

An aerial photograph of a paved area. The pavement is made of light-colored, square tiles with a grid pattern. A tree pit is visible, containing a tree trunk, white pebbles, and green ferns. The text 'DURANO' and 'GROUND SYSTEM' is overlaid in the upper right, and 'COLLECTION 2026 / 27' is overlaid in the lower right.

DURANO

GROUND SYSTEM

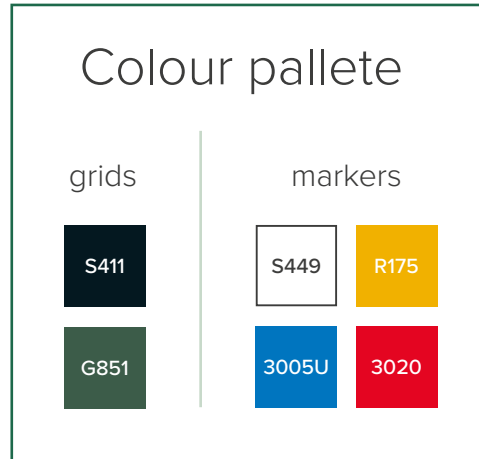
COLLECTION 2026 / 27

Grids from the Durano Pro Green Space collection are made from recycled materials; they are durable and robust. In addition, they are very easy to install. They are well suited for use in horticulture, road construction, and urban green space projects.






The grids are compliant with REACH requirements and have been tested by the Road and Bridge Research Institute in relation to the National Technical Assessment, obtaining the B construction mark.

Manufactured from durable recycled material, the grids are characterised by high mechanical resistance, low weight, and ease of installation, which significantly accelerates on-site works.


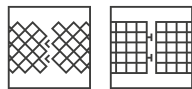







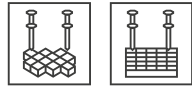


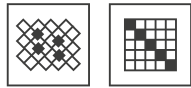




The wide range of Durano grids allows for the selection of solutions that meet specific requirements and enable the creation of efficient, water-permeable surfaces with confirmed biological activity.



Designations

-  symbol
-  dimensions
-  grid area [m²]
-  maximum weight* [t/m²]
*The stated maximum permissible load applies solely where a suitably designed structural sub-base has been provided.
-  biologically active surface* [%]
*an area with a surface designed to support natural vegetation growth and rainwater retention.

Legend

	light weight		fixing clips		pedestrian pathway		green areas
	durability and strength		grid installation		cycle path		road verges
	no tools required		ground anchoring		slopes and embankments		car parks
			installation of ground markers		recreational areas		lorry parks
					fire access road		road verges



INDEX

grids



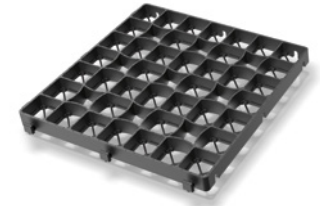
Lawn p. 2 – 3



Plant p. 6 – 7



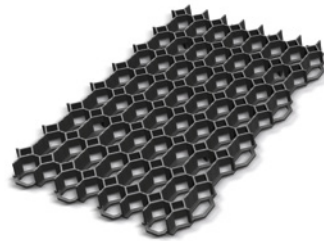
Hold Bend p. 10 – 11



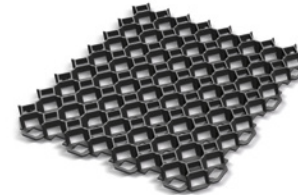
Max p. 14 – 15



Universa p. 4 – 5



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accessories



Standard p. 16



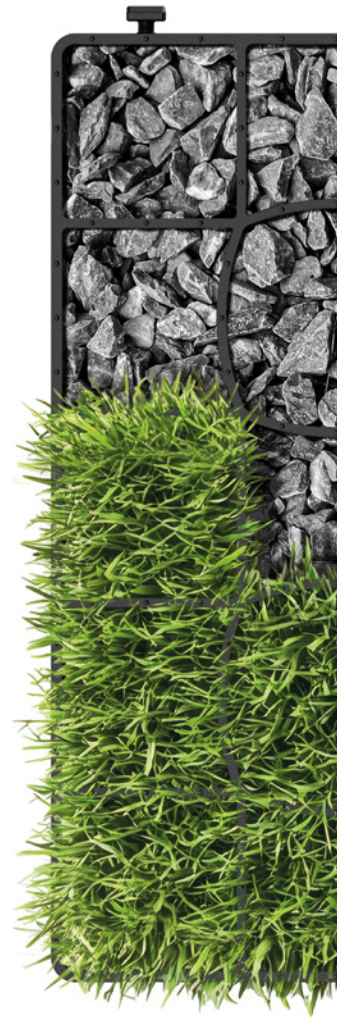
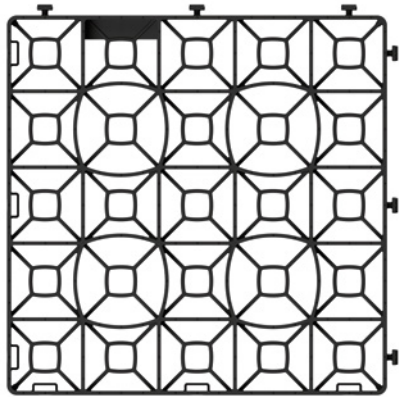
Pro p. 16



**Road & Smart
Marker** p. 17




**Max
Marker** p. 17



Lawn

 **DIL25**

 400 x 400 x 25 mm

 ~0,15 m²

 ~92 t/m²

 PBC 88%

402 pcs



1200 x 800 mm

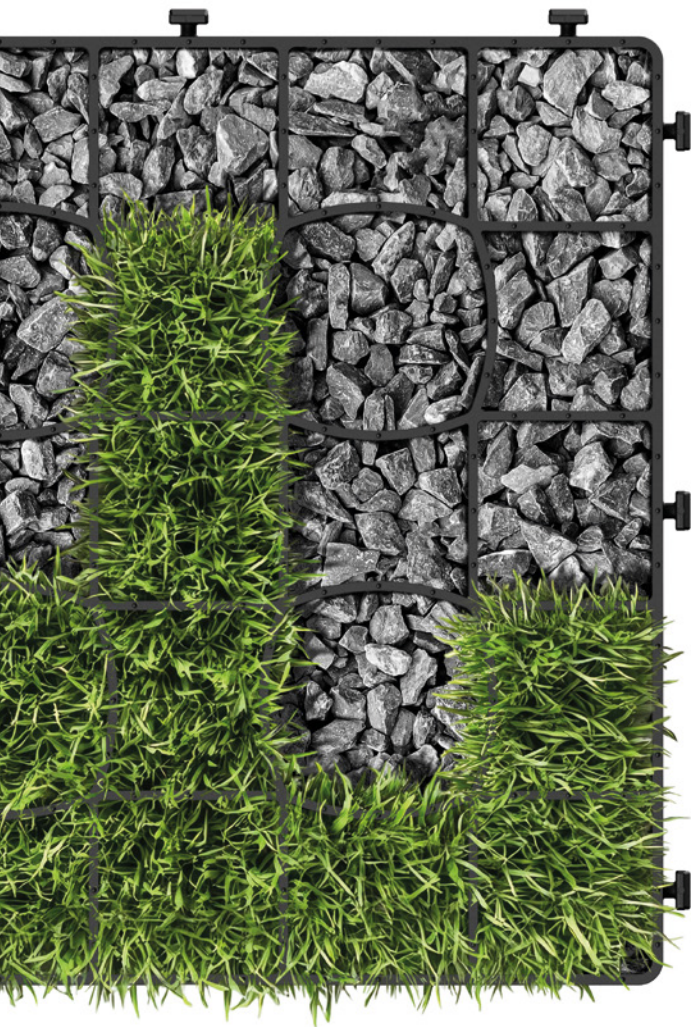
Technical Features:

- designed for the stabilisation of green surfaces
- recommended for light-duty applications
- low infill material consumption
- aesthetically pleasing surface finish
- durable construction resistant to weather conditions
- quick and easy installation
- high permeability supporting biological activity

S411 G851



The stated maximum permissible load applies solely where a suitably designed structural sub-base has been provided.

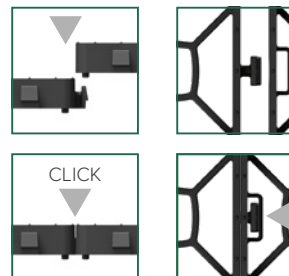


accessories

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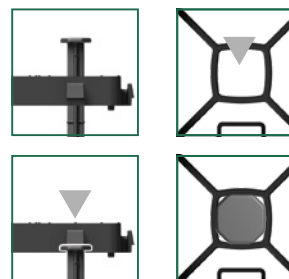


