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**Grid for driveway
surfaces with grass
finishing**



KEY:



Drainage



Environment



Ecocompatibility



Aesthetics



Technology reference



SWITCHBOARD

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E.C.O.
di
PRATOPRATICO®
LA GRIGLIA SALVAERBA

E.C.O. di PRATOPRATICO® is an ornamental element suitable for vehicles that allows the creation of grassy driveways or paths and equipped areas, keeping the soil compact and protecting the grass from being crushed, especially in frequently used areas.

E.C.O. di PRATOPRATICO® is made of a particular plastic material (half pure with high technical and mechanical performance and half recycled) that is able to offer an excellent quality/price ratio. The E.C.O. flooring develops rapidly and economically through the union of various gratings with a male/female hooking system.



Advantages

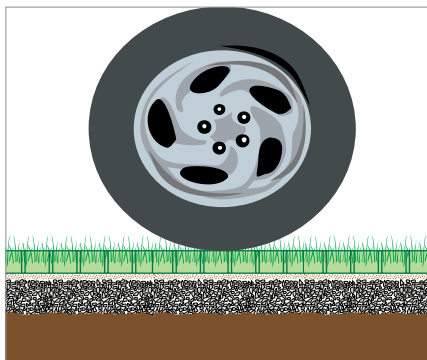


E.C.O. di PRATOPRATICO® represents an ingenious system to make a lawn treadable, protecting it from damage caused by the transit and parking of vehicles in any kind of atmospheric conditions. At the same time, it also supports the growth and natural rooting of the lawn. The essence of E.C.O. is very simple: it's a question of "arming" the natural soil surface with a modular flooring made up of a grating with a highly robust cellular structure where the turf, which remains a few millimetres below the higher limit of the flooring walls, is protected from squashing or stress.

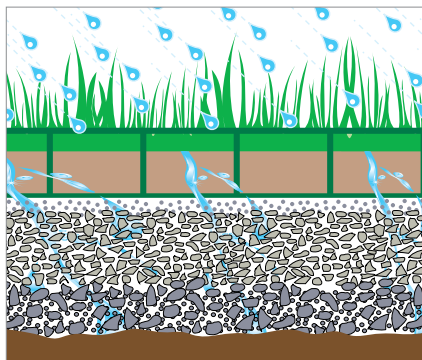
E.C.O. di PRATOPRATICO® is resistant to atmospheric agents. It's environmentally friendly and is completely recyclable. The specially studied shape of the cells not only allows the vital structure of the round to be respected, but also helps permeability and the exchange of nutritional elements, air and light. The aesthetical, functional and ecological

advantages offered by this innovative flooring are evident: a lawn surface naturally filters the soil's meteoric waters, respecting the site's hydrogeological balance. During the summer period, moreover, it does not produce undesired thermic effects linked to overheating of the surface with natural finishing.

The curvilinear shape considerably improves the resistance of the vertical walls to compression and bending. The pleasant aesthetic beauty offered by this shape hides a very important and valid structure. During the design phase, the flooring performance was improved by creating s-shaped walls instead of straight ones in order to produce the classic "arch effect". On one hand, this provides a more efficient absorption and division of the forces developed by an accelerating or braking vehicle which are roughly unloaded on the wall sections, on the other, the vertical load capacity on the same structural surface increases considerably.



