



Decoland D-smart Flooring

Stabilization System



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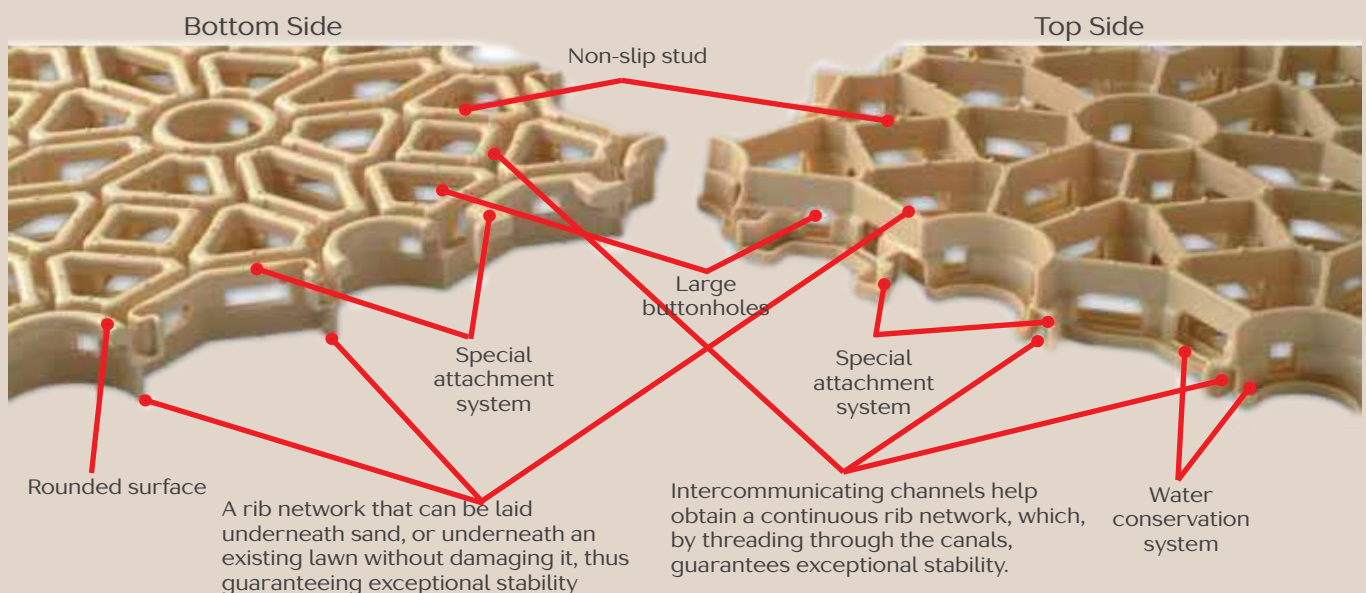


What is Decoland Smart Flooring?

Decoland Smart Flooring is a modular system, made from UV-resistant recyclable HDPE, can be used on both new and established lawns, on sand bases, or to create gravel surfaces.

