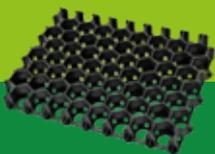
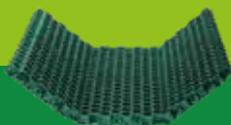


**INNOVATIVE PRODUCTS
FOR
LANDSCAPE AND ROAD CONSTRUCTION**



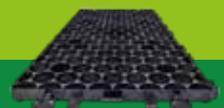
4 ProGrass



6 ProGrass^{flex}



8 MultiFlixx



10 EquiTerr



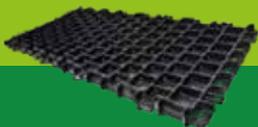
Experience Innovation Enthusiasm

With more than 25 years experience and the development of application-oriented solutions, we are experts for different outdoor installation and ground conditions. Our products with the versatility and cost effectiveness are highly appraised by architects and engineers.

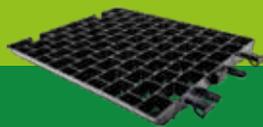
All our products have three key features in common: they are made from single grade, environmentally-neutral recyclable plastic, they are easy and economical to use and they make an active contribution to environmental protection.

As a reliable partner for the landscaping and road building sector, we are looking forward to giving you professional and comprehensive advices.

made in germany  made by ritter



14 GravelGrid



16 RoadEdgePave



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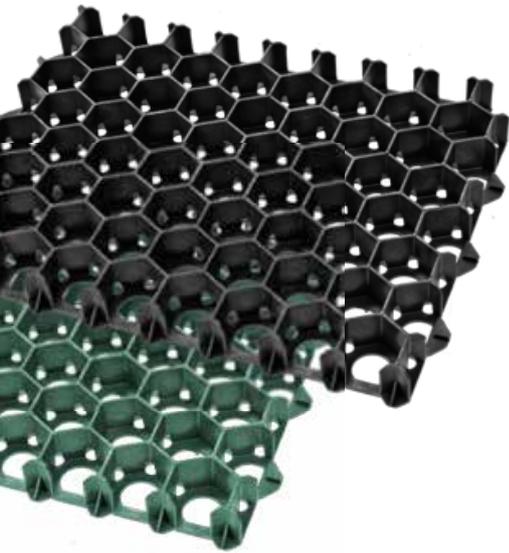


20 SysDrain



22 MegaLeaf

ProGrass – makes green surfaces suitable for walking and driving on



For more than 25 years ProGrass, the original grass securing honeycomb from Ritter Landscaping, has been helping to make predominantly green areas suitable for driving and walking on with several million square meters installed worldwide.

The honeycomb cell structure prevents the ground from compacting. The open edge cell design provides an optically homogeneous surface, and the advanced technical details ensure a very good installation and greening result.

Applications

- ⌘ Replacements of surfaces
- ⌘ Greened parking areas
- ⌘ Golf car tracks
- ⌘ Embankment stabilization

Properties

- ⌘ No ground sealing
- ⌘ Local water drainage
- ⌘ Load bearing capacity 100to./sqm
- ⌘ A high proportion of green space (around 90%)

Dimensions

- ⌘ Format: 500 x 390 x 45 mm
- ⌘ Requirement per m²: 5 panels
- ⌘ Weight: 1.1 kg
- ⌘ Pallet contents: 120/180 panels



Quick and easy to lay – no machinery required.



Traditional construction with substructure, base layer, panel and filling with grass seed.



The open edge cells give the surface of the grass a homogeneous appearance



Checked, tested and proven, the honeycomb lawn protection in areas providing fire service access.

Design

- ✦ Material: recyclable HDPE
- ✦ Accessories: marking plugs
- ✦ Standard colours: green, anthracite
- ✦ Optional colours: natural, grey, beige

Tests carried out

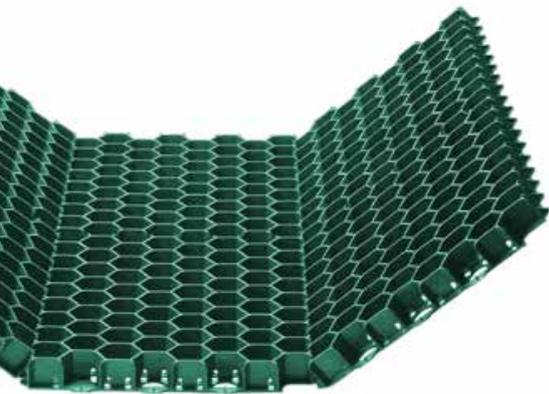
- ✦ Load test for fire service access routes
- ✦ Load test on filled surface
- ✦ Load test for small aircraft
- ✦ Determining the permanent deflection strength



The marking plugs can be used to mark out surfaces for a specific use.



