ECOGRID®

Installation Guide

Grass Fill

ECOGRID® Grass

Why EcoGrid?

- ✔ Quick and easy to install (100sqm/person/hour)
- ✔ Low handling and transportation costs (E30 94 sqm/pallet)
- ✔ High loading capacity (E50-800t/sqm)
- ✔ Patented safety locking system
- ✔ Surface reinforcement with natural drainage
- ✔ Extremely versatile (sloping and curving elements, markers range)
- ✔ Minimal maintenance
- ✔ Weatherproof and environmentally friendly
- ✔ Non-slip and crackproof
- ✔ Frost proof and UV stable
- ✔ Easy to cut with supplied edges available

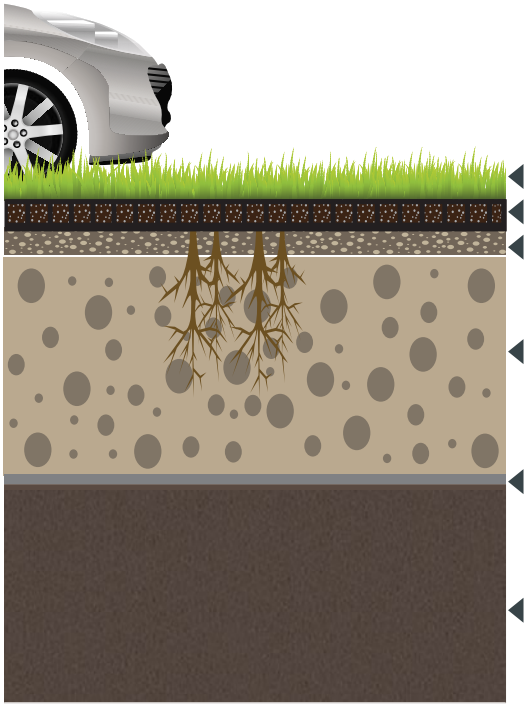
Preparations

For determining the amount of soil/sand needed you must calculate the total surface area and then use the guide below to ascertain the pro-rata volume needed.

0.051 tonnes per square metre for 30mm grids 70:30
0.068 tonnes per square metre for 40mm grids 70:30
0.085 tonnes per square metre for 50mm grids 70:30

If you choose not to build a base layer for your installation, the natural movement of the soil layer can cause unevenness. EcoGrid significantly increases the loading capacity of any surface, we always advise to follow the manufacturer's guidelines.

Example of Grass Fill Installation



- EcoGrid Grass Fill: Hard wearing grass seed, wildflower, clover etc.
- EcoGrid: S50, E50 or E40, filled with 70:30 organic topsoil and washed sharp sand.
- Rootzone layer-50/60mm: 50:50 graded topsoil and clean stone (10-20mm) compacted fully. Stone can be laid first with soil layer compacted over the top.
- Drainage stone layer 50-300mm (see CBR ratings): Type 3 reduced fines, Type 2 low fines, or clean 20mm sharp angular stone.
- EcoGrid Specified Geotextile: Must be thermally bonded factor (EN ISO 11058) and min 1500 puncture resistance (EN ISO 12236).
- Sub-Base: Excavated 1-1.5% falls to best drainage point.

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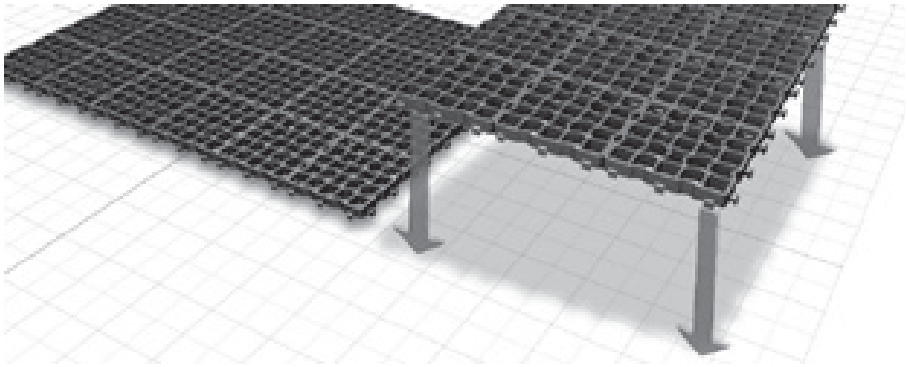
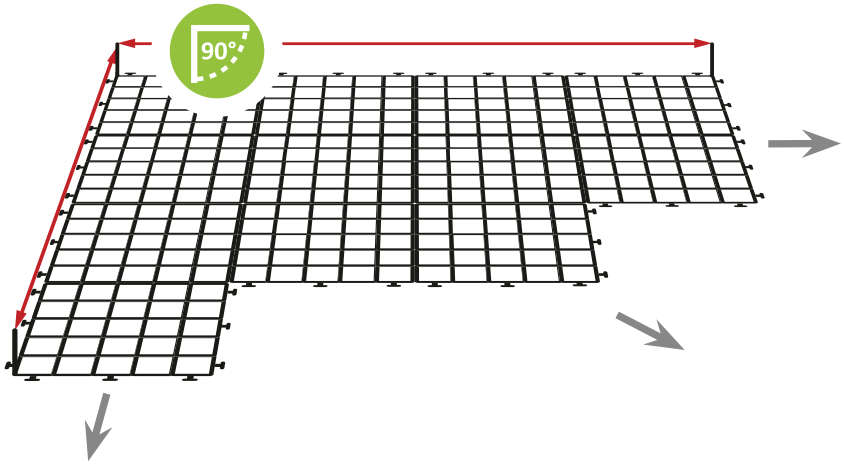
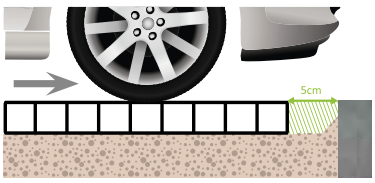
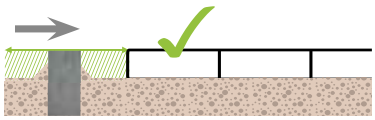


