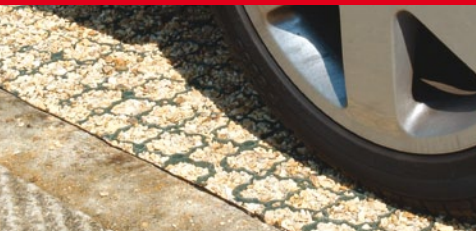
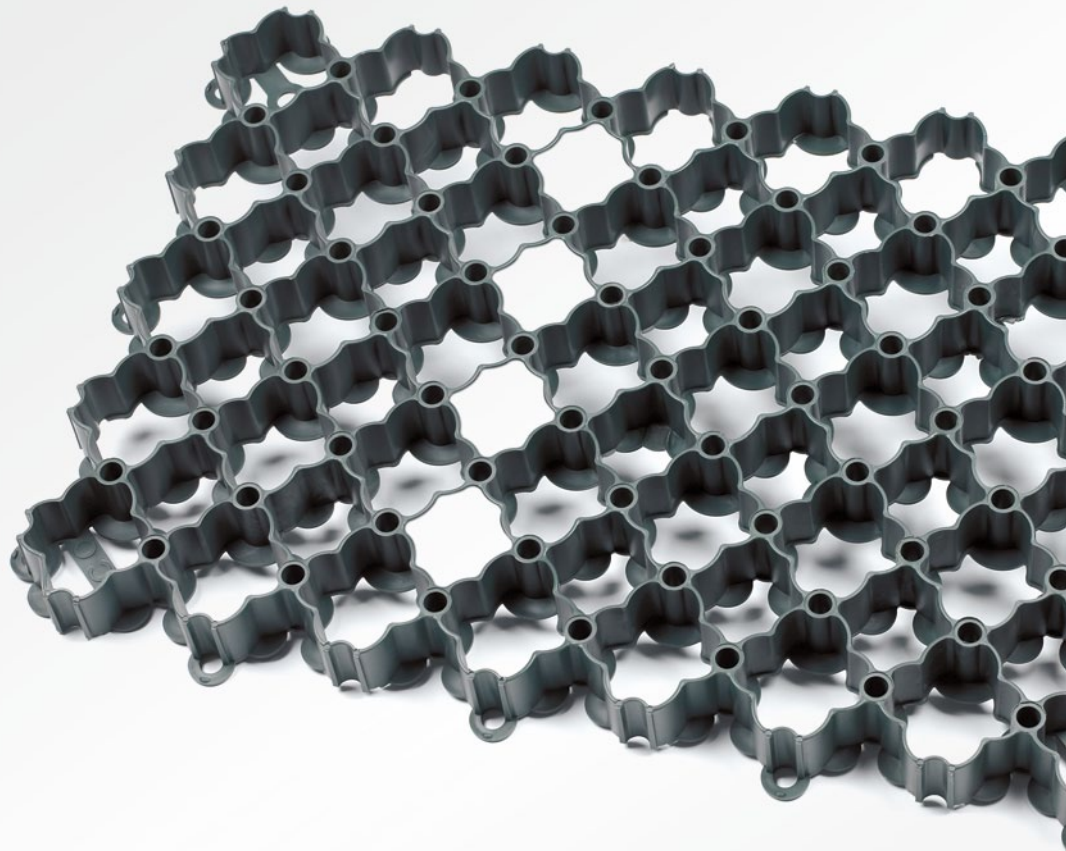


