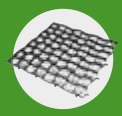
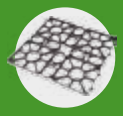
Geoplast
Building beyond together

English

GREEN SOLUTIONS

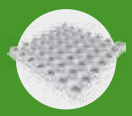
SYSTEMS FOR THE MANAGEMENT OF LANDSCAPES AND NURSERIES

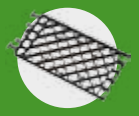

RUNFLOOR

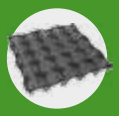

GEOFLOR


GEOGRASS

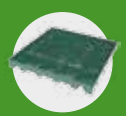

SALVAVERDE


GEOGRAVEL


GEOROAD


DRAINROOF


WALL-Y


PLASTONELLA


TUBS AND VASES

✔ RESISTANCE
✔ DURABILITY
✔ SUSTAINABILITY

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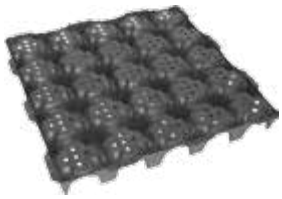


DRAINROOF

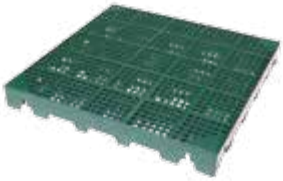
High-performance green roof drainage board.

P. 46

WALL-Y

Modular element for green walls.

P. 58



PLASTONELLA

Modular self-install plastic paver for outdoors.

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TUBS AND VASES

Heavy duty pots, tubs and rainwater harvesting tanks for nurseries.

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FOR INFO AND ASSISTANCE CONTACT US

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To consult the support material, the images and the new case studies, visit our website:

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GREEN ADVANTAGES

Solutions to protect the grass and create green or gravel transitable turfs, roof gardens and green walls.

PERMEABILITY

Geoplast respects the urban constraints that want a correct disposal of rainwater respecting the hydrological balance.

BEAUTY

The particular texture of the trellis guarantees beauty and elegance to the wall even before the growth of the vegetation.

THERMAL INSULATION

GEOPLAST systems can reduce both cementification in the cities and thermal insulation.

RESISTANCE

The structure and material of our systems provide to GEOPLAST material a high strength and resistance.

DURABILITY

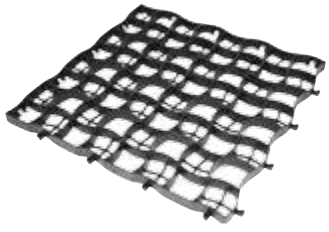
The structure and the material characteristics guarantee a safe and longlasting result.

DRAINAGE AND SUSTAINABILITY

GEOPLAST systems guarantee and excellent rainwater drainage and permit a beneficial long-lasting effect of the nature.

RUNFLOOR

HIGH-STRENGTH PLASTIC GRASS PAVER FOR PERMEABLE DRIVABLE AREAS



RUNFLOOR THE SOLUTION

RUNFLOOR is the solution for the creation of grass and gravel permeable and highly resistant car parks. Thanks to its reinforced structure, RUNFLOOR is very resistant to the typical stress produced by vehicles in motion, such as brakings and steers, also in case of heavy trucks, and provides durability to the parking. The particular shape of the cells and the thickness of the ribbings produce a higher load-bearing capacity compared to traditional systems. Thanks to the elasticity of the material, items in Low Density Polyethylene (LD PE) have better performance even at low temperatures.

PUBLIC CAR PARKS

HIGH TRANSITED CAR PARKS

TRANSIT AND STOP OF HEAVY MEANS

SUITABLE FOR ANY TYPE OF CLIMATE

RUNFLOOR THE RANGE

F03 - FLEXIBLE

With cells of 3 cm height and reduced thickness RUNFLOOR F03 is the appropriate choice that maintains technical resistance unchanged.

F04 - AVERAGE

RUNFLOOR F04 is 4 cm high and complies with the dimensional requirements of the traditional drivable grids. It guarantees stability and robustness, necessary in every type of car park.

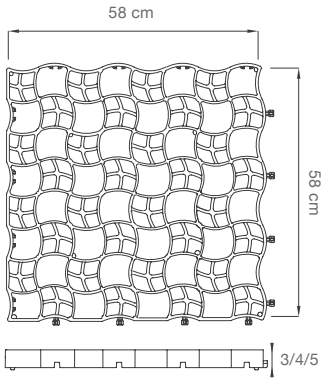
F05 - UNIVERSAL

RUNFLOOR F05 is the result of perfect combination between performance and quality. Excellent in high trafficked areas, it ensures a perfect and safe drivability.

S05 - STRONG

It's the top of the range: compact and robust, RUNFLOOR S05 is characterized by a thickening of the internal ribbings between cells. Ideal in surfaces with intense traffic as car parks and public transit areas.

RUNFLOOR TECHNICAL DATA



RUNFLOOR 58* (LD PE)

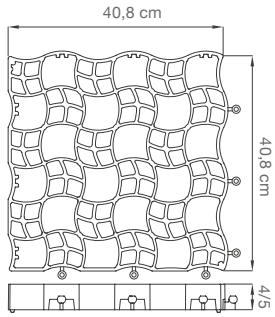
*Available also in HD PE and in green

RUNFLOOR 58-F03

RUNFLOOR 58-F04

RUNFLOOR 58-F05

	RUNFLOOR 58-F03	RUNFLOOR 58-F04	RUNFLOOR 58-F05
SIZE (cm)	58 x 58	58 x 58	58 x 58
HEIGHT H (cm)	3	4	5
Wall thickness (mm)	4	4	4
Load capacity (t/m²)	400	400	500
Weight per pc. (kg)	1.22	1.75	2.16
Packaging size (cm)	120 x 120 x 235	120 x 120 x 242	120 x 120 x 235
No. pcs.	300	228	180
m² per pallets	100	76	60
Color	Black	Black	Black
Permeability	89%	89%	89%



RUNFLOOR 40 (LD PE)

RUNFLOOR 40-F04

RUNFLOOR 40-F05

RUNFLOOR 40-S05

	RUNFLOOR 40-F04	RUNFLOOR 40-F05	RUNFLOOR 40-S05
SIZE (cm)	40,8 x 40,8	40,8 x 40,8	40,8 x 40,8
HEIGHT H (cm)	4	5	5
Wall thickness (mm)	4	4	5
Load capacity (t/m²)	400	500	600
Weight per pc. (kg)	0,76	0,90	1,27
Packaging size (cm)	85 x 125 x 220	85 x 125 x 235	85 x 125 x 235
No. pcs.	300	270	270
m² per pallet	50	45	45
Color	Black	Black	Black
Permeability	84%	84%	83%

ACCESSORY CAP

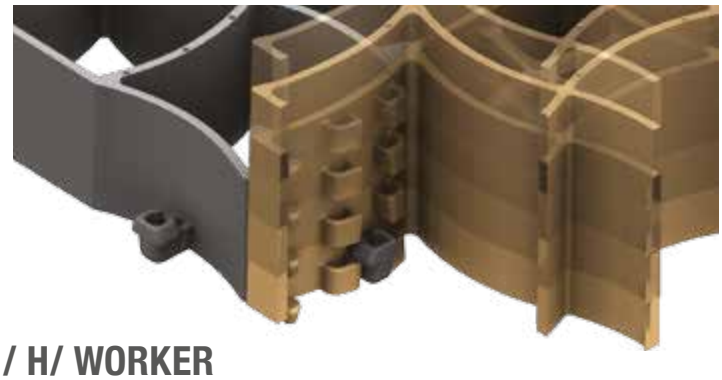
MATERIAL PP

COLOR
White ○
Yellow ○

With flagging caps it is possible to signalise car park boundaries, reserved areas, pedestrian paths, etc. It is equipped with a nonslip surface and a peg for ground anchorage.

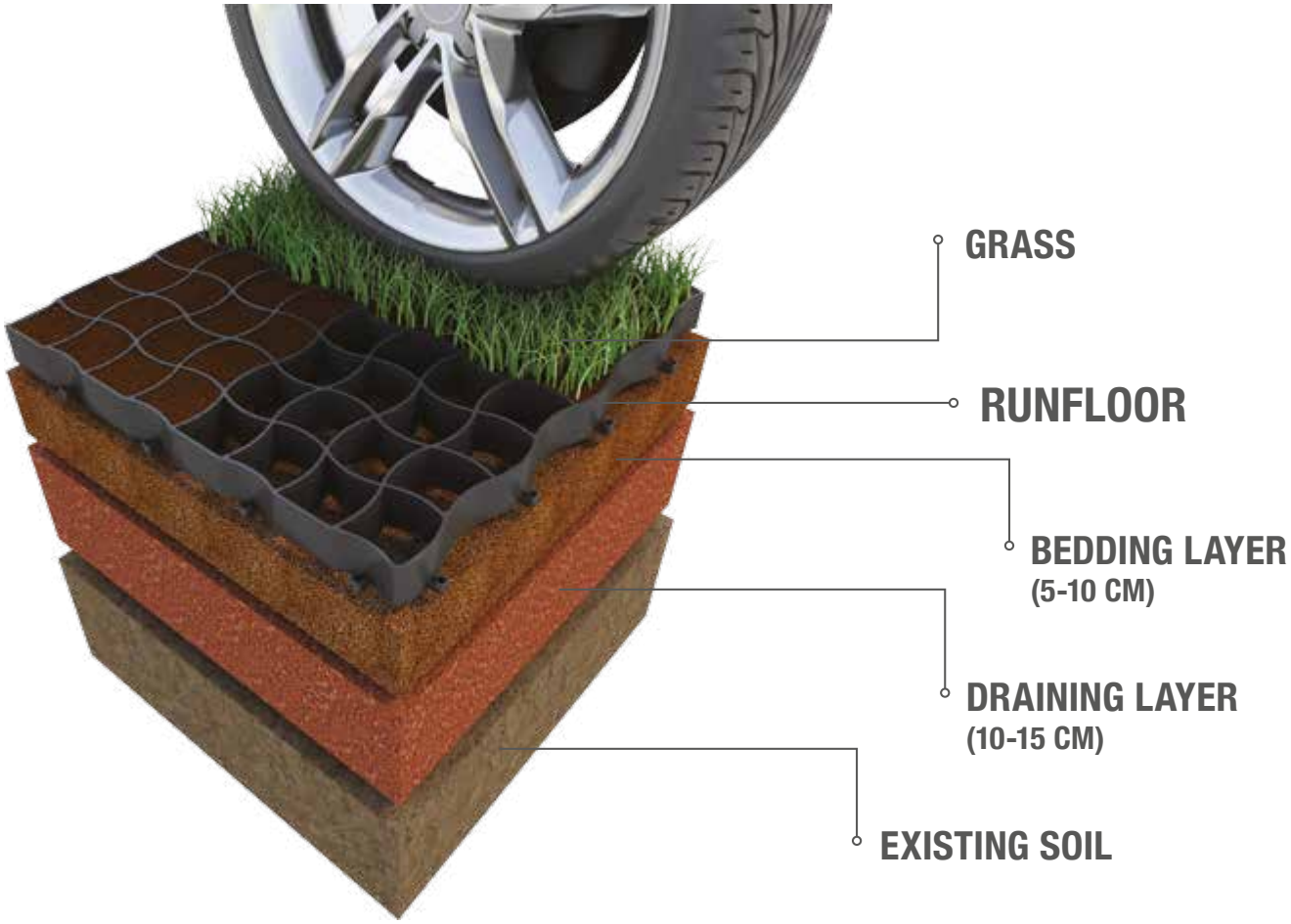
AN INNOVATIVE LOCKING SYSTEM

The innovative twist-lock system (male/female) simplifies the installation and guarantees the perfect connection of the paving grids. The characteristic “Click” makes the job easier indicating that the connection has been successful. It is possible and recommended to pre assemble the grid elements before placing it, in order to speed installation. RUNFLOOR locking system allows a close connection between the elements, reducing the worker’s movements during the installation and filling operations and preventing unwanted liftings of any item.