Lawn surface with protective grating

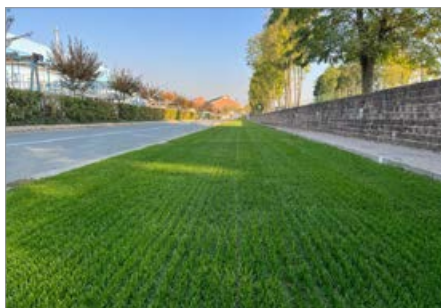


Hydrogeological balance



"Arch effect" particular

Applications



Parking

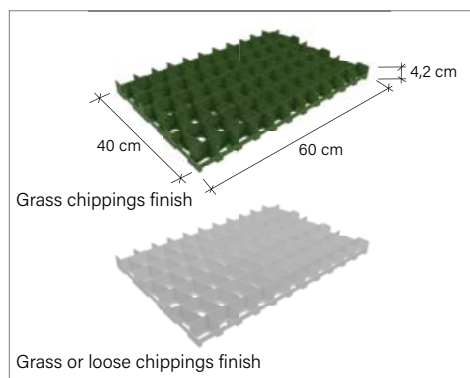


Parking

- Access areas for cars and motor vehicles;
- Public and private parking areas in residential, directional, commercial, sports, industrial areas, etc. (for example: schools, condominiums, banks, trade centres, companies, hotels, hospitals, etc.);
- Bicycle tracks and pedestrian walkways; paths in golf courses and sport plants; equipped areas (gazebo and barbecue areas, etc.);
- Lawn protection in spaces used for entertainment and recreation, against wear and tear caused by games for children, (swings, slides, etc.) and in the areas beneath the benches;
- Protection of lawn surface against damage caused by hostile acts of animals (dogs, etc.); removable laybies for campers, roulottes, various garage areas, etc.;
- Various types of structures for parks and camping sites;
- Temporary surfaces, on chance pieces of land for various events: fairs, markets, tent theatres, etc.;
- Surrounding surfaces for tree trunks; roof gardens; ornamental gardens;
- Consolidation of slopes to contrast wash away and erosion phenomenons;
- Heliports and strips for ultralight aircraft; covers for flat roofs and terraces to protect the impermeability layer.

With E.C.O. it is possible to respect urban constraints and render the areas, which have to be green areas by precept, functional.

Technical data



Working dimensions*	cm	60 x 40 x 4,2 h
Pieces per m ²	pcs	≈ 4
Weight per piece	kg/pcs	1,297
Bearing capacity	t/m ²	> 300
Colour	-	verde - bianco
Pallet dimensions	cm	100 x 120 x 218 h
Pallet m ²	m ² /PAL	62,4
Pallet pieces	pcs/PAL	260
Pallet weight	kg/PAL	345

* In consideration of the recycled material, it is permitted a size variation of 2.5%, for the same reason the colour tone is subject to variation.

Material: 50% of virgin heterophasic PP of excellent quality and 50% of recycled plastic material, adapted to UV rays.

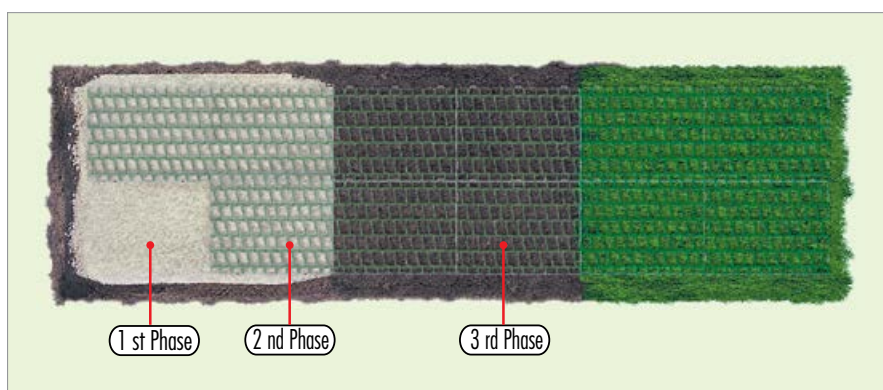
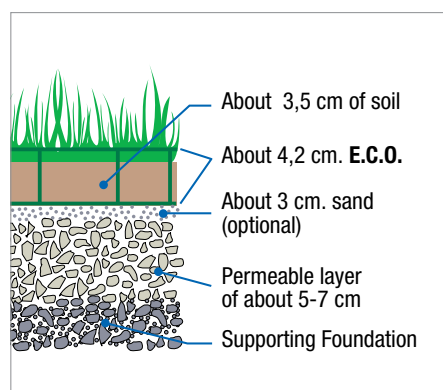
Modularity: Hooking system with "male-female" screwing system and held fast with sealing chamfers.

Accessories: Signalling elements (white, blue, yellow) to delimit parking and transit areas. Deeply penetrating stakes to anchor the grating on slopes.

Certifications: UNIVERSITÀ DEGLI STUDI DI PADOVA – Faculty of Engineering – Department of Construction Technologies and Transports, protocol n.14597;

In case of slopes it is important to consider the adherence coefficient. For this reason, assuming prudentially a wet surface and tires and medium/high use status, it is not recommended to use E.C.O. di Pratopratico® for inclinations greater than 8%. Adherence can be improved by inserting joists in stone material.