Advantages

- **EXCEPTIONAL:** Thanks to its two opposite and different shaped faces, it can be used to create both new lawns and gravel surfaces, it can be laid on both established lawns, and sand bases.
- **ADVANTAGEOUS:** Very quick to lay (an unskilled worker can lay or remove about 120 m²/hour).
- **EFFICIENT:** It has no “correct side” on which it should be laid.
- **VERSATILE:** The elements can be assembled in squares, staggered, one on top of the other – staggered or not, and the top of one against the bottom of another – slightly staggered, both horizontally and vertically.
- **EASY TO INSPECT:** Any or all D-Smart Flooring parts can be removed and replaced at any time, thanks to a unique attachment system.
- **EXTRAORDINARILY:** Resistant and flexible, thanks to the special vertical rip shape and to the attachment system.
- **UNIQUE:** The water conservation system (1.5 L/m²) that covers the entire surface area, can easily be doubled simply by adding a second layer of D-Smart Flooring, similarly increasing the layer of earth to a thickness of 6 cm. In this way irrigation costs are reduced, saving both time and money, and the grass is better maintained thanks to the way D-Smart Flooring retains the soil's nutritive substances and the extremely reduced heat.
- **EFFECTIVE:** Large “buttonholes” (up to maximum size of 27*15 mm) positioned on D-Smart Flooring's surface specifically for the purpose, help the roots to spread better both horizontally and around the D-Smart Flooring, the transversal and longitudinal light has an aerobic function, thus meaning that the grass grown evenly. What is more, water is distributed more easily, and does not become stagnant, guaranteeing good drainage.
- **ORIGINAL:** D-Smart Flooring design creates a fantastic mosaic effect.
- **NON-SLIP:** On both sides thanks to small rounded studs, which do not, however, stop you being able to walk on it.
- **COMPLETE:** With many useful accessories, such as Marker Plugs and Holding rings, which allow you to join several pieces together to create a single element with exceptional stability and flexibility.
- **PRACTICAL:** You cut D-mart Flooring into several pieces, and it's easy to obtain the desired shape by using a saw or grinding disk, these cut pieces can then simply be attached to the standard D-Smart Flooring, thus avoiding any wastage.
- **OPTIMAL:** Piling allows you to save on transportation and storage costs, as many elements can thus be stored in a limited space.



TOP SIDE
(THINNER RIB)
MARCHER PLUGS



BOTTOM SIDE
(MORE MARKED RIB)
MARKER PLUGS



TOP SIDE
(THINNER RIB)
HOLDING RINGS



BOTTOM SIDE
(MORE MARKED RIB)
HOLDING RING



For the top side (thinner rib):
Use pliers to position the ring into the join of 2 or 4 pieces. It should go in until the wings are threaded into the pre-prepared holes. To remove, twist with pliers.

HOLDING RINGS ARE NOT NECESSARY
WHEN LAYING ONTO NEW LAWNS

For the bottom side (more marked rib):
Put the ring over the join where 2 to 4 pieces cross, in such a way that the wings are positioned above the Grill holes, hand tighten the wings so as to thread the rings into the holes. When it is in position, you will hear a “click”. To remove, twist anticlockwise with pliers.



EXAMPLE OF HOW TO ASSEMBLE THE HOLDING RINGS

FIX THE HOLDING RINGS ONTO THE FIRST JOIN OF ALL THE PERIMETER
PIECES, AS WELL AS ONTO ALL THE JOINS OF THE FOUR PIECES

Technical Specifications*

GENERAL

Material	:	Polypropylene
Working Temperature	:	About -40 ~ 10 C.
Color	:	Dark green (Light grey / Light beige on request)
Accessories Colors	:	White (Other colors on request).
Permeable & Draining Surface :		Over 90%
Grass Surface	:	Over 90%

PHYSICAL DATA

Dimensions	:	580 x 580 x 40 mm	3 pieces = 1 m ² .
Dimension Tolerance	:	+/- 5 %	
Water Tanks	:	1.5 Lt/m ² .	
Load Capacity	:	187 Tons/m ²	
UV and frost	:	UV resistant	

* In favor of product improvements, specifications may change without prior notice.

* Colors may vary slightly.

Resistance to the compression is significantly greater than the necessary to support trailers and fully-loaded trailer train or heavy fire engine. By combining the unique structure of the elements, made up of several different geometric shapes, with the “A” shaped ribs, we have obtained an exceptional load capacity and a good level of elasticity.

D-Smart Flooring resists atmospheric agents, and acidic and basic chemical solutions. The Grid and the accessories have been designed to be used more than once.

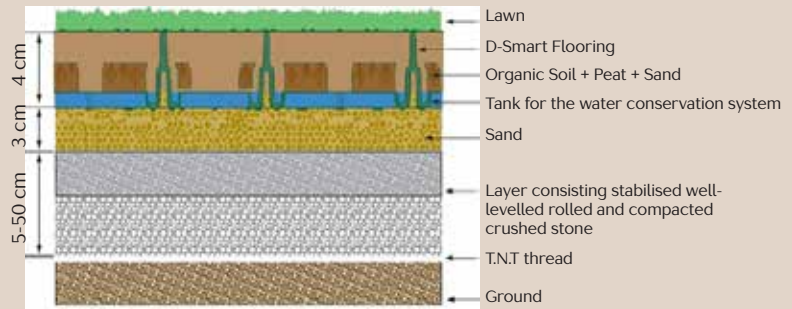
laying D-Smart Flooring for new lawns

Step 1: Positioning of continuous 200-400 gr/m² (depending on use) T.N.T thread (optional)

Step 2: Preparation of 5-50 cm (depending on use) foundation layer, consisting of stabilized, well-levelled, rolled and compacted crushed stone. On top of this, prepare a layer of sand, approx. 3 cm deep.

