



BERA  GRASS FIX
 **eco**

Grass Stabilization System



BERA®

What is BERA® Grass Fix Eco?

BERA® Grass Fix Eco is a versatile yet strong method to reinforce your green areas. Most grass pavers made of concrete, tend to heat up causing the grass to dry out and scorch, creating discomfort for bare foot pedestrians. Due to the low thermal conductive properties of HDPE, BERA® Grass Fix Eco solves this problem. No more discomfort! Furthermore expansion of less than 0.29% per meter length at a temperature of 50 °C due to sun exposure, is normal.

Applications:

- Landscaping urban areas
- Residential gardens
- Parking and grass driveways
- Paths and service access routes

Features and benefits of BERA® Grass Fix Eco:

- Versatile modules with anti-slip nods, 60 x 40 cm with a honeycomb structure depth of 3.1 cm
- Easily cut around obstacles such as trees, shrubs or fences
- Fully porous, yet retaining humidity for the growth of the grass
- Anchored and interlocked sheets provide a stable base
- Strength empty up to 115 T/m² - DIN 14090
- European Union manufacturing following directives of ISO9001 and 14001
- Environmentally friendly solution, made of recycled HDPE and fully recyclable



Anti UV

for grassed parkings & driveways

UV stable

Environmental and Engineering Excellence

BERA® Grass Fix Eco is manufactured in the European Union under stringent Quality and Environmental Control standards, including ISO9001 and ISO14001 and was tested and approved by TÜV SÜD with reference to strength, environment and application according DIN 14090. The use of recycled raw materials and well developed infrastructure to minimize our delivery carbon footprint, underline our corporate vision in providing environmentally sustainable solutions.

BERA® Grass Fix Eco has 31 mm deep, open cell to ensure the highest vertical strength whilst allowing the grass to grow. Integrated anchors and interlocking systems provides stability and lateral strength for slopes and heavy duty use. Professional construction preparation methods and well drained foundations will ensure continued high performance of BERA® Grass Fix Eco for many years.

TECHNICAL SPECIFICATION*

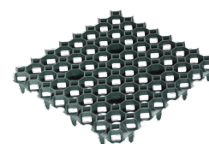
GENERAL

Material	: Recycled High Density PolyEthylene (HDPE)
Manufacturing technique	: High precision injection moulding
Manufacturing standards	: ISO9001, ISO14001
Application standards	: DIN 14090
UV and frost resistance	: included
Colour	: Green or Anthracite
Cell structure	: Honeycomb
Anchors	: Integrated
Interlocking	: Quick locking

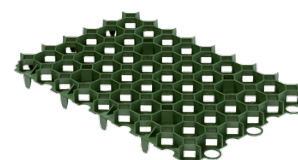
PHYSICAL DATA

	50.50	60.40
Standard sheet size	: 50 x 50 x 3.8 cm	56 x 38 x 3.1 cm
Standard size incl. anchor height	: 50 x 50 x 7.3 cm	56 x 38 x 6.6 cm
Tolerance dimensions	: +/- 2%	+/- 2%
Surface per sheet	: 0.25 m ²	0.211 m ²
Quantity per m ²	: 4	4.73
Quantity of sheets / m ² per pallet	: 240 sheets / 60 m ²	300 sheets / 63.4 m ²
Weight per sheet, approx.	: 1.2 kg	0.9 kg
Weight per m ² , approx.	: 4.8 kg	4.3 kg
Strength, empty DIN EN ESO 604	: 150 T/m ²	115 T/m ²
Thermal expansion at 50°C	: 0.29 %	0.29 %
EAN Code	: 4003412033211	4003412084183