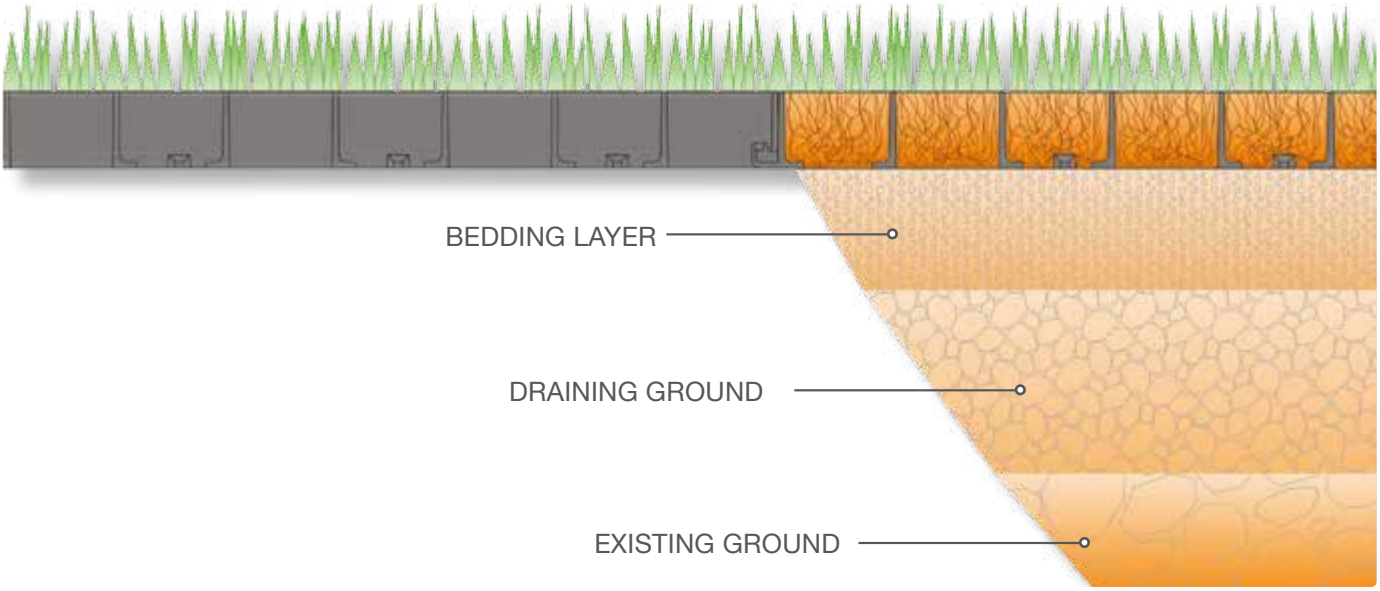


ESTIMATED TIME OF INSTALLATION - 100 M² / H/ WORKER

RUNFLOOR STRATIGRAPHY



INSTALLATION



① PERMEABLE SUB-BASE 10 - 15 cm

Permeable sub-base of 10-15 cm with volcanic lapilli (granulometry 5-20 mm) with high water retention capacity and crush resistance 35 N/mm2 (UNI 754917). This thickness can vary from 8/10 cm for walkable loads and 30/40 cm for trucks and commercial means.

② BEDDING LAYER 5 - 10 cm

Well compacted and levelled bedding layer of 10-15 cm with a mixture of volcanic sands enriched with vegetal soil and organic fertilizers (granulometry 0-5 mm)

③ INSTALLATION

Runfloor guarantees the drainage of rainwater and the protection of the roll turf, but also prevents the crushing of the roots from the transit of vehicles.

④ FILLING WITH SANDS

Filling of the cells with a mixture of volcanic sands, enriched with compost and organic fertilisers (granulometry 0-5 mm). In alternative, fill with a mixture of silica sand, enriched with peat and humus. For an optimal result, it is recommended an wait 2-3 mows, in order to let the grass grow, before transiting in the area.

⑤ SEEDING

Finishing and seeding.

⑥ MARKING CAPS

Marking caps for the delimitation of car parks, reserved areas, walkways, ecc. It is recommended to use at least 4 caps per linear meter.

GRID ADVANTAGES AND PRESCRIPTIONS

ADVANTAGES OF A TRANSITABLE TURF

TOTAL PERMEABILITY
INCREASING OF GREEN AREAS
ENVIRONMENT MITIGATION

WHY THE GRID?

PROTECTION OF THE GRASS
FURROWS ELIMINATION
HOMOGENEOUS MAINTENANCE OF THE TURF

RUNFLOOR PRESCRIPTIONS

- When installing the grids, leave an expansion gap of about 3-5 cm from the curb and any obstacle.
- In the case of large surfaces, it is necessary to square areas of about 30 m^2 leaving expansion gaps, which consist in juxtaposing the grids without hooking them (leaving about a cm of span).
- Design and install a specific irrigation system.
- Perform the finishing and seeding operations respecting the correct seasonality.
- Wait for the complete growth of the grass and two mowings before passing on the surface with vehicles.
- To mow the lawn it is necessary to adjust the mower blades. The same should be done with snowplows.
- Restore any decrease of filling material.
- Carry out periodically the proper maintenance of the lawn, with eventual fertilization and ventilation of the soil.
- RUNFLOOR can be easily shaped with a saw or a grinding disclose to curbs or inspection man-holes.
- The maximum slope for drivable applications is 8%. If superior, use forks and pegs to anchor RUNFLOOR to the ground.

TURF MAINTENANCE

In order to have a good turf, it would be necessary to carry on these simple maintenance operations:

- IRRIGATION
- REMOVAL OF WEEDS AND INFESTING PLANTS
- MOWING
- FERTILISATION
- REPLANTING OR SEEDING WITHOUT DAMAGING THE GREEN AREA
- MATERIAL ADDITION IN CASE OF LOSS

It is possible to obtain a perfect result over time, keeping the turf protected even with a continue passage of people and vehicles on it.

PUBLIC AND PRIVATE CAR PARKS

RUNFLOOR is suitable for the creation of any type of drivable surface. It is made of LDPE (Low Density Polyethylene), a plastic material characterized by high flexibility, which makes it resistant even when exposed to the sun, avoiding the crystallization typical of grid elements made of other polymers.For this reason, RUNFLOOR is useful for public parkings or permeable drivable surfaces and suitable for heavy vehicles and any area where there is no need of steady maintenance.

ACCESS RAMPS FOR BOATS

Thanks to the elasticity of the LDPE of which it is made, RUNFLOOR guarantees maximum resistance to the passage of heavy vehicles, such as lorries and trucks. Installed on a permeable sub-base built with sand or gravel, it allows to create consolidated and comfortable drivable surfaces. Moreover, thanks to the UV-resistant treatment, RUNFLOOR ensures longlasting results.

CAMPING AREAS

RUNFLOOR is ideal for creating green permeable surfaces for the passage, the transit and the parking of heavy vehicles. RUNFLOOR material and structure guarantee maximum load-bearing capacity and resistance to the typical stresses produced by vehicles, such as brakings and swerves, also in areas characterized by low temperatures, without the risk of crystallization, which is typical of traditional grids. Once the grass has grown, the surface looks like a natural lawn.

EQUESTRIAN SURFACES

The thickness of the ribbings and the material elasticity make RUNFLOOR the perfect solution for the realization of equestrian surfaces dedicated to training, races, paddocks or carousels, as it ensures the total protection of the tendons and joints of the horse. Furthermore the high permeability of the grid prevents the formation of mud, keeping the surface always dry.

GEOFLOR

PLASTIC GROUND PAVER FOR INSTALLATION ABOVE EXISTING LAWNS

GEOFLOR THE SOLUTION

GEOFLOR is the grid for the creation of any type of walkable turf. It was born from a synergetic project between University and Industry, the perfect summary between technique and agricultural knowledge. Thanks to its large cells, which characterize the grid's geometry and to the flexible and elastic material, GEOFLOR can be installed directly over the existing turf. It can instantly protect the lawn and the roots system allowing the transit of vehicles immediately.

EXISTING LAWNS

SOWN TURFS

LAYING TURFS

TEMPORARY PROTECTION

GEOFLOR TECHNICAL DATA

GEOFLOR is ideal to transform a turf into a parking lot or into a driveway, without the preparation of a specific subsoil. Furthermore, it can be used for the creation of grass parkings with specific mineral sub-layers. It is also possible to use it as temporary protection of the lawn in case of sporting events, fairs, concerts and general events.

GEOFLOR

Real size (cm)	50 x 50 x H2.4
Material	LD PE
Weight (kg)	1.16
Packaging size (cm)	100 x 112 x H230
No. pcs. per pallet	400
Load capability (ton/m²)	100

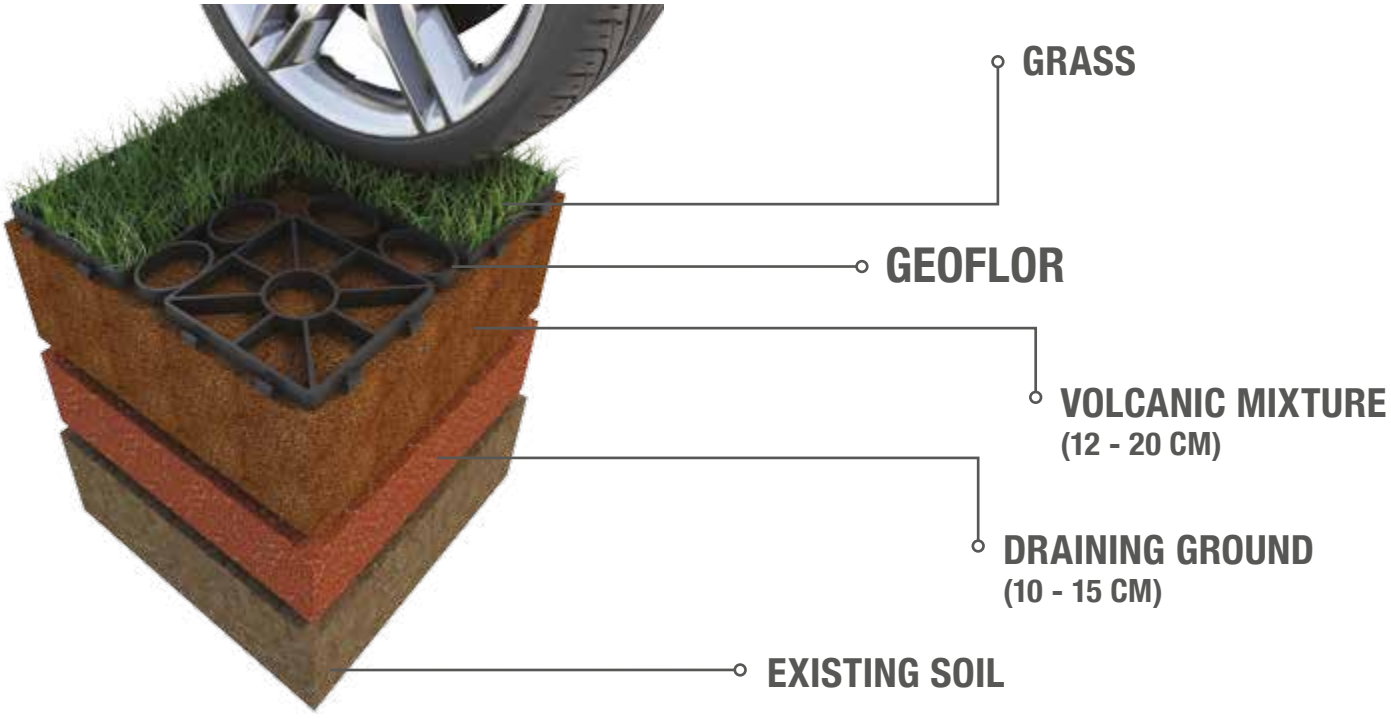
Modulus of elasticity 780 N/mm2
Tensile break strength 22 N/mm2
Thermal expansion coeffiecient 0,2 mm/m/°C

CAPS

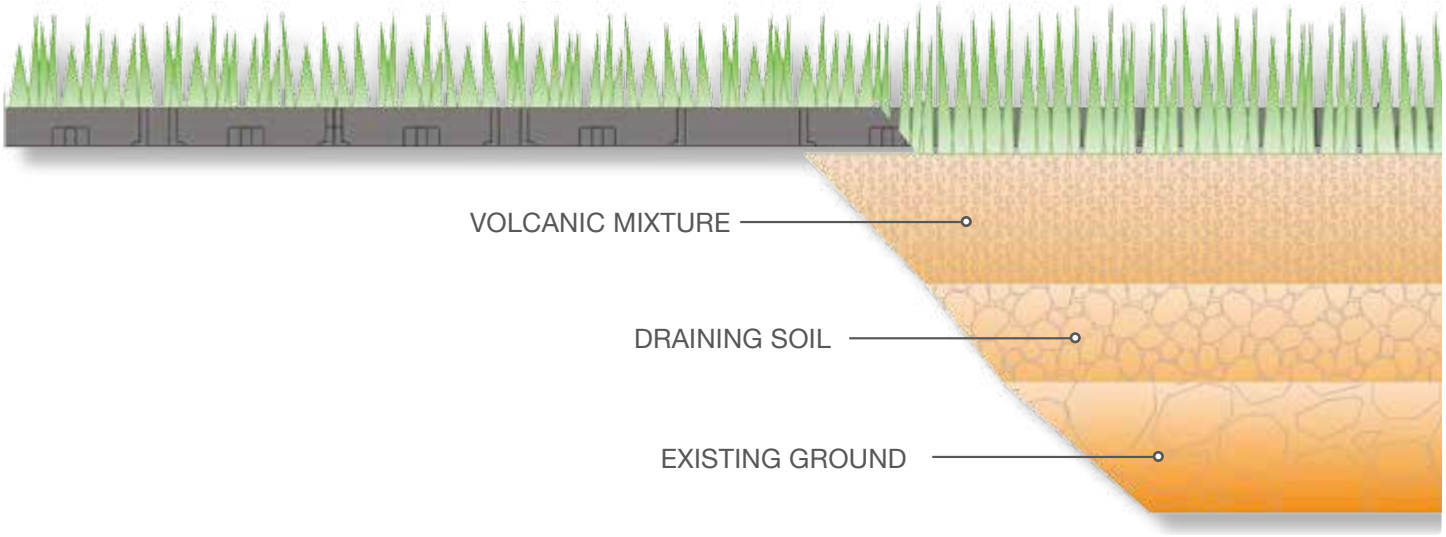
COLOR	
White	○
Yellow	○

The cap allows the marking of the parking areas, private areas, driveways, ecc. It presents a slip-resistant surface and an anchoring rod to the ground.

