DAK-ROCK HEAVY



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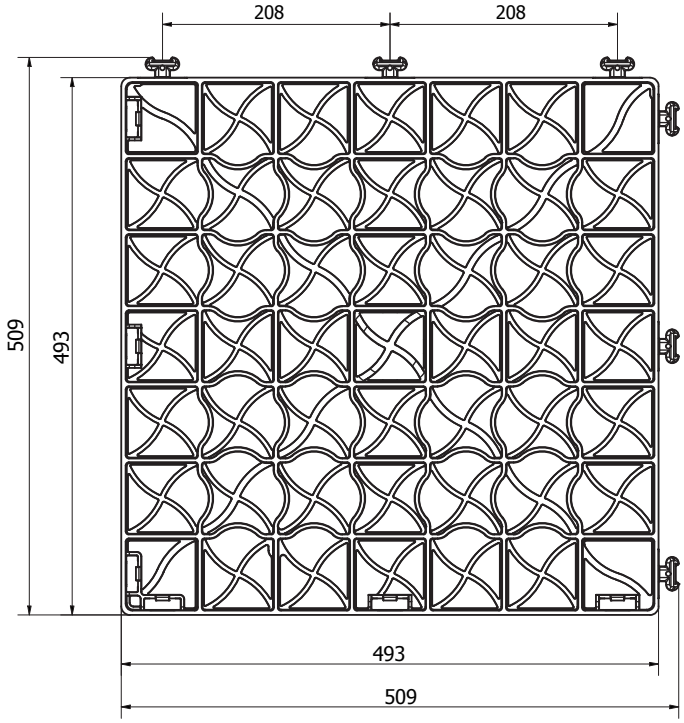
1. CODE REGISTRY

Code	Description	Colour	Dimension (mm)	Weight
GAR01-0022N	Ground Paving Grid	Black	h. 39 - 500 x 500	1,20 kg/pcs.
GAR01-0022GV	Ground Paving Grid	Green	h. 39 - 500 x 500	1,20 kg/pcs.

MATERIAL Made of recycled PP (polypropylene)

2. DESCRIPTION

Dakota plastic paving grid is a 500 x 500 x h.39 mm ground reinforcement paving solution designed to improve natural water drainage and at the same time to prevent ground erosion. It is a perfect alternative to sett bricks, flagstone, openwork paving slabs and different kind of concrete based surfaces. Innovative interlocking system enables to connect the panels and create a continuous surface, which become completely invisible once filled with aggregate or grass, preserving the natural character of the area.





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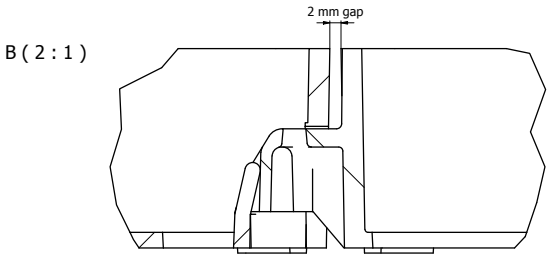
3. USE

Dakota's plastic stabilizing grid is a ground reinforcement solution designed to improve natural water drainage while preventing soil erosion. It is an ideal alternative to porphyry pavers, paving slabs, and various types of concrete surfaces. Its innovative interlocking system connects the panels to create a continuous surface that becomes completely concealed once filled with aggregate or grass, preserving the natural character of the area.

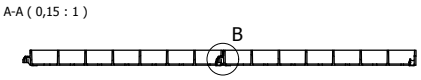
Installation Instructions

1. Prepare the base layer: Use crushed limestone, crushed porphyry, or crushed concrete with particle sizes ranging from 0 to 32 mm or 0 to 40 mm.(Crushed brick is not recommended.)
2. Prepare the leveling layer: Use screened sand and fine gravel with a maximum particle size of 4 mm.
3. Install DAK-ROCK: Lay the DAK-ROCK gravel stabilizing grid with the geotextile facing the ground.
4. Fill DAK-ROCK: Fill the grid with aggregate ranging from 4 to 25 mm in size. For vehicular applications, harder aggregates such as porphyry, basalt, and granite are recommended.
5. Finish the surface: Cover the top of the DAK-ROCK cells with a 2 cm layer of aggregate.

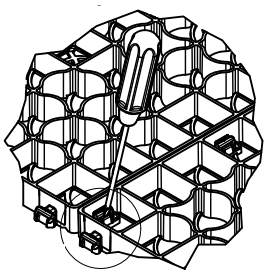
INTERLOCKING SYSTEM

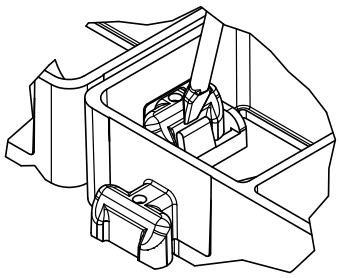


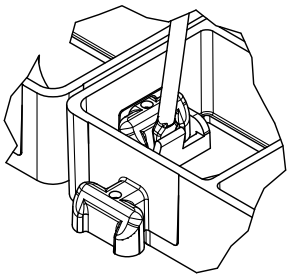
Each grid has a click interlocking system on aside, in order to connect the panels and to create a continuous surface, which become completely invisible once filled with aggregate, gravels or grass.



