Innovative products for road construction and landscaping

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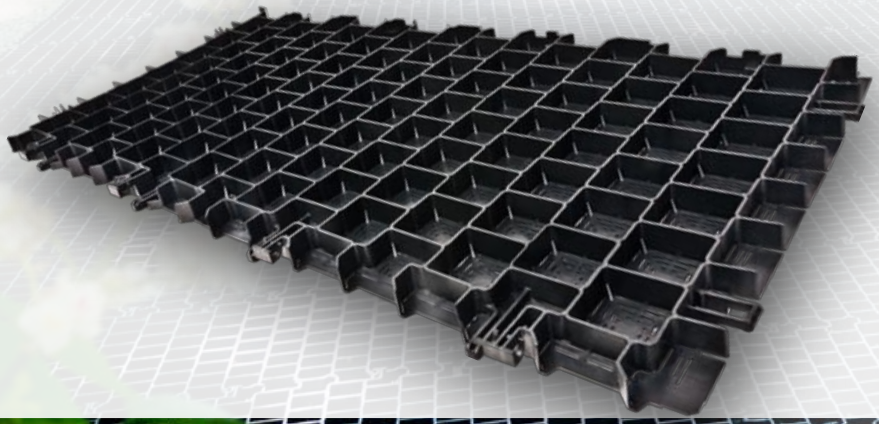
GravelGrid

GravelGrid – a barrier-free, water-permeable and gravel-stabilising flooring panel for beer gardens, utility and parking areas, sports and leisure installations.

GravelGrid Protects your investment

The advantages at a glance

– GravelGrid offers long-term water-permeability
– The surface is not sealed
– Quick, easy and cost-effective to install
– Integrated into the surface with no sideways displacement
– GravelGrid is a barrier-free surface which can be walked and driven on
– The infill material remains in the grid
– GravelGrid stabilises and structures
– Resistant to temperature, deformation and expansion
– GravelGrid is available with and without ground spikes



Water-permeable and structured

A surface reinforced with GravelGrid is water-permeable in the long term and is therefore not sealed. No infrastructure is usually required for drainage, provided that the water can seep away unhindered over the entire surface. No puddles can form.

GravelGrid's cell structure prevents any leaching or shifting of the infill material. This structure also ensures that no tyre marks or footprints form.

The design of GravelGrid also prevents any downward migration of the infill material and the special connection system prevents the panels from displacing due to temperature-related changes in size.

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For utility areas around the house, courtyard and garden

GravelGrid is optimal for temporary driving surfaces, courtyard accesses, overspill parking, flashing for decorative gravel surfaces, mobile home parking lots and driveways.

For beer gardens and outdoor restaurant areas

The fact that GravelGrid is so pleasant to walk on adds significantly to the appeal of a beer garden or outdoor restaurant area for both guests and service staff.

For leisure, play and sports facilities

GravelGrid is always the best choice for easy-care utility areas and parking lots near sports stadiums and leisure facilities.

For industrial and municipal utility areas

GravelGrid for employee parking lots, park & rides, overflow parking, parking areas in local recreation areas and at trade fairs.

Barrier-free

Areas that have simply been infilled often constitute an obstacle to the use of wheelchairs and are difficult to walk on when wearing high heels. GravelGrid provides structure to the infill, thus resulting in an even surface. This makes GravelGrid easy to negotiate with a wheelchair - even those without an attendant - or on high heels. It is important for public spaces to be barrier-free.

GravelGrid Versatile application

GravelGrid provides major advantages in sensitive areas (building sites, root protection, substrate stability).
If GravelGrid is filled by machinery pushing the infill ahead, the vehicle can drive on the surface.