GEOFLOR STRATIGRAPHY



INSTALLATION

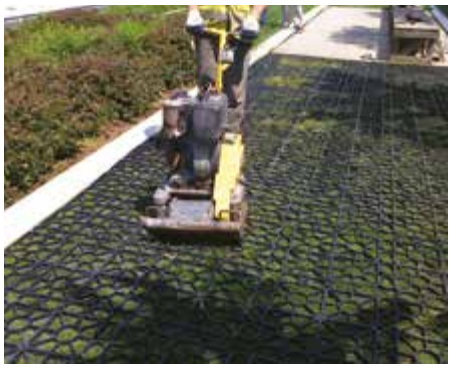


① DRAINING SOIL 10 - 15 cm
Prepare a 10-15 cm thick drainage layer of gravel volcanic lapillus, grain size 5-20 mm.

② SAND BEDDING
Create a 20 cm thick mixture of volcanic sands, grain size 0 - 12 mm (with an existing turf, improvement of the soil through a layer of sand of 8 -10 cm).

③ TURF LAYING (OR SEEDING)
Place the sown laying turf, or alternatively seed the grass.

④ INSTALLATION OF PRE-ASSEMBLED GEOFLOR
GEOFLOR installation through the pre-assembly of the grid.



⑤ PRIOR IRRIGATION, LAY THE PRODUCT MANUALLY
Roll in the presence of an existing or laying turf, if the turf has already been seed, the operation is not necessary.

⑥ GEOFLOR - FINAL RESULT
Cut the grass 2 - 3 times in 15 - 20 days, until GEOFLOR is partially incorporated with the sub-layer.

GRID ADVANTAGES AND PRESCRIPTIONS

ADVANTAGES OF A TRANSITABLE TURF

TOTAL PERMEABILITY

INCREASE OF THE GREEN AREAS

ENVIRONMENT MITIGATION

WHY GEOFLOR ?

AVOIDS THE SUB-LAYER COMPRESSION

LOW MAINTENANCE OF THE TURF

CONSERVATION OF THE LAWN AND RESULT GUARANTEED

GEOFLOR PRESCRIPTIONS

- During the grids installation, keep the expansion joint at a distance of 3-5 cm away from the kerbs and any other obstacle.
- In case of large surfaces, it is recommended to frame an area of 30 m^2 providing the grids with expansion joints, without hooking them but just putting put them closer instead, (leaving a span of about 1 cm).
- Design and provide a specific irrigation system.
- The finishing and seeding have to respect the right seasonality.
- Wait for the complete grassing before transiting over the area.
- To cut the turf, the regulation of the lawnmower blade is sufficient. It can similarly be made with snowploughs.
- GEOFLOR can be removed at a later time to ventilate the turf and carry the specific treatments.
- Restore the possible losses of filling material.
- Periodically carry out the right maintenance of the turf and possible fertilisation.
- GEOFLOR can be easily shaped with a saw or a grinding machine in close proximity of kerbs and manholes.
- The required maximal slope for transitable applications is of 8%. When it is higher, use forks or stakes to fasten GEOFLOR to the soil.

TURF MAINTENANCE

In order to have a good turf, it is recommended to follow these common maintenance operations:

- IRRIGATION
- WEEDS AND INFESTING PLANTS REMOVAL
- MOWING
- FERTILISATION
- REPLANTING OR SEEDING WHERE THE GREEN AREA MAY SUFFER DAMAGES
- ADD MATERIAL IN CASE OF DECLINE

It is possible to obtain a perfect result over time, keeping the lawn protected even with the transit of people and vehicles on it.

EXISTING TURF

GEOFLOR is ideal when the turf already exists and it is well consolidated. Through small processes (ground levellings, adding of volcanic sands for a fast consolidation, etc.), it is possible to make the turf transitable and walkable, even in great artistic value areas: the grid does not have any impact on the functional and aesthetic appeal. GEOFLOR grid assured a positive feedback in a worldrenowned location where it was not possible to make mistakes.

SOWN TURF

Differently from the traditional methods, GEOFLOR can be placed on a sown and finished turf, when the grass seeding is complete. The grid is installed when the grass is cut for the first time and after a few days it will be completely incorporated into the grass. The result is always perfect, because GEOFLOR large holes and base allow the grass to fill the gaps quickly without any damage.

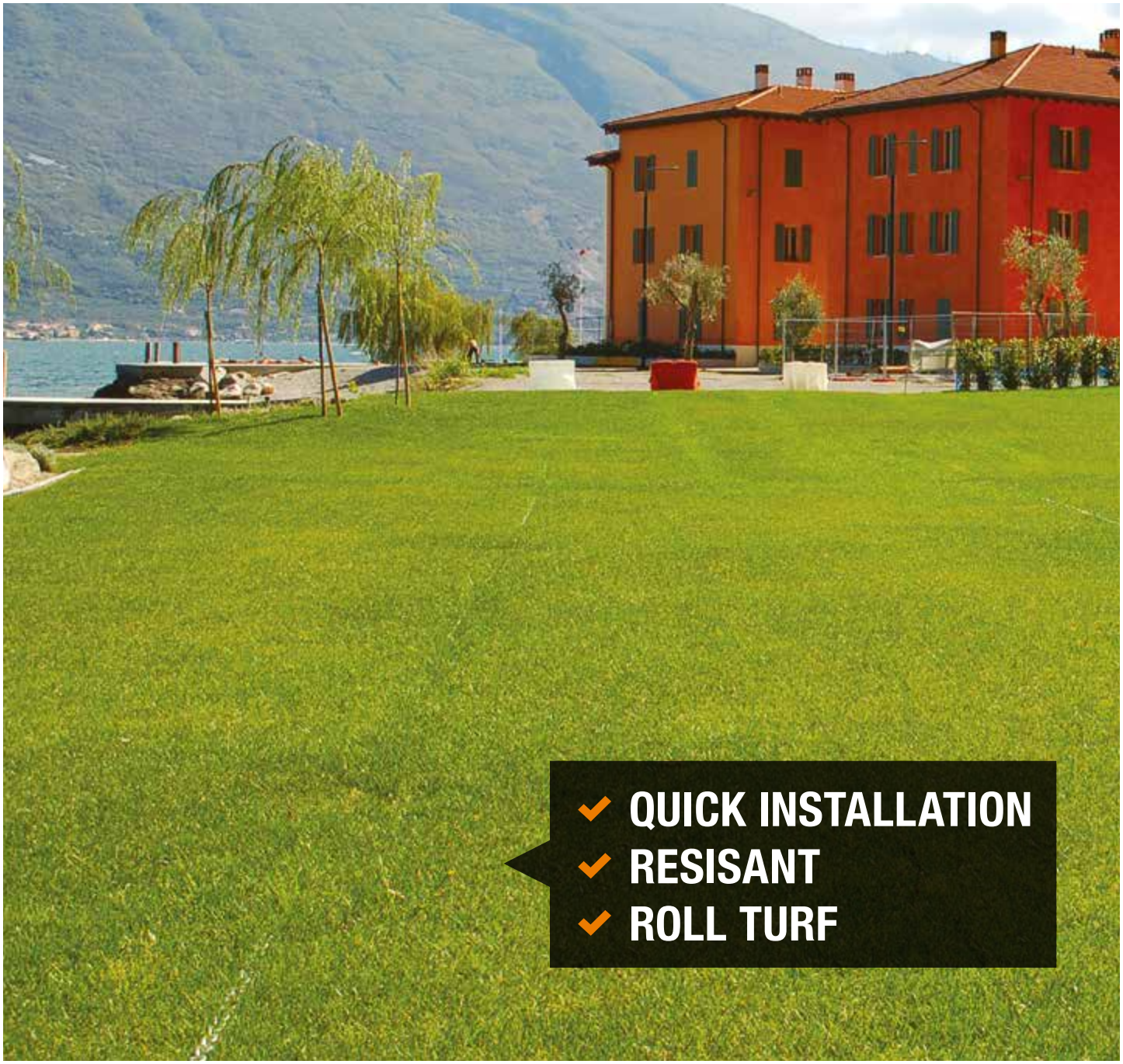
LAYING TURF

The main application of GEOFLOR is the installation on a laying turf. The parking areas are created at the end of the sorrounding buildings construction or at the end of the main processes: usually it is hard to respect the ending-times of the works in the construction site. The winning solution, in order to speed up the phases, is the combined installation of both GEOFLOR and the laying turf.

TEMPORARY PROTECTION OF THE TURF

GEOFLOR strength and flexibility allow the grid to adapt to any surface and become transitable and usable for transitional periods, protecting the roots from crushing forces. If the grid remains installed for a longer period of time, it is still possible to remove it to restore the turf or to carry specific treatments, like ventilation or soil levelling. The result will be a perfectly transitable turf.

GEOGRASS



GRASS REINFORCEMENT PAVING GRIDS

GEOGRASS THE SOLUTION

GEOGRASS is a grid made of HD PE for the creation of car parks or grass and draining areas subjected to the transit of vehicles. The structure consists in a series of rings connected together by a net that gives a great flexibility and a high mechanical resistance to the product. Thanks to these characteristics, the grid can easily resist to the transit of heavy vehicles. Moreover, the special shape of the structure allows the consolidation of the soil and guarantees the perfect drainage of rainwater protecting the roots. A long-lasting result is certainly ensured.