assembly instruction



anchor

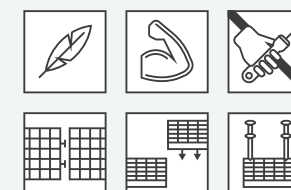
DIAK1

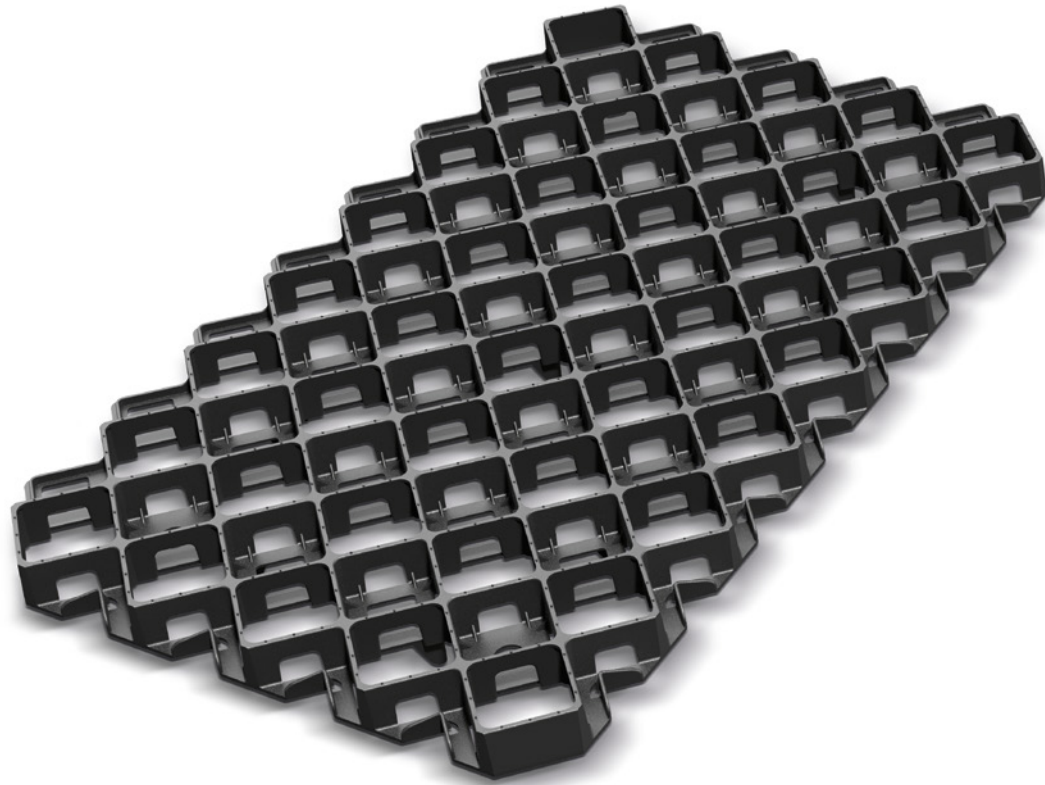
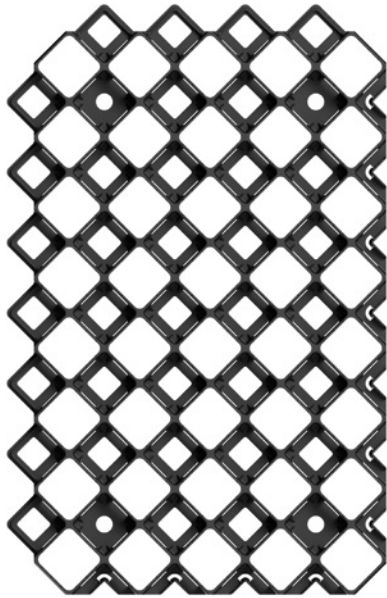


The Lawn grass grid is a functional solution for the stabilisation of green surfaces, primarily intended for light-duty applications. It performs well in private and residential settings. The grid can be used, among other things, for the construction of pedestrian paths and for reinforcing ground around the home. Thanks to its height of 2,5 cm, the grid requires only a small amount of infill material, which helps reduce project costs while maintaining both the aesthetic appearance and the stability of the surface.



strong & functional





Universa

 **DIU30**

 600 x 400 x 30 mm

 ~0,22 m²

 ~222 t/m²

 PBC 90%

224 pcs



1200 x 800 mm

Technical Features:

- surface stabilisation and reinforcement system
- versatile application in functional and recreational spaces
- high structural strength
- aesthetic and functional surface finish
- quick and easy installation
- cost-effective investment solution
- resistant to weather conditions
- high biologically active permeability



The stated maximum permissible load applies solely where a suitably designed structural sub-base has been provided.

S411

G851

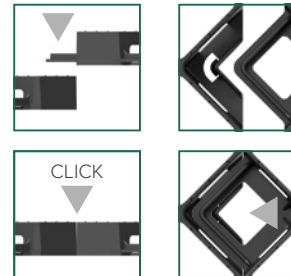


accessories

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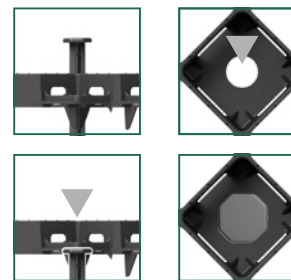


assembly instruction

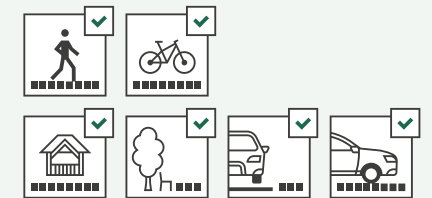


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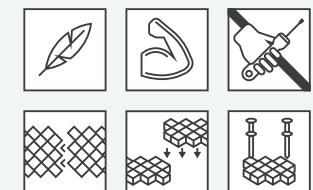
DIAK1

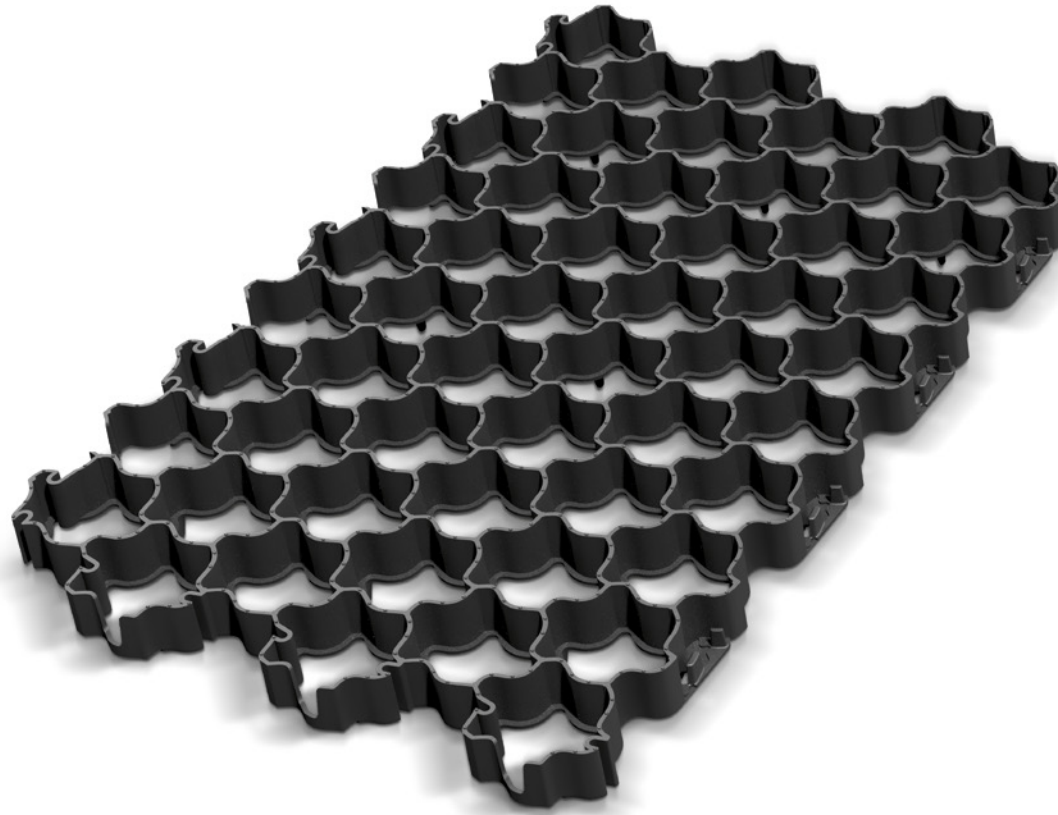
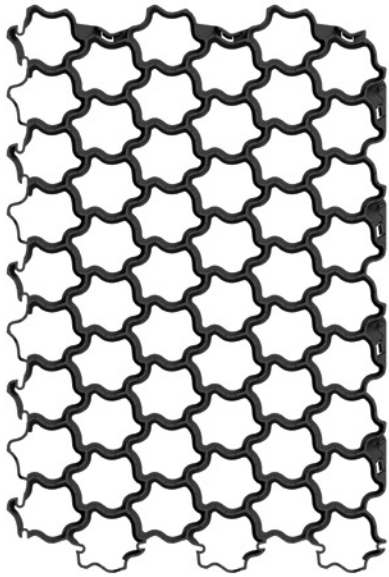


UNIVERSA grid is a versatile solution for areas stabilisation in functional and recreational spaces. Thanks to its well-engineered design, it combines high durability with aesthetic and functional performance, enabling the creation of long-lasting, permeable and environmentally friendly surfaces. The product helps preserve the natural character of the terrain while effectively reinforcing it and adapting it to a variety of uses.



