

Modular System for Reinforcing Drainage Channels and Trenches

Tender Document (Please Select Relevant Item)

1. General points

Surface reinforcement with HDPE honeycomb panel units

Effect surface reinforcement with HDPE honeycomb panel units on slopes, in trenches and ditches, etc. on existing unbonded foundation or on existing topsoil (supply and fit)

Reinforcement units for drainage channels along traffic routes, Ritter system (samples to be submitted) with certificate of conformity to DIN ISO 9001

Manufacturer:

Ritter GmbH
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Prefabricated unit comprising two/three/four or five honeycomb panels, measuring approx. 39 x 50 x 4.5 cm, totalling approx. 85/125/165/205 x 50 x 4.5 cm respectively. Joined on each of the long sides with two hinged clips. Units connected lengthwise by means of U-shaped clips (one clip per panel, i.e. two/three/four/five clips per unit, each one placed approximately in the centre.

Material:

- HDPE recycling material
- 100 % recyclable
- UV-stabilised
- Black, alternative colour: green

Load capacity Approx. 1,000 kN/m² (LGA-Bayern, MK 3503513/2)

Special features:

- Open sides
- Openings between the cells (cross root anchorage)
- Specially moulded ground spikes
- Mutual height stabilisation (impossible to misalign height)
- Angle of slope for installation from -90 to +90 degrees

Fastened with pegs (recommended upwards of 3% pitch)

- 12 mm
- $l \geq 50$ cm
- Pegs with hook or panel at top end
- Made from galvanized constructional steel St 37-2 (1 peg per panel, knocked in without pre-drilling)

2. Specifics

- On slopes (gradients $\leq 45^\circ$)
- On slopes and ditches (base widths 40 cm, gradients $\leq 45^\circ$)
- In ditches, etc.
- In trenches (grid dimension in cross section 1.25 cm)
- On a fine gravel setting bed 0/32
- On a fine gravel setting bed 2/32
- On existing topsoil without a setting bed
- Fill recesses/honeycomb cells with fine gravel 0/32
- Fill recesses/honeycomb cells with crushed stone 16/32
- Fill recesses/honeycomb cells with material / topsoil / provided by the principal on site
- Fill recesses/honeycomb cells with topsoil provided by the principal on site and plant with 20 g of lawn turf per m^2 (e.g. Juliwa-Hesa 7301 draining turf)

Recesses/honeycomb cells.....

Surplus filler material shall pass into the agent's ownership and must be removed from the construction site. Due account must be taken of the installation instructions supplied by the manufacturer.

Unit Unit price/unit€ Total price.....€

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