

**BERA** GeoPocket

**Sub-Base Stabilization & Erosion Control**



### What is BERA® GeoPocket?

The BERA® GeoPocket is a woven geotextile Cell-system that functions as an erosion layer, waterbuffer and base stabilization layer. Manufactured in woven design offering stability, separation and filtration in soils with low bearing capacity. The BERA® GeoPocket has 7 cm deep cells firmly holding a variety of infill and when combined with a solid bottom, their polymeric structure is durable enough to resist permanent deformation. It reduces traditional sub-base thickness with 50-75%.

### Applications:

- 👉 Sub-base construction
- 👉 Embankments and slopes
- 👉 Channel protection
- 👉 Urban landscaping
- 👉 Sportsfield foundation
- 👉 Road and parking construction

### Features and benefits of BERA® GeoPocket:

- 👉 Durable and 100% recyclable lightweight subbase
- 👉 Fully drainable in vertical and horizontal directions
- 👉 Waterbuffer capacity
- 👉 Reducing sub-base thickness, thus lowering CO<sub>2</sub> footprint
- 👉 Ship 1 m<sup>3</sup> > Install 15.8 m<sup>3</sup>, reducing logistics cost and CO<sub>2</sub>
- 👉 Distributes load under soft ground conditions
- 👉 Lightweight modules, fast and easy installation

### TECHNICAL SPECIFICATION\*

#### GENERAL

Material	: Polypropylene
Specific fabric weight	: 102 g/m <sup>2</sup>
Manufacturing standards	: REACH, ISO9001, ISO14001
UV and frost resistance	: Included
Colour	: Black
Cell structure	: Diamond-shaped, 13 x 7 cm
Cell depth	: 5.5 cm
Water accumulation	: Included, average 2.5 l/m <sup>2</sup>
Water permeability	: 6 mm/s
Static puncture resistance	: > 2.400 N

#### PHYSICAL DATA INSTALLED

Standard sheet L x W	: 23.8 x 4.7 m
Height	: 5.5 cm
Tolerance dimensions	: +/- 2%
Surface per panel	: 112 m <sup>2</sup>
Volume (empty) per panel	: 7.3 m <sup>3</sup>

#### PHYSICAL DATA FOLDED / SHIPPED

Panel when folded L x W x H	: 5.05 x 1.1 x 0.075 m (incl. packing H = 0.1 m)
Weight per panel incl. packing	: 82 kg
Per pallet 8 sheets	: for 896 m <sup>2</sup>
Pallet dimensions	: 510 x 110 x 95 cm
Weight per pallet (gross/nett)	: 720 / 656 kg
Per truck / 40'HC	: 7.168 m <sup>2</sup>
Customs HS code	: 54072019

*\*All data are subject to change without further notice*

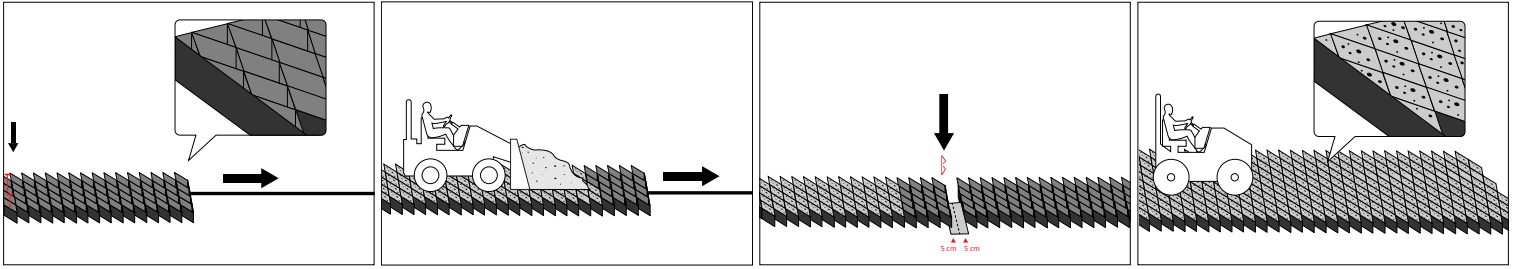
### Environmental and Engineering Excellence

BERA® GeoPocket is manufactured in the Netherlands under stringent Quality and Environmental Control. The full process includes processing post-industrial plastic waste into a fully recyclable ultra-strong stabilization product. The well developed infrastructure to minimize our delivery carbon footprint underlines our corporate vision in providing environmentally sustainable solutions.

