



Features

Nature-friendly soil anchorage - seals, greens, can be driven over.

- Optimal stability through the honeycomb structure. Load capacity approx. 100 tonnes per m² (LGA Bayern 79202396 and MK 3503513)
- Anti-skid structure
- Connecting holes between cells encourage interlinked root formation, nutrient exchange and even water percolation
- The special connection system and the open side walls at the outside edges prevent displacement of the panels. The panels mutually stabilise the height of adjoining elements.
- Recycled HD-PE material, UV-stabilised
- Firm anchoring to the soil using soil spikes
- The honeycomb structure protects the lawn carrier layer from compaction
- Cross-rooting holes between the cells provide improved growing conditions

Possible applications

- For areas in use where nature-friendly greening is required and desired with corresponding capability to handle loads and to maintain a high capacity for percolation
- Parking areas with low frequency use, e.g. in private areas, residential areas
- Parking areas used temporarily
- Fire brigade access routes in accordance with DIN 14090/DIN 1072
- Service roads
- Parking areas for cars, caravans, boat trailers, sports aircraft, etc.
- Access routes to children's play areas (replacing sand)
- Helicopter landing pads
- Golf-cart routes (elastic version)
- Cemetery facilities
- Stabilising embankments and banks of lakes and rivers
- Percolation strips along take-off and landing runways
- Underground car park roofs, as greened fire brigade access route

Special applications:

Separation layer for beach volleyball areas

Separation layer for sand-boxes

Advantages

- Cost-favourable transportation due to low palette weight
- Easy cutting, saving time and costs, using standard tools (saws, grinder, compass saw, ribbon saw or skiving device)
- No use of machines when laying due to the light weight of the panels
- Simple filling on account of narrow interval webbing
- Immediately able to take loads once laid
- Immediate greening using rolled turf possible
- Simple marking of areas in use with marker plugs

Ecological aspects

- Lawn component approx. 90%
- Prevents sealing of the soil, since a large proportion of the surface remains capable of percolation.
- Protects the substrate against compaction.
- The material is environmentally neutral
- Once the surface has been greened, it is practically invisible
- Manufactured from recycled material
- The honeycomb panels can be recycled again
- Cut-aways in the cells facilitate root formation between cells, thus optimising nutrient exchange and surface drainage.

Technical data	Ritter Grass Reinforcing Honeycombs
Material	HD-PE (polythene) Recycled material UV-stabilised
Load capacity	Approx. 100 tonne/ m ² (LGA Bayern No. 79292396 and MK 3503513) If necessary, stable soil spikes secure the panel against displacement
Format/Dimensions	Approx. 39 x 50 x 4.5 cm. 5 plates = 1 m ² The plates are delivered wrapped on wooden pallets. There is 24,5 m ² to one pallet. Each pallet (100 cm x 80 cm x 150 cm) weighs approx 135 Kg.
Options	Can be supplied in 34 x 39 x 4.5 cm format,

	<p>Also without soil spikes (e.g. for use in greening a roof or as a drainage layer)</p> <p>4 colours available, green, black, beige and terracotta</p>
<p>Accessories</p>	<p>Marker plugs (white) for defining areas</p> <p>U-clips, for firm fastening of panels, e.g. for anchoring embankments.</p>



Close up of Honeycomb cart path edge showing transition to fairway (Ritter is on the left of the photograph)



2 year old path in a dry area of rough with no irrigation, natural colonisation by herbs and Festuca arundinacia



Newly laid path before seed germination, showing the ability of Honeycombs to twist and turn with fairway contours



Established paths blend in with the fairway contours and turf.



A gravel path emphasizing the ground modeling and contouring between two fairways.



Ritter honeycombs used in conjunction with timber to provide a seating area for the Quinta da Ria clubhouse.



A heavily trafficked path used largely by maintenance vehicles.



Ritter honeycombs used in landscaping to provide parking and buggy access to car parks.



Gravel filled driveways constructed for Alma Verde Village & Spa – Lagos, Algarve, Portugal.



All photographs are courtesy of Quinta da Ria Golf, Vila Nova de Cacela, Algarve, Portugal.

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