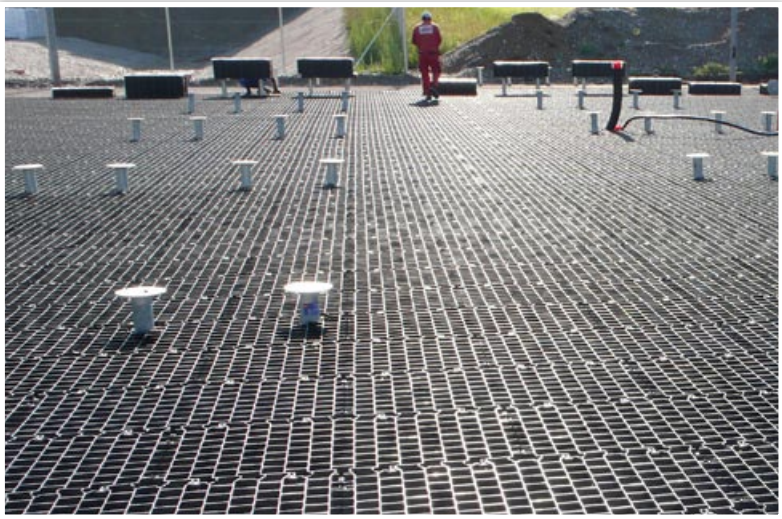
Maintenance instructions
The surface should be inspected from time to time, with evening out and refilling where there has been subsidence.

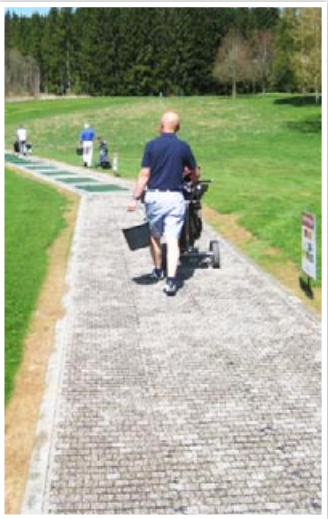
Tip: Keep the infill free of leaves and rubbish. A wide *leaf rake, such as the* **MegaLeaf** *by Ritter Landscaping, can be used to remove leaves and clean the surface.*

MegaLeaf

Surface organisation

Utility areas can be optically demarcated using various infill materials.
For example, access lanes might have a light infill to contrast with the darker parking areas.
Broken material with a grain size of 5/8 mm is particularly suitable for parking lots.





Easy processing gives many opportunities for individual surface design and a variety of spatial uses.

Use contrasts to demarcate

GravelGrid is available in white panels for light infill material or in black panels for dark infill materials.
Black and white GG-markers are available to demarcate parking spaces; these are inserted into the surface before infilling.

GravelGrid Installation instructions

1. Substrate

The substrate should have a carrying capacity in accordance with its planned utilisation (similar to paved areas).

2. Installation bed

The surface should be evenly levelled in order to provide an optimal, load-bearing surface for the panels. The recommended grain sizes are 2/5 or 5/8 mm broken material. The average depth of the installation bed should be 3 - 5 cm.

A minimum depth of 2 cm is required if using the GravelGrid version with ground spikes. There is no minimum depth for the version without ground spikes.

3. Installation

A batter board should be laid to prepare for the installation process. Ideally, installation should start along the longest straight outer edge of the surface to be covered.
The T-pieces and retainers can be shortened up to the outer contours of the panel along the outer edge (Fig. 1) in order to provide a smooth connection to the border. A gap of approximately 1 cm should be maintained from the border.

As the panels can only be installed with a half interlock, the first row should consist of a whole section.
If the first row consists only of whole sections, there will be no off-cuts as a result of partial interlock installation; subsequently, every second row will begin with a half-section, laid from left to right.
The separation marks on the back facilitate cutting, using conventional cutting tools such as circular saws, jig saws or hand saws. (Any offcuts that can no longer be used should be disposed of for plastic recycling!)

Tip: *Fitting can be facilitated by allowing the panels to project beyond the border and subsequently cutting off the projecting edges some 1 cm from the outer edge.*

The U-brackets on the short side of the first row of panels are inserted directly into the housings provided. From the second row onwards, the panels are first fitted at the 4 fixation points along the long sides and then dropped into place. The fixation elements on the short sides are subsequently pushed into place.