BERA® GeoPocket has 55 mm deep, closed, yet drainable cells to ensure the highest vertical strength. It provides stability, waterbuffering and lateral strength for landscapes and heavy duty use under roads or parkings.

Professional construction preparation methods and well drained foundations will ensure continued high performance of BERA® GeoPocket for many years.

# LAYING INSTRUCTION



## horizontal application (sub base):

### 1. Foundation

The preparation of the foundation will depend on the local conditions of the soil and the expected load on the BERA® GeoPocket system, after installation. It's important that the foundation is well compacted and more or less horizontal. BERA® GeoPocket can reduce excavation with up to 65%.

Here are the typical guidelines only: A foundation of 20 – 40 cm compacted crushed stones and gravel (depending on the load) will form a permeable subbase. Level and compact the area.

### 2. BERA® GeoPocket

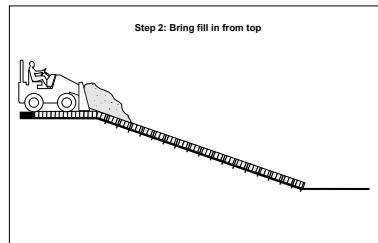
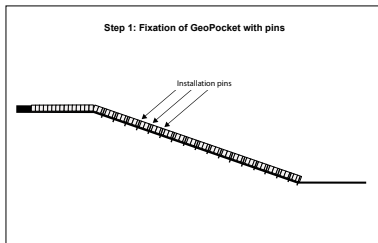
Expand the GeoPocket and cut to size if required. Use soil nails to fix the position in expanded position, preferably in the corners and at the sides. Fill the pockets completely with available infill i.e. split in any size in between 3 and 30 mm. Compact the layer with lightweight compactor. Top-up the split to ensure all pockets are filled 100%.

### 3. Non-woven geo-textile

Lay a non-woven of 200– 300 g/m<sup>2</sup> over the filled and compacted GeoPocket to separate it from the top layer (4). This will prevent mixing or blending of material and top layer, which might lead to loss of stability of the base.

### 4. Top layer

The top layer can be any desired material such as substrates or crushed stones to create parking lots or roads as per the local standards.



## slope application:

### 1. Foundation

Prepare the foundation by removing debris, rocks, existing vegetation and other irregularities which might disturb a good connection between the BERA® GeoPocket and the sub grade.

### 2. Compact foundation

Make sure the foundation is well compacted, creating a more or less smooth surface on which the BERA® GeoPocket can be installed.

### 3. BERA® GeoPocket

Expand the GeoPocket and cut to size if required. Use sufficient and long soil nails to fix the position in expanded position, preferably in upper part and the corners and the sides. Fill the pockets from the top of the sloped area completely with available infill and spread the infill over the BERA® GeoPocket cells. Compact the infill gently into the cells.



**B**ERA® 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, Africa, Central America and S-E Asia regions.

#### Contact:

BERA B.V. (The Netherlands)  
T: +31 (0) 33 257 0302  
E: info@bera-bv.com

BERA (Africa) Pty Ltd  
T: +27 83 449 3954  
E: franko@bera-bv.com

BERA Slovakia s.r.o. (Slovakia)  
T: +421 910 705 706  
E: slovakia@bera-bv.com

BERACR Centro América  
(Centro América)  
T: +(506) 87039731  
E: centro.america@bera-bv.com

BERA Sarl (France)  
T: +33 (0) 9 81 12 76 58  
E: info@bera-sarl.fr

BERA Egypt  
T: +02012 042 411 16  
E: sally@bera-bv.com

BERA B.V. (Germany)  
T: +49 (0) 30 78 71 68 85  
E: kontakt@bera-bv.com

BERA CZECH s.r.o. (Czech Republic)  
T: +420 777 484 937  
E: beracz@bera-bv.com

BERA B.V. (Russia)  
T: +7 910 440 64 70  
E: russia@bera-bv.com

