

Introduction to ACO GroundGuard

ACO GroundGuard is manufactured from 100% recycled polyethylene and provides a lightweight ground reinforcement system for grass or gravel stabilisation.

This type of surface helps to reduce the risks of potholes, rutting or grass damage.

The system is exceptionally lightweight and strong, making it easy and quick to install, and suitable for a wide range of applications including paths, drives, parking areas and access routes.

ACO GroundGuard has been tested and certified to a loading of 250 tonnes per square metre.

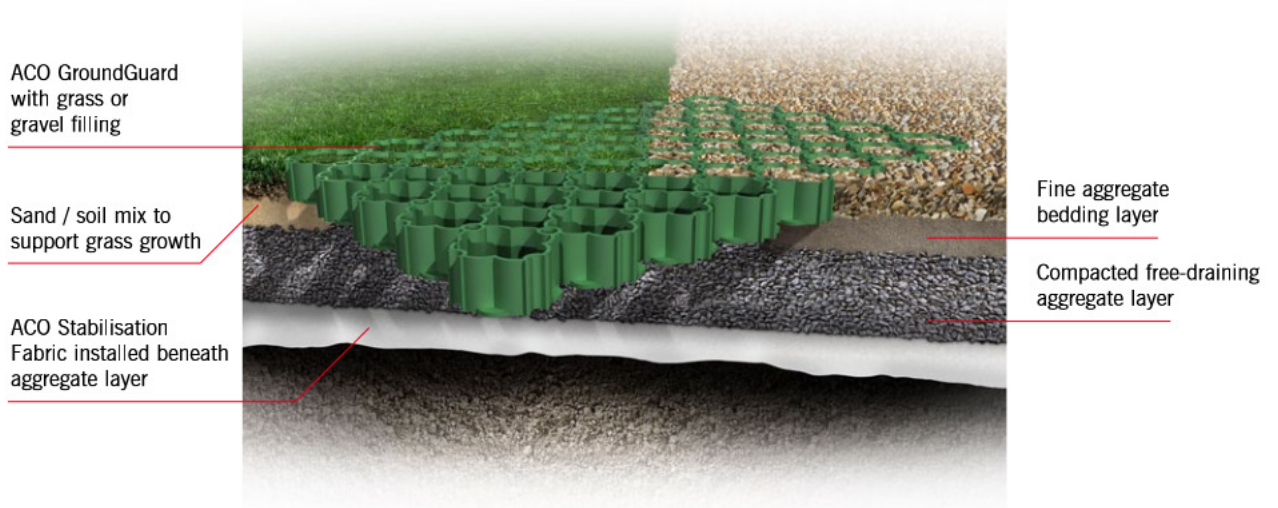
In addition, ACO GroundGuard offers unimpeded flow to surface water, reducing the rate of run-off and potentially saving cost on unnecessary drainage installation.