strong & functional





Plant



DIP33



600 x 400 x 33 mm



~0,23 m²



~326 t/m²



PBC 91%

200 pcs



1200 x 800 mm

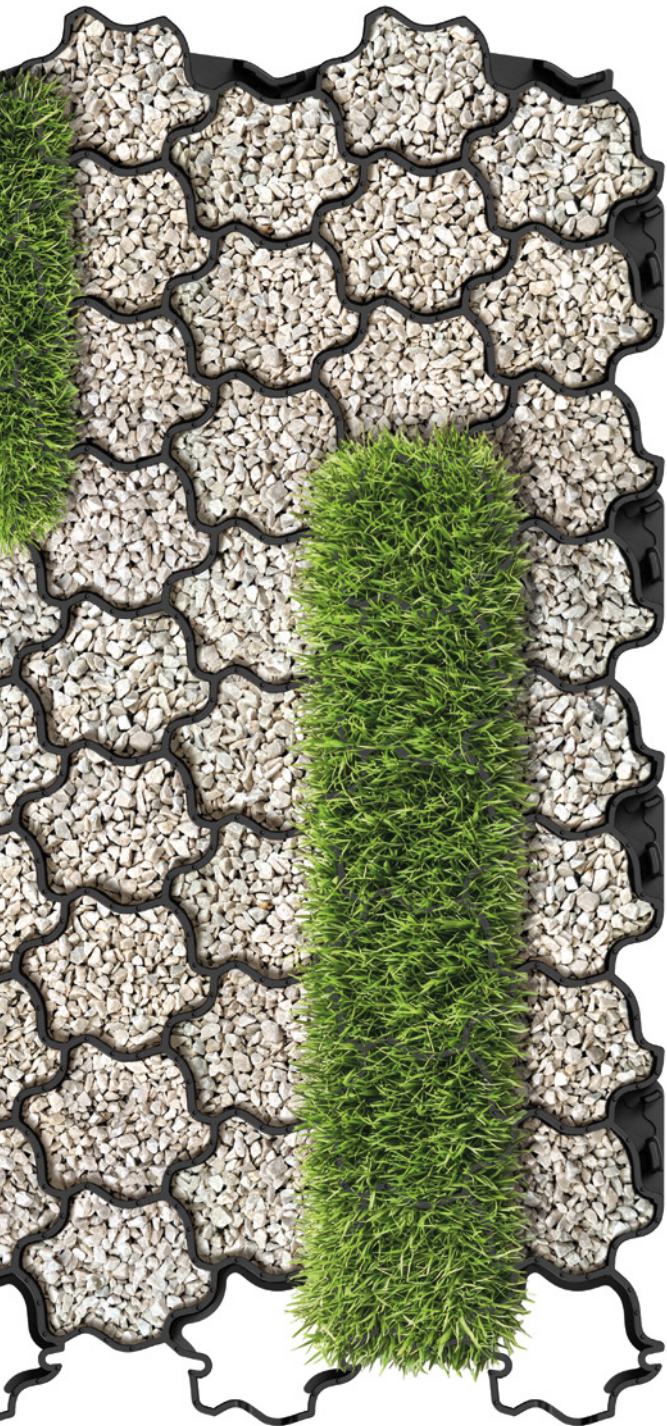
~1880 mm

Technical Features:

- surface stabilisation and reinforcement system
- structure allowing natural vegetation growth
- versatile use
- easy installation
- resistant to weather conditions
- environmentally friendly land development solution
- high permeability supporting biological activity



The stated maximum permissible load applies solely where a suitably designed structural sub-base has been provided.

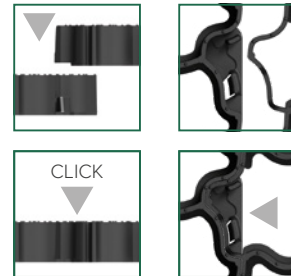


accessories

p. 16 – 17

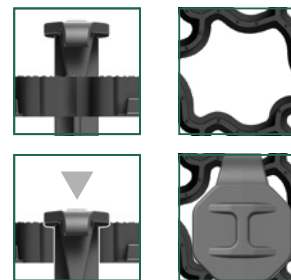


assembly instruction

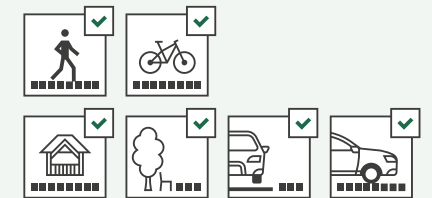


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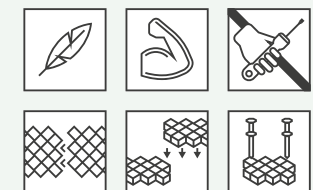
DIAK2

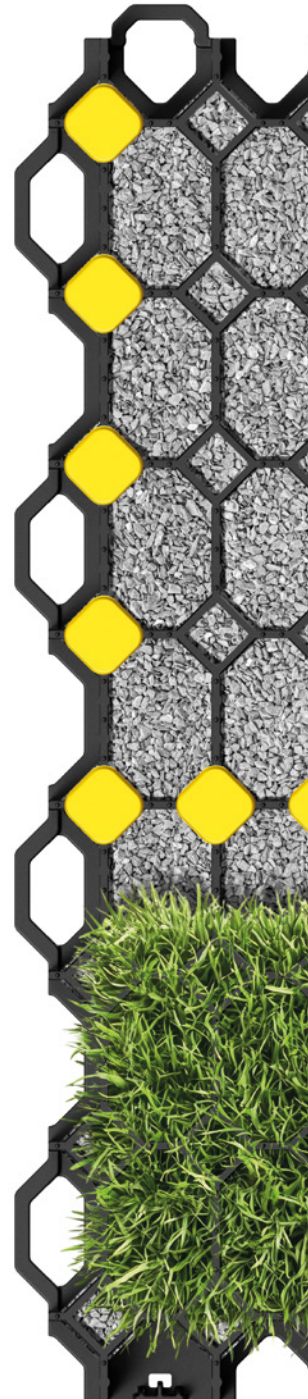
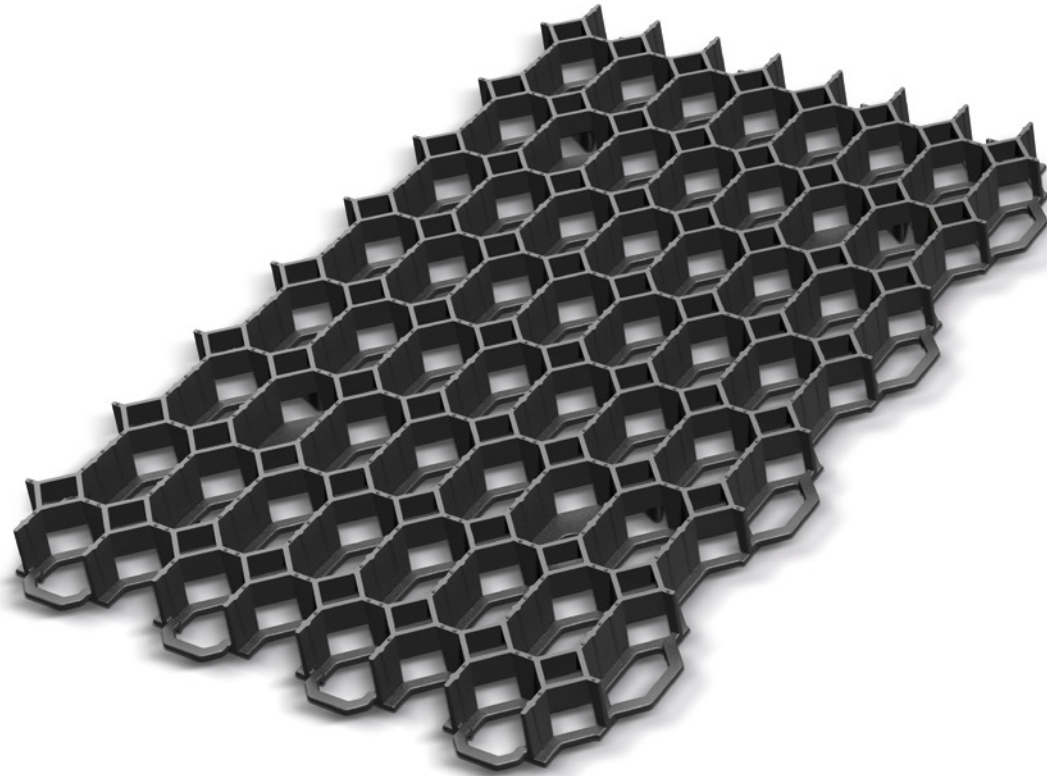
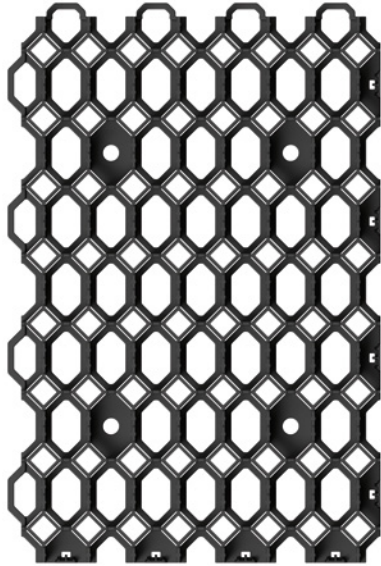


The PLANT grid is a versatile solution for surface reinforcement, balancing functionality, durability and a natural appearance. Its design allows for natural vegetation growth while maintaining high load-bearing capacity. Thanks to its versatility, the PLANT grid enables the creation of stable, aesthetically pleasing and water-permeable surfaces, suitable for a wide range of applications.