Step 3: Lay D-Smart Flooring onto the foundation, with the top side (thinner rib) facing upwards. If necessary, the grid can first be cut into the desired shape with a saw or grinding disc.

Step 4: Fill the cells with organic soil, peat and sand, to just below the edges. Sow and water periodically. Once the grass has grown, no further maintenance is required.



Preparation of foundation layer



Lay the Decoland Smart Flooring



Filling the cells with organic soil



Sow



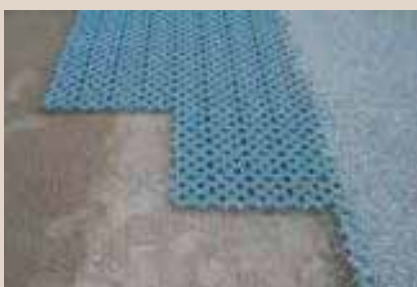
New lawn

Note: for every kind of properly use, plan a free space of 2 cm circa between the perimeter of the grid and the other elements (edge elements, water drainage ducts, etc. ...). For big surfaces, leave a free space of 2 cm circa after each 15-20 linear meters of grid surface.

Laying D-Smart Flooring with gravel:



Top side



Bottom side

Step 1: Positioning of continuous 200-400 gr/m² (depending on use) T.N.T thread (optional).

Step 2: Preparation of 5-50 cm (depending on use) foundation layer, consisting of stabilized, well-levelled, rolled and compacted crushed stone. On the top of this, prepare a layer of sand, approximately 3 cm deep.

Step 3: Lay the D-Smart Flooring onto the foundation. If necessary, it grid can first be cut into the desired shape with a saw or grinding disc.

Step 4: Fill the cells with gravel, to just below the edges, here, it will remain stable. It will not produce dust, particularly when motor vehicles drive over it, and will remain clean, thanks to the "buttonholes", which guarantee excellent drainage. It is now functional and ready for use.

Step 1: lay the D-Smart Flooring with bottom side (more marked rib) facing upwards.

Step 2: position the D-Smart Flooring holding rings. It is now functional and ready for use.

laying D-Smart Flooring for new lawns and for sand bases:

Step 1: Make the surface as even as possible.

Step 2: lay the D-Smart Flooring with top side (thinner rib) facing downwards, on the previously levelled surface. Position the D-Smart Flooring holding rings (optional) and fill the cells with organic soil, peat and sand, to just below the edges. Sow. No further maintenance is required.

Applications:

- Building permanent or temporary parking of any kind for motor vehicles, in public, private, commercial, sporting and industrial areas, etc ...,
- Building walk ways, paths, roads, cycle paths, golf course and sporting plant paths, etc ...,
- Building temporary surfaces for exhibitions, festivals, manifestations and fairs, etc ..,
- Any general-purpose non-slip platforms, and for the surface area around swimming pools,
- Storage areas for caravans, helicopters,
- Removable and permanent areas for camper vans, caravans, tents and camp sites,
- Gazebo and barbecue areas, recreation areas for children, outdoors areas, etc ...,
- Slope reinforcements,
- Roof gardens,
- Ornamental roof gardens. Its patented design makes it possible to create colorful compositions with crushed stone to add beauty to the environment,
- Covering of flat roofs and terraces.