ProGrassFlex – the modular fixing system for drainage ditches.



Pre-mounted three-section standard panel.

Unsecured drainage ditches, in particular those on a slope, are extremely liable to erosion. Material movement and uncontrolled erosion cause problems. ProGrassFlex ensures effective protection against erosion in these sensitive areas. If required, individual sections can be supplemented with individual panels. In areas with high water influx, ProGrassFlex can be used to create a fixed channel with concrete fill.

Applications

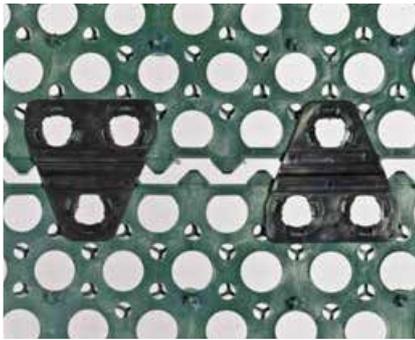
- ✦ Collection ditches
- ✦ Temporarily flooded open ditches
- ✦ Side ditches
- ✦ Rain water collection ditches

Properties

- ✦ Protects the ditch walls against erosion
- ✦ Permeable
- ✦ Low weight, approx. 3.4 kg (standard 3-section panel)
- ✦ Can be extended with individual panels or elements

Dimensions

- ✦ 2 element: approx. 850 x 500 cm, height 45 mm
- ✦ 3 element: approx. 1250 x 500 cm, height 45 mm
- ✦ 4 element: approx. 1650 x 500 cm, height 45 mm
- ✦ 5 element: approx. 2050 x 500 cm, height 45 mm



The pre-mounted elements can be transported easily and installed cost effectively even in difficult terrain.



Complicated channels can be created using ProGrassFlex panels.



The elements can also be concreted to handle high water influx.



Collection ditches reinforced with ProGrassFlex hold the rain water safely away from the structure.

Design

- ✦ Material: environmentally neutral, recyclable HDPE
- ✦ Weight: 2 element approx. 2.25 kg, 3 element approx. 3.38 kg, 4 element approx. 4.5 kg, 5 element approx. 5.57 kg
- ✦ Colours: black, green

Tests carried out

- ✦ Load capacity for fire service access routes
- ✦ Load capacity in filled state

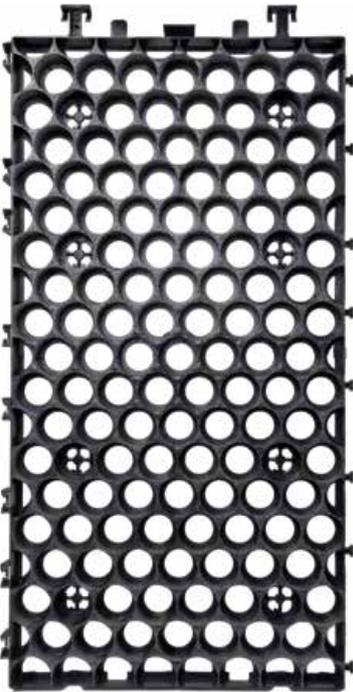


A ditch reinforced with ProGrassFlex meets “biologically active soil zone” requirements.

The U-clip enables rapid connection of the elements along the installation route.



MultiFlixx – the installation panel in XXL format for a wide range of applications



XXL format, multifunctional, flexible. The MultiFlixx installation panel with its special connection system makes it suitable for both temporary applications and a wide range of erosion protection measures, as well as lake and river bank reinforcement.

The large XXL format means that installation is extremely economical with a laying rate of between 100 and 140 m² per man hour and prepared subsurface. The environmentally-neutral material makes it suitable for use in environmentally-sensitive areas.