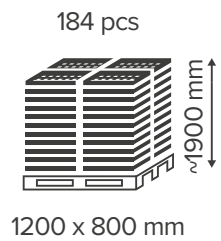
strong & functional





Smart


-  **DIS37**
-  600 x 400 x 37 mm
-  ~0,24 m²
-  ~178 t/m²
-  PBC 88%

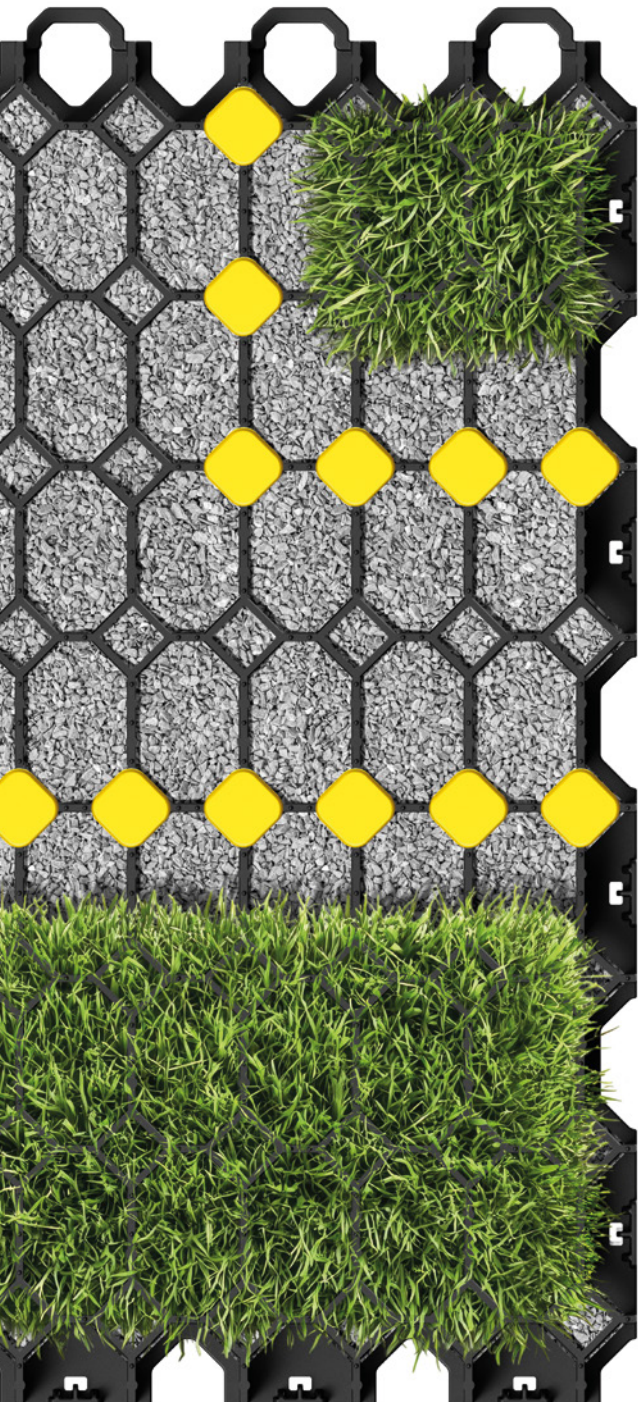


Technical Features:

- surface stabilisation and reinforcement system
- high load-bearing capacity and resistance to pressure
- durable construction designed for intensive use
- quick and easy installation
- resistant to weather conditions
- aesthetically pleasing and functional surface finish
- high permeability supporting biological activity



 The stated maximum permissible load applies solely where a suitably designed structural sub-base has been provided.

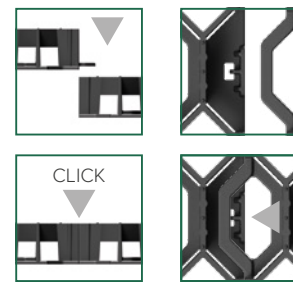


accessories

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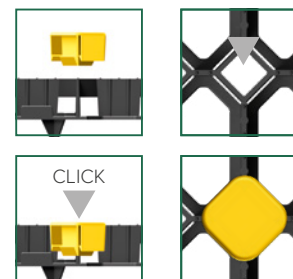


assembly instruction



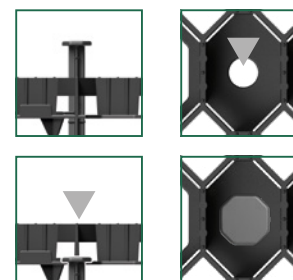
ground markers

DIAM1

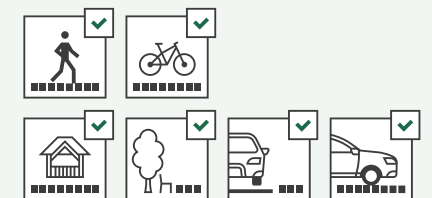


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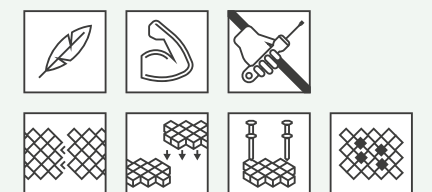
DIAK1

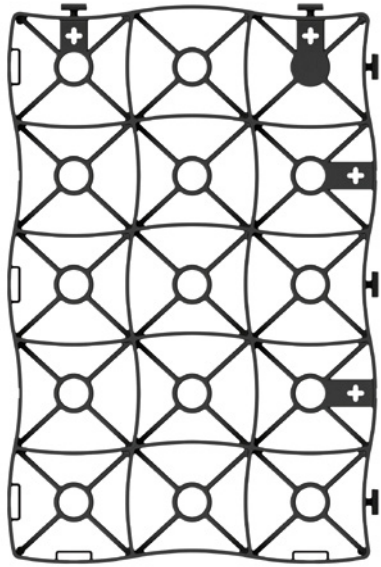


SMART grid is a durable surface stabilisation system designed for versatile use in public, industrial and private infrastructure. The 60 × 40 cm module combines high load-bearing capacity with easy installation and resistance to varying operating conditions. Thanks to its well-engineered design, the SMART grid allows the creation of durable, aesthetically pleasing and permeable surfaces suitable for a wide range of technical and traffic applications. Compatible with the Road & Smart Marker parking marker system.



strong & functional





Hold Bend

DIH40

600 x 400 x 40 mm

~0,22 m²

~173 t/m²

PBC 88%

172 pcs



1200 x 800 mm

Technical Features:

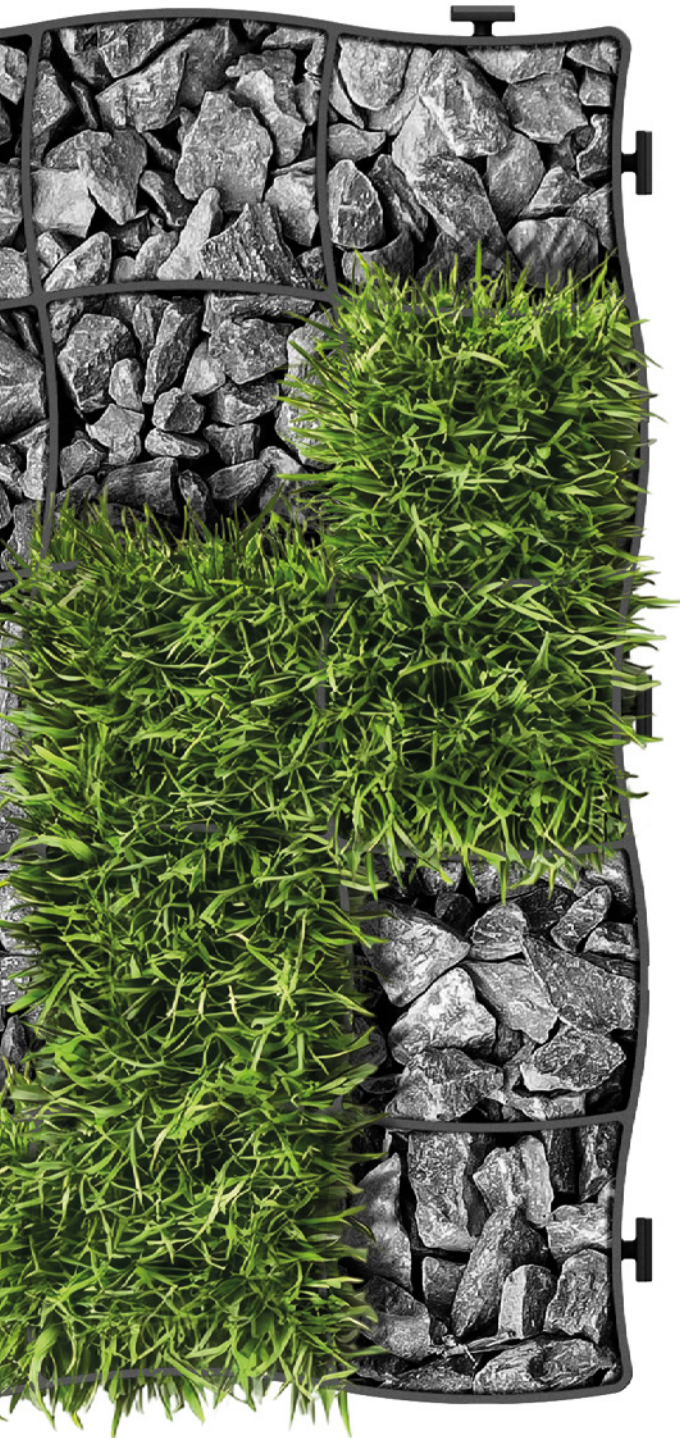
- suitable for reinforcing riverbanks, shorelines and retention basins
- manufactured from recycled materials
- lightweight structure for easy transport and installation
- durable and resistant to weather conditions
- quick and simple installation without the need for specialist tools
- intended for light-duty applications
- recommended for areas with low usage intensity
- suitable for landscaping and urban green infrastructure projects



The stated maximum permissible load applies solely where a suitably designed structural sub-base has been provided.