Building a parking with D-Smart Flooring



Parking and walkways on sand bases with D-Smart Flooring



Parking on gravel surface with D-Smart Flooring



Playing ground with D-Smart Flooring

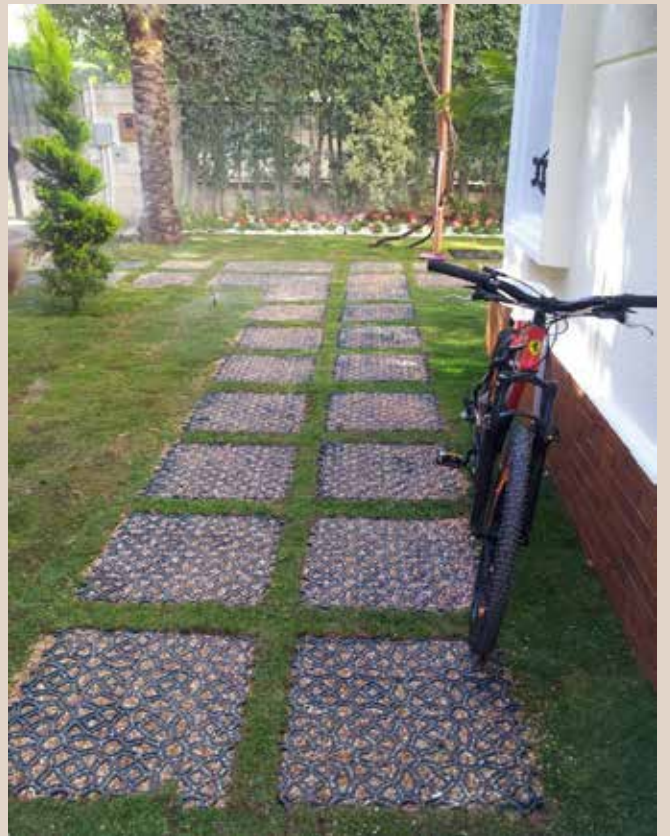
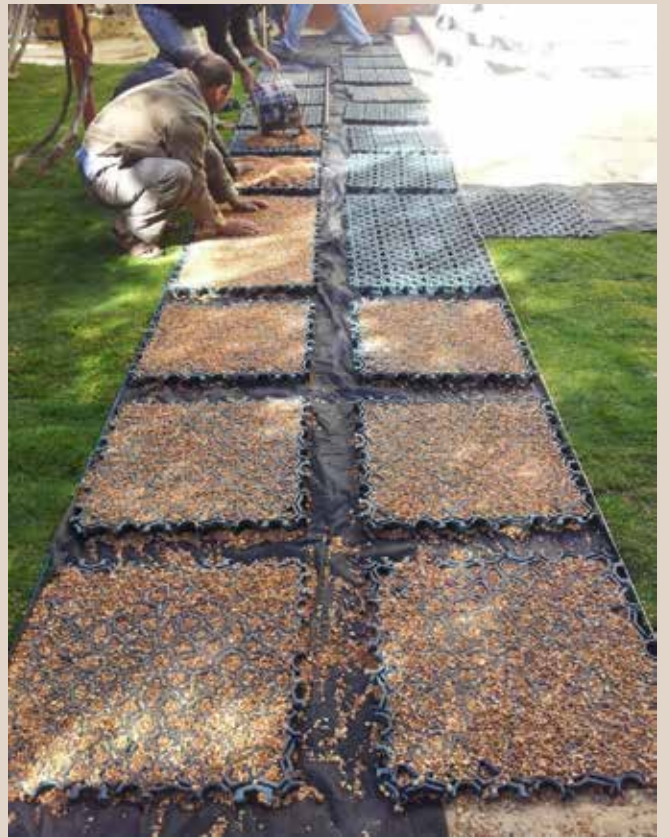


Temporary parking on established lawn with D-Smart Flooring



Path on established lawn with D-Smart Flooring







Decoland

Landscaping Innovative
Sustainable Solutions

DECOLAND was founded in Egypt in 2012 as an Eco-friendly company to develop, manufacture, & distribute 'green' products and solutions for landscapes and urban spaces. We have built an edge in the market in which we provided ecological sustainable solutions with high technology, high quality and unique applications.

Based on long standing cooperation with BERA we have gained their trust and obtained an exclusive license to locally produce the Honeycomb® (Gravel Fix ME), Aluminium separators and HDPE Edges in Egypt.

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