Applications

- ✦ Large parking areas for temporary use
- ✦ Driving tracks designed for temporary use
- ✦ Embankments and lake and river banks
- ✦ Flood ditches

Properties

- ✦ Designed for large-scale use
- ✦ Can be filled and greened
- ✦ Extremely durable and suitable for driving on
- ✦ High installation rate (100-140m² per man hour)

Dimensions

- ✦ Laid format: 589 x 1,156 mm, 40 mm high
- ✦ Weight: approx. 3.8 kg
- ✦ Pallet content: 100 panels for approx. 68 m²
- ✦ Pallet weight: approx. 400 kg



When driven on by tracked vehicles, MultiFlixx helps prevent major damage on construction sites.



Green can establish over large areas in temporary use.



MultiFlixx offers a wide range of options as erosion protection for embankments.



Forecourt as grassed parking place – with Multi Flixx harnessed.

Design

- ✦ Material: recyclable HDPE
- ✦ Fill volume: approx. 21 l/m²
- ✦ Standard colour: black/anthracite
- ✦ Optional colour: green

Tests carried out

- ✦ Load test



Multiflixx is made from plastic and can easily cut to fit for complex laying situations.

The special connection system enables quick installation and also forms an expansion joint.



EquiTerr – professional reinforcement for riding arenas and paddocks

Good riding ground and weatherresistant conditions are no coincidence but require expert advice and a sound installation concept using high-quality components. The EquiTerr fixing panel acts as a separating layer within the overall construction and provides a solid base for riding arenas and paddocks. The positive feedback from well in excess of 600,000 m² installed in Germany and abroad, even after many years with different riding arena owners, makes one thing clear: EquiTerr means optimum surface reinforcement for all disciplines.

Applications

- ✦ Jumping, dressage and warm-up arenas
- ✦ Paddocks, roundpens
- ✦ Horse walkers, hall floors
- ✦ Exercise areas

Properties

- ✦ Creates a permanent separation between the riding surface and substructure
- ✦ Provides safe conditions in any weather
- ✦ Environmentally neutral
- ✦ Protects your investment

Dimensions

- ✦ Laid format: 589 x 1,156 mm, height 40 mm
- ✦ Weight: approx. 3.8 kg
- ✦ Pallet content: 100 panels for approx. 68 m²
- ✦ Pallet weight: approx. 360 kg



EquiTerr's technical features make it very cost effective to install.



Outdoor or indoor riding arenas. EquiTerr ensures good riding conditions at all times and safeguards your investment.



EquiTerr guarantees the success of major tournaments and club events alike.



EquiTerr creates consistently good, weather-independent conditions for tournaments.

Design

- ✦ Material: recyclable polyethylene
- ✦ Surface with non-slip structure
- ✦ Colour: black