CAR PARKS AND PARKING AREAS

MOVEMENT AREAS OR TRANSIT OF VEHICLES

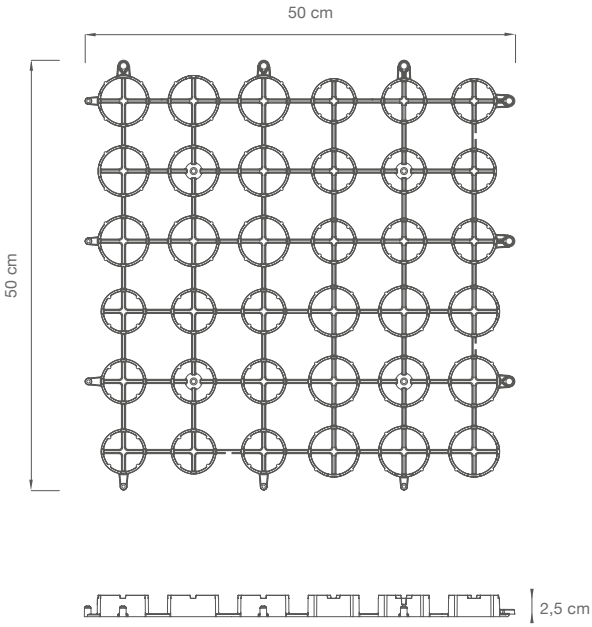
LAWN PROTECTION

PEDESTRIAN PATHS

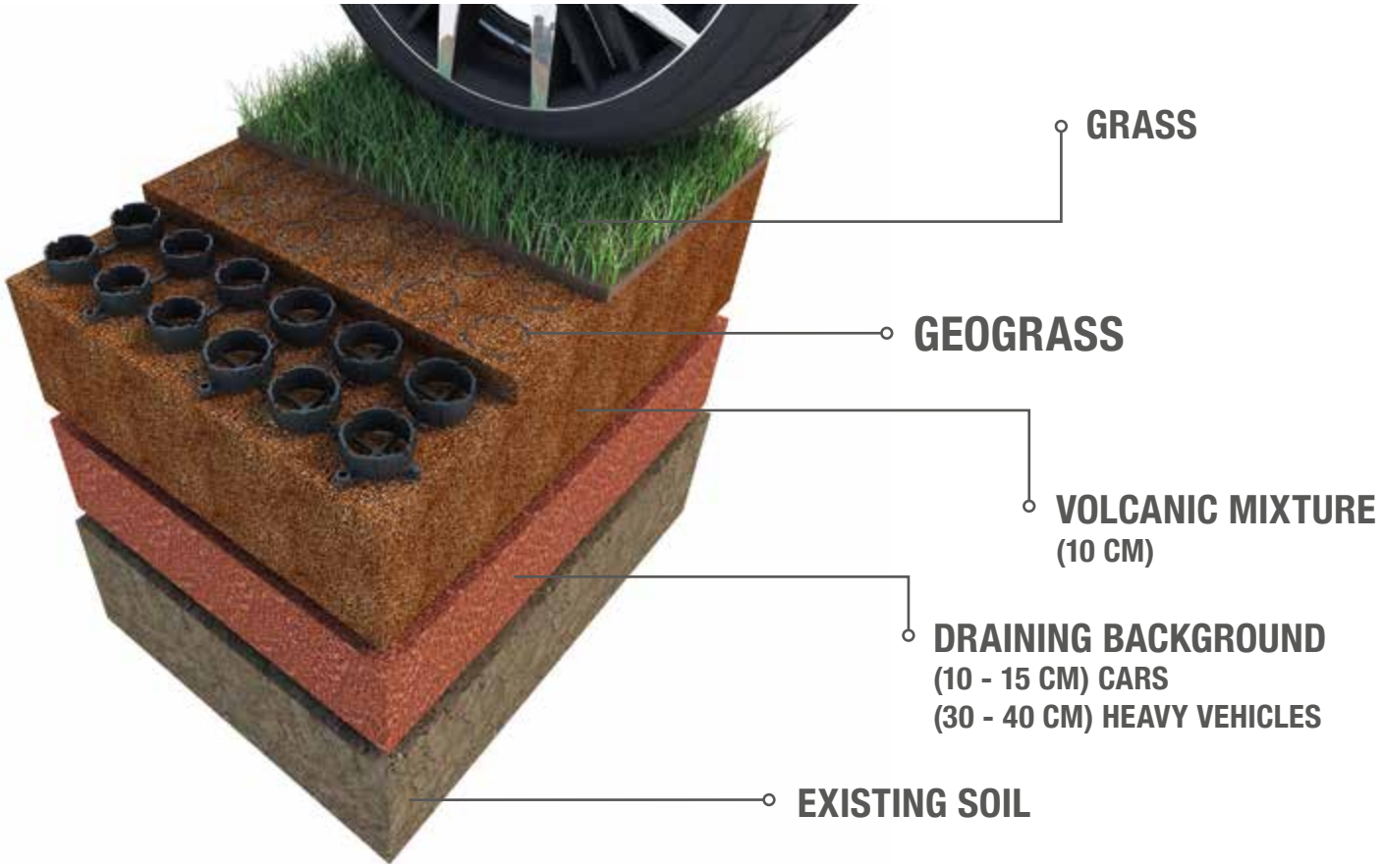
GEOGRASS TECHNICAL DATA

GEOGRASS

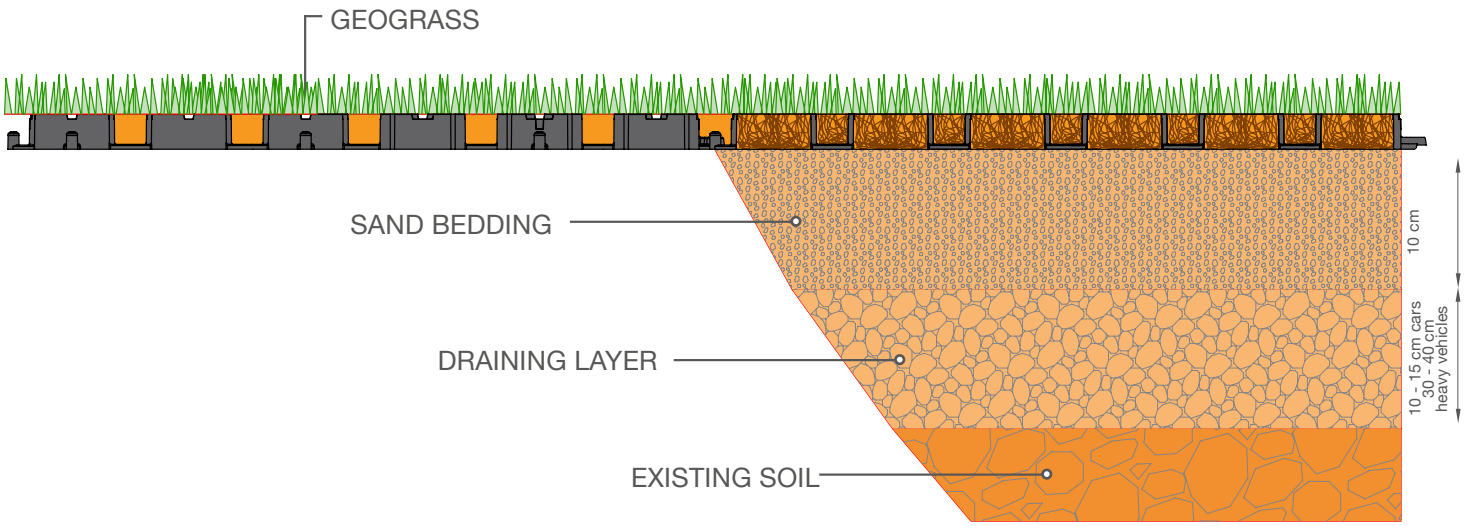
Real size (cm)	50 x 50 x H2.5
Wall thickness (mm)	2.2
Material	HD PE
Weight (kg)	0.52
Packaging size (cm)	100 x 120 x H240
m^2 per pallet	200
No. pcs. per pallet	800
Load capacity (ton/m^2)	400
Color	Black
Permeability	99%



GEOGRASS STRATIGRAPHY



INSTALLATION



① DRAINING BACKGROUND
Excavation and creation of a draining layer made of gravel or lapillus (minimum 15-20 cm).

② LAYING BASE
Lay the sand bedding (at least 10 cm) of volcanic sand or silicium sand enriched with fertilizers.

③ INSTALLATION
GEOGRASS installation.

④ FILLING
Grid covering with the same sands of the sand bedding up to the edge.

⑤ SEEDING
Grass seeding and installation of the roll of sod.

⑥ FINAL RESULT
It is recommend to avoid the transit of vehicles at least until 2 or 3 grass clippings.

GRID ADVANTAGES AND PRESCRIPTIONS

TRANSITABLE TURF ADVANTAGES

TOTAL PERMEABILITY

INCREASE OF GREEN AREAS

ENVIRONMENT MITIGATION

WHY GEOGRASS?

AVOIDS THE SUB-LAYER COMPRESSION

LOW MAINTENANCE OF THE GRASS

TURF MAINTENANCE AND RESULT GUARANTEED

GEOGRASS PRESCRIPTIONS

- During the grids installation, keep the expansion joint at a distance of 3-5 cm away from the kerbs and any other obstacle.
- In case of large surfaces, it is recommended to frame an area of 30 m^2 providing the grids with expansion joints, without hooking them but just putting them closer instead, (leaving a span of about 1 cm).
- Design and provide it with a specific irrigation system.
- The finishing and seeding have to respect the right seasonality.
- Wait for the complete grassing before transiting over the area.
- To cut the turf, the regulation of the lawnmower blade is sufficient. It can similarly be made with snowploughs.
- GEOGRASS can be removed at a later time to ventilate the turf and carry the specific treatments.
- Restore the possible losses of filling material.
- Periodically carry out the right maintenance of the turf and possible fertilisation.
- GEOGRASS can be easily shaped with a saw or a grinding machine in close proximity of kerbs and manholes.
- The required maximal slope for transitable applications is of 8%. When it is higher, use forks or stakes to fasten GEOGRASS to the soil.

TURF MAINTENANCE

In order to have a good turf, it is recommended to perform these common maintenance operations:

- IRRIGATION
- WEEDS AND INFESTING PLANTS REMOVAL
- MOWING
- FERTILISATION
- PLANTS OR SEEDING WHERE THE GREEN AREA MAY SUFFER A DAMAGE
- ADD MATERIAL IN CASE OF DECLINE

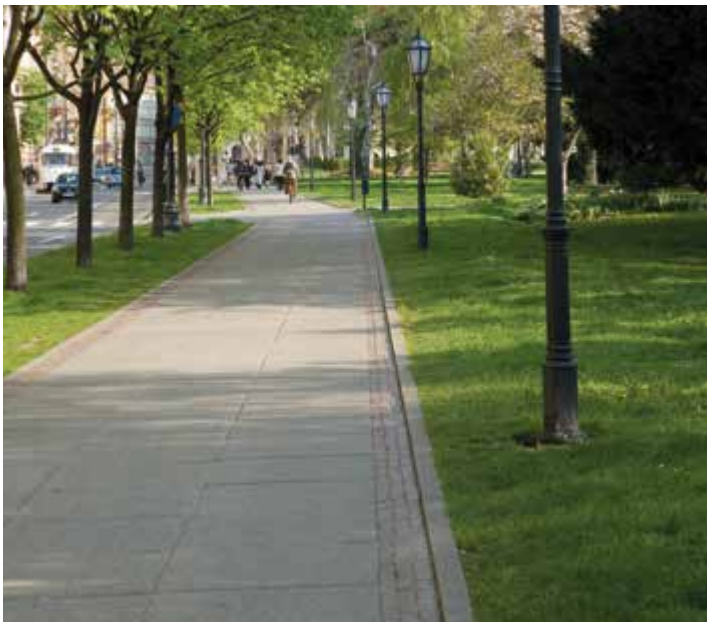
It is possible to obtain a perfect result over time, keeping the lawn protected even with the transit of people and vehicles on it.

GREEN CAR PARKS

GEOGRASS is a grid with a high mechanical resistance that allows the creation of grass car parks for the parking of heavy vehicles. Its special structure avoids the ground compaction which can cause damages to the grass but also give aesthetical effect to the entire lawn. GEOGRASS conformation guarantees a perfect permeability favouring a fast disposal of rainwater and avoiding stagnations and furrows.

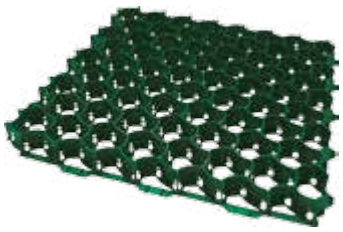
LAWN PROTECTION

GEOGRASS allows the creation of stable and comfortable grass surfaces which are transitable thanks to the perfect consolidation of the soil. The grid permits the passage of the water avoiding stagnation and respecting the regulation on draining surfaces.

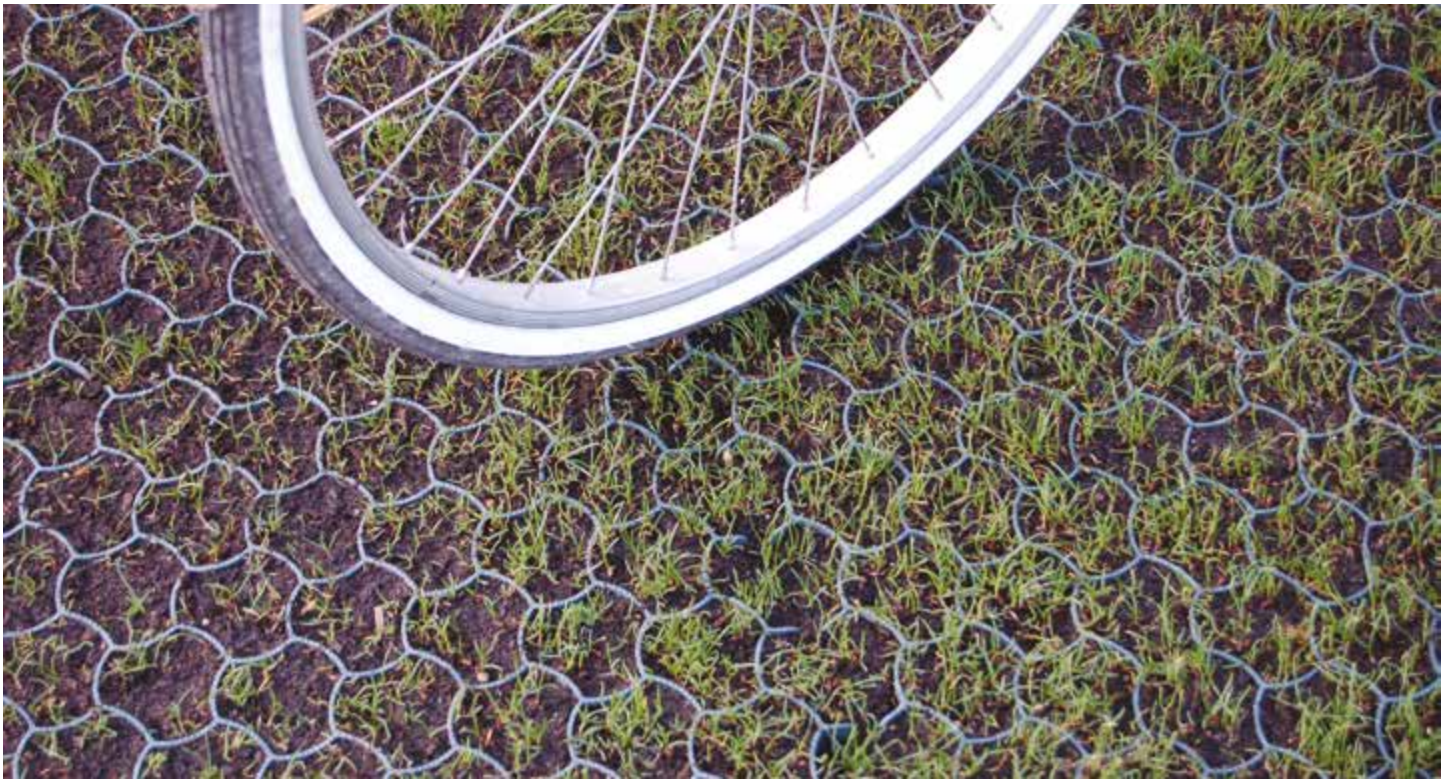


SALVAVERDE

CELLULAR GRASS PAVER FOR WALKABLE AND DRIVABLE GREEN AREAS



SALVAVERDE THE SOLUTION



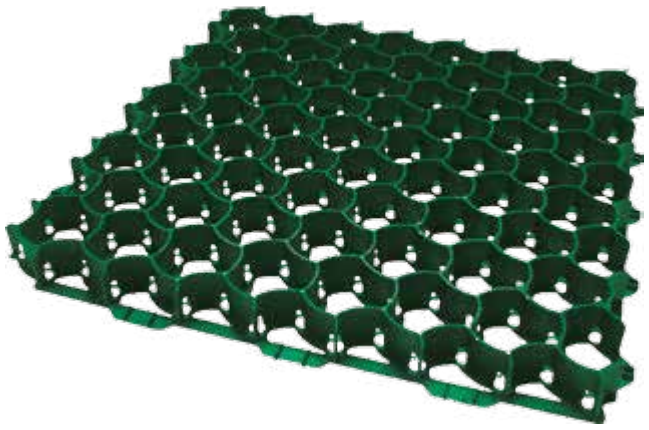
SALVAVERDE is the element for the creation of green parkings and green walking and driving tracks.
It was specifically designed for the protection of grass surfaces. The wide structure of the cells allows a fast rooting of the grass respecting the naturalness of the soil and of the vegetation. SALVAVERDE protects the grass roots from the means of transport, while the honeycomb anti-slip surface makes the transit easy. The 95% permeability allows the right regulation of rainwater in accordance to urban planning restrictions.