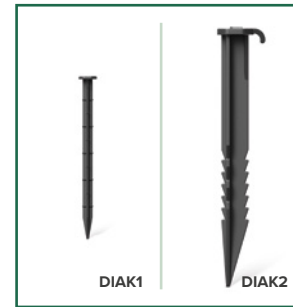
S411

G851

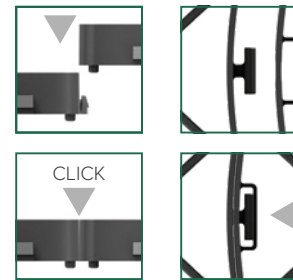


accessories

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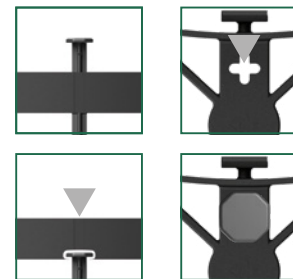


assembly instruction



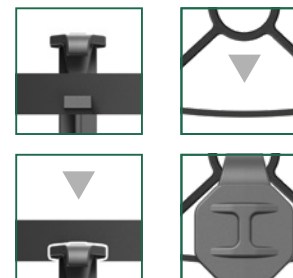
anchor

DIAK1

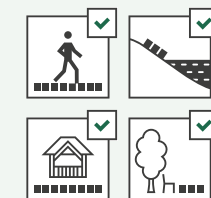


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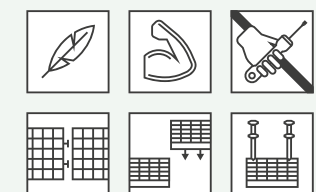
DIAK2

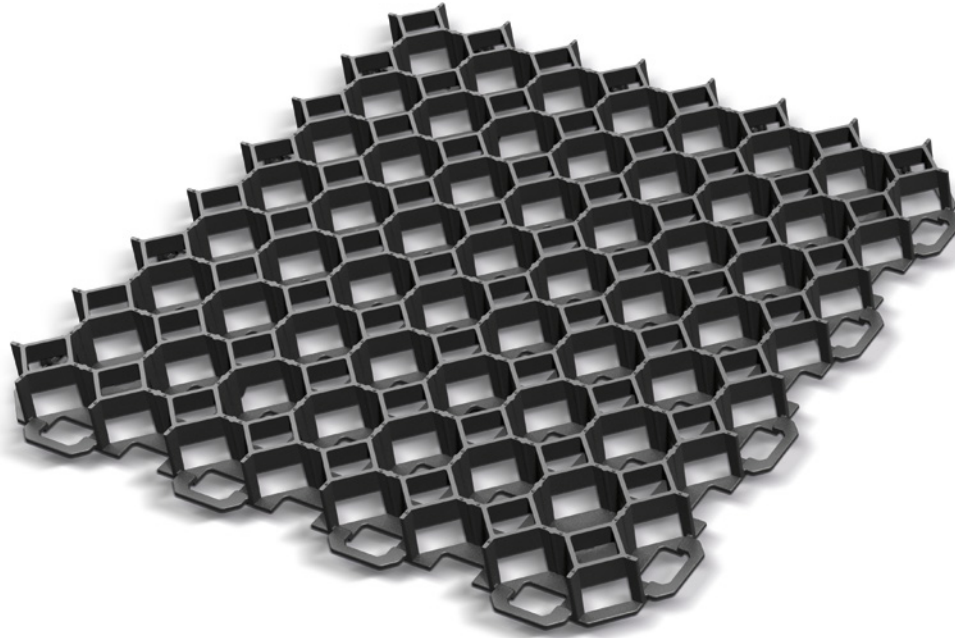
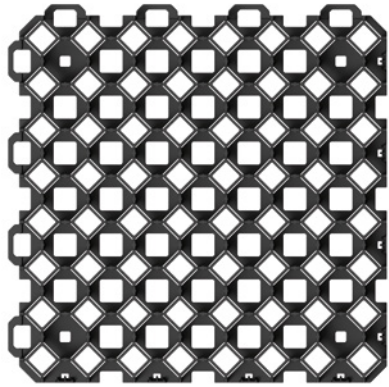


The Hold Bend grid is a practical solution for ground stabilisation on slopes and embankments, including railway embankments, as well as for securing riverbanks, shorelines and retention basins. Manufactured from recycled materials, it combines a lightweight structure with durability and ease of installation. The product is suitable for use in landscaping, road construction and urban green infrastructure projects. It is designed for light-duty applications and areas with limited traffic.



strong & functional





Road



DIR40



500 x 500 x 40 mm



~0,24 m²



~220 t/m²



PBC 90%

202 pcs



1000 x 1200 mm

Technical Features:

- surface stabilisation and reinforcement system
- designed for medium - and high -load applications
- high structural rigidity
- quick and easy installation
- resistant to intensive use and adverse weather conditions
- high permeability supporting biological activity



The stated maximum permissible load applies solely where a suitably designed structural sub-base has been provided.

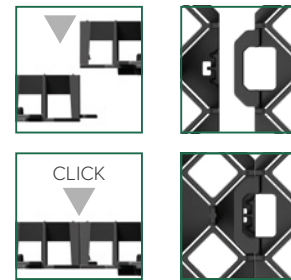


accessories

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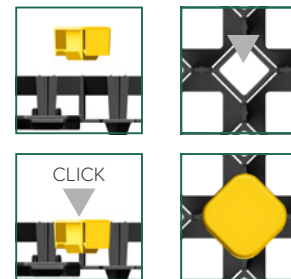


assembly instruction



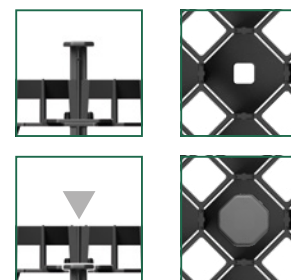
ground markers

DIAM1

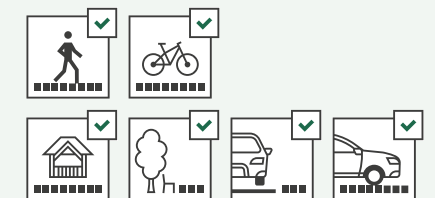


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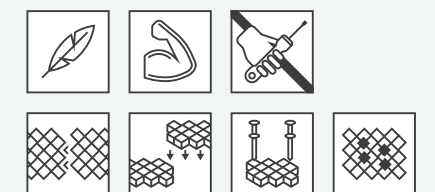
DIAK1

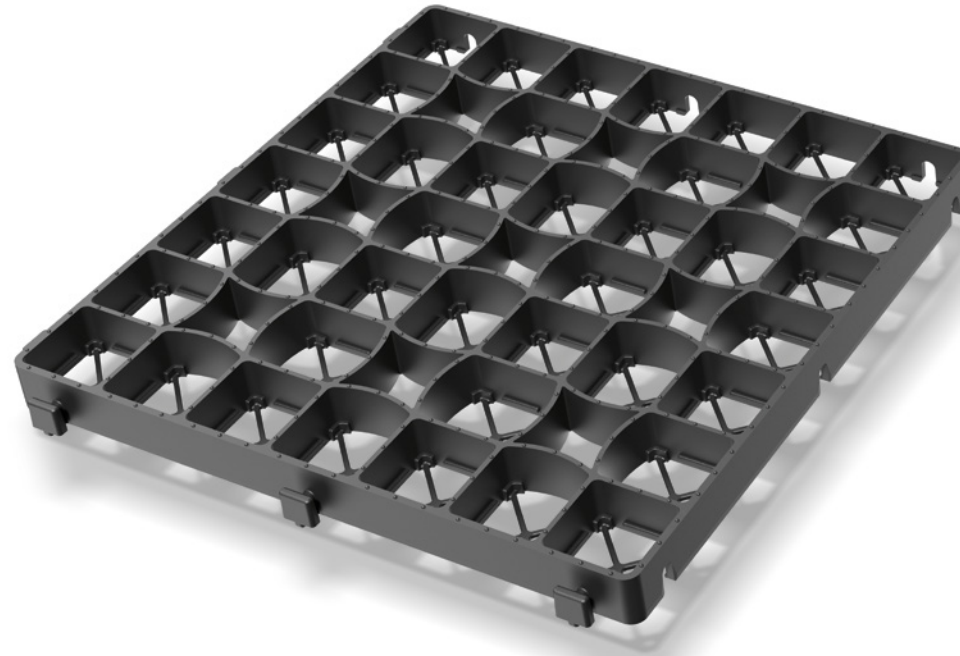
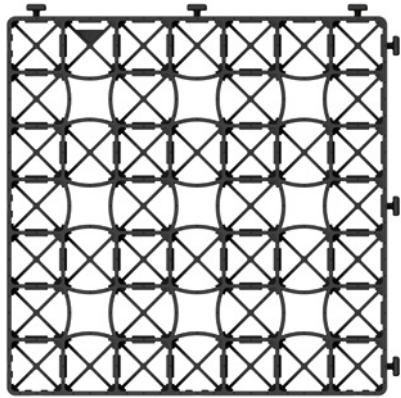


The ROAD grid is a professional solution for the reinforcement and stabilisation of surfaces subjected to medium and high loads. The 50 × 50 cm module enables fast installation and provides high structural rigidity, allowing the creation of durable, load-bearing and permeable surfaces. Thanks to its well-engineered design, the ROAD grid combines high load-bearing capacity and long service life with an aesthetically pleasing finish and a permeable surface character, making it suitable for a wide range of technical and transport applications. Compatible with the Road & Smart Marker parking marker system.



strong & functional





Max

 **DIM40**

 500 x 500 x 40 mm

 ~0,24 m²

 ~374 t/m²

 PBC 87%

202 pcs



1000 x 1200 mm

Technical Features:

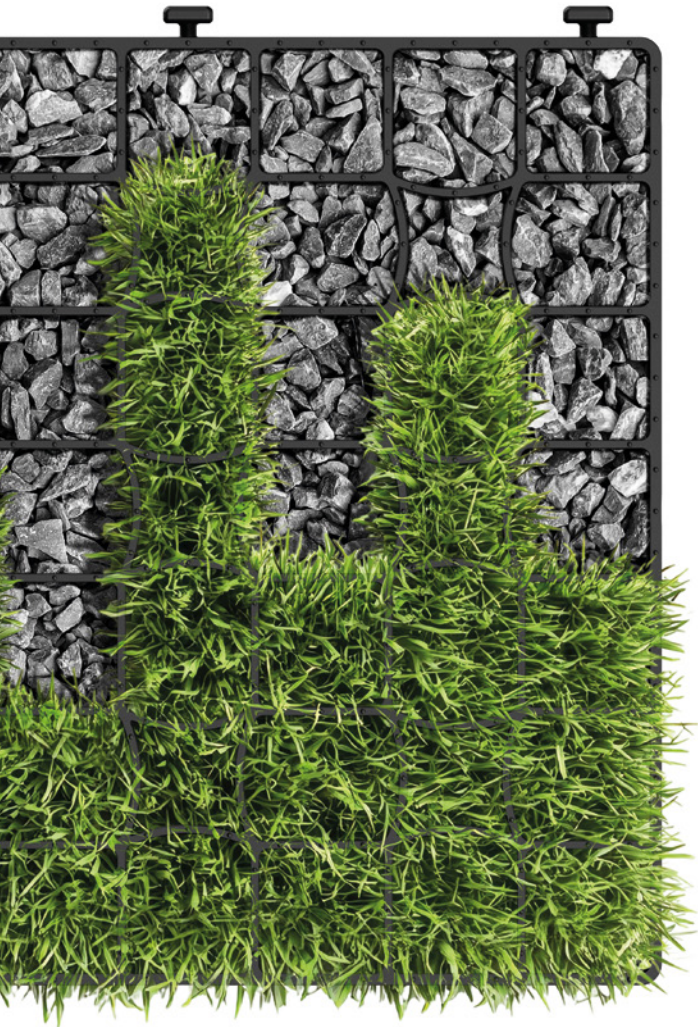
- professional surface stabilisation and reinforcement system
- designed for very high-load applications
- reinforced structure with high rigidity
- extremely high resistance to pressure
- modular design for fast installation
- resistant to heavy use
- durable and aesthetically pleasing surface finish
- heavy-duty solution for demanding applications

