PURUS PLASTICS

installation manual

ECORASTER® MICROGREEN

(ECORASTER® + substrate + seed = ECORASTER® MICROGREEN)

ECORASTER® **MICROGREEN**

Why ECORASTER®?

- Quick and easy to install (about 100 m² per person per hour) because it is lightweight (approx. 5 - 11 kg/m² depending on type)
- Low transport and handling costs
- High load capacity (up to 350 t/m²)
- Safety locking system
- Surface reinforcement with natural drainage
- Extremely versatile thanks to additional components like slope angles, Curvepieces, parking space markers
- Minimises maintenance
- Non-slip and crackproof
- Weatherproof and environmentally friendly
- Resistant to frost and UV radiation
- Easy to fit to borders or cut to shape

Preparations

Determining how much sand, broken stone etc. you need

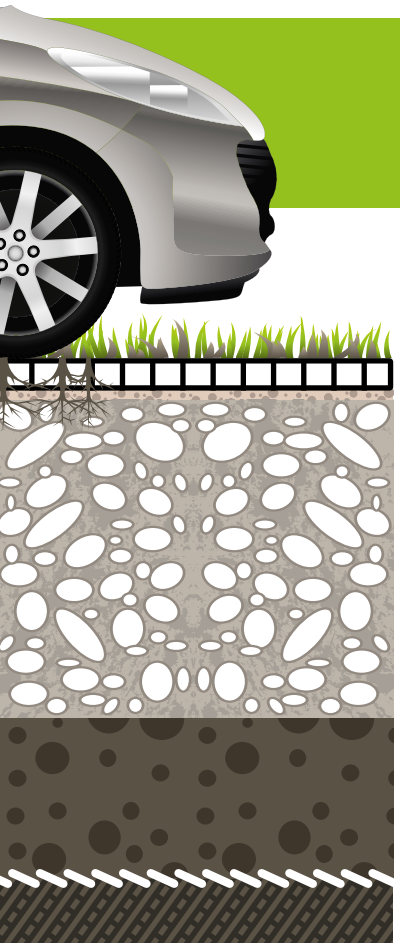
Before determining how much chippings / broken stone etc. you need, you should specify exactly the height of the surfaces. With larger surfaces you should work with a spirit level or laser.

Calculate how much you need to fill the grids as follows:

0.95 x area x grid height

If you do not build a base layer, surface drainage is not assured. Not only that, movement in the natural soil can cause unevenness. ECORASTER® considerably increases the load capacity of the surface, but it goes without saying that even ECORASTER® will be tested to its limits if the entire ground gives way extensively.

Example: car park ECORASTER® **MICROGREEN**



- ECORASTER® **MINERAL**
- **Levelling course** 3 cm [1.18 in] compacted ECORASTER Microgreen substrate
- **Draining Layer** 20 cm [7.87 in] darining gravel (0/31.5)
- **Substructure** 10 [3.93 in] to 40 cm [15.74 in] gravel (e.g. 30/60 – 40/80)
- **Anti-contaminant geotextile**
- **Foundation**

Fill in the ECORASTER

Gravel/sand/chippings: Fill in the grids with MICROGREEN substrate

Levelling course

Put on a layer of MICROGREEN substrate and level off roughly

Drainage layer

Put on broken stone grain size 5/32 mm or similary and compact (roller or plate vibrator)

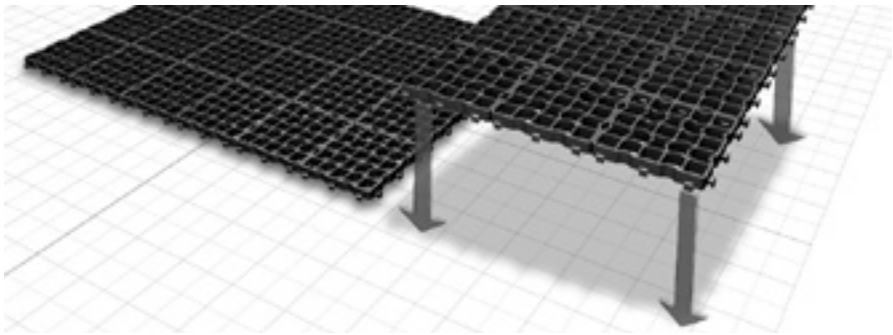
Height of broken stone for cars: approx. 25 cm