Uniclass L814	EPIC Q11
CI/SfB (90.41)	X

## ACO Water Management: Urban + Landscape

ACO GroundGuard  
ACO Stabilisation Fabric  
ACO BorderGuard



*Smart surfacing and easy edging*

**ACO GroundGuard, ACO Stabilisation Fabric  
and ACO BorderGuard**



# 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.



2

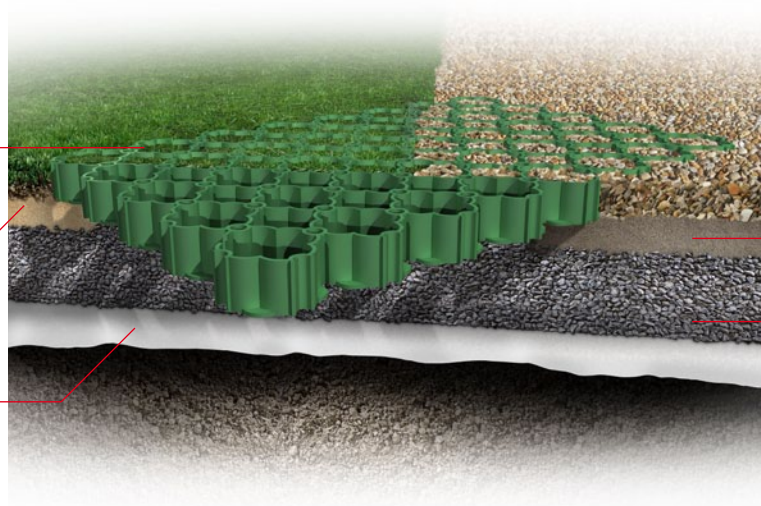


## A typical installation of ACO GroundGuard

ACO GroundGuard with grass or gravel filling

Sand / soil mix to support grass growth

ACO Stabilisation Fabric installed beneath aggregate layer



Fine aggregate bedding layer

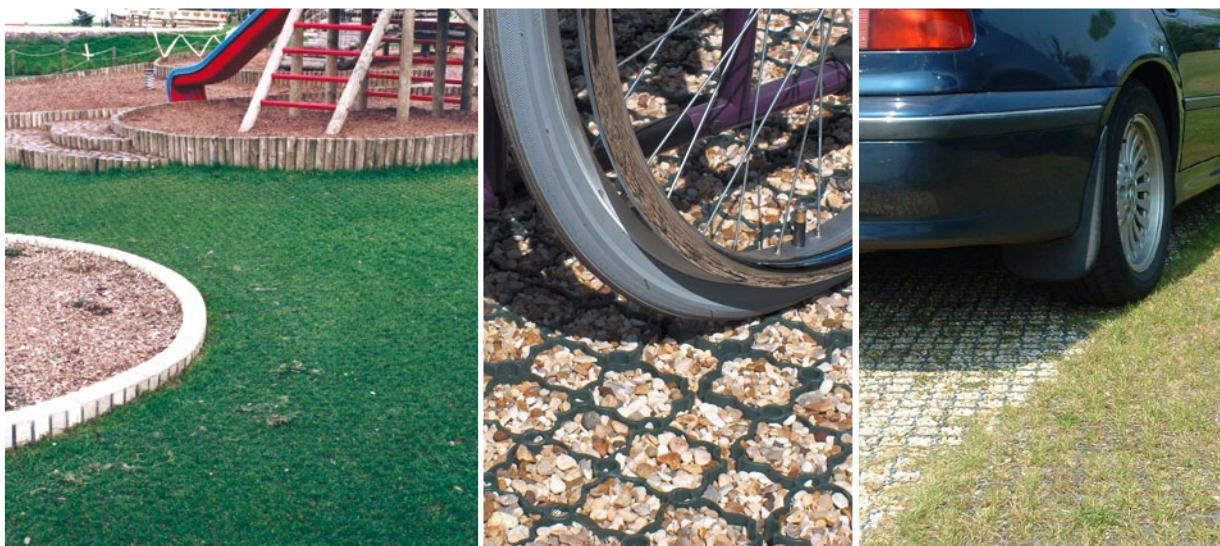
Compacted free-draining aggregate layer



## 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
- ▶ 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 20m<sup>2</sup>.

- ▶ 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 = 25.2m<sup>2</sup>

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
81070	ACO GroundGuard tile	585	385	38	1.25
81072	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

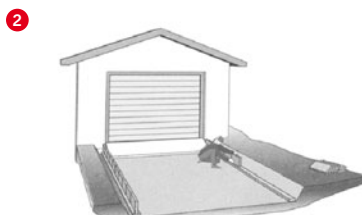
Note: One roll of ACO Stabilisation Fabric will cover 20m<sup>2</sup>.

# ACO GroundGuard installation guide

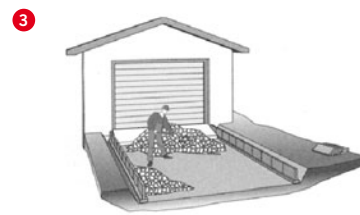
This guide gives general advice on installing ACO GroundGuard. Independent advice should be sought regarding installation in specific locations.



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, crushed stone or a suitable permeable formation 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.



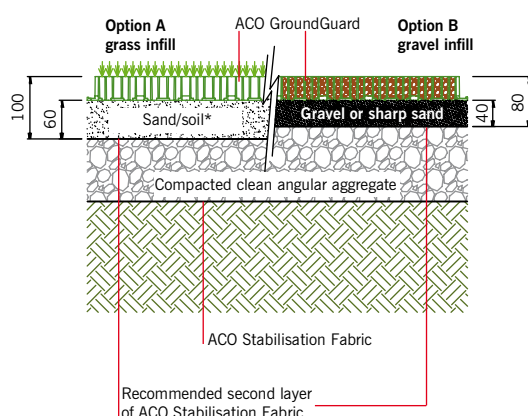
If using ACO GroundGuard nails, peg every other tile using two nails per tile through the holes at the corner. ACO GroundGuard may be used on slopes up to a maximum of 5°: in this case every tile should be pegged in the way described previously.

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.