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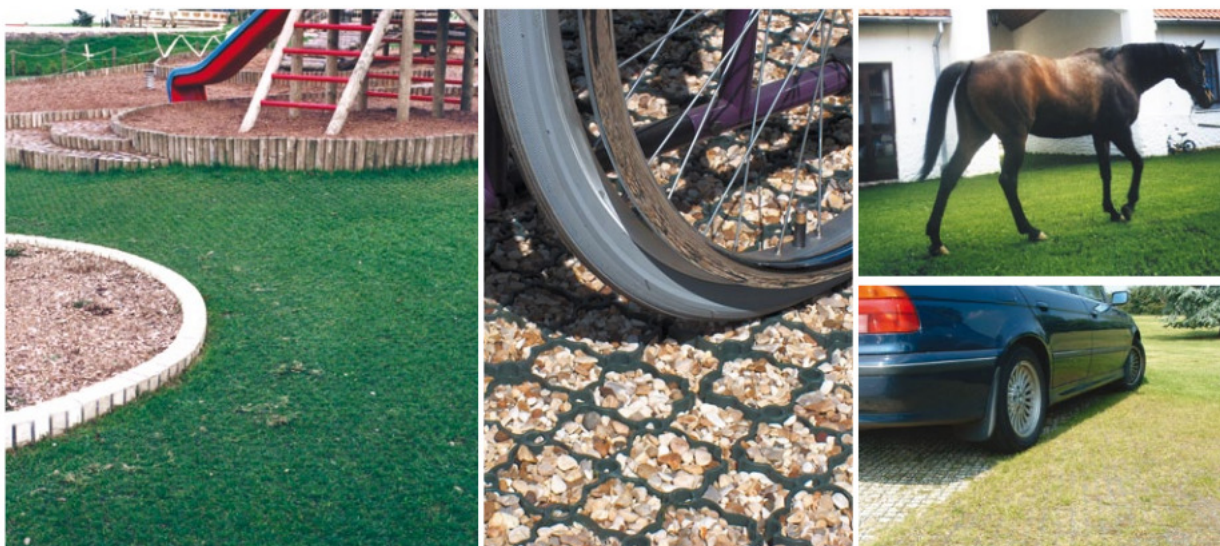
A typical installation of ACO GroundGuard



Suitable applications

ACO GroundGuard can be used to provide ground reinforcement for a range of applications including:

- ▶ Domestic drives
- ▶ Paths
- ▶ Driveway & building access
- ▶ Private and public parking areas
- ▶ Stables
- ▶ Access routes
- ▶ Caravan parks



Key features and benefits

- ▶ Ideal for stabilising grass or gravel
- ▶ Provides a natural surfacing solution
- ▶ Eliminates risk of potholes, rutting or grass damage
- ▶ Quick and easy to install
- ▶ Ideal solution for paths, drives, parking areas and access routes
- ▶ Can satisfy heavy duty parking applications
- ▶ Parking bay markers available
- ▶ Compliant with Building Regulations Part M and Section 4 (Scotland)
- ▶ Provides effective drainage of surface water
- ▶ 100% recycled plastic
- ▶ Suitable for gradients up to 5% when pegged

ACO STABILISATION FABRIC

ACO Stabilisation Fabric is designed to be used in conjunction with ACO GroundGuard to separate and stabilise the underlying drainage layers. One roll of the non-woven polypropylene material covers 20m².

- ▶ Fully porous material
- ▶ Manufactured from lightweight non-woven polypropylene
- ▶ Supplied in 2m x 10m roll
- ▶ Easily handled 1m roll unfolds to 2m width
- ▶ Installation instructions included on reverse of label

ACO GroundGuard overview

Manufactured from green 100% recycled polyethylene

Product design ensures easy handling and installation

1 pallet = 25.2m²

112 tiles per pallet

Strong, robust system certified to 250 tonnes per square metre

ACO GroundGuard offers unimpeded flow to surface water

Specification: 4.42 tiles per square metre

Light weight – 1.25kg per tile

Tiles interlock with clip-together fixings

Tiles can easily be cut to shape for irregular edging

ACO GROUNDGUARD ACCESSORIES

White parking bay markers

Push fit into GroundGuard cells to mark out spaces for parking



ACO Stabilisation Fabric

Use with ACO GroundGuard to separate and stabilise the underlying drainage layers



ACO 180mm steel nail



ACO GroundGuard

Product code	Description	Length mm	Width mm	Depth mm	Weight kg
810/0	ACO GroundGuard tile	585	385	38	1.25
810/2	White parking bay marker	-	-	38	0.1
81073	ACO 180mm steel nails (Bag 50)	180	6	-	1.3

ACO Stabilisation Fabric

Product code	Description	Length m	Width m	Depth mm	Weight kg
44750	Stabilisation Fabric	10	2	-	2.25

Note: One roll of ACO Stabilisation Fabric will cover 20m².

