

GROUND CONTROL THAT WORKS

YOUR ESSENTIAL GUIDE TO GRASS AND
GRAVEL STABILISATION



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GRASS AND GRAVEL
GRID SYSTEMS



GROUNDINGS

EARTHWORX™

GROUND CONTROL THAT WORKS



GROUND CONTROL
THAT WORKS

IDEAL
FOR



CARAVAN PARKS



GOLF COURSES



DRIVEWAYS

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EARTHWORX Groundrings is a plastic modular grid system with different panels for reinforcement and stabilisation of grass and gravel surfaces.

All Groundrings products are manufactured using 100% recycled and recyclable, UV stabilised plastic.*

The unique ring design has been selected for its optimum strength when used in grass or gravel paving as it has no weak corners and is suitable for pedestrian and vehicular traffic. Groundrings panels, once installed create a fully permeable layer offering a natural alternative to hard landscaped surfaces. This porous and free-draining design eliminates water run-off thus reducing demand on surface water drainage systems and making it suitable for use in SuDS (sustainable urban drainage systems) compliant schemes.

Whether installing a Grass or Gravel module, Groundrings panels are very quick to lay, providing a cost effective solution when compared to other porous hard landscape surfaces. The unique but simple clip mechanism makes the panels very easy to join together. Grass and Gravel panels are compatible meaning they can be used together on mixed schemes. Joints can be staggered and panels easily cut to follow borders and edgings to minimize wastage.

* White panels are made from part recycled material



USE EARTHWORX GROUNDINGS IN CONJUNCTION WITH...



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EARTHWORX Groundrings Gravel panels are an effective method of containing and stabilising loose aggregate surfacing. This helps to prevent gravel migration, sinking and rutting and makes it possible to walk, cycle and push wheeled vehicles (e.g. wheelchairs and pushchairs) over the surface.

The unique design of the grid includes an open mesh base which allows water to pass through whilst preventing the build-up of silt and fine debris within the cell. This prevents the aggregate working its way underneath the grid, causing it to lift and making it very difficult to rectify.

- Unique ring design = optimum strength
- Excellent load bearing capacity
- Suitable for pedestrians and vehicles
- Open mesh base = no silt build up
- Fully permeable gravel surface
 - Prevents gravel migration, sinking and rutting
 - Quick and easy to install
 - 25mm deep = uses less gravel
 - Fully compatible with Grass panels

INSTALLATION GUIDELINES

1. Excavate soil (sub-grade) to the required depth (allowing for sufficient depth of sub-base material and the panels / surface finish).
2. Lay DRAINTEX or DRIVETEX geotextile fabric as per instructions for relevant product.
3. Secure using EXTRAFIX fixing pegs.
4. Lay stone sub-base layer (e.g. MOT Type 1 or 3 - Type 3 must be used for porous installations) to the required depth, compact and level to engineer's specification.
5. Blind the surface with a layer of sharp sand or granite fines to level out any undulations in the sub-base before laying the panels.
6. Lay the Groundrings Gravel panels over the base with the mesh side down and clip together. Fix down using Groundrings Fixing Pins (if required). It is recommended that fixing pins are used on slopes, edges, turning circles, cross-overs and any areas more exposed to regular traffic. The number of pins required will depend on the application and site conditions but as a guide allow 1 pin per panel (4 per m²).
7. Leave a gap (min 50mm) when adjoining a kerb or any other type of fixed edging, obstruction or structure, to allow for expansion of the panels.
8. Spread the final gravel surface over the panels to a depth of approx 10-15mm higher than the top edge of the rings, so that they are concealed.
9. Rinse the gravel with water (if required) and lightly compact the gravel to aid settlement and consolidation.

NOTES: These instructions are provided as a guide only and do not offer any warranty (express or implied) since the site conditions and requirements can vary.



TECHNICAL DATA

Panel Size	500mm x 500mm
Panel Depth	25mm (+ mesh base = 28mm overall)
Cell Diameter	50mm
Gravel Size (recommended)	6mm - 20mm (angular only)
Gravel Demand	45 - 50kg per m ²
Material	100% recycled*, UV stabilised HDPE
Resistance	Chemical resistant
Colour	Black (white available to order)
Load Bearing Capacity	350 tonnes per m ²

* White panels are made from part recycled material

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EARTHWORX Groundrings Grass panels are an effective method of stabilising and reinforcing grass surfaces. This helps to prevent compaction of the root zone layer, enabling the grass roots to obtain the necessary oxygen, moisture and nutrients they need from the soil to survive.

The unique open grid structure of the panel provides over 90% root development area, meaning the roots can grow laterally without hindrance, resulting in 100% grass cover. This modular system is suitable for grass parking areas that are subject to infrequent use only, such as overflow car parks, access roads etc. It is not recommended for parking areas with permanent or regular use.

- Unique ring design = optimum strength
- Excellent load bearing capacity
- Suitable for pedestrians and vehicles
 - Open grid structure = lateral root growth
 - Fully permeable grass surface
 - Prevents compaction of root zone
 - Quick and easy to install
 - Flexible = can follow undulations
 - Fully compatible with Gravel panels

INSTALLATION GUIDELINES

1. Excavate soil (sub-grade) to the required depth (allowing for sufficient depth of sub-base material plus 50mm). The depth of the sub-base will vary depending on the intended use and engineer's specification. As a guide it should be a minimum of 75-100mm for pedestrians, 100-150mm for light vehicles and 200-300mm for trucks.
2. Lay DRAINTEX or DRIVETEX geotextile fabric as per instructions for relevant product.
3. Secure using EXTRAFIX fixing pegs.
4. Lay stone sub-base layer (clean angular load bearing stone without clay fines) to the required depth, compact and level to engineer's specification, 40-50mm below the final finish level.
5. Add and spread evenly a thin layer (20-30mm) of sand (rounded root zone sand with an even sized particle distribution) and wash or roll into the sub-base until the stone is almost visible.
6. Evenly spread a layer of water storing polymer at a rate of 4kg per 100m² (using a mechanical rotary spreader).
7. Lay the Groundrings Grass panels over the base and clip together. Cut around obstructions, trees, kerbs etc leaving a gap (min 50mm) to allow for expansion.
8. Evenly spread a grass starting fertiliser (see tech data) at a rate of 7kg per 100m² (using a mechanical rotary spreader).
9. Half fill (approx 15mm) the rings with a suitable root zone mix (see tech data).
10. Spread grass seed (see tech data) at a rate of 5kg per 100m² (using a mechanical rotary spreader).
11. Finish filling the rings with the root zone material using a large broom to ensure the top edge of the rings remains exposed.
12. Fertilise the seeded area again (see tech data) at a rate of 7kg per 100m² (using a mechanical rotary spreader).
13. After installation the area must be kept moist. Consideration should be given to additional watering during extended periods of dry weather. The area must be protected from traffic for a minimum of 8 weeks or two cuts until the grass has fully established. Regular maintenance will be required including watering and fertilising in the spring/summer. The grass should be cut at approx 50mm and certainly no less than 30mm.

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TECHNICAL DATA

Panel Size	500mm x 500mm
Panel Depth	30mm
Cell Diameter	50mm
Pre-Seed Fertiliser (recommended)	10% nitrogen, 15% phosphate and 10% potassium
Root Zone (recommended)	70% sand & 30% recycled compost mix - pH 6.5 - 7.2
Grass Seed (recommended)	Greenvelvet® Watersaver by Barenbrug
Material	100% recycled, UV stabilised HDPE
Resistance	Chemical resistant
Colour	Black
Load Bearing Capacity	350 tonnes per m ²

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