Tip: *Use a broomstick with a wedge-shaped end to push the U-brackets into place.*

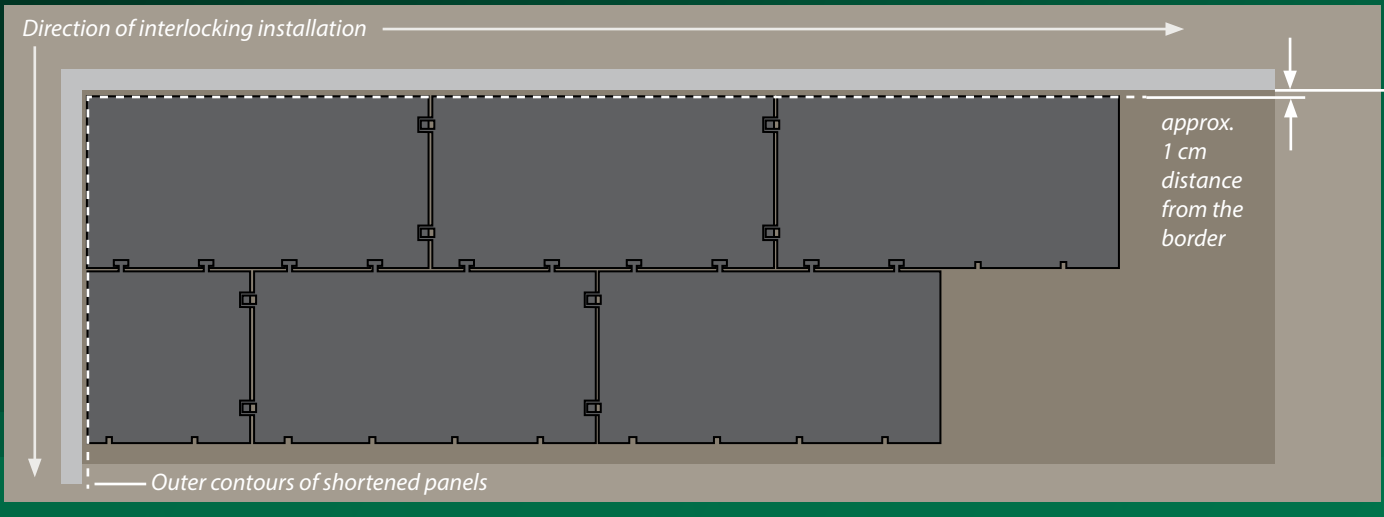
4. Infilling

The recommended grain sizes for the infill are 2/8 or 5/8 mm broken material. Grain sizes above 8 mm are not recommended if the surface is to be used by pedestrians. The grain size 5/8 mm provides optimal conditions for all user groups and fulfils the barrier-free requirement. Where necessary, the surface can be rolled after infilling, using a vibration roller or a static roller. The use of a vibrating plate is not recommended.

Tip: *To optimise building site logistics, the same material, e.g. grain size 5/8 mm, can be used for the installation bed and the infill.*

5. Surface maintenance

Depending on the load to which the surface has been subjected, it may be necessary to distribute a small amount of gravel over the surface from time to time or to remove any excess gravel to make it level with the upper edge of the panels, once it has settled.



Tip: *As the infill may settle in the cells during the first months, it is recommended to overfill the cells by approximately 1 - 2 cm at the beginning.*

6. Winter services

Snow can be removed from the surface using conventional, undamaged clearing equipment. Service providers should inspect the surface before the first snowfall. The use of dark infill material (e.g. basalt gravel) and a water-permeable construction will suppress the formation of ice and a build-up of snow.

If GravelGrid is filled by machinery pushing the infill ahead, the vehicle can drive on the surface.

Panel format:
L, W, H | 1180 x 600 x 30 mm

Installation format:
approx. 1139 x 570 mm

Requirements per m²:
approx. 1.54 panels

Weight per panel:
approx. 2.6 kg

Weight per m²:
approx. 4.0 kg

Material:
HD-PE regranulate, unmixed, environmentally neutral.

Colours:
black, natural.
Special colours on request.

GravelGrid variants:
With ground spikes for anchorage in the substrate.
Without ground spikes for installation on a smooth or sealed surface.

Accessories:
Markers in black or white for surface organisation or to demarcate parking spaces.