Tests carried out

- ✦ Load test



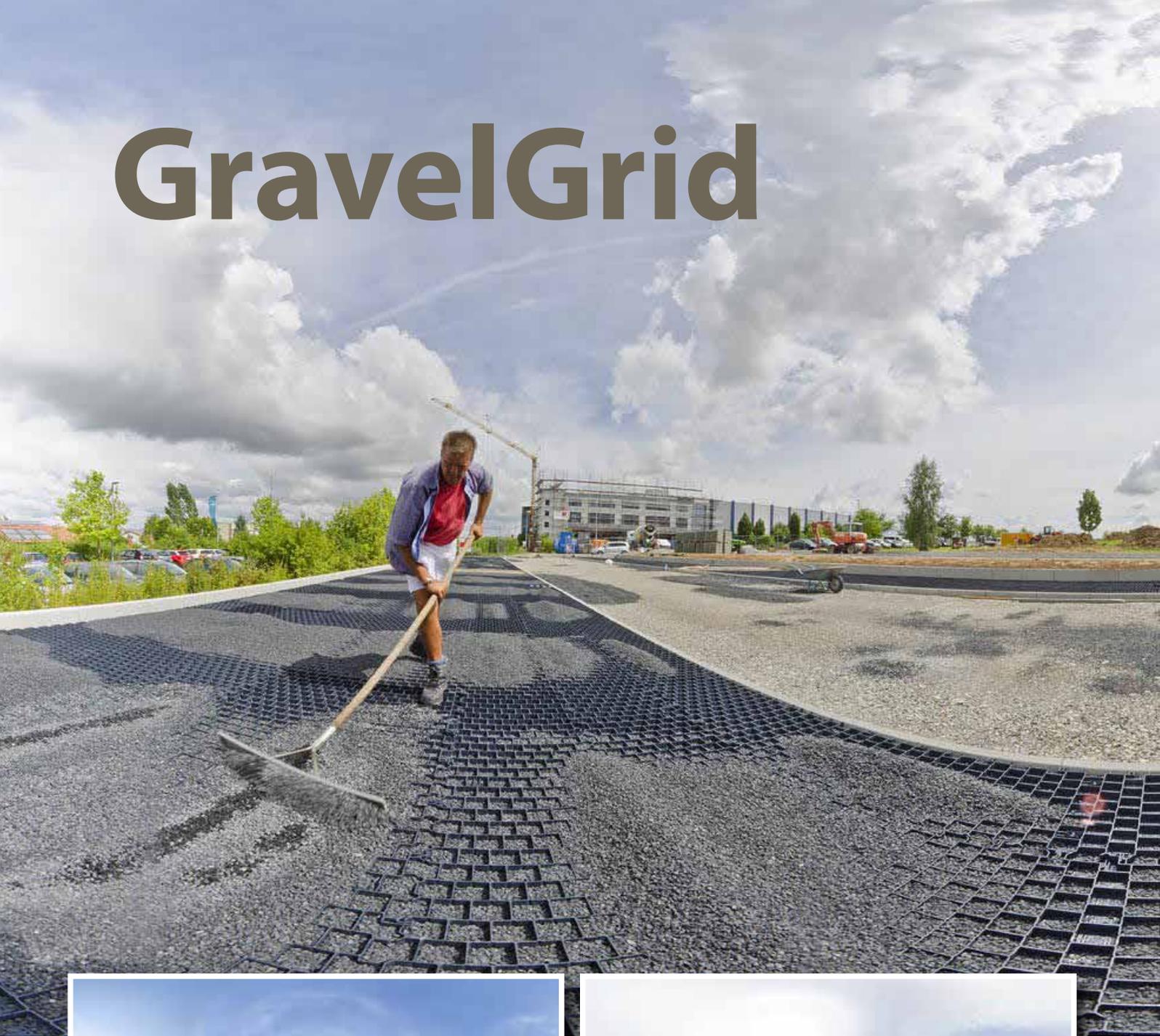
EquiTerr has proven itself in all horse riding disciplines for more than 17 years under the harshest of conditions.

Laid on grit and filled with gravel, EquiTerr provides the optimal separating layer.