Height of broken stone for trucks: approx. 45 cm

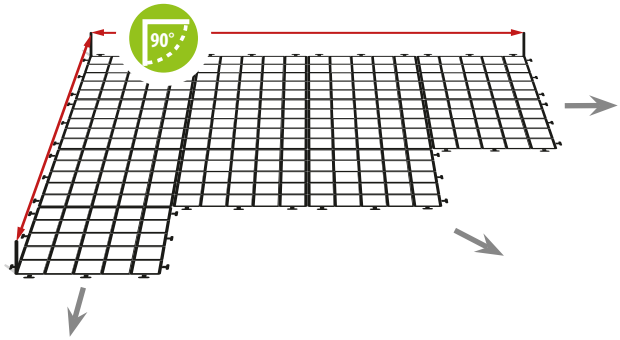
Natural soil

Create an approx. 1 - 1,5 % gradient in the ground

Working with the preconnected grids



ECORASTER® is quick and easy to lay without machinery. The system is delivered in preconnected units of 12 sections and can be taken straight off the pallet and laid in one go.



Installing

To lay the grids, start in one corner of the area. The lugs of the first row must point in the direction you are working in. The subsequent rows are then pressed into the lugs of the laid surface. We recomend to use a plumb line when installing ECORASTER.

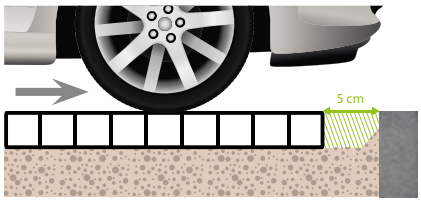
Disconnecting

The preconnected sheets can be taken apart if necessary. Lay the sheet you wish to take apart on another sheet and, using your foot, press the tiles you want to remove down and out of the safety locking system.

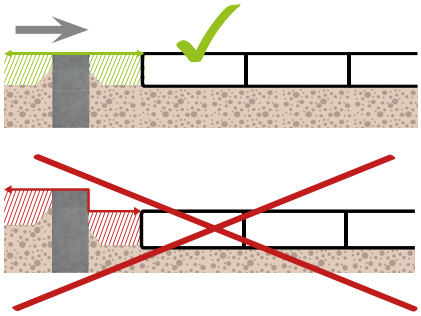
Fitting – cutting to size

For quick and clean tile cutting, the following tools have proved most effective in practice:

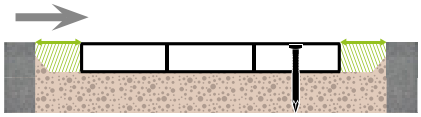
- Circular saw
- Flex (cutting disk)
- Compass saw



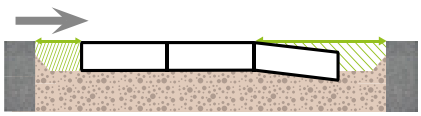
If there should be some kerbstones, make sure to leave a gap of min. 5 cm.*



The ECORASTER System should be installed plain to surrounding edges.*



To avoid surface distortion at the edges caused by the shear forces of cars, the ECORASTER System can be fixed with ground anchors at the rear end of the parking area.*



As an alternative to earthnails you may also just press down the rear part of the ECORASTER.*

* Direction of travel from left to right

Things to bear in mind!

Note that, in relation to the height of the base layer, the vibrator action will press in the ECORASTER® by approx. 0.5 cm.

After infilling ECORASTER®, some slight settling may occur. Fleece from geotextiles reliably prevents of mixing up the ground construction layers with the soil. When laying ECORASTER® during the warm summer months, ensure laying ECORASTER®, the grids are infilled and overfilled right after installation.

Only limited suitable for areas which are mainly used by trucks / heavy load.

Tip

For quick and clean cutting to size, a circular saw has proved most effective in practice. For smaller corners which must be cut exactly to size, we recommend that you use a compass saw or strong pruning shears. Do not cut the grids in advance. If possible, lay them over the border and then cut them. Use a small base (slat / board / ECORASTER® tile) to make it easier to cut.

Accessories

- **Parking space markers**
  Parking space markers are available in white and can be inserted into the grid without further preparation
- **Slope angles**
  Universal Slope angle adjustable up to 90°
- **Curvepieces**
- **Ground anchor**
- **Geotextiles**

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