Pallet content:
140 panels for approx. 91 m²

Pallet format:
L, W, H | 120 x 120 x 225 cm

Pallet weight:
approx. 380 kg

Infill material requirements:
approx. 28 - 30 l/m²

Load capacity:
1.500 kN/m² surface load
(LGA No. 5401006/1k)

Water permeability
in accordance with DIN 18130
(TÜV Rheinland BBV1213040).

Hotline

If you should have any questions, please contact:
Tel +49 8232 5003-32
info@ritter-landscaping.de

Our local service

Installation instructions and advice can also be provided on site to support a customer's project or when first using the product.

made in germany made by ritter

Figure 1

Border

Outer contours of shortened panels

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ProGrass

ProGrassflex

MultiFlixx

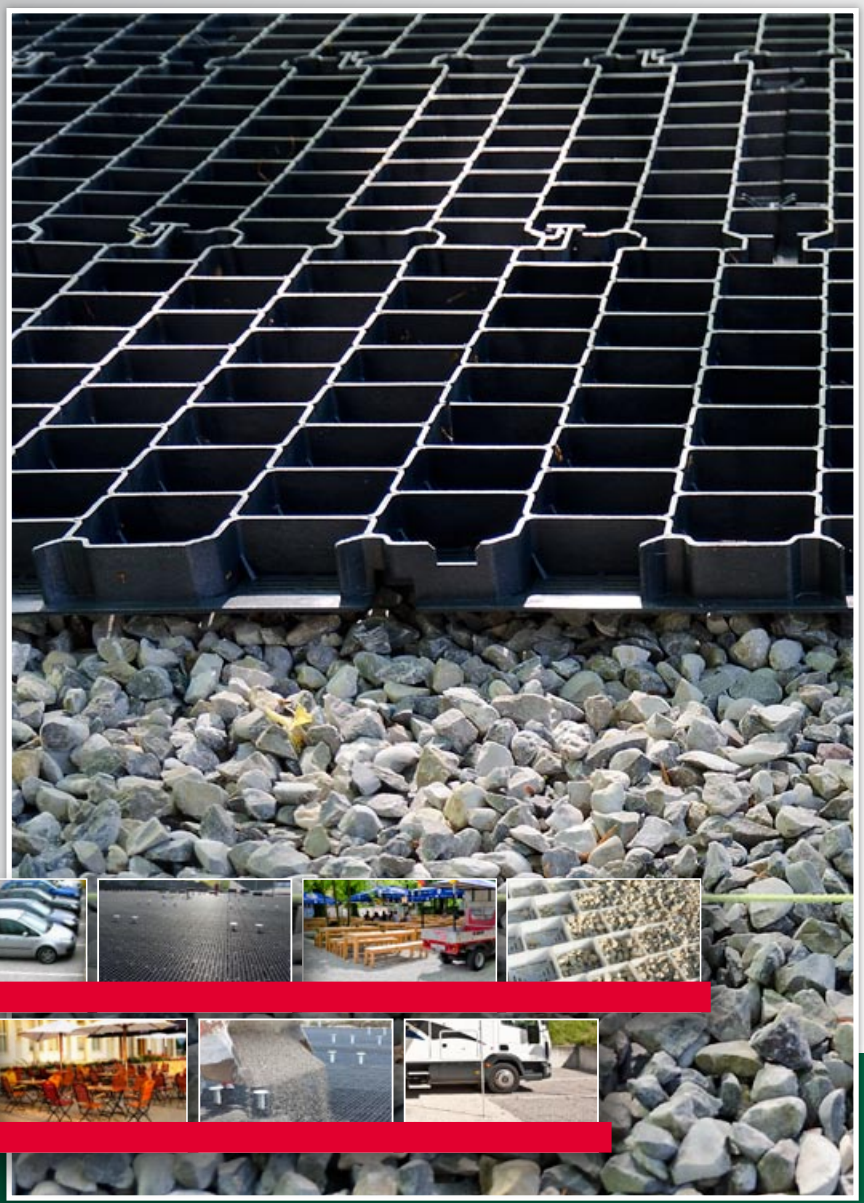
GravelGrid

RoadEdgePave

WastoDrain

SysDrain

MegaLeaf



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