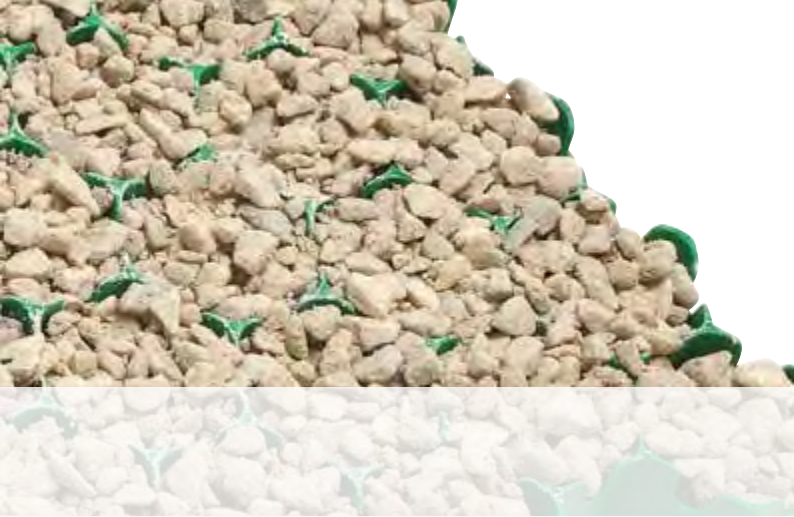
The 40mm cells on the EconoGrid40™ protect the grass roots from damage. The indent cell design allows grass runners to grow from cell to cell resulting in stronger and thicker grass surface.

EconoGrid40™ provides a vehicle access solution that costs less than concrete and is pervious enabling you to comply with soft landscaping regulations. Councils can require over 15% of commercial property to be soft landscape and up to 40% for residential.

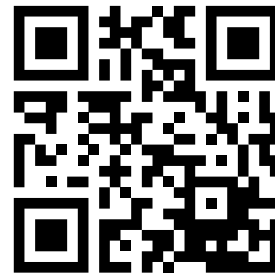
Porous Paving systems reduce the need for expensive drainage solutions and storm water retention requirements whilst replenishing water to landscape areas and presenting an aesthetically pleasing site. Rainfall infiltrates into the ground minimising water run off.

Designed as a DIY installation All Stake Supply provides detailed downloadable installation instructions at www.grassreinforcement.com.au. Alternatively we can arrange landscape companies to install the grass protection products.





For technical and installation information visit:
www.grassreinforcement.com.au/econogrid-40



Features:

- Load bearing capacity up to 150 t/m²
- Manufactured from 100% high density polyethylene
- Tested in accordance with ASTM D1621-10
- Aesthetically pleasing and free draining reinforced surface
- Indent cells allow grass to spread and grow unencumbered
- Unique Interlocking system lends to a faster installation process
- Allowing you to park on grass

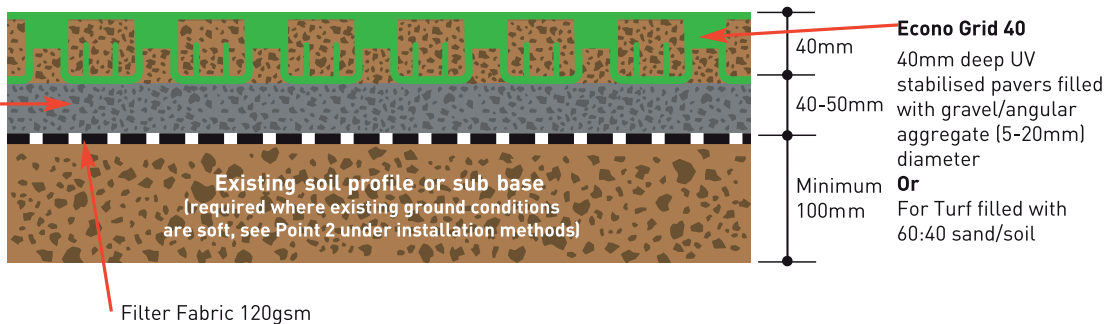


Underlay for Gravel Surfaces

40-50mm thick layer of 10-20mm diameter, angular gravel or crushed aggregate

Underlay for Grass Surfaces

40-50mm thick layer of 60:40 sand/soil



Disclaimer: Please note that the information is given as a guide only. All sizes and weights are nominal figures and may vary to what is published. Specifications on each site will be different so the final determination of the suitability of any information or material for the use contemplated and the manner of its use is the sole responsibility of the user and the user must assume all risk and responsibility in connection therewith.