12 Her bakımdan kaliteli ürünler

GravelGrid



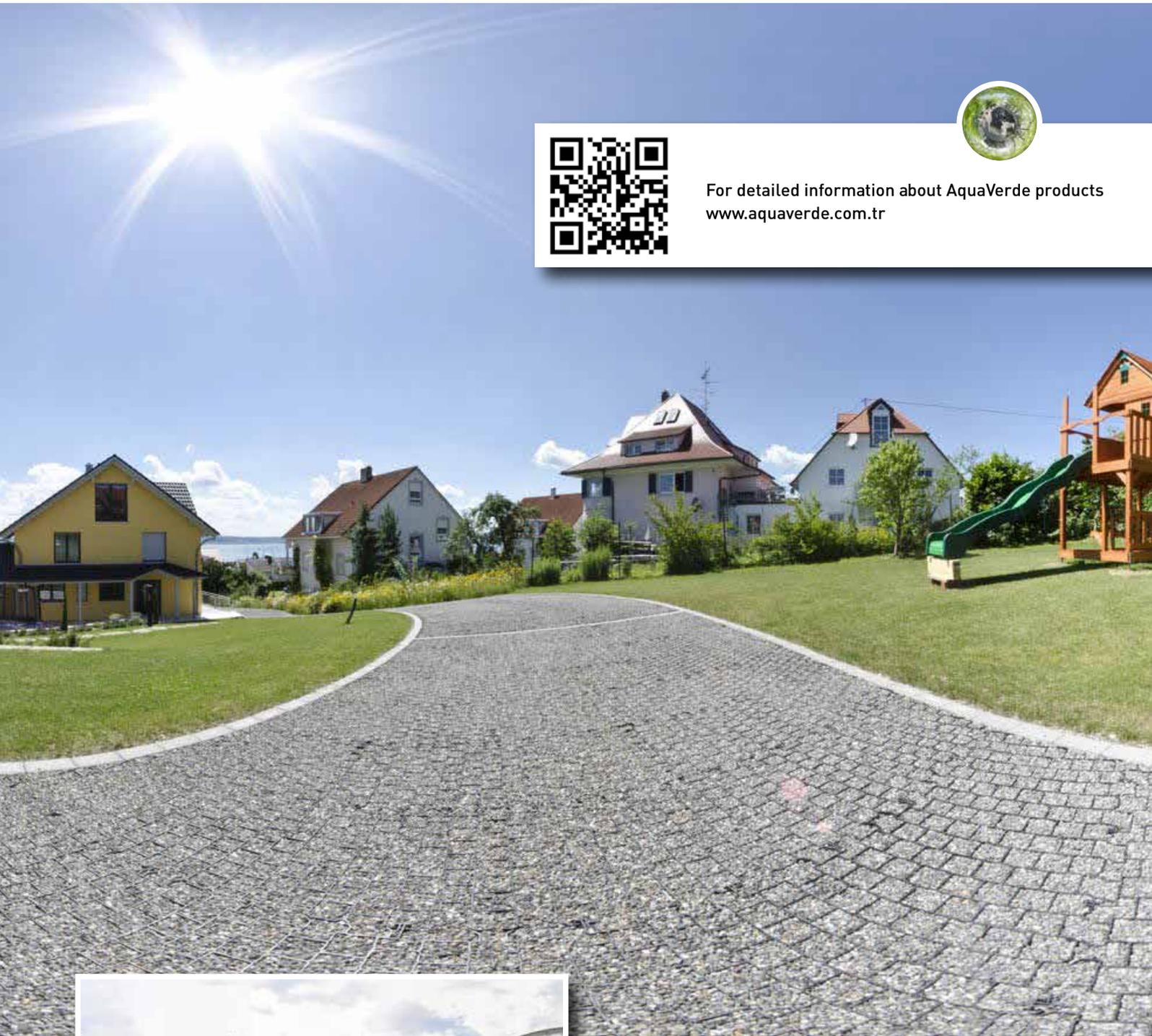
RoadEdgePave



EquiTerr



For detailed information about AquaVerde products
www.aquaverde.com.tr



Our tip: MegaLeaf for maintenance.
The GravelGrid filling material should be kept free of leaves and rubbish.
The MEGALEAF from the Ritter Landscaping leaf rake range is therefore ideal for raking and clearing parking areas and paths.



MegaLeaf



GravelGrid – the water-permeable and extremely robust base panel



GravelGrid is available as a natural coloured panel for light-coloured filling material.

With the constantly rising demand for open-pore fixed surfaces, GravelGrid was specially developed for backfilling with bulk material. GravelGrid therefore represents a cost-effective alternative to traditional construction methods for parking and service areas in private, industrial and municipal use. The permeability test conducted by the LGA (Bavarian State Testing Authority) confirms that surfaces with GravelGrid remain permeable.

Applications

- ✦ Industrial and municipal service areas
- ✦ Park & ride facilities
- ✦ Playgrounds, sports and leisure facilities
- ✦ Ground protection around the house, courtyards and garden

Properties

- ✦ Quick to lay and water-permeable
- ✦ Prevents vehicle tracks and puddles from forming
- ✦ The filling remains in position
- ✦ Suitable for areas where there is open access

Dimensions

- ✦ Format: 1180 x 600 x 30 mm
- ✦ Laying format: approx. 1139 x 570 mm
- ✦ Weight: 2.6 kg
- ✦ Requirements per m²: 1.54 panels



The precise positioning system enables it to be laid quickly and cost effectively without heavy equipment and with minimum labour requirements.



The appearance of the surface can be arranged by using different filling materials.



No erosion or movement of the material on inclines.



GravelGrid was used under these solar carports to create low-cost reinforced employee parking spaces.

Design

- ✦ Material: recyclable HDPE
- ✦ Standard colours: black, white
- ✦ Optional colours: grey, beige
- ✦ Versions: with and without cross-shaped supports

Tests carried out

- ✦ Load test/suitability for fire service access
- ✦ Water permeability



Suitable for walking on, driving on, barrier-free – ground reinforced with GravelGrid is ideal for beer garden use

As accessories, GG markers, black/ white for visual surface division.



RoadEdgePave – for cost-effective securing and reinstatement of verges

Increasing car and truck traffic means rising reinstatement costs for public authority highways departments. RoadEdgePave was specially developed to enable economical maintenance of the “problem zone” verges. The panel is light, robust and quick to lay, making RoadEdgePave a popular solution in its field.