Pose



! It is important to carry out an adequate evaluation of the local conditions of the soil. Our instructions are, in fact, in general terms and the preparation of the foundation must be suitable for the type of soil, the climatic conditions and the load intensity.

Due to the light weight of each single element laying is possible with the aid of machinery. If it becomes necessary to adapt and shape the module, E.C.O. may be cut directly on site with the tools commonly used in such cases. Once the stability of the sand bed has been verified – a common problem before any kind of roadworks – the following steps must be taken to create our driveway lawn:

- 1 PERMEABLE LAYER** Consisting of granular, finely crushed stones 3-10 mm. Thickness must amount to about 5/7 cm. The optional sand bed (consisting of siliceous sand) has to be about 3 cm thick.
- 2 DEVELOPING OF THE FLOORING WITH THE GRATINGS OF E.C.O.** Leave empty spaces of about 3/5 cm for the natural dilatation of the material in the following cases: when laying on large surfaces, when laying on variable slopes; in the presence of stringcourses or other elements delimiting the perimeter that is being treated.
- 3 FILLING OF THE E.C.O. CELLS** The filling process must partially saturate the cells, the level reaching to 1 cm below the flooring's upper border. Then sowing.

Specifications

1. Placing of permeable layer underlying the grass driveway flooring through the supply and lying of crushed stone made of fine, variable, granular pieces 3/10mm, well spread and rolled by hand, into a finished thickness of about 5/7 cm.

€ per square meter _____

2. Supply and laying of the flooring elements such as E.C.O. of Daliform Group with the following technical characteristics:

- 50% recycled and 50% virgin PP material (polypropylene) with impact resistant to cold temperatures (-20°C) and at least 8 kJ/sq.m (ISO 180 method); softening point of at least 152 °C (ISO 306/A method) and UV rays resistant;
- Laying capacity of at least 300 t/sqm (monotonic loading breaking point test);
- At least 95% grass and permeable surface;
- Soil volume: not less than 165 cm³ for every single grating;
- Male/female joint hooking system; flooring kept still with sealing chamfers;
- Possibility of laying signalling elements (in white, yellow and blue) to delimit the parking areas and walkways;

Once laid in place, the above-mentioned flooring has technical characteristics that make it immediately suitable for vehicle transit.

€ per square meter _____

3. Laying of lawn surface by filling the E.C.O. flooring type cells with a blend of excellent vegetable soil, peat, siliceous sand and/or inert volcanic material enriched with slow-release fertilizer; supply and sowing of an excellent blend of seeds for grass suitable for vehicle transit in amounts of 35/40 gr per sqm

€ per square meter _____

4. Supply and laying of signalling elements in white, yellow and blue to delimit the parking and/or walkway areas, to be placed in the soil, inside the cells of the E.C.O. flooring according to the requirements of D.LL.

€ per square meter _____

The flooring must be produced by companies with a Quality, Environmental, Safety, and Social Accountability System certified in compliance with International provisions UNI EN ISO 9001, UNI EN ISO 14001, UNI EN ISO 45001, SA8000.

Daliform Group technical office



SUPPORT FOR THE EXECUTIVE DESIGN

Support by design professionals. Support by design professionals at the preliminary and executive stages to determine the technical characteristics of the flooring and the associated costs of gratings.

ON-SITE SUPPORT

If necessary, our technical staff can be present on-site to help the construction company during the operational phase.

The technical consultancy is only valid for the Daliform Group construction systems.

To contact the technical office: Tel. +39 0422 2083 - tecnico@daliform.com

To obtain updated technical cards, support material, new photos and case studies, go to www.daliform.com

Logistics - pallet capacity

MEANS OF TRANSPORT	N. PALLETS	
Tractor (8,20/9,60x2,45)	16/18	
Semi-trailer (13,60x2,45)	26	
20 feet container	10*	
40 feet container	21+1*	

* the m² per pallet can vary based on the type of container.

The information contained in this catalogue could be changed. Please request updated informations from DALIFORM GROUP, which reserves the right to make changes at any moment without notice. In consideration of recycled material, it is specified that there are tolerance margins caused by environmental factors.



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Made in Italy

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Certified Management System UNI EN ISO 9001,
UNI EN ISO 14001, UNI EN ISO 45001, SA 8000

Partner of
GBC Italia

Rating di legalità: ★★+