PARKING AREAS

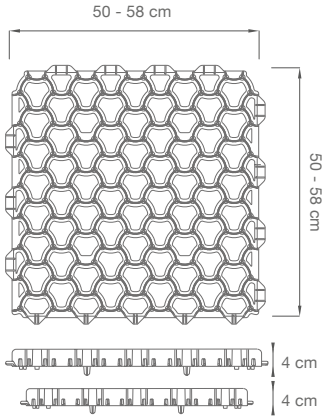
PEDESTRIAN PATHS

BICYCLE PATHS

ACCESS AREAS FOR VEHICLES



SALVAVERDE TECHNICAL DATA



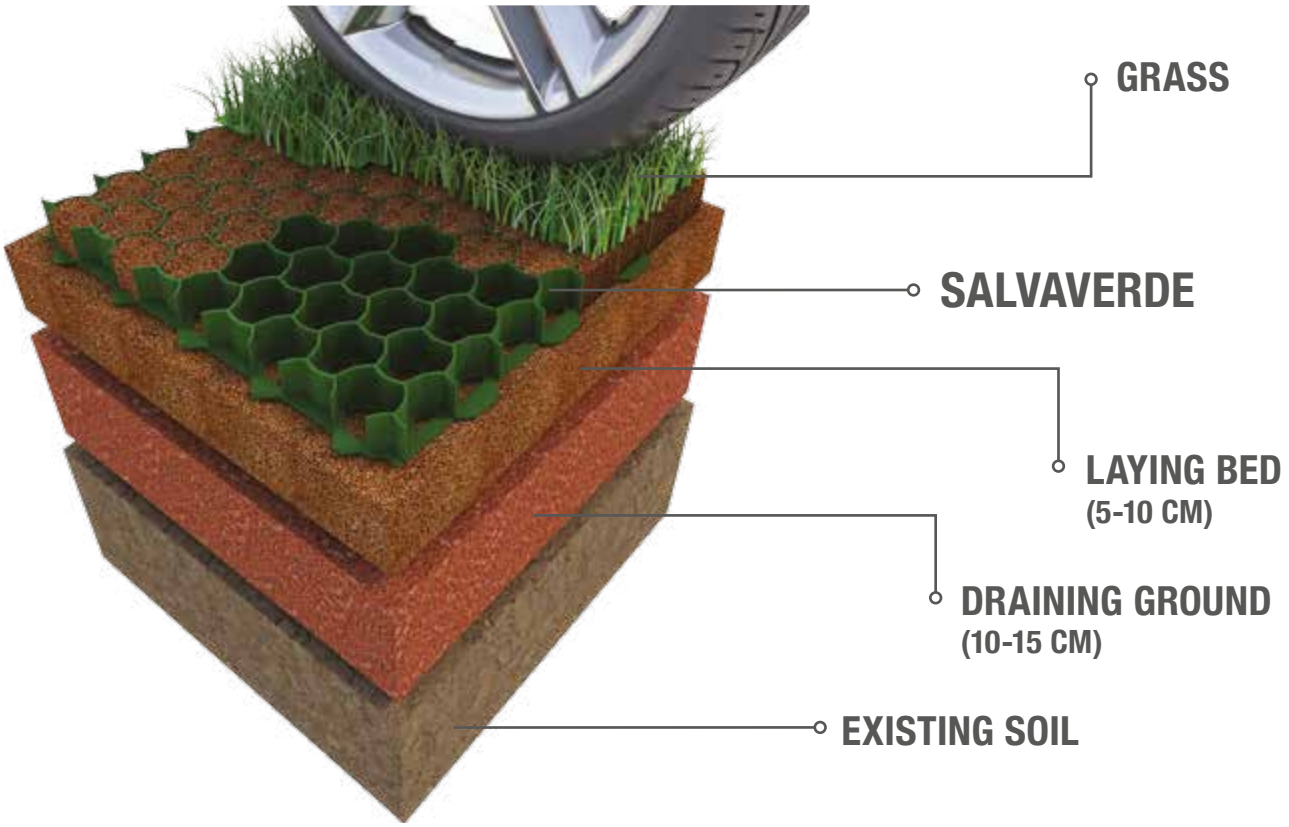
	SALVAVERDE A	SALVAVERDE B
SIZE (cm)	50 x 50	58 x 58
HEIGHT H (cm)	4	4
Load capacity (t/m²)	350	350
Material	HD PE	HD PE
Pc. weight (kg)	0,95	1,19
Packaging size (cm)	100 x 120 x 230	120 x 120 x 240
No. pcs.	240	225
m² per pallet	60	75
Color	Green	Green
Permeability	95%	95%

CAPS

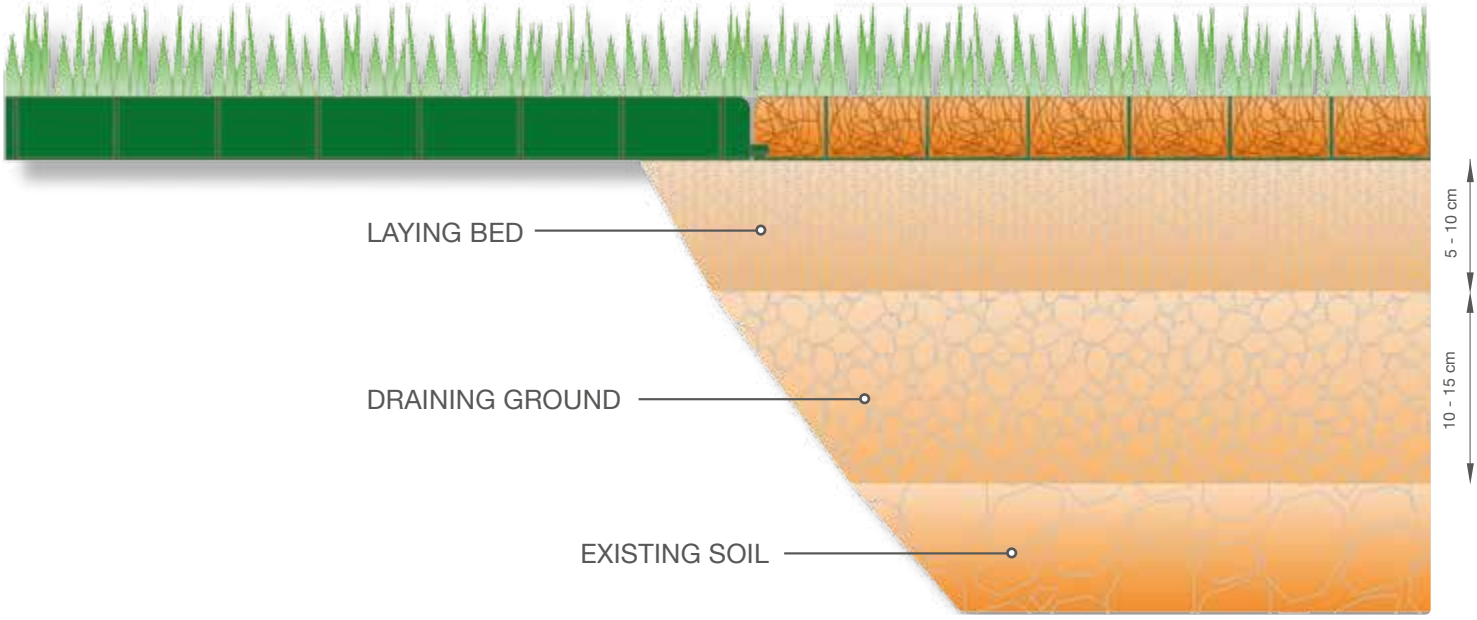
COLOR	
White	○
Yellow	○

The cap allows the marking of the parking areas , the driveways and so on. It is provided with a slip-resistant surface and an anchor rod.

SALVAVERDE STRATIGRAPHY



INSTALLATION



① DRAINING GROUND 10 - 15 cm

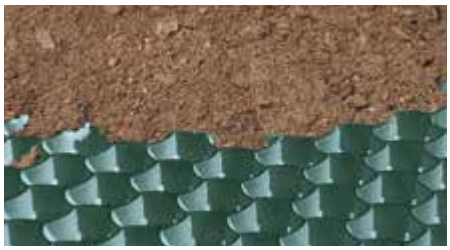
Drainage layer formed by 10/15 cm of volcanic lapillus, grain size 5-20 mm, crush resistance 35 N/mm2 (UNI 7549/7).

② LAYING BED

Creation of SALVAVERDE Geoplast laying surface formed by 3/4 cm of volcanic sands mixture (enriched with soil and fertilizers), grain size 0-5 mm laid out and well striked in order to reach a perfect leveling.

③ INSTALLATION

Installation of SALVAVERDE that guarantees the drainage of rainwater and the protection of the turf.



④ SANDS FILLING

Cells filling with a mixture of volcanic sands enriched with topsoil and organic fertilisers (grain size 0-5 mm). Alternatively, blend of silica sand, enriched with peat and organic humos. It is recommended to avoid the transit of vehicles at least until 2 or 3 grass clippings.

⑤ SEEDING

Finishing and seeding.

⑥ DETECTING CAPS

Detecting caps to delimit parkings, private areas, driveways,ecc. In order to better define the parkings, 4 caps per linear meter are recommended.

GRID ADVANTAGES AND PRESCRIPTIONS

TRANSITABLE TURF ADVANTAGES

TOTAL PERMEABILITY
INCREASE OF GREEN AREAS
ENVIRONMENT MITIGATION

WHY SALVAVERDE?

AVOIDS THE SUB-LAYER COMPRESSION
LOW MAINTENANCE OF THE GRASS
TURF MAINTENANCE AND RESULT GUARANTEED

SALVAVERDE PRESCRIPTIONS

- During the grids installation, keep the expansion joint at a distance of 3-5 cm away from the kerbs and any other obstacle.
- In case of large surfaces, it is recommended to frame an area of 30 m² providing the grids with expansion joints, without hooking them but just putting them closer instead, (leaving a span of about 1 cm).
- Design and provide a specific irrigation system.
- The finishing and seeding have to respect the right seasonality.
- Wait for the complete grassing before transiting over the area.
- To cut the turf, the regulation of the lawnmower blade is sufficient. It can similarly be made with snowploughs.
- SALVAVERDE can be removed at a later time to ventilate the turf and carry the specific treatments.
- Restore the possible losses of filling material.
- Periodically carry out the right mantainance of the turf and possible fertilisation.
- SALVAVERDE can be easily shaped with a saw or a grinding machine in close proximity of kerbs and manholes.
- The required maximal slope for transitable applications is of 8%. When it is higher, use forks or stakes to fasten SALVAVERDE to the soil.

TURF MAINTENANCE

In order to have a good turf, it is recommended to perform these common maintenance operations:

- IRRIGATION
- WEEDS AND INFESTING PLANTS REMOVAL
- MOWING
- FERTILISATION
- PLANTS OR SEEDING WHERE THE GREEN AREA MAY SUFFER A DAMAGE
- ADD MATERIAL IN CASE OF DECLINE

It is possible to obtain a perfect result over time, keeping the lawn protected even with the transit of people and vehicles on it.

TURF PROTECTION

SALVAVERDE is the system that allows the creation of green surfaces, avoiding the problems linked to the transit of the vehicles. In this way, furrows and roots damages are avoided. SALVAVERDE consolidates and stabilises the surface, keeping the natural permeability of the soil. The draining surface that urbanization law requires, is thus fulfilled.

TRANSITABLE TURF

SALVAVERDE is the turf protection that allows the creation of long-lasting grass parkings. The turf can always be protected from the transit of vehicles. SALVAVERDE avoids furrows and surface damages. Thanks to the large structure, SALVAVERDE guarantees an high permeability, facilitating the right disposal of rainwater. The surface is perfect for the transit of vehicles and the walkway.

GEOGRAVEL

GRAVEL STABILIZER GRID FOR DRIVEWAYS AND CAR PARKS

GEOGRAVEL THE SOLUTION

GEOGRAVEL is the ideal solution to create gravel permeable car parks: it ensures the same performances of an asphalted area and keeps the ground permeability unchanged. The micro-perforated base of GEOGRAVEL, allows the natural draining of the water in the soil and gives stability and strength to the surface even when vehicles transit on it.

