

Innovative products for road
construction and landscaping

ritter
LANDSCAPING

GravelGrid



The durable, water-permeable and highly resilient paver panel for service areas and car parking spaces, sports and leisure facilities.





Get the full picture

Enjoy an interactive experience of GravelGrid and other innovative paver systems at:
www.360grad.ritter-landscaping.de

Benefits: Unlike unstructured surfaces, the fact the fill material is structured means no car tracks can form and hence there are no puddles. The surface is low maintenance with low attendant costs. A surface paved this way is permanently water-permeable; it is not sealed. Usually no infrastructure is needed for drainage, as the water can drain through freely over the entire surface. The design pre-

vents any downward migration of the fill material. The special connection system prevents the panels from shifting due to temperature-induced form stress.

Base cohesion gives the panels a high dead weight. Their cellular structure prevents fill from washing out of the panels.



As ground protection around houses, courtyards and gardens

Temporary driveways, courtyard entrances, additional parking spaces, gutter runoffs with decorative pebbles, caravan pitches, plot access roads...



For beer gardens, outside areas at restaurants, playgrounds and sports and leisure facilities

For beer gardens, outside areas at restaurants, service areas, car parks outside clubs and sports and leisure facilities, stadiums...



Industrial and municipal service areas

Car park areas for company staff, overflow car parks, Park & Ride parking spaces, car park areas in recreational parks, trade fair car parking...



Surfaces covered only with loose material are often problematic for wheelchairs and those wearing high-heels. GravelGrid gives structure to the loose material, which results in a level surface. Access by wheelchair, even self-propelled, or walking over it in high-heels is no longer a problem. Wheelchair accessibility is important, particularly on public premises.



GravelGrid Versatile in use



In difficult situations (foundation ground, root protection, subsoil stability) GravelGrid delivers substantial benefits. Even during the filling process, GravelGrid can be driven on if filling is done from above.

Marking: Black and white GG markers are available to mark out parking spaces. These are inserted into the surface prior to filling.



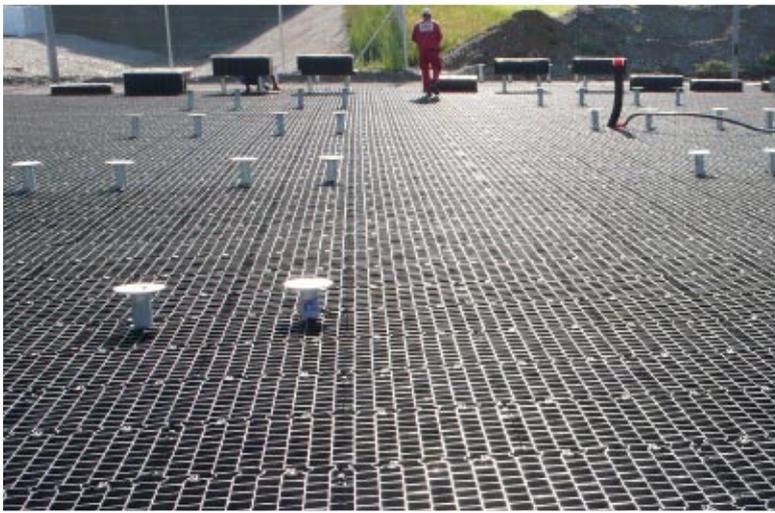


Surface demarcation:

The use of different fill materials allows a surface to be visually differentiated and so provides demarcation.

For instance, the driving lane in light and the parking spaces in darker coloured fill.

Hardcore with a grain size of between 5 and 8 mm is well suited for general public parking spaces.



The ease of use gives plenty of options for an individual surface design and different surface uses.



Recommendations for filling:

In terms of resilience, walkability and wheelchair accessibility, filling with hardcore in grain sizes 5 to 8 mm and 2 to 8 mm has proven to be most suitable.

Round grains and larger grain sizes are only suitable for visually offset and decorative areas such as gutter runoffs, presentation areas, edgings and much frequented surfaces such as beer gardens.