RoadEdgePave 40



RoadEdgePave 60

Applications

- ⊕ Roundabouts
- ⊕ Junctions
- ⊕ Road widening
- ⊕ Central reservations

Properties

- ⊕ Quick and economical to lay with a flexible connection system
- ⊕ Suitable for bends with a radius greater than 6.5 m
- ⊕ Able to support heavy loads (260 t/m²)

Dimensions RoadEdgePave 40

- ⊕ Format: 800 x 400 x 50 mm
- ⊕ Laying format: 770 x 400 x 50 mm
- ⊕ Weight: approx. 2.3 kg
- ⊕ Laying radius: flexible, > 6.5 m



For large-scale use, it is advisable to construct equipment for removing the base layer.

The RoadEdgePave flexible connection system enables problem-free laying even on bends.

RoadEdgePave can even withstand heavy motorway traffic.



RoadEdgePave, yoğun trafik olan kaygan yollarda yol kenarlarını korur ve maliyetli onarımları engeller.

Dimensions RoadEdgePave 60

- ✦ Format: 800 x 600 x 50 mm
- ✦ Laying format: 770 x 400 x 50 mm
- ✦ Weight: approx. 3.6 kg
- ✦ Laying radius: flexible, > 6.5 m

Design

- ✦ Material: recyclable HDPE
- ✦ Colour: black
- ✦ Spring components to equalise the lengths
- ✦ Cross-shaped supports

Tests carried out

- ✦ Load test (2.660 kN/m²)



The 9 cross-shaped supports enable stable connection to the substructure.

The connection system ensures uniform height and stabilises the panels in all directions.



WastoDrain – stores rainwater and discharges it in a controlled manner



The WastoDrain system for green roofs is a water storage system as well as a long-lasting drainage system with a highly diffusion capability. It provides thereby the best conditions for long lasting roof greening. With bearing capacity up to 204 kN/sqm, the WastoDrain roof water storage panels are easier to be installed and are suitable for higher substrate layers. The drainage system have 277 holes/sqm and enables water retention of approx. 27 l/ sqm. WastoDrain improves the green roof microclimate.

Lengthways and crossways drainage channels ensure high diffusion capability.

Applications

- ✦ Greening of sealed surfaces
- ✦ Underground car park roofs
- ✦ Pitched roofs up to around 25°
- ✦ Feature greening, rooftop gardens

Properties

- ✦ Water storage approx. 27 litres/m²
- ✦ Enforced drainage across the surface
- ✦ High and low intensity greening
- ✦ High level of diffusion capability

Dimensions

- ✦ Format: approx. 570 x 380 x 80 mm
- ✦ Water storage: approx. 27 l/m²
- ✦ Hydraulic value: q=2.8 l/s/m²
- ✦ Load capacity: 204 kN/m²



WastoDrain can be laid extremely quickly over large areas.



The panels adapt to the local conditions.



Pre-planted WastoDrain panels. We are happy to put you in contact with suppliers.



WastoDrain provides water storage and controlled water retention.

Design

- ✦ Material: recyclable HDPE
- ✦ 50 mm storage depth before enforced drainage
- ✦ Filling volume per panel: 14 l
- ✦ Environmentally-neutral, bitumen-resistant.

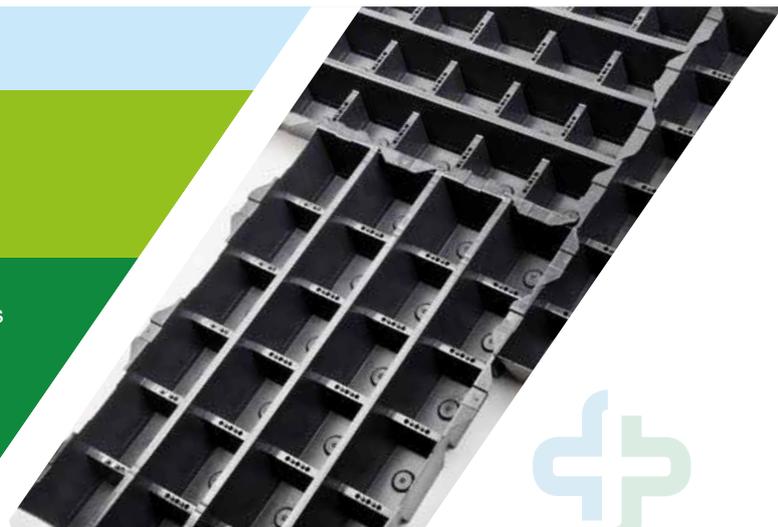
Tests carried out

- ✦ Load test
- ✦ Determination of the hydraulic value



Traditional intensive planting. This is where WastoDrain shows its strengths through its water storage and high diffusion capability

The WastoDrain click system means that the storage panels stabilise each other, which is a major advantage in edge areas.