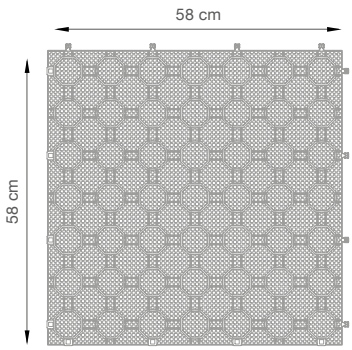
CAR PARKS

FOOTPATHS

CYCLE PATHS

DRIVEWAYS

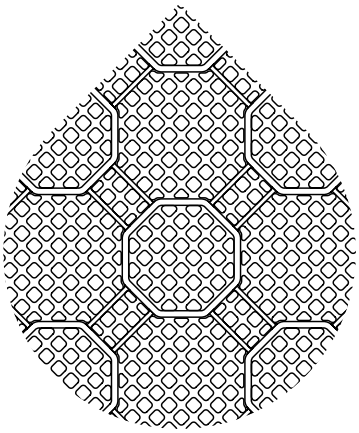
GEOGRAVEL TECHNICAL DATA



GEOGRAVEL

Size (cm)	58 x 58 x H3
Weight (kg)	0.99
Material	HD PE
Load capability (tonne/m²)*	400
Permeability	61%
Gravel consumption (m³/m²)	0,027 m³ / m²
Color	Semi-transparent white
Packaging size (cm)	120 x 120 x H240
m² per pallet	100
No. pcs per pallet	300

* Complies with the requirements of DIN1072 - class SLW60



CAPS

COLOR	
Giallo	The cap allows the marking of the parking areas , the driveways and so on. It is provided with a slip-resistant surface and an anchor rod.
Blu	

GEOGRAVEL STRATIGRAPHY

GRAVEL FINISHING

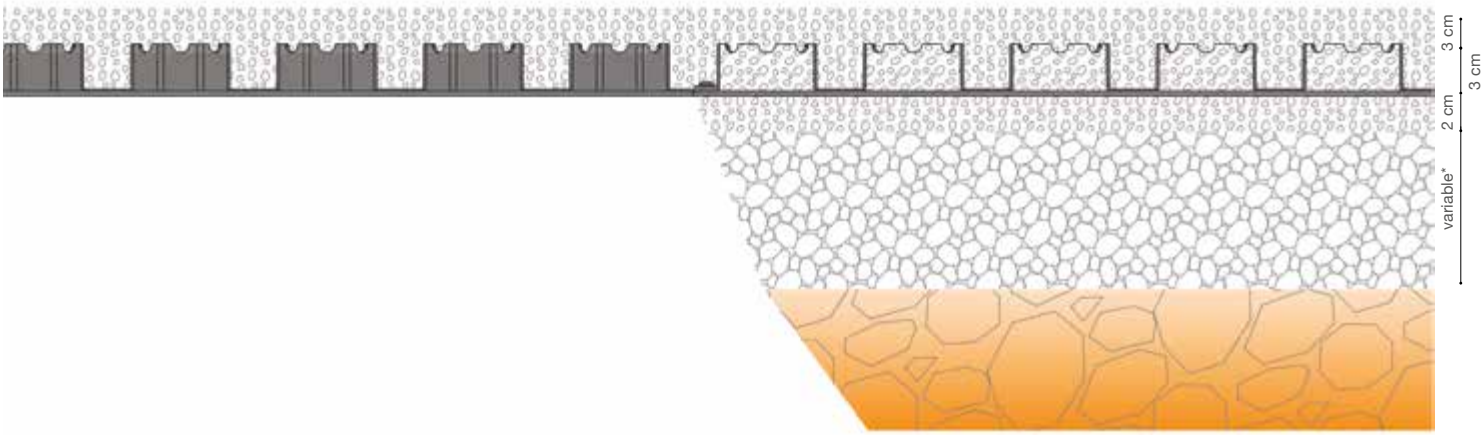
GEOGRAVEL

GRAVEL 0-5 MM
(2 CM)

DRAINING BACKGROUND
(15 - 20 CM)

EXISTING SOIL

INSTALLATION



*The thickness of the substrate can vary according to the loads.

① EXCAVATION AND BACKGROUND

Cleaning excavation and creation of a gravel draining bed 5-20 mm.

② LEVELLING

Installation of a fine pebble levelling layer 0-5 mm.

③ INSTALLATION

Geogravel installation.

④ FILLING

Fill the grid with fine pebble from 5-10 mm up to 3 cm on the cells.

⑤ LAYING

Gravel manual compaction.

⑥ FINAL RESULT

After the correct installation, Geogravel can be used.

INSTALLATION PRESCRIPTIONS

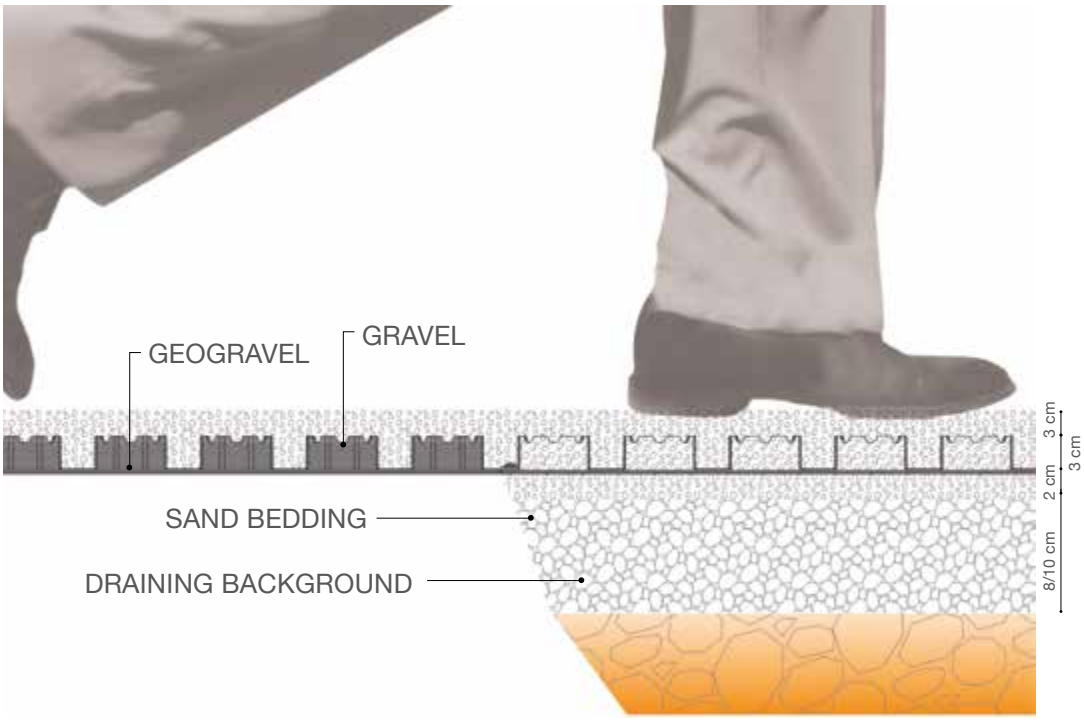
WALKWAYS, BICYCLE PATHS, DISABLED ACCESSES

① Permeable sub-base of 8/10 cm with compacted crushed gravel (crushed limestone, porphyry or crushed concrete), granulometry 5-20 mm*.

② Gravel levelling layer 2 cm thick, granulometry 0-5 mm.

③ GEOGRAVEL installation.

④ Fill the grids with decorative gravel, up to 3 cm over the height of the cells



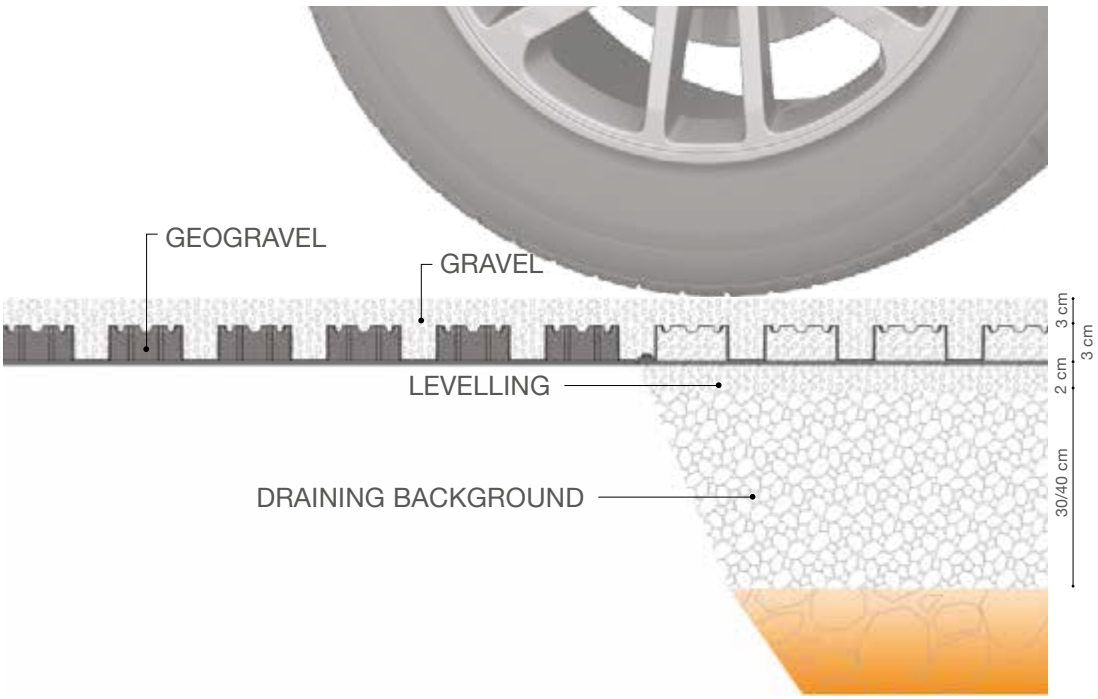
VEHICLES

① Permeable sub-base of 18/20cm with compacted crushed gravel (crushed limestone, porphyry or crushed concrete), granulometry 5-20 mm*.

② Sand bedding 2 cm thick of gravel granulometry 0-5 mm.

③ GEOGRAVEL installation

④ Filling of the grids with decorative gravel 3 cm over the height of the cells.



HEAVY VEHICLES

① Permeable sub-base of 30/40 cm with compacted crushed gravel (crushed limestone, porphyry or crushed concrete), granulometry 5-20 mm*

② Sand bedding 2 cm thick of fine gravel, granulometry 0-5 mm.

③ GEOGRAVEL installation.

④ Filling of the grids with decorative gravel 3 cm over the height of the cells.

WARNING

RESPECT THE THICKNESS AND THE GRANULOMETRY SHOWN IN THE SAND BEDDING

* The thickness of the substrate can vary according to the load-bearing capacity of the natural subsoil.

ADVANTAGES AND ADVICES TO GET A BETTER RESULT

- The sand bedding needs to be compacted and levelled in order to avoid the lifting of the elements.
- During the grids installation, an expansion joint should be placed at 3-5 cm from the kerbs.
- In case of large surfaces it would be appropriate to frame areas of about 30 sqm and provide them with expansion joints in order to place the grids without hooking them (you should keep them at a distance of about 1 cm from one another).
- GEOGRAVEL can be easily shaped in proximity to kerbs or wells.
- If the filling material finishes, you need to add more of it because the grids have to be completely covered.
- Fill the cells with gravel, 3 cm over the edge. The grids needs to be completely covered.

WITHOUT GRID

ADVANTAGES OF A GRAVEL AREA

Total permeability

Easy maintenance

Cost-saving material

WITH GRID

WHY THE GRID?

Elimination of soil subsidence

Elimination of the dust lift-off

The micro-perforated grid makes the ground stable

SAFE AND COMFORTABLE

GEOGRAVEL PROVIDES STABILITY TO THE GRAVEL BED, avoiding the side movement of the grid and the material loss. Thanks to the high quality of the material, Geogravel allows also the safe and comfortable transit of vehicles and people (no gravel or dust lift-off).

FOOTPATHS

GEOGRAVEL is the ideal solution to create gravel surfaces like yards, footpaths or driveways. GEOGRAVEL provides stability to the surface making the passage safe and comfortable also for wheelchairs, strollersand bikes. Its high permability permits a fast drainage of the water in the subsoil avoiding the formation of puddles or stagnations.

CAR PARKS

GEOGRAVEL is the ideal solution to create permeable car parks that guarantee a high comfort and keep the draining capacity of the soil unaltered. GEOGRAVEL cells hold back the gravel and avoid any maintenance typical in green car parks.

GEOROAD

PLASTIC GROUND PAVER FOR REINFORCEMENT OF ROAD VERGES

GEOROAD THE SOLUTION

GEOROAD is a HD PE panel, designed to consolidate the road's verges subjected to problems of subsidence; its rhombus structure allows, in fact, to reduce significantly the forces of lateral thrust caused by the passage of vehicles. The reduced width permits the easy adaptation to any marginal zone of the roadway. Thanks to the double elastic connecting coupling between the panels GEOROAD, the effects of thermal expansion are removed and the installation is quickly, both in the straight and curved sections.