S411

G851



The stated maximum permissible load applies solely where a suitably designed structural sub-base has been provided.



accessories

p. 16 – 17

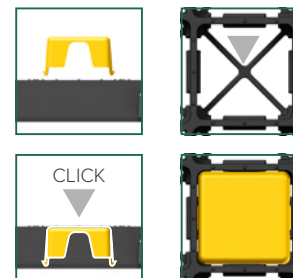


assembly instruction

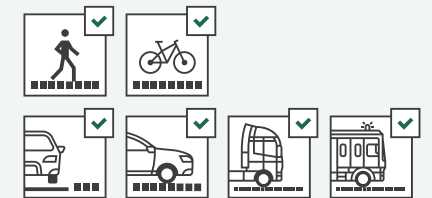


ground markers

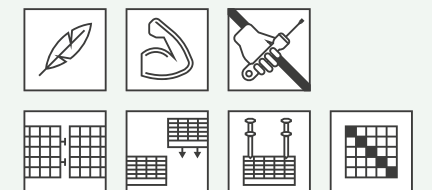
DIAM2



The MAX road grid is a solution designed for the most demanding applications. Its reinforced structure provides maximum stability, very high load-bearing capacity and long-term durability, even under heavy use. The modular design and high load-bearing capacity allow for the creation of reliable, safe and long-lasting load-bearing surfaces. It is a professional solution for projects where no compromises can be made in terms of strength and reliability, particularly in technical and transport applications. Compatible with the Max Marker parking marker system.



strong & functional





Standard

 **DIAK1**

 28 x 28 x 245 mm

S411

Compatible with:

Lawn

DIL25

Universa

DIU30

Smart

DIS37

Hold Bend

DIH40

Road

DIR40

Technical Features:

- resistant to weather conditions
- features a tapered tip for easier ground penetration

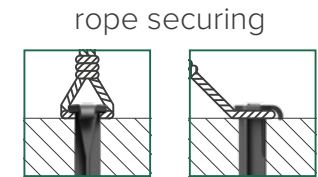


Pro

 **DIAK2**

 73 x 56 x 392 mm

S411



Compatible with:

Hold Bend

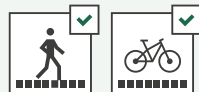
DIH40

Plant

DIP33

Technical Features:

- suitable for use in loose soils and on steep slopes
- effective for securing tents, garden pavilions and netting



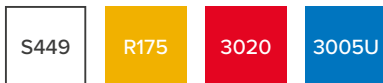
accessories



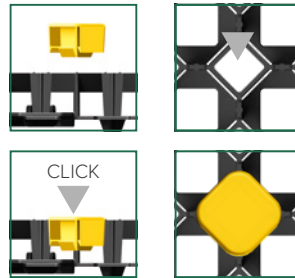
Road & Smart Marker

 **DIAM1**

 40 x 40 x 30 mm



assembly instruction



Compatible with:

Smart
DIS37

Road
DIR40

Technical Features:

- designed for creating markings and lettering on the grid
- features hooks ensuring secure fixing to the grid



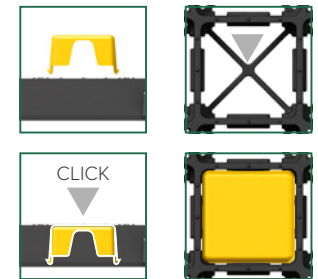
Max Marker

 **DIAM2**

 61 x 61 x 37 mm



assembly instruction



Compatible with:

Max
DIM40

Technical Features:

- designed for creating markings and lettering on the grid
- features hooks ensuring secure fixing to the grid
- once installed, it does not protrude above the top surface of the grid

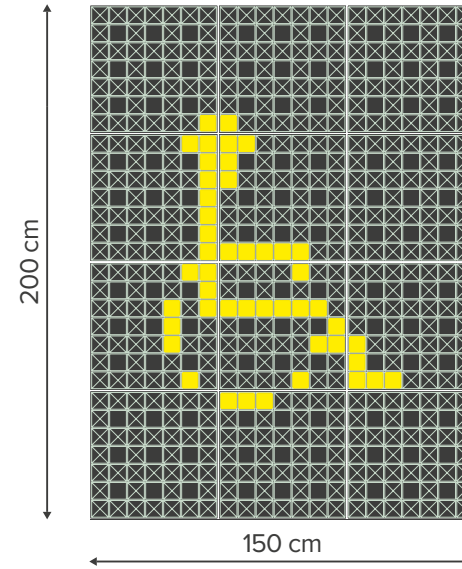


The markers are used to define the boundaries of parking spaces, accessible parking bays, pedestrian routes, cycle paths, access roads and fire access routes. They are equipped with hooks that secure them to the lower edges of the grid. Manufactured in colours contrasting with the grid, they ensure excellent visibility of the designated areas