Product Details

Product	Dimensions (mm) (L x w x d)	Grids per m ²	Weight	Material	Colour
EconoGrid40™	638x532x40mm	3 pavers	1.36kg per paver	Recycled polyethylene	Green

* All data and measurements are nominal



TRUCKGRID

HEAVYDUTY POROUS PAVERS



TruckGrid porous pavers are designed to be filled with gravel and provide a permeable pavement surface capable of withstanding heavy weight vehicles that not only impose a vertical load-bearing force, but a dynamic force as vehicles drive over the surface.

Applications / Uses:

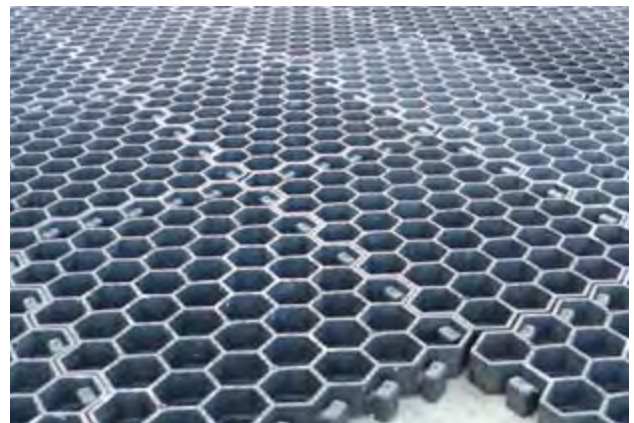
- Industrial / Factory yards / outside storage areas
- HGV loading areas
- Forklift truck access areas
- Coach and Bus parking
- Car Parks
- Access Roads
- Fire Access Lanes

Manufactured from recycled plastics, the plastic grids have a positive interlock which provides structural integrity. TruckGrid plastic grids should be installed onto a well-prepared stone sub-base. This subbase should be deep enough to support the required loads, and should be free draining to allow the water to permeate through the plastic grids, gravel, sub-base and into the sub-grade beneath. Please contact us for full installation guidance.

Features:

- Tested to DIN 1072, SLW 60
- Load-Bearing 10 tonnes per wheel / 20t axle loads
- Interlocking connections
- Thick 5mm cell walls
- Heavy weight 10.5kg/sqm

Councils can require 15% of commercial property to be porous or soft landscape. TruckGrid can satisfy this local government requirement whilst also providing a functional 24 hour vehicle access parking or forklift storage area.





For technical and installation information visit:
www.grassreinforcement.com.au/product/truckgrid



Each recycled plastic porous paving grid is 50cm x 40cm in size, making 5 grids per square metre.

TruckGrid provides heavy-weight ground reinforcement and stabilisation where vehicles impose a vertical and dynamic load as they drive over the area.

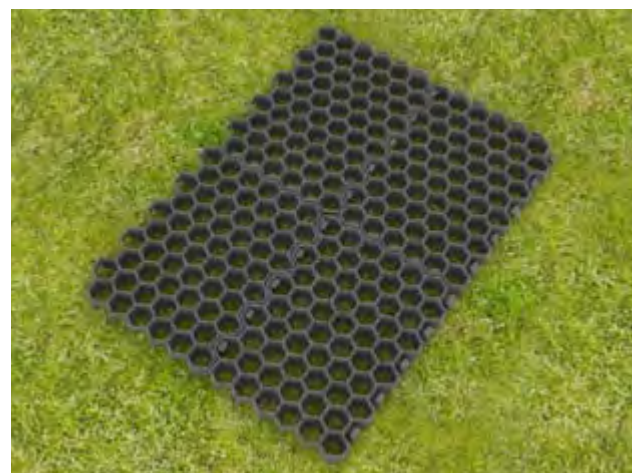
TruckGrid porous plastic paving grids can be included in your flood alleviation and WSUD (Water Sensitive Urban Design) solution. TruckGrid permeable pavers provide a porous / permeable pavement gravel surface that allows rainwater / flood water to infiltrate through the surface and fill material into the sub-grade below. The pavers are designed to be used as part of the source control element within a WSUD system.