SIDE ROADS

ROADS FOR TRANSIT OF FARM MACHINERY

ROUNDABOUTS

STREETS CENTRAL LANES

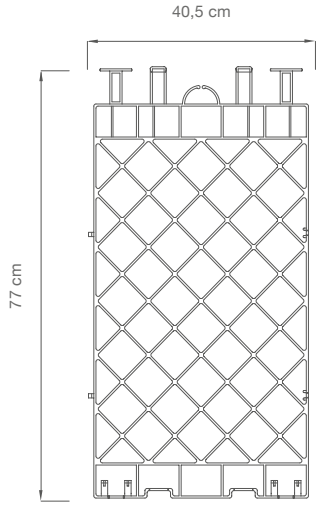
PRIVATE DRIVEWAYS

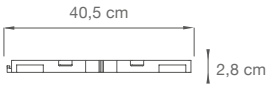
CURVES

GEOROAD TECHNICAL DATA

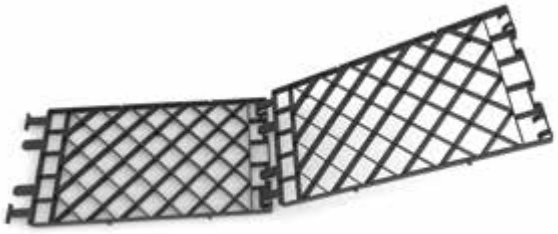
GEOROAD

Real size (cm)	77 x 40.5 x H2.8
Material	HD PE
Weight (kg)	1.16
Packaging size (cm)	83 x 120 x H240
m^2 per pallet	74.85
No. pcs. per pallet	240
Load capacity (ton/m^2)	500
Color	Black

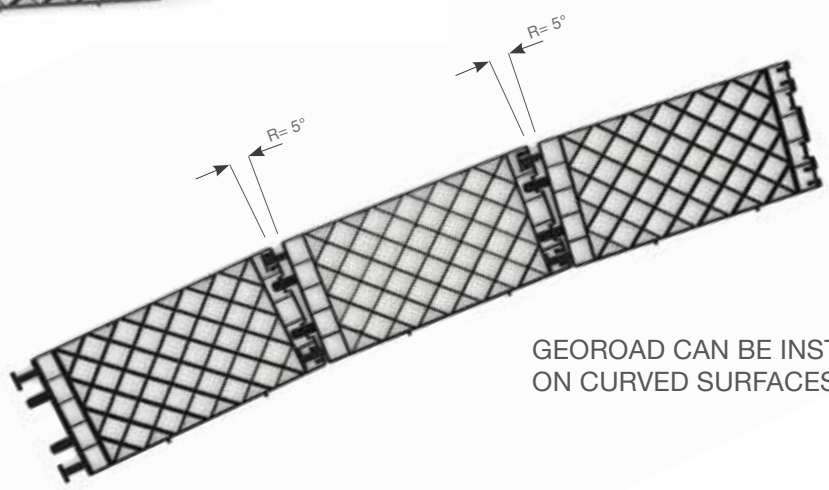




FRONTAL COUPLING DETAILS

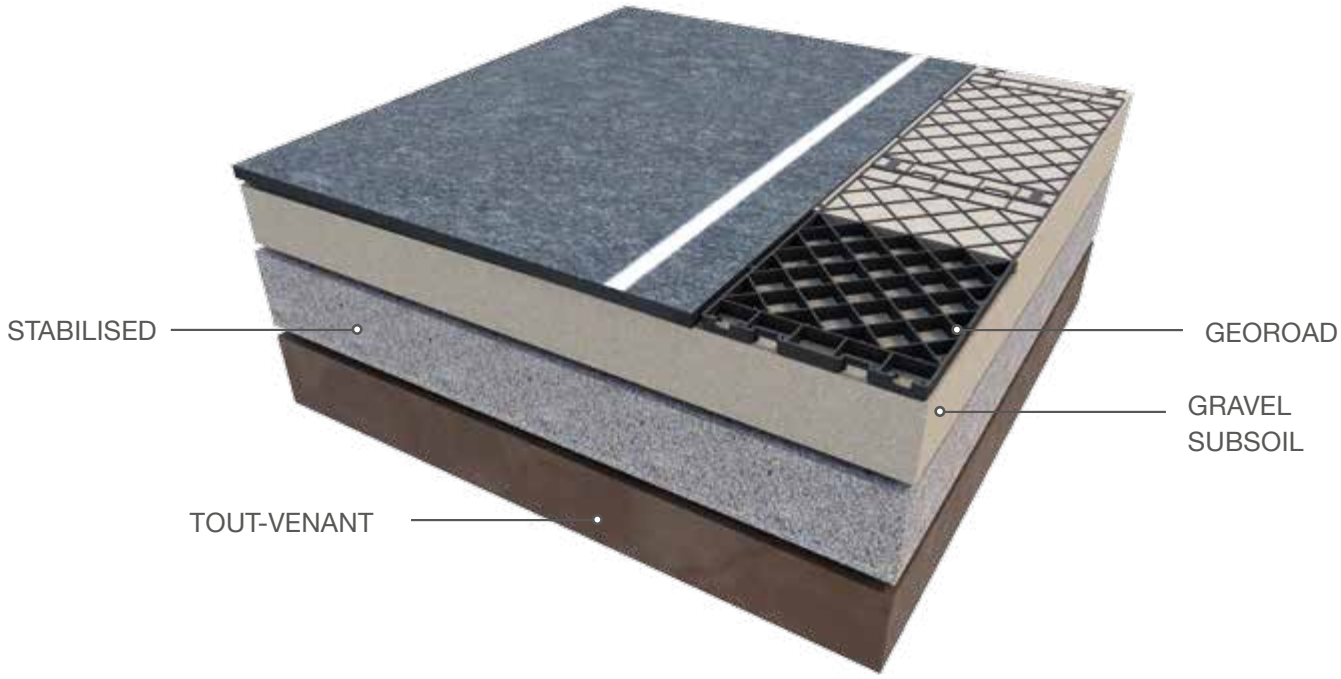


GEOROAD 's joint is designed to allow a connection between the panels resistant to the stresses related to the applied loads, and to permit a rotation of 5° between one element and another for the installation along curves.



GEOROAD CAN BE INSTALLED
ON CURVED SURFACES

INSTALLATION



1 LAYING

Apply a supporting layer which can withstand to the stress of the transiting vehicles.

2 INSTALLATION

Install GEOROAD on the road quay.

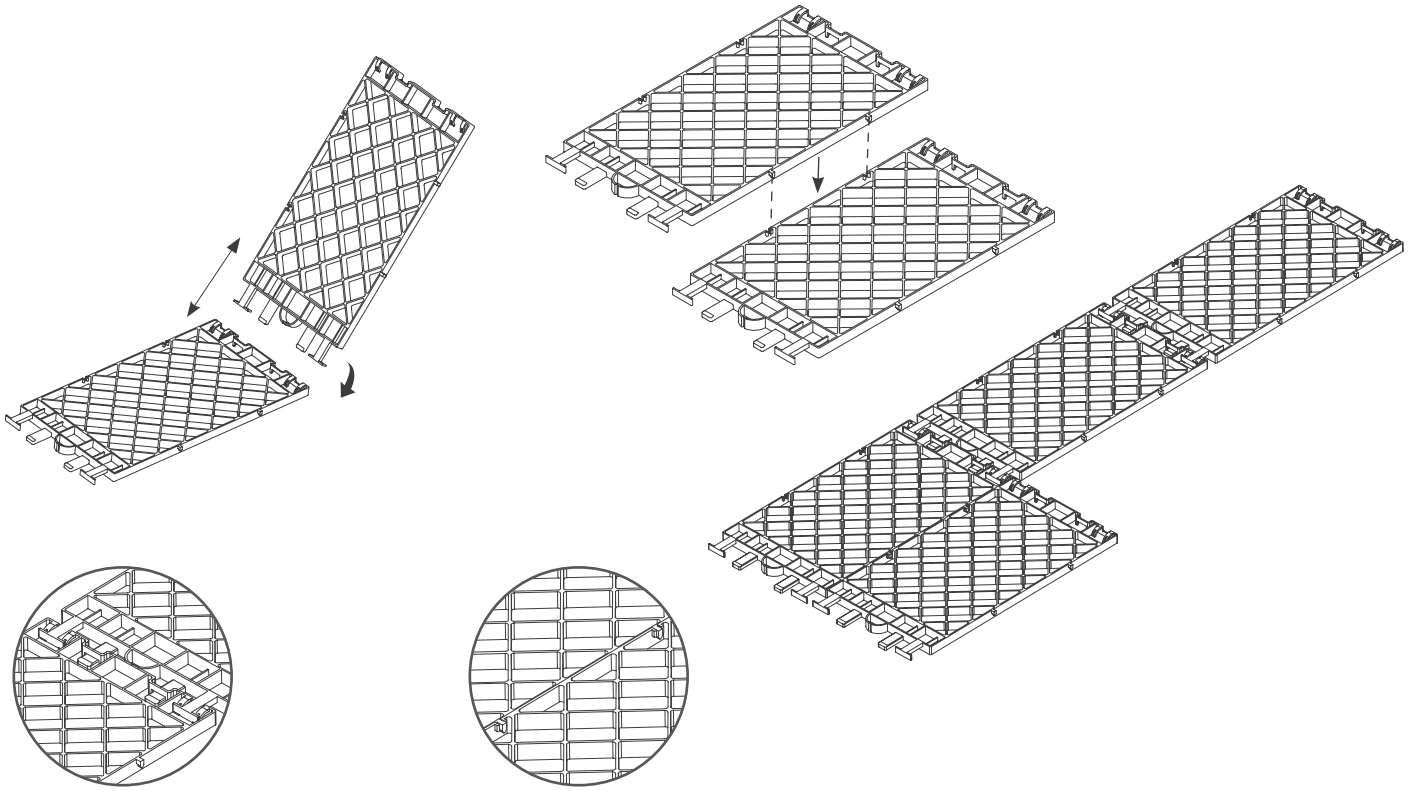
3 LEVELLING

Cover up to the edge of GEOROAD with finegrained. It is possible to cover the surface with grass too.

4 FINAL RESULT

After the correct installation, GEOROAD can be used.

GEOROAD INSTALLATION

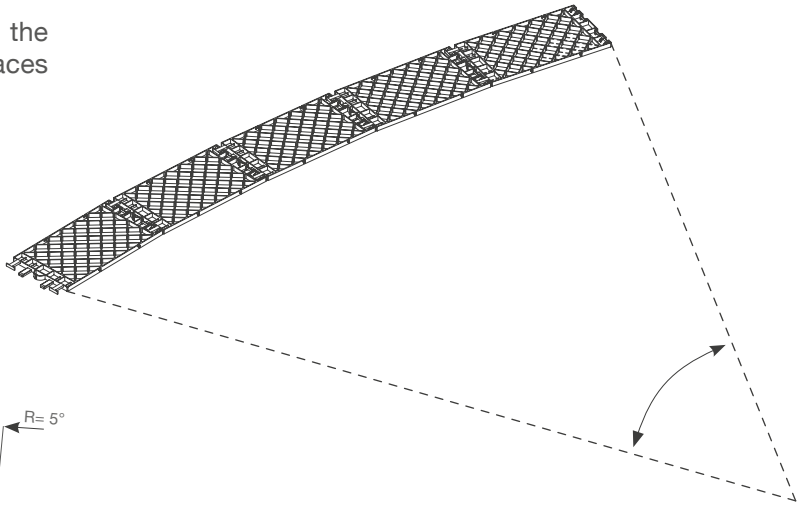


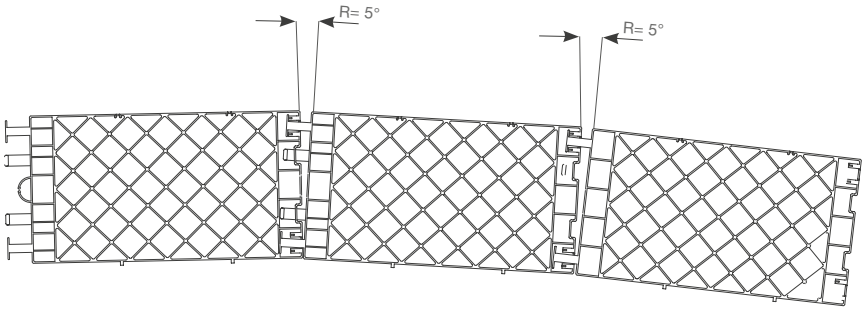
FRONTAL CONNECTION

SIDE CONNECTION

INSTALLATION ALONG CURVED SURFACES

Thanks to the double flexible joint integrated in the panel, GEOROAD can be installed on curved surfaces and roundabouts.