UNFASTEN







The interlocking system is strongin order to guarantee a perfect connection and stability on the entire surface. In case of unfastening of some grids, you need a tools that acts as a lever, such as a common flat head screwdriver. The process is very simple:

1. Insert the screwdriver in the locking system between the panels;
2. Once fully inserted between the clip and the fixed slot
3. Push in order to "open" the clip and disconnect it, in order to lift up the grid and remove it.

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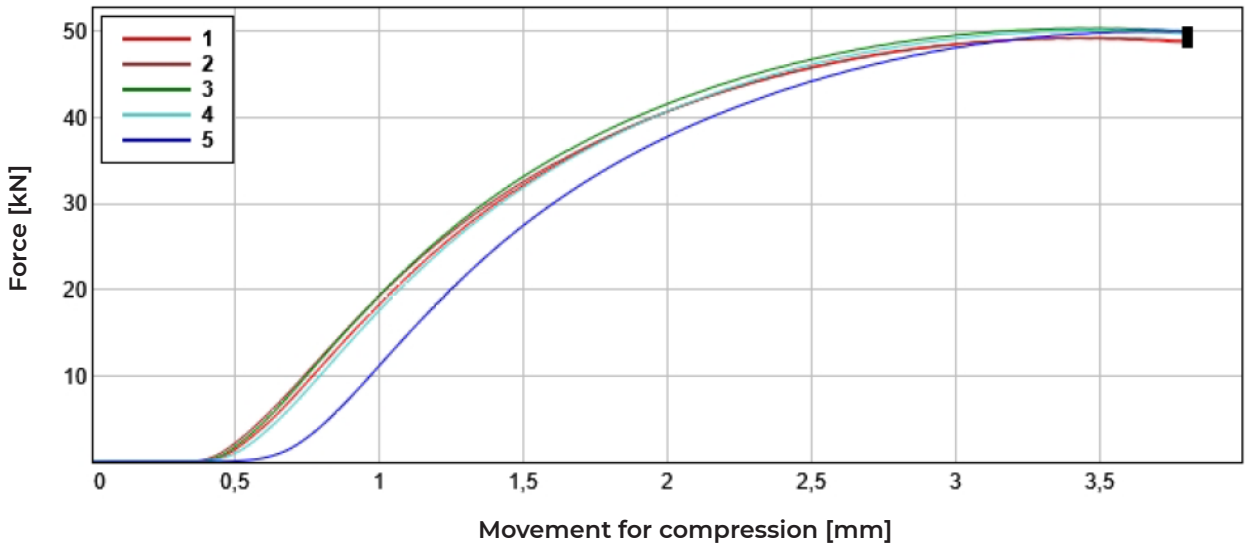
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4. LOAD TEST

TYPE OF TEST:
Load test - ISO 844 (Procedure A)

DESCRIPTION
The item has been subjected to an increasing load through the use of an INSTRON electromechanical press model 5985 capacity 250 kN.
The test punch with which the load was applied has a size of 150x150 mm.
The size of the specimens is 150x150 mm equal to 4 cells.
A test was performed on n. 5 samples, with the following results:

	Load at 3,8 mm [kN]	Max Load [kN]	Deformation at max load [mm]	Stress [N/mm2]	Max load grid [kN]	Load per sqm [kN]	Load per sqm [ton]"
Test 01	48,71	49,23	3,44	76,07	2205	8822	899
Test 02	48,94	49,29	3,46	76,16	2208	8833	900
Test 03	50,03	50,40	3,43	77,87	2258	9032	921
Test 04	49,79	51,12	3,48	77,44	2245	8981	916
Test 05	49,98	50,03	3,98	77,30	2241	8965	914
Average Value	**49,49**	**49,81**	**3,50**	**76,97**	**2232**	**8926**	**910**



5. TECHNICAL SPECIFICATION

Item	Description	Unit	Price
Dak.O.GAR01.0022x	Supply and installation of a plastic stabilizing grid for ground reinforcement, designed to improve natural water drainage while preventing soil erosion. Its interlocking system connects the panels to create a continuous surface that becomes completely concealed once filled with aggregate or grass, preserving the natural character of the area. The system consists of modular interlocking units measuring 500 × 500 × 39 mm, made of PP (polypropylene) and available in black. Load-bearing capacity: > 900 metric tons/m². Suitable for reinforcing and stabilizing grass surfaces used for parking and/or recreational activities.	pc.	-
Dak.O.GAR01.0022N	Dak-Rock Heavy 500 x 500 x h. 39 mm - Black color		
Dak.O.GAR01.0022GV	Dak-Rock Heavy 500 x 500 x h. 39 mm - Green color		

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