GravelGrid Cost-effective to install



Reference alignment:

A reference alignment helps work in progress and ensures correct angles are adhered to.



Substructure:

The substructure should be strong enough to withstand the planned and actual loads. Foundation bed and levelling layer: 5 to 8 mm crushed stone or 2 to 8 mm hardcore.

Tip: Substructure as for paved surfaces.



Border/transition:

If the surface is to be edged, the panels should be finished at 1 to 2 cm below the upper edge of the border.



Cutting to fit:

The panels can be easily and cost-effectively cut to fit using an angle grinder or padsaw.

An edge gap of 1 cm all round is sufficient.

Tip: For the first row, cut off the T piece down to the border.



Filling:

The grain size for filling for heavy use should be 5 to 8 mm or 2 to 8 mm or a mixture of both.

Tip: It is best to slightly overfill above the upper edge of the panel, as the fill tends to settle. There is then no need to top up.



Levelling the filling:

Fill material can be very effectively levelled using an aluminium scraper. This means the panels remain slightly overfilled.

Care instructions:

Check the surface from time to time and infill as required.

Tip: The GravelGrid fill material should be kept free of leaves and rubbish. For collecting leaves and clearing the surface, a wide leaf rake works well, for instance the MEGALEAF XL – a Ritter Landscaping product.

MegaLeaf





Laying:

To form the first row, the panels are connected together by the narrow ends. To form the second row, the panels are hooked in on the long sides and laid down. Then the brackets on the short end are engaged.



Load:

Because the fill material is structured, the surface achieves high compressive stability, depending on the fill material up to 500 tons/m²

Format:

L, W, H | 1180 x 600 x 30 mm

Laying format:

approx. 1139 x 570 mm

Requirement per panel:

0.65 m² = 1.54 panels per m²

Weight per panel:

approximately 2.6 kg

Weight per m²:

approximately 4.0 kg

Material:

HD-PE, polyethylene, pure-grade, environmentally neutral.

Colours:

black (from recycled materials), nature (new products). Special colours on request.

GravelGrid versions:

With base cross, for anchoring in the substructure.

Without base cross, for laying on even subsoil.

Accessories:

GG markers in white or black for surface demarcation or identifying parking places.

Pallet content:

140 panels for ca. 91 m²

Pallet format:

L, W, H | 120 x 120 x 225 cm

Pallet weight:

approximately 380 kg

Fill material requirements:

approximately 28 to 30 litres/m²

Load:

At least 1.500 kN/m² uniformly distributed load (LGA No. 5401006/1k)

Determination of **water-permeability** according to DIN 18130

Result: Surfaces equipped with GravelGrid do not constitute sealed surfaces (TÜV Rheinland BBV1213040).

Note:

Texts for tender documentation and test reports can be found at: www.ritter-landscaping.de



made in germany  made by ritter

Nature panels for light colours, black for dark colours of fill material. Black and white markers are available as standard for creating markings.