EcoGrid is both swift and easy to lay without the need for specialised machinery. The system is delivered in palletised form in layers of 12 grids or 1.33 sqm pre-locked together. These layers are taken off the pallet by one person, offered to the ground, the next layer simply snaps firmly in to place with foot pressure.

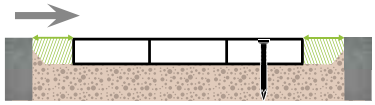




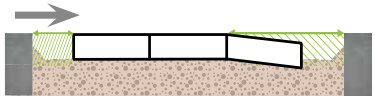
If there are kerb stones in-situ, ensure a gap of 5cm min is left for expansion.



The EcoGrid system should be laid level to surrounding kerbs, edges.



To avoid surface distortion at the edges caused by shear forces of vehicles, the EcoGrid system can be fixed with ground anchors.



As an alternative to J pins, you may also just press down the rear section of the grid.

Laying
To lay the grids, start in one corner of a wall or building and work out to the ingress/egress point or set a string-line to ensure a 90-degree angle to the house or building. NEVER lay from two different directions as this will create problems ensuring the sections join correctly.

Disconnecting
The pre-connected sheets can be taken apart, if necessary, place a line of grids, piece of timber or screed rail under the male side of the grids and press firmly down on the female side. It may also be necessary to ensure the grids are kept close together to minimise the effect of the safely locking system.

Cutting to size
It is very easy to cut the grids. The ideal method is with an angle grinder which will cut at a walking pace. A circular saw or jig saw can also be used as can a hand saw although progree would be slow.

Accessories
Curves: The EcoGrid system can form any curve from shallow to a complete circle with the use of our unique curving accessory.
Angles: The EcoGrid angle section can take any surfacing from the horizontal to the vertical.
Markers: We have both raised and flay markers to delineate parking bays, disabled symbols etc.
Edges: We have both plastic and Aluminium edges to form raised straight or curved edges.

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EcoGrid CBR Guide (California bearing rate)

A CBR is a guide to the amount of sub-base you will require relative to ground conditions and the proposed traffic.

Application loading	CBR strength of sub-grade soil	DoT sub-base thickness
Fire trucks, coaches and occasional HGV access	>6	100
	=4<6	200
	=2<4	190
	=1<2	380
Light vehicle access and overspill car parking	>6	100
	=4>6	100
	=2,4	135
	=1<2	260

Field guidance for estimating sub-grade strengths

Consistency	Indicator		Strength		
	Tackle (feel)	Visual (observation)	Mechanical (test)	CBR CU	SPT % KN/sqm
Very soft	Hand sample squeezes through fingers	Man standing will sink >75mm	<2	<1	<25
Soft	Easily moulded by finger pressure	Man walking sinks 50-70mm	2-4	1	2
Medium	Moulded by moderate finger pressure	Man walking sinks 25mm	4-8	1-2	25-40
Firm	Moulded by strong finger pressure	Utility trunk ruts 10-25mm	8-15	2-4	40-75
Stiff	Cannot be moulded but can be indented by thumb	Nil	15-30	4-6	75-150

Grass

EcoGrid Things to bear in mind

If it is likely that heavy goods vehicles will be performing tight turns on an EcoGrid surface, we do not advise a grass fill.

Seed options are available to reduce maintenance. Clove and Camomile are also good fill medium as are a variety of wildflower seeds.

Standard construction techniques with regard to expansion and contraction joints should always be observed. EcoGrid can expand substantially in hot weather conditions.

Do not lay from different areas as this may cause the jointing pattern to be offset.
Do not fill the grids until the whole installation is complete. This can cause spreading and make successive jointing difficult.

Still unsure..... No worries.

We have a technical team ready and able to answer any questions that you may have.
Give us a call 0151 639 4281 or email sales@ecogrid.co.uk

sales@ecogrid.co.uk | ecogrid.co.uk
Crystal House, 28-29 Wheatland Business Park, Wheatland Lane,
Wallasey, Wirral, CH44 7ER