*All data is subject to change without prior notice by the manufacturer



Series 50.50

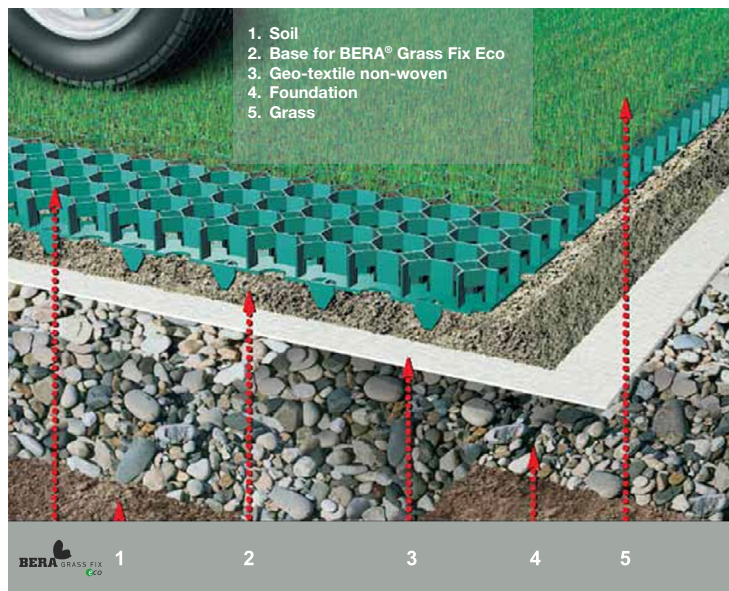


Series 60.40



Parking marker

LAYING INSTRUCTIONS



The quick-lock lightweight nodedd honeycomb sheets (approx. 0.9 kg) are easily laid. Typically 300-400 m² can be installed per day.



1. Foundation

The foundation method will depend on the local conditions of the soil and the expected load during usage. The foundation needs to be determined by specialists in order to reach the desired results. Below are the typical guidelines:

A foundation of 20 – 30 cm compacted gravel (depending on the load) will form a permeable subbase. For vehicle use it is recommended that a non-woven geo-textile of 300 – 500 g/m² is laid over the compacted gravel in order to separate it from base (see below). Instability of the surface may result if this is not done.

2. Base for BERA® Grass Fix Eco

A levelled base of mixed sand and crushed stone with a thickness of 5-7 cm should be placed on top of the geo-textile sheet. Levelling recommended to be done at temperatures not below 3 °C. Edging is required to prevent sheets from shifting during usage. BERA® Edging Systems are available in steel (galvanized or COR-TEN), aluminium (silver, black or brown) and come complete with stakes for quick installation.

To allow the sheets to expand during high ambient temperatures, it is recommended that an expansion space of 2-5 cm be left between edges and obstacles, depending on the total surface size.

3. BERA® Grass Fix Eco sheets

After completing the foundation, base and edging, the sheets can be laid quickly. Stretcher bond pattern for additional stability. Pallets with 300 sheets (gross 63.4 m²) can be positioned close to the working area and no tools are required for the laying.

Anchors are integrated into the sheets for additional stability. For slopes or banks additional anchoring may be required. Use light compacting machines if and when required. For adjustment of the sheets at corners or obstacles a handsaw or circular saw can be used.

4. Grass

Drought resistant grasses, appropriate to the area should be used. After filling the honeycomb sheets with a mixture of sand, peat and soil (approx 40/30/30%) watering of the BERA® Grass Fix Eco sheets is recommended prior to sowing.

Use a suitable fertilizer and water frequent to ensure fast and consistent grass growth. After some time the soil mixture used to fill the sheets will compact by about 1 cm leaving sufficient space for the grass to grow undamaged.

Normal lawn maintenance including watering, fertilizing and cutting should be done at regular intervals.





BERA® is the trademark of BERA B.V. of The Netherlands, a company which develops stabilization systems, eco systems and prestigious outdoor living concepts.

With the company's historical roots & wealth of know-how in landscaping and architectural fields, they create innovative and environmentally sustainable solutions, supplied throughout Europe, the Middle-East, South Africa and S-E Asia regions.

Contact:

BERA B.V. (The Netherlands)

T: +31 (0) 33 257 0302

E: info@bera-bv.com

BERA B.V. (Germany)

T: +49 (0) 30 78 71 68 85

E: kontakt@bera-bv.com

BERA Sarl (France)

T: +33 (0) 9 81 12 76 58

E: info@bera-sarl.fr

BERA B.V. (Africa)

T: +27 83 449 3954

E: franko@bera-bv.com

www.bera-bv.com