SysDrain – the flexible shaft system for rain water drainage

The rain water drainage in constricted spaces and within already existing infrastructure requires products which are easy to be installed. SysDrain is delivered in convenient packages and can be installed above each other or in row to the customer requirements.

Applications

- ✦ Roof drainage
- ✦ Basement access areas, balcony drains
- ✦ Garden buildings, carports
- ✦ Yard and terrace drainage

Properties

- ✦ Low weight: approx. 11 kg per element
- ✦ Can be installed without heavy equipment
- ✦ Standard connections DN 100
- ✦ Stackable and flexible

Dimensions

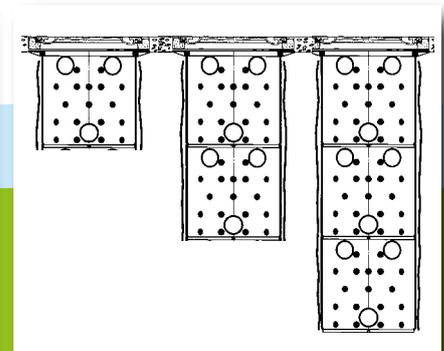
- ✦ Assembled shaft ring: 612 x 620 mm
- ✦ Connection options per side section: 3 x d=115 mm
- ✦ Total height 1 element incl. inlet module: approx. 880 mm
- ✦ Weight complete: approx. 11 kg



SysDrain base module and expansion module are conveniently packaged in a box and are easy to assemble.



The SysDrain accessories offer a wide range of installation options and can be combined with standard products.



The modular design enables individual adjustment to the water volumes and the existing infrastructure.



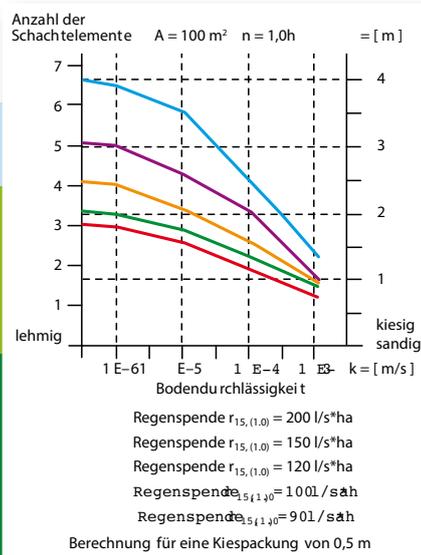
Flexibility in use makes SysDrain a popular solution for landscapers.

Accessories

- ✦ Inlet module, 3-part
- ✦ Base panel, can be used as a baffle panel
- ✦ Adapter/foundation ring
- ✦ Filter membrane

Tests carried out

- ✦ Infiltration capacity





MegaLeaf – makes gardening a pleasure any time of year

Good Equipment makes the work easier! With our MegaLeaf every one can enjoy leaf raking in garden or parks. Through the special radius of the teeth, MegaLeaf works extremely efficiently over the entire width. The length of the telescopic handle can be adapted to the user and MegaLeaf is so light that the whole work is also less strenuous.

Applications

- ✦ Parks and Gardens
- ✦ Areas near embankments and river banks
- ✦ Beds

Properties

- ✦ Extremely effective due to the bent shape
- ✦ Easy to use with minimal force required
- ✦ Handle length can be adjusted to suit the user

Ebatlar

- ✦ Three different sizes
- ✦ Rake widths: 40 cm, 60 cm, 80 cm



Perfect designed for a thorough and rapid work



MegaLeaf XL extremely effective – not only in large park areas.



The leaf rake range S, M and L, for all areas of the garden.



Spring, summer, autumn... and enjoy working with MegaLeaf.

Design

- ✦ Rake made from high-quality copolymer plastic
- ✦ Telescopic metal handle suitable for hanging
- ✦ Colour: green (rake), yellow (telescopic handle)



The thread of the telescopic handle can be screwed into position securely with minimal force. Alternatively, a wooden handle can also be fitted.





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