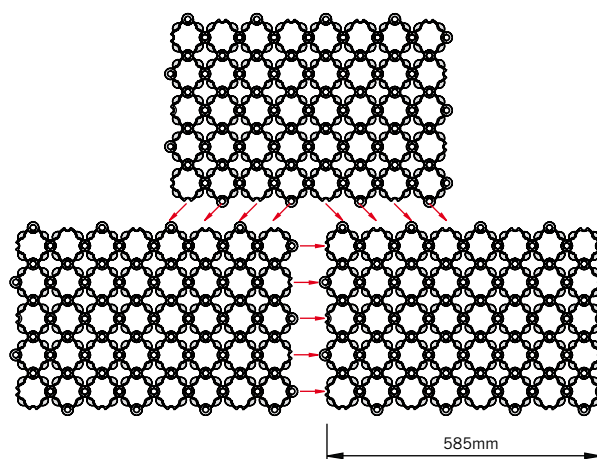
## ACO GroundGuard nails

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



# Introduction to ACO BorderGuard

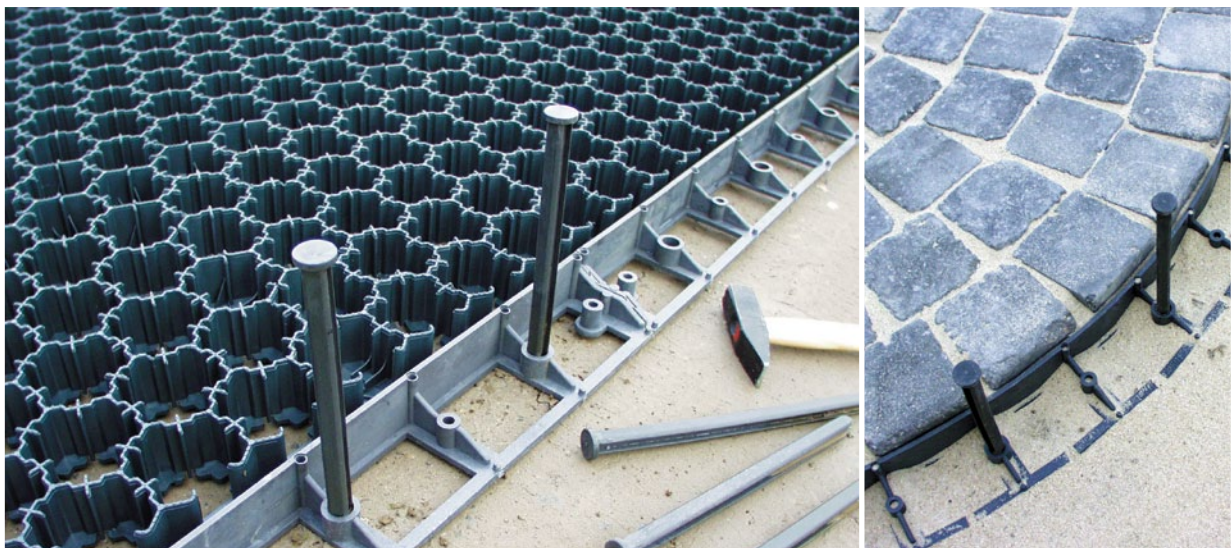
Whether you're edging your patio, garden path, or an ACO GroundGuard-reinforced parking area, ACO BorderGuard gives you a perfect, aesthetically pleasing finish. ACO BorderGuard prevents your slabs and block pavements from moving due to frost, vehicle or pedestrian movement.

Manufactured from 100% recycled materials, ACO BorderGuard is light and easy to work with, offering rapid and simple installation.

Once installed, the slim vertical edge is virtually invisible as it is hidden by soil or lawn. So you can use ACO BorderGuard with any choice of ground covering, whether it's lawn, flowerbed, or bark chips.

Thanks to its flexibility, ACO BorderGuard can be used for straight lines, curves or even 90-degree corners.

Installation is far faster than with concrete haunching and, unlike traditional methods, allows you to grow grass or bedding plants right to the edge of your paving, making the most of your garden and eliminating unsightly concrete.



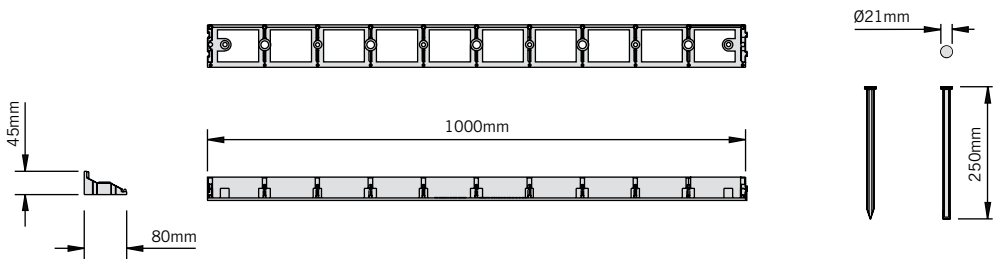
## Why use ACO BorderGuard?