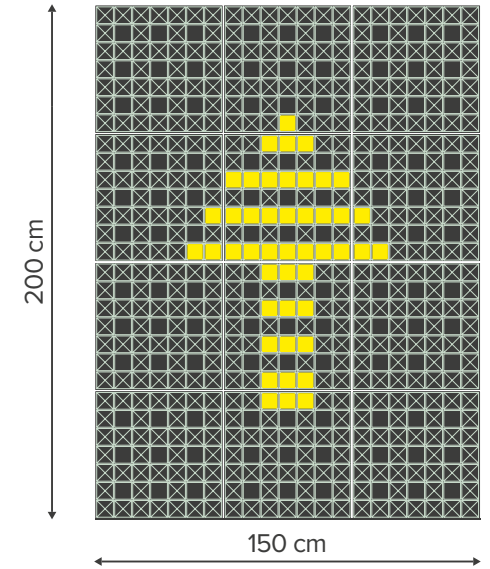


Max
Marker
DIAM2

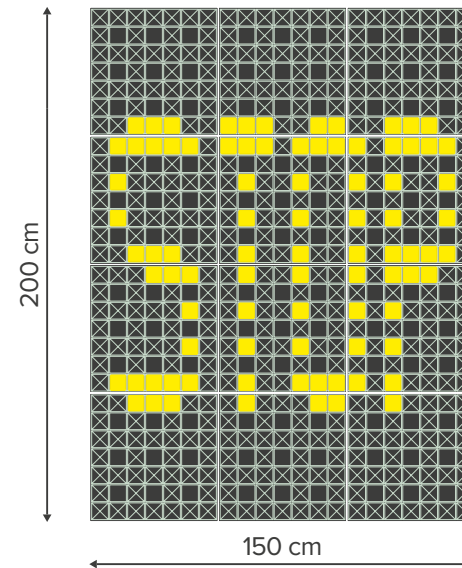
46 pcs



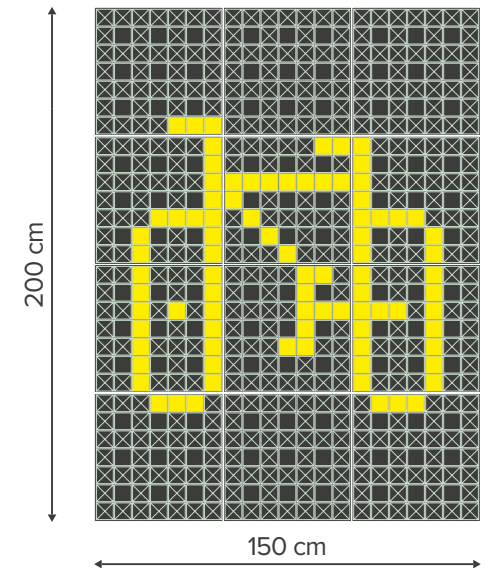
46 pcs



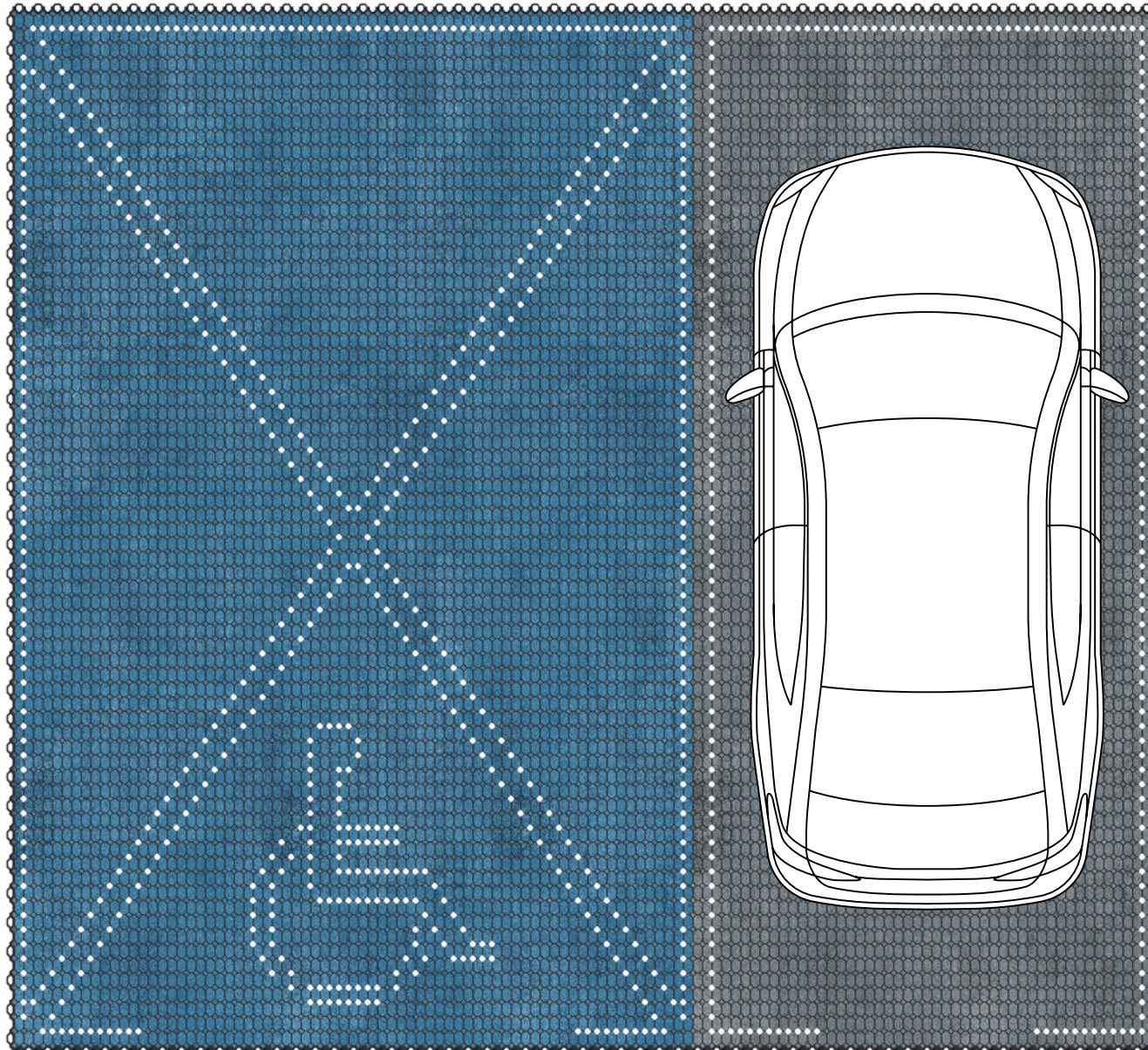
86 pcs



86 pcs



accessories



Road & Smart
Marker
DIAM1

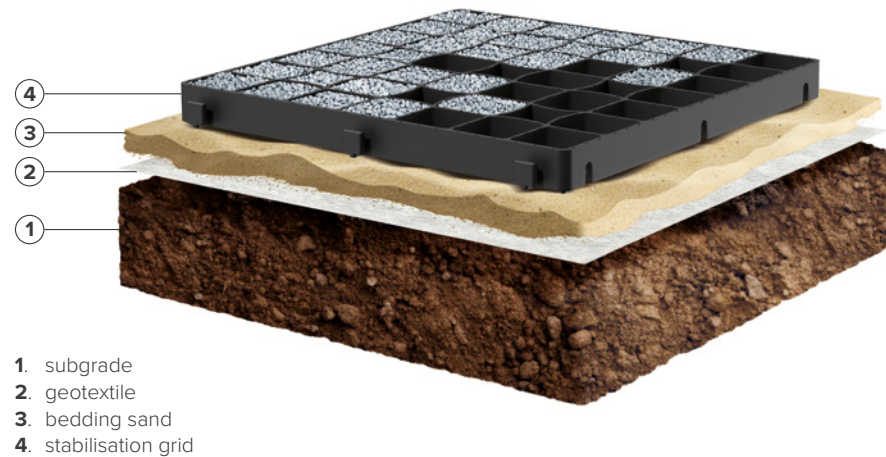
The sub-base acts as the load-bearing layer of the entire structure, ensuring the stability of the grids and the system's resistance to loads. When properly constructed, it prevents damage to the grids caused by vehicle wheel pressure and avoids the formation of depressions or ruts in the surface. The sub-base should be made from a permeable material, such as crushed stone. The thickness of the load-bearing layer should be adapted to the intended use of the surface, traffic intensity and specific local conditions. Any errors in the construction of the sub-base may lead to the destabilisation of the entire system.

- The use of geotextile prevents the mixing of sub-base layers.
- The grids should be filled with crushed aggregate (construction or decorative), which allows for proper compaction of the material.



Sub-base layout for residential use

- The minimum infill level should be 10 mm above the top edge of the grid
- The grids must be fully filled. Leaving cells empty may result in damage during use.
- If the infill level falls below the top edge of the grid, the aggregate should be topped up so that it fully covers the grid again.
- After filling, the grids may be re-compacted using a plate compactor fitted with a rubber pad to ensure even distribution of the material.
- The grid material changes in volume with temperature variations; therefore, an expansion gap of approximately 3% of the grid side length should be provided where it meets fixed surfaces.
- Expansion joints should be filled with sand or soil; stone fillings must not be used.



Sub-base layout for pedestrian use



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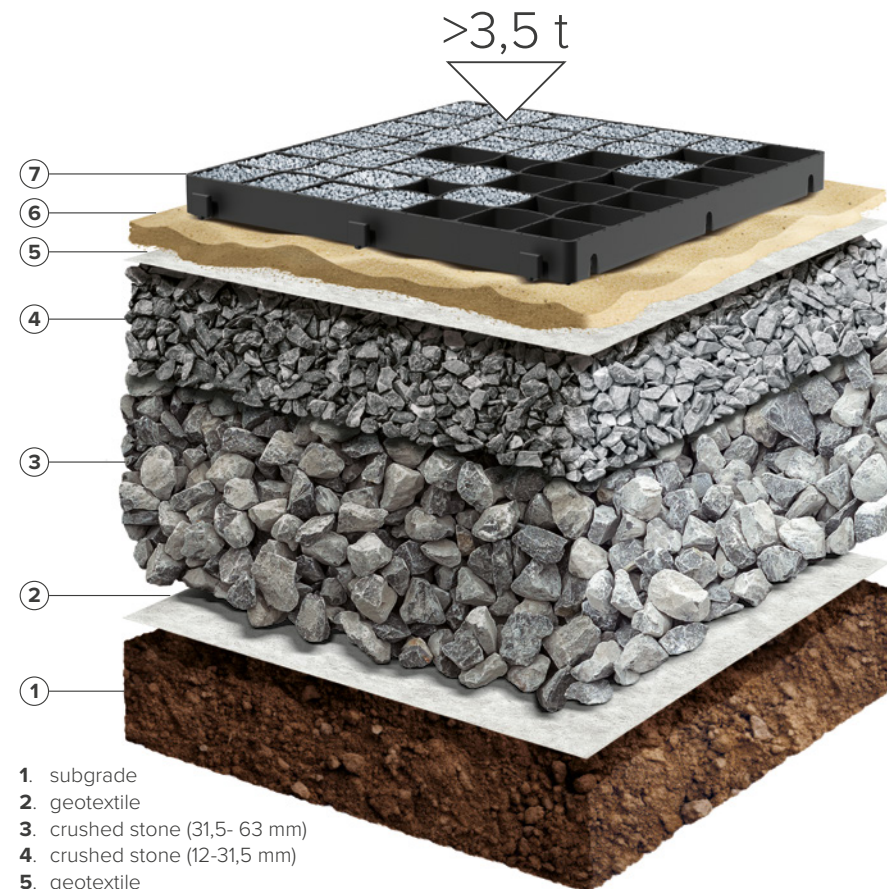
- The installation of the grids should be carried out at a minimum air temperature above +5°C. If the works are carried out under conditions of significant temperature fluctuations (above 10°C), the grids should be filled immediately after installation.
- On large areas, it is recommended to provide expansion joints at intervals of 15 m to reduce the risk of surface deformation caused by temperature variations.



1. subgrade
2. geotextile
3. crushed stone (12-31,5 mm)
4. geotextile
5. bedding sand
6. stabilisation grid

