

RoadEdgePave

The Purpose-Built Solution for Reinforcing and Improving Raised Verges
30-40 % Saving on Total Outlay



- Unique connection system
- Capable of bearing approx. 266 tonnes
- Flexible radius > 6.5 m
- Increases roadside safety
- Reduces maintenance and installation costs



► RoadEdgePave

Technical Data and Application Tips

TECHNICAL DATA

Size:	Overall length approx. 800 mm Width approx. 400 mm Height approx. 50 mm 1 unit laid approx. 770 mm*
Weight:	Approx. 2.3 kg per panel*
Load:	Approx. 2660 kN/m ² , LGA-Bayern LW 0130046/A
Material:	Genuine HDPE polyethylene recycling material, recyclable, black
Structure:	Interconnecting lattice work
Connection:	Custom-designed connection system to stabilise panels in all directions
Laying radius:	> 6.5 m, flexible
Other features:	Nine strong crosses guarantee firm anchorage in foundation. Resilient elements eliminate changes in size caused by temperature. Multiple-row layout possible on suitably strong foundations.
Packaging unit:	Three stacks of 40 units each on pallet measuring 800 x 1200 mm, approx. height 2250 mm, approx. weight 280 kg/pallet. One pallet load is sufficient for approx. 93 running metres of road verge..



Ritter GmbH
Kaufbeurer Straße 55
D-86830 Schwabmünchen
Tel.: +49 (0) 8232/5003-0
Fax: +49 (0) 8232/5003-51
E-Mail: baustoffe@ritter-online.de
Internet: www.ritter-online.de



Here are a few examples illustrating the versatility and reliability of RoadEdgePave.

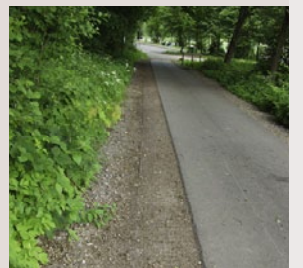
Problems with water, even the persistent presence of stagnant water, are a thing of the past for verges stabilised with RoadEdgePave.



A common problem: the narrow design and layout of the road can no longer cope with the current volume of traffic. RoadEdgePave has been installed on both sides, rendering unnecessary the many improvements which would be required in just one year..



This project involved widening a rural road through a protected area to prevent damage from forestry vehicles.



In this case the verge was being eroded whenever there was torrential rain. The texture of the RoadEdgePave surface stabilised the verge and halted the erosion.



Distributor for Australia:



Eco Animal Bedding Pty Ltd
Factory 1 / 10 Slater Parade
East Keilor Vic 3033
Phone 1300 726 406, Fax 03 8336 1184
ecoab.com.au

*Colours, weights and sizes may vary slightly owing to the use of recycled material. Subject to technical modifications, issue D 08/2006.

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► RoadEdgePave im Detail – Advantages and Features

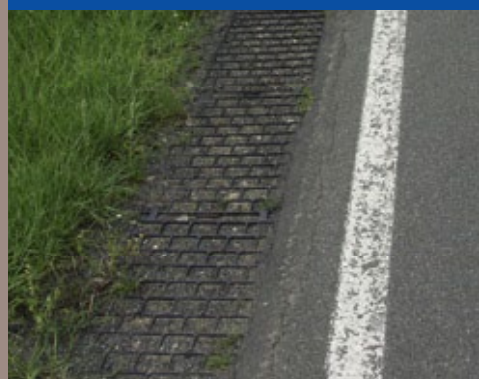
► Installation – Four Simple Steps to Safer Road Verges

The problem: Unsafe road verges



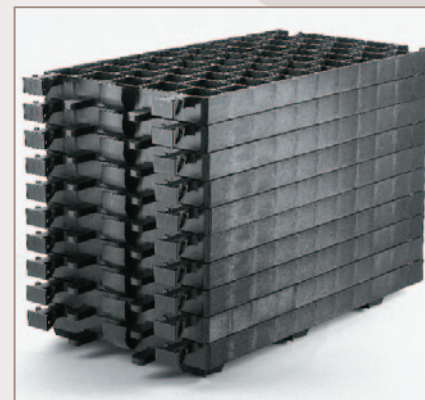
► Road verges full of ruts and potholes pose a safety risk and require a great deal of expenditure on maintenance..

The solution: RoadEdgePave



► RoadEdgePave prevents verges from developing potholes, significantly reducing the amount of maintenance work required..

- The unique connection system stabilises two adjoining units automatically when laid in any direction, thus preventing height misalignment.
- Bend radii > 6.5 m incur no additional installation costs and no additional work. The width of 40 cm meets national and international standards.
- Specially moulded resilient elements prevent changes in size caused by temperature.
- Nine solid crosses hold the units firmly anchored in the foundation.
- The lattice structure acts rapidly to reduce any shearing forces. Some of the cells are closed at the bottom thus maintaining the units at a high weight when filled. After installation the structure is barely visible.
- Weighing in at only approx. 2.3 kg/unit, the system takes much of the complexity out of logistics and installation processes, thus saving on costs. Our extensive experience to date has shown a reduction in overall costs of approx. 30-40 % in comparison to using e.g. concrete grille blocks.



Possible applications: All straight stretches and bends on local roads, county roads, trunk roads, national highways, roundabouts, central reservations on carriageways, motorway exits, access routes and service roads for temporary use, and many more..

► Step 1: Preparation

Remove approx. 10- 20 cm of the old material, depending on the stability of the existing foundation. Then compress the exposed surface (approx. width 50-60 cm)..



► Step 3: Installation and vibration of the units

Connect each unit in at an angle of approx. 45 ° and let it fall. When pressure is applied by stepping on the unit, the crosses sink into the ground and fix the panel in the installation bed. Then vibrate the area while empty using a vibratory plate (approx. width 40 cm). Bend radii > 6.5 m can be laid with no additional cost..



► Step 2: Installation bed

A mineral aggregate with grain size 0/16 or 0/32 is suitable for the installation bed. Use a basic screed template to achieve a perfect surface for the units forming the top layer. The ideal measurement is 4.5 – 5 cm from the OK surface with a slight outward incline of approx. 1-2 %. The final position should be 1-2 cm below the carriageway surfacing.



► Step 4: Filling the units

It is easy to overfill the cells causing the filler to compact when vibrated. Clear away the excess material. An edge restraint can be used for extra stability if required..



Planting: If the panels are to be used for planting they should be filled no higher than