 GravelGrid

Road Edge Pavé

EquiTerr

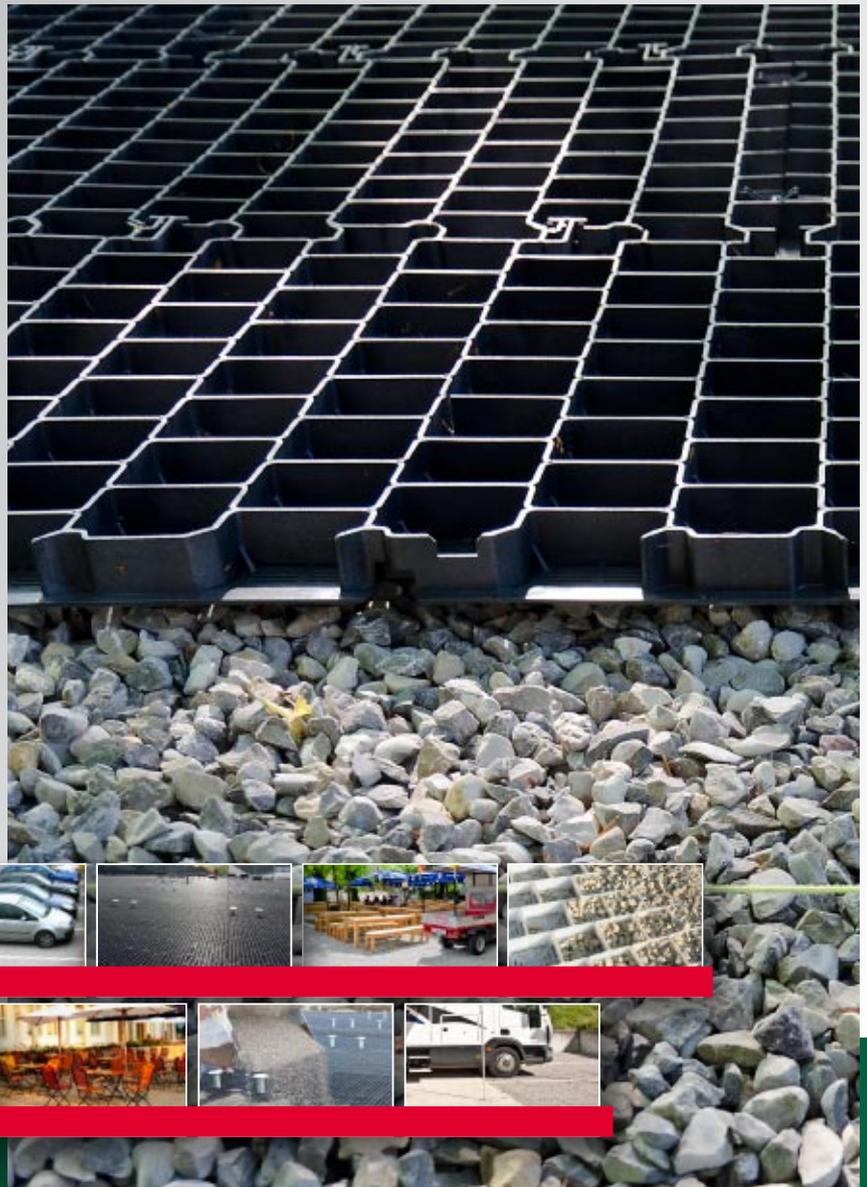
ProGrass^{flex}

SysDrain

WastoDrain

MultiFlixx

MegaLeaf



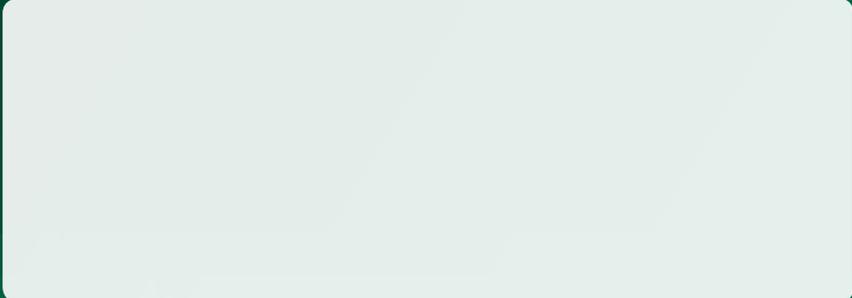
Ritter GmbH, Landscaping

Kaufbeurer Strasse 55
D-86830 Schwabmünchen

Telephone +49 8232 5003-32

Fax +49 8232 5003-51

gravelgrid@ritter-landscaping.de



The verbal or written technical advice we provide is based on experience. It is provided to the best of our knowledge and is given without obligation. The final use and handling of the products is the sole responsibility of the user. Colour variations and slight weight and size deviations are possible due to the use of recycled material. Subject to technical modifications.