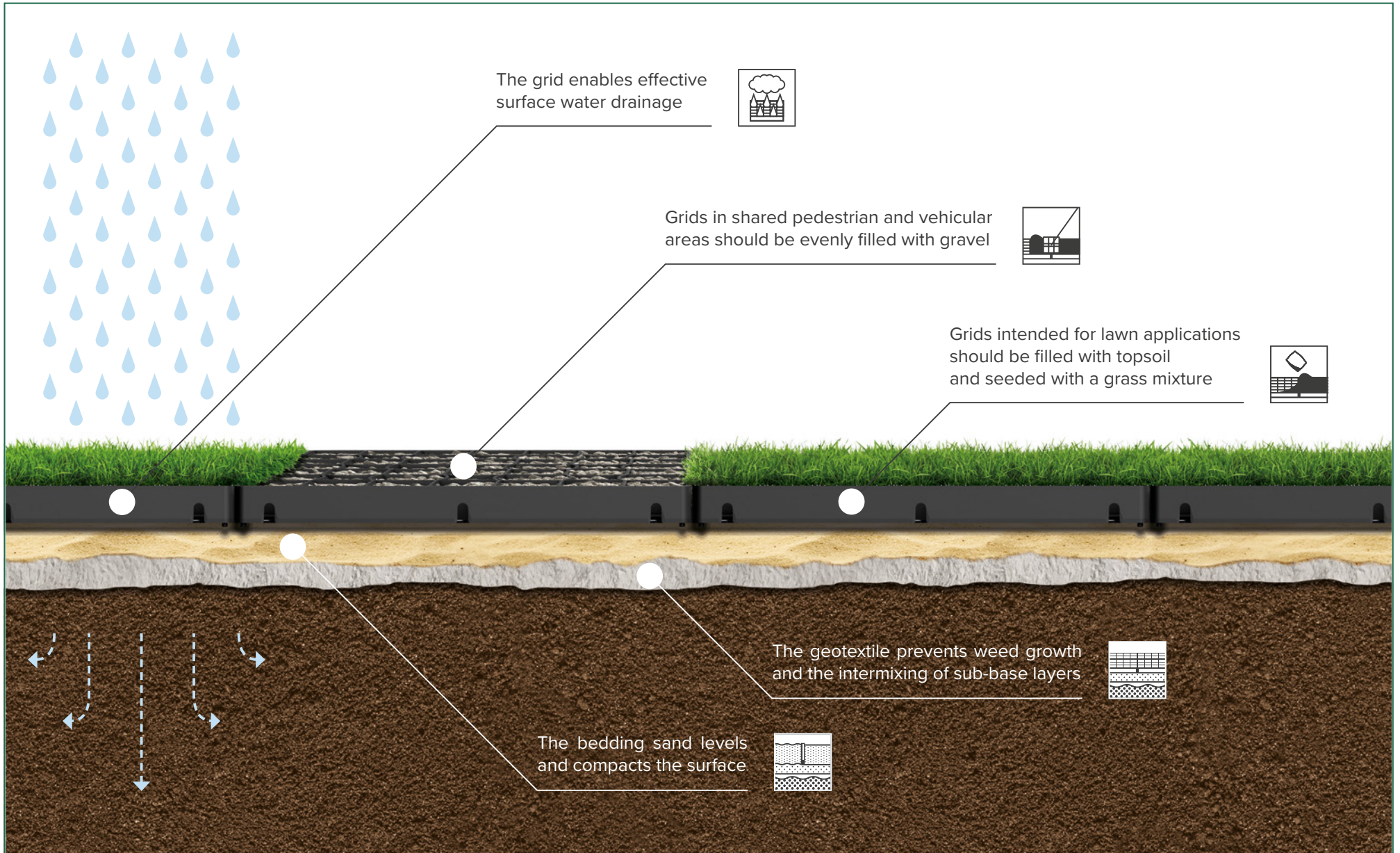
Sub-base layout for light traffic: residential parking areas / driveways

- When determining the final level of the sub-base, it should be taken into account that, after compaction, the grid surface level will decrease by approximately 0.5 cm.



1. subgrade
2. geotextile
3. crushed stone (31,5- 63 mm)
4. crushed stone (12-31,5 mm)
5. geotextile
6. bedding sand
7. stabilisation grid

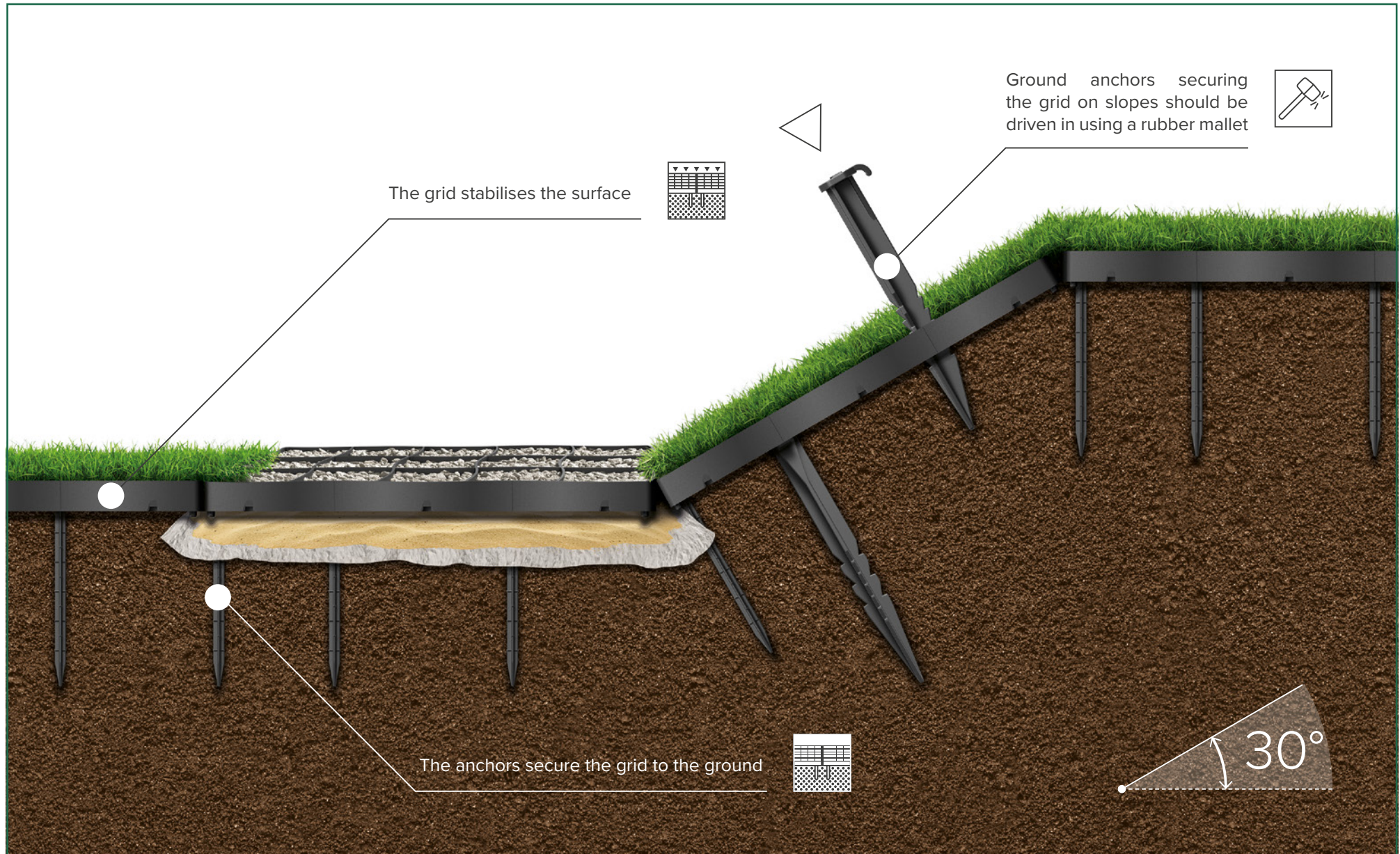
Sub-base layout for heavy traffic: vehicles over 3.5 tonnes



SLOPES AND EMBANKMENTS



IBDiM-KOT-2026/ 1160 wyd. 1





Road and Transport Infrastructure

	Lawn DIL25	Universa DIU30	Plant DIP33	Smart DIS37	Hold Bend DIH40	Road DIR40	Max DIM40
Public access roads							●
Private access roads		●	●	●		●	●
Heavy goods vehicle parking areas							●
Car parks for vehicles with a load capacity of ≤ 45 kN		●	●	●		●	●
Garage driveway surfacing		●	●	●		●	●
Shared pedestrian and vehicular access routes		●	●	●		●	○

Pedestrian and Recreational Use

Cycle paths		●	○	●		●	○
Recreational areas	●	●	●	●		●	○
Golf courses		●	●	●		●	
Equestrian facilities		●	●	●		●	○
Orchards, garden shelters and domestic green spaces	●	●	●	●	●	○	
Playgrounds	●	●	●	●		●	○

Specialist Transport

Take-off and landing pads for aircraft with MTOM up to 300 kg <i>(grass-seeded surfaces only, without aggregate infill)</i>							●
Airfield grass surfaces with soil infill, for aircraft with tyre pressure not exceeding 1.0 MPa and a maximum ramp weight of 5,700 kg							●
Take-off and landing pads for aircraft with MTOM up to 495 kg <i>(grass-seeded surfaces only, without aggregate infill)</i>							●
Fire access roads							●

Hydraulic Engineering and Land Protection

Railway embankments and cuttings					●		
Stabilisation of slopes, embankments and inclined terrain					●		
Reinforcement and protection of watercourse banks					●		
Reinforcement of retention ponds					●		

Garden Architecture and Landscaping

Protection of root zones around street trees growing alongside footpaths	●	●	●	●	●	●	
Ornamental green roofs					●		
Ground reinforcement for mowing operations		●	●	●		●	
Stone stabilisation along fence lines	●	●	●	●		●	
Drainage around buildings	●	●	●	●	●	●	●

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Contact us

Poland

Headquarter, Production & Warehouse

Prosperplast 1 Sp. z o. o.
Wilkowska 968
43-378 Rybarzowice
Poland

tel. +48 33 817 70 03
fax +48 33 817 60 81

biuro@prosperplast.pl
office@prosperplast.pl
www.prosperplast.pl

Germany

Office

Prosperplast Deutschland GmbH
Hopfenstraße 22a
85283 Wolnzach
Germany

tel. +49 8442 9628499
fax +49 8442 9680853

kontakt@prosperplast.de
www.prosperplast.de

Czech Republic

Office & Warehouse

Prosperplast s.r.o.
CTPark Ostrava Hrušov
Bohumínská 710/198
711 00 Slezská Ostrava - Hrušov
Czech Republic

tel. +420 553 034 443
mob +420 605 499 544

info@prosperplast.cz
www.prosperplast.cz

Hungary

Office

Prosperplast Kft.
Tátra u. 5/a, alagsor 2.
1136-H Budapest,
Hungary

tel. +36 30 4095 120
mob +36 30 4095 710

office@prosperplast.hu
www.prosperplast.hu



duranosystem.pl

Prosperplast 1 Sp. z o.o.
Wilkowska 968
43-378 Rybarzowice
Poland