Product Details

Grid Size	400mm x 500mm
Grid Cell Depth	40mm
Cell Wall Thickness	5mm
Weight	10.5kg/sqm
Material	Recycled HDPE
Load Bearing	20t axle loads
Colour	Black

* All data and measurements are nominal.





TRUCKGRID-MAX

HEAVYDUTY POROUS PAVERS



TruckGrid-MAX porous pavers are designed to be filled with gravel and provide a permeable pavement surface capable of withstanding heavy weight vehicles that not only impose a vertical load-bearing force, but a dynamic force as vehicles drive over the surface.

TruckGrid-MAX provides a porous permeable surface that can meet heavy loading needs and can be used as part of a WSUD programme and so not contributing to / and adding to water overspill and flooding.

Typical Applications:

TruckGrid-MAX 80 nonslip are porous pavers that provide a solution to a wide range of trafficking needs. The applications and benefits would include:

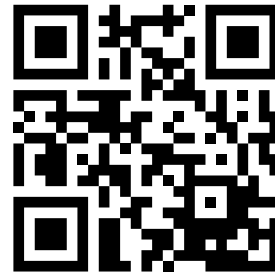
- Intensive use car parking
- Truck parking
- Coach parks
- Heavy use pedestrian paths
- Fire access routes
- Loading bays
- Access routes for pumping stations, solar farms and electric relay stations.
- Drives and Driveways where access to septic or oil tanks is needed

TruckGrid-MAX porous pavers can be filled either with a gravel or a suitable sand / soil mix for a grassed finish. The gravel should be 5mm to 10mm mixed sharp angular aggregate. Both finishes will give a very stable, hardworking and free draining working surface. The design of TruckGrid-MAX allows excellent stability resisting and negating dynamic and lateral loadings so the gravel or soils and paver remains in situ with little or no maintenance requirements.





For technical and installation information visit:
www.grassreinforcement.com.au/product/truckgrid-max



TruckGrid-MAX, when installed correctly will provide a hardwearing, robust and permeable free draining surface that would have an expected lifetime of many years. Please see our installation and design guidance documents for further information.

TruckGrid-MAX is supplied with a non-slip surface to entertain where the product would be installed on an incline. Please contact the technical team for guidance.

TruckGrid-MAX has been manufactured using 100% recycled plastics that have the qualities that are required for a strong, long-lasting, stable product suitable for the designed traffic load. These include:

- UV stabilisation to stop degradation by sunlight.
- Capability to withstand movements and loadings of cars, vans, trucks, dustcarts, cranes, cherry pickers and forklifts.
- Plastic selection to allow use in cold temperatures – some plastic will become fragile when cold.
- Open structure to allow unhindered water permeability.
- Paver design to maximum support and stability from either a gravel or a grass root structure.

TruckGrid-MAX porous plastic paving grids have been designed to meet the demands laid down by local government regarding flood alleviation and WSUD (Water Sensitive Urban Design), requirements. TruckGrid-MAX pavers provides a porous / permeable pavement gravel surface that allows rainwater / flood water to infiltrate through the paver surface and fill material into the subgrade below.



Product Details

Product	Dimensions (mm) (l x w x d)	Grids per m ²	Weight	Material	Colour
TRUCKGRID-Max 80	600 X 400 X 80	4.17	9	Recycled Plastic	Grey

* All data and measurements are nominal