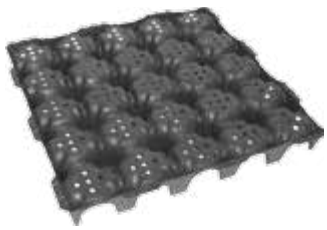
STABILIZATION OF ROAD VERGES

MORE SAFETY FOR THE TRANSIT OF VEHICLES

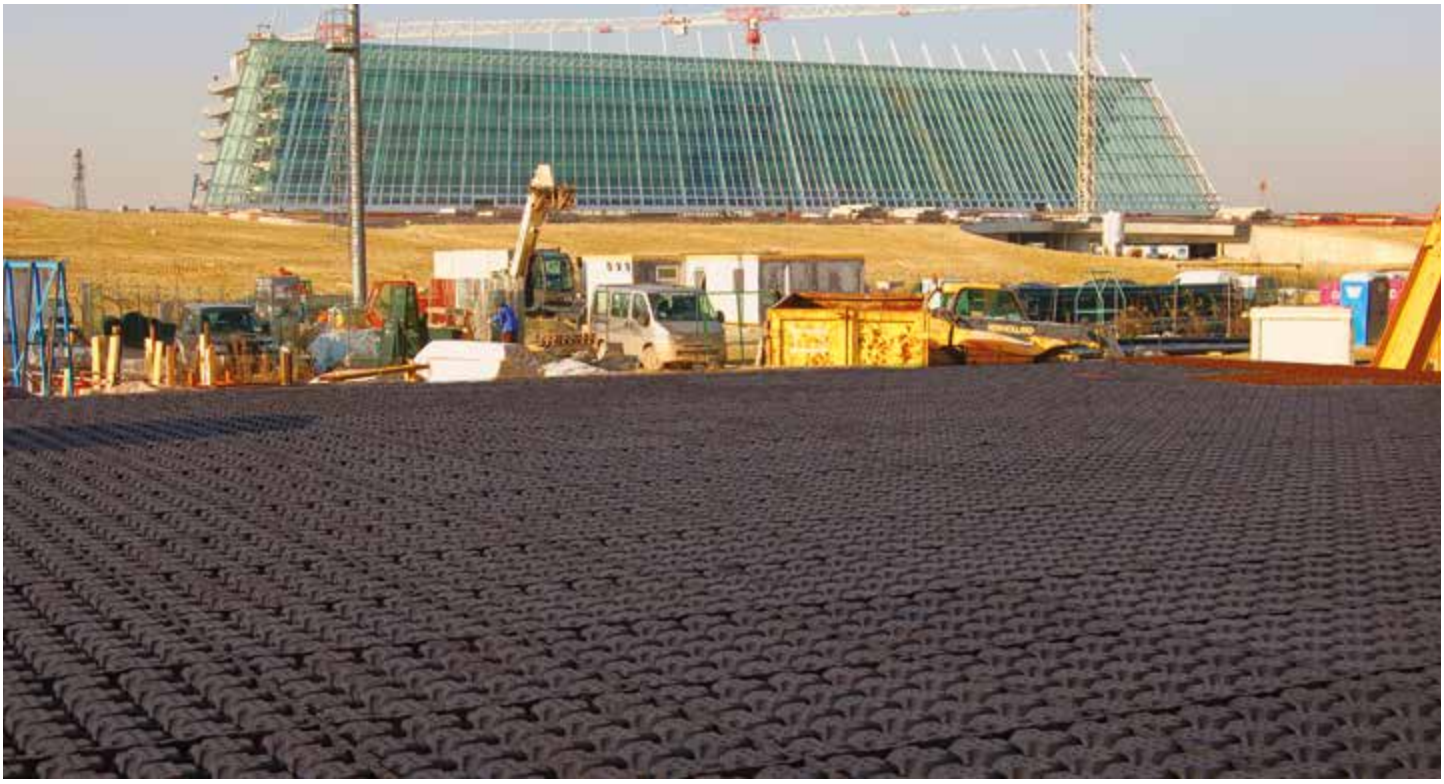
With its robust and resistant to mechanical stress structure, GEOROAD allows the consolidation of the carriageway subjected to subsidence,both in straight and in curved sections, thanks to the special joint that allows a partial rotation of the elements. GEOROAD has a completely permeable surface, which permits the passage of rain water, eliminating any problem of stagnation.

DRAINROOF

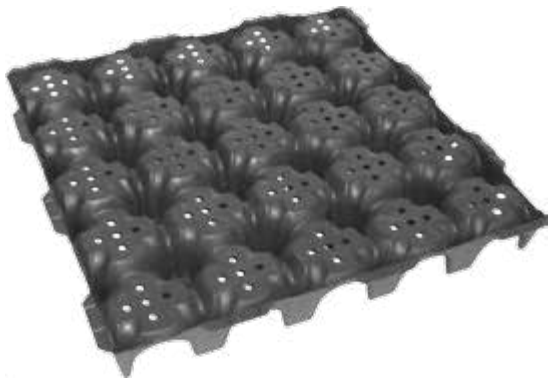
HIGH-PERFORMANCE GREEN ROOF DRAINAGE BOARD



DRAINROOF THE SOLUTION



DRAINROOF is the drainage and accumulation element for the creation of roof gardens on slabs and plates made of concrete. It was specifically designed for green roofs because it offers a high rainwater disposal capability, avoiding stagnation and protecting the waterproofing layer. DRAINROOF high load capacity allows the creation of any type of garden, extensive light gardens and more usable intensive gardens. The panel of two different heights, 6 and 2.5 cm, allows the ventilated crawl space to grow and they also help to limit the coverage thickness.



ROOF GARDENS

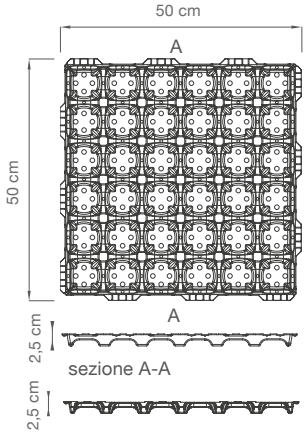
GREEN TERRACES

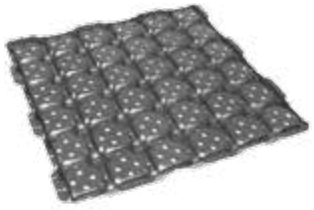
SET OF GREEN ISOLATING PACKAGES

COVERING OF UNDERGROUND GARAGES

DRAINROOF TECHNICAL DATA

DRAINROOF H2,5

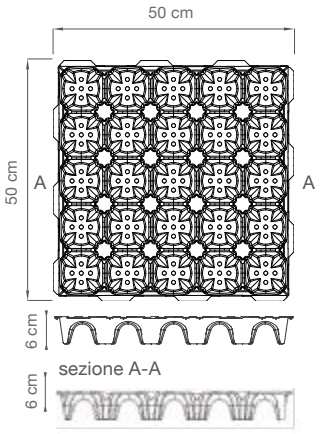


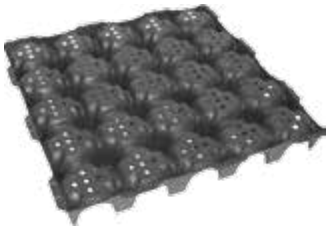


DRAINROOF H2,5

REAL SIZE (cm)	50 x 50 x 2.5
Material	PP
Compression resistance (kg /m²)	3.200
Weight m² (kg)	2.56
Weight per item (kg)	0.64
Draining surface (cm²/m²)	547
Water storage (l/m²)	1.32
Discharge Volume	17.2
Solubility	Resistant to organic, acid, alkialine and alcoholic substances
Packaging dimension (cm)	105 x 120 x 230
Items per pallet	1.440
m² per pallet	360

DRAINROOF H6





DRAINROOF H6

REAL SIZE (cm)	50 x 50 x 6
Material	Regenerated polypropylene
Compression resistance (kg /m²)	6000
Weight m² (kg)	4.28
Weight per item (kg)	1.07
Draining surface (cm²/m²)	318
Water storage (l/m²)	12
Discharge Volume	40
Solubility	Resistant to organic, acid, alkialine and alcoholic substances
Packaging dimension (cm)	105x 120 x 240
Items per pallet	720
m² per pallet	180

GEO-TEXTILES ACCESSORIES

GEO-TEXTILE 200 g/m²

Textile protection of the layer during the installation

Weight (g/m²)	200
Thickness (mm)	1.20
Tensile strength (kg/m) long.	1.8 trasv. 2.3
Extension with fractures (%) long.	80 trasv. 80

GEO-TEXTILE 150 g/m²

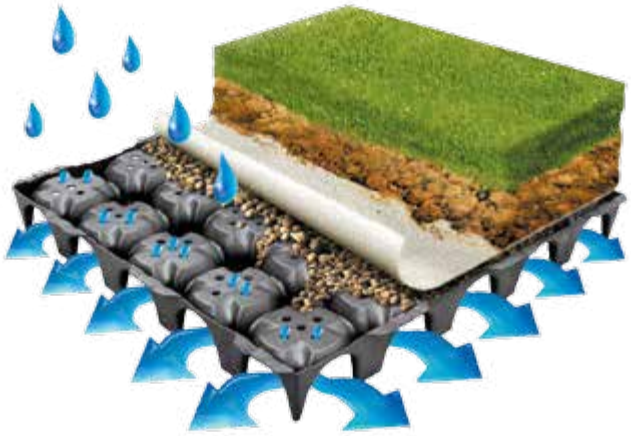
Textile separation from the underlayer

Weight (g/m²)	150
Thickness (mm)	0.90
Tensile strength (kg/m) long.	11 trasv. 11
Extension with fractures (%) long.	55 trasv. 55

THE BENEFITS OF ROOF GARDENS

SHEATH PROTECTION
From the sudden temperature changes, from the UV rays and from the atmospheric agents. The coverage life grows of the 20%.

LOWERING OF THE RUN-OFF PEAKS
A roof garden absorbs the 50% of rainwater, lowering the quantitiy to dispose it in the urban sewer.



MICROCLIMATE REGULATION
Through the evaporation and evapotranspiration of the absorbed water, in order to refresh the environment.

INCREASE OF THE COMMERCIAL VALUE
The roof garden offers new usable spaces and increases the energy profit of building's coating.

INCREASE OF THE PHOTOVOLTAIC PROFIT
Thanks to the maintenance of a more stable temperature, within the range to obtain an high profit.

THERMAL AND ACOUSTIC INSULATION
The green set is used as an insulating layer: in winter it isolates thermally, while in summer it is used as a solar shield.

DRAINROOF EXTENSIVE ROOF GARDEN

The typical application of the extensive roof garden is the green roof, which is created with plants that do not require maintenance and irrigation, as the sedum and other similar species. These plants need a limited thickness underlayer: the set is light and can be installed on any existing roof, both plane and inclined. The extensive set is easy to realize and maintain. It absorbs most of the rainfalls, protects the coverage and isolates the building thermally. Keeping a stable temperature, it can improve the yeld of the photovoltaic panels which are generally pulled alongside.

The extensive roof garden can be used with DRAINROOF 6 o DRAINROOF 2,5 cm depending on the project.

CHARACTERISTICS

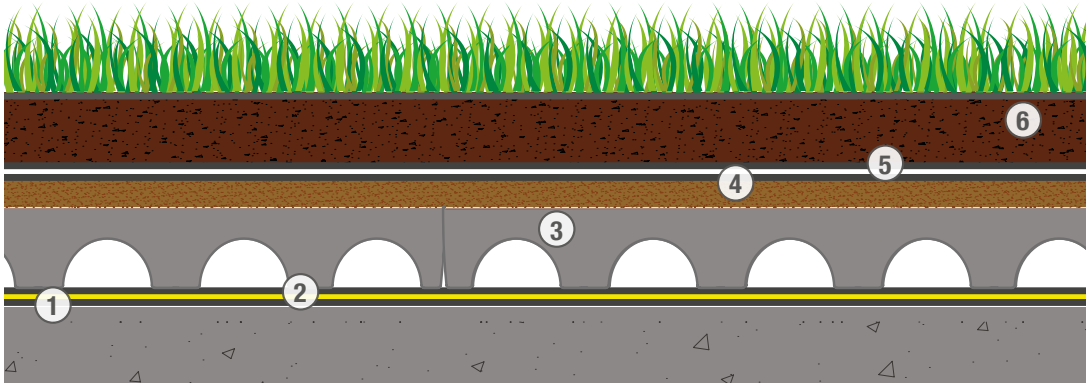
Cost-effective set

Lower costs of maintenance and realization

Different biodiversity levels depending on the species

Weight		70 - 250 Kg/m^2	
Vegetation type **Sub-layer thickness**	Sedum 8 cm	Perenial grass 15 cm	Turfs 20 cm
Water retention		50 - 60%	
Water accumulation volume		min 20 l/m^2	
Ecological value		Good	
Installation savings		Excellent	
Maintenance savings		Excellent	

EXTENSIVE ROOF GARDEN STRATIGRAPHY



THE VEGETATION
can be created with
seeding, hydro-seeding
or can be sod laid.

① WATERPROOFING LAYER
② GEO-TEXTILE 200 g/m²
③ DRAINROOF H6 O H 2,5
④ VOLCANIC LAPILLUS
⑤ GEO-TEXTILE 150g/m²
⑥ SUB-LAYER

① WATERPROOFING LAYER

The system should be provided with a waterproofing element which resists to the roots and to the mircroorganisms. These functions can be avoided using various layers (waterproofing sheath-antiroot membrane) or a single system.

② GEO-TEXTILE 200g/m²

In order to protect the waterproofing elements more, the installation of a Geo-textile TNT 200 g/m² is recommended. Roof gardens require also a concrete slab floor as a protection.

③ DRAINROOF H 6 O H 2,5

DRAINROOF panels can be used both for extensive and intensive roof gardens. The choice of the panel depends on the storage volume of the water, required by the need of limiting the thickness of the finished set.

④ VOLCANIC LAPILLUS

Filling of DRAINROOF H6 up to a thickness of 2 cm over the edge of the element with pumice stone or volcanic lapillus, grain size 10-12 mm, high water absorption capacity (not required for DRAINROOF H2,5).

⑤ GEO-TEXTILE 150 g/m²

Place the TNT of 150 g/m² geo-textile between the filling material and the sub-layer. The geo-textile works as a filter for the water of disolved particles.

⑥ SUB-LAYER

The thickness varies from the types of plants that are going to be planted on the surface. Thickness 8 and 20 cm.

DRAINROOF INTENSIVE ROOF GARDEN

The intensive roof garden can be used as a real garden. Therefore, it requires a stratigraphy capable of housing high-stem trees because the set thickness is large and the slab can easily sustain a heavy load. It is certainly a more expensive solution in terms of maintenance and realization, but at the same time it guarantees many performance benefits. An intensive roof garden is able to absorb a high quantity of rainwater in order to better manage the water in the housing and urban areas. It can be used as an isolating layer, lowering the peaks of heat during summer and as a thermal insulation coating in winter.

The intensive roof garden can be realized with DRAINROOF 6 o DRAINROOF 2,5 cm depending on the project.

CHARACTERISTICS

Completely usable space