- ▶ Simple, quick installation
- ▶ 100% recycled
- ▶ Professional, unobtrusive finish
- ▶ Light weight (less than 400 grams per metre)
- ▶ Easily cut to size
- ▶ Easily edges corners and curves
- ▶ Compatible with paving slabs, block paving and ACO GroundGuard grass reinforcement
- ▶ Can be clipped together & installed in runs longer than 4m

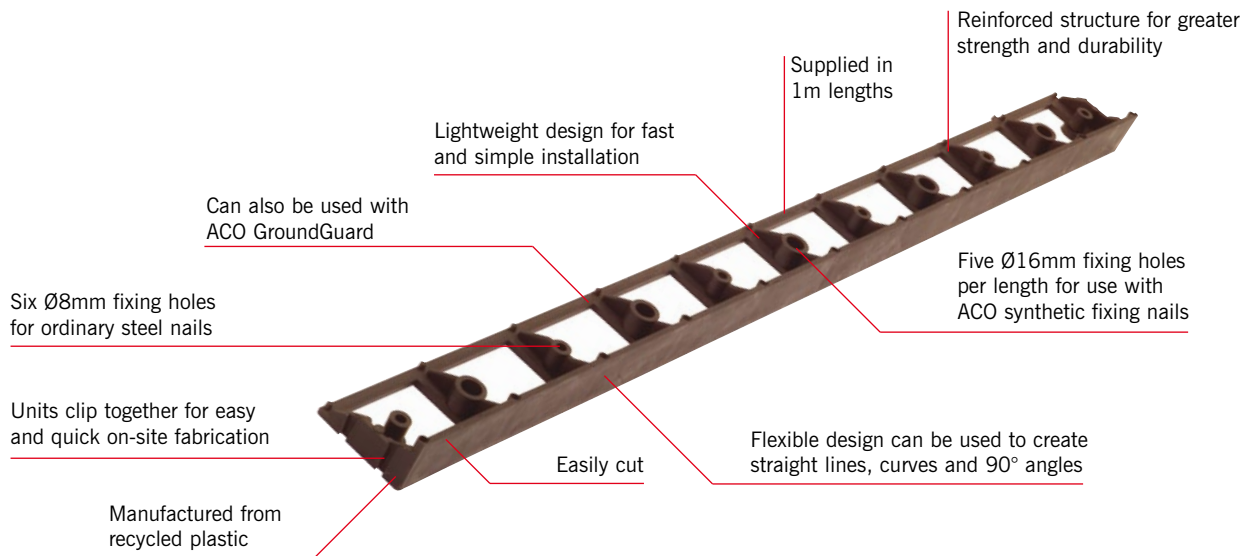
## ACO BorderGuard

Product code	Description	Length mm	Width mm	Depth mm	Weight kg
81100	BorderGuard unit	1000	80	45	0.4
81110	Fixing nails	250	14	250	0.1
81073	ACO 180mm steel nails (Bag 50)	180	6	180	1.3

Note: 3-5 nails are required per metre of ACO BorderGuard depending on ground conditions.



# ACO BorderGuard overview



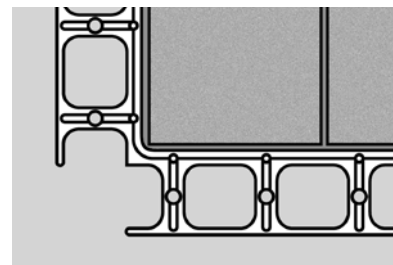
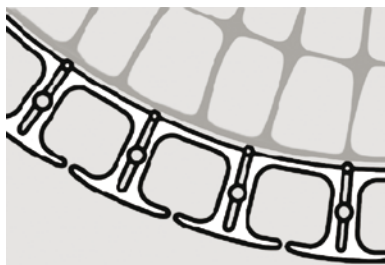
## ACO BorderGuard installation guide

ACO BorderGuard should be laid on the same bed of sharp sand or fine gravel as the paviours.

For light or ordinary soils, ACO synthetic nails should be used at a rate of 3- 5 nails per metre depending on ground conditions.

For hard, heavy soils or compacted sub-base, ACO recommends ACO 180mm nails available in bags of 50. However under certain circumstances, (eg. heavy or hard soils) it may be possible to use standard 150mm round headed steel nails available from builders merchants.

The pictures below show stages of a typical ACO BorderGuard installation.



## ACO Technologies plc

- ACO Water Management  
Civils + Infrastructure  
Urban + Landscape
- ACO Building Drainage
- ACO Sport
- ACO Wildlife

### ACO Water Management: Urban + Landscape

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