ACO GroundGuard installation guide

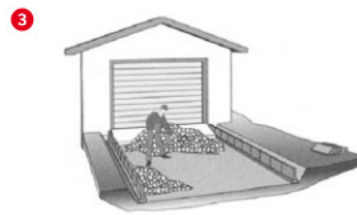
This guide gives general advice on installing ACO GroundGuard. Independent advice should be sought regarding installation in specific locations.



Depending on soil conditions and intended use of the area to be stabilised, dig out the existing base e.g. typically for light vehicle traffic / parking areas, 200-300mm will suffice. With heavy wheel loads or a clay soil, 400mm may be necessary. **NB. Seek independent engineering advice to determine required sub-base thickness and what drainage may be needed.**



If using concrete edging pieces, install them next. If using ACO BorderGuard, install these between steps 4 and 5.



Compact the sub-base using a plate compactor. Fill the excavated area with free draining gravel or crushed stone to 100mm (grass) or 80mm (gravel) below the finished level. Tamp down with a roller or plate compactor.



Level the area with a layer of fine aggregate or for grass sieve sand/soil* mix. Level using a rail or wooden batten and compact as shown in the diagram below.



If using ACO BorderGuard to edge the area, install it at this stage. Install ACO GroundGuard tiles along the length of the area. Then assemble ACO GroundGuard laterally. Interlock the fastening clips. For best performance the tiles should be laid in a staggered pattern rather than a grid pattern. Please refer to the diagram below.



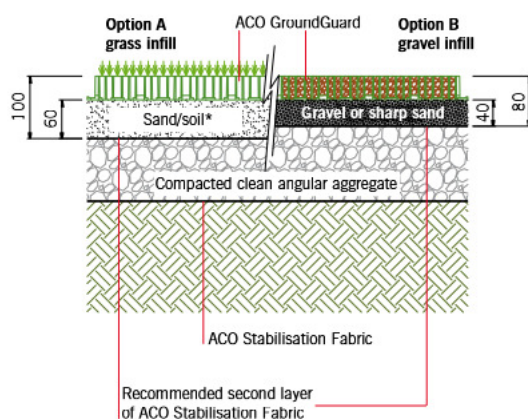
If using ACO GroundGuard nails, peg every other tile using two nails per tile through the holes at the corner. ACO GroundGuard may be used on slopes up to a maximum of 5°: in this case every tile should be pegged in the way described previously.

Fill in the ACO GroundGuard tiles with the chosen finish. For highly trafficked areas we recommend using a lawn seed suitable for parking use, typically a mix of ryegrass and fescue as recommended locally. If you wish, gravel can be used as fill instead. 6-14mm gravel is recommended.

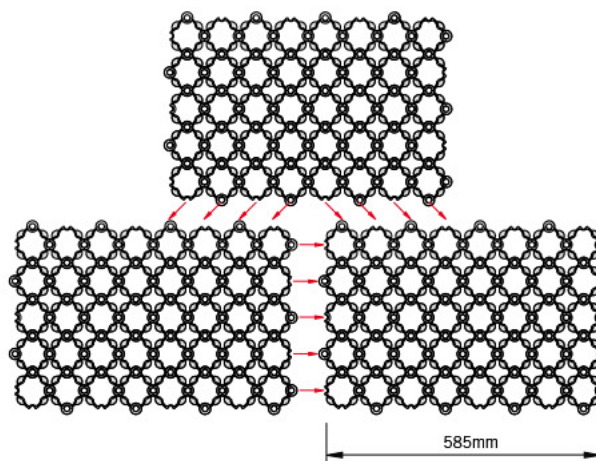
ACO GroundGuard nails

If the tiles need pegging, please contact the ACO Water Management Design Services Team for further information.

ACO GroundGuard installation incorporating ACO Stabilisation Fabric.



ACO GroundGuard correct installation pattern



Full installation instructions are provided on the reverse of the pack label.

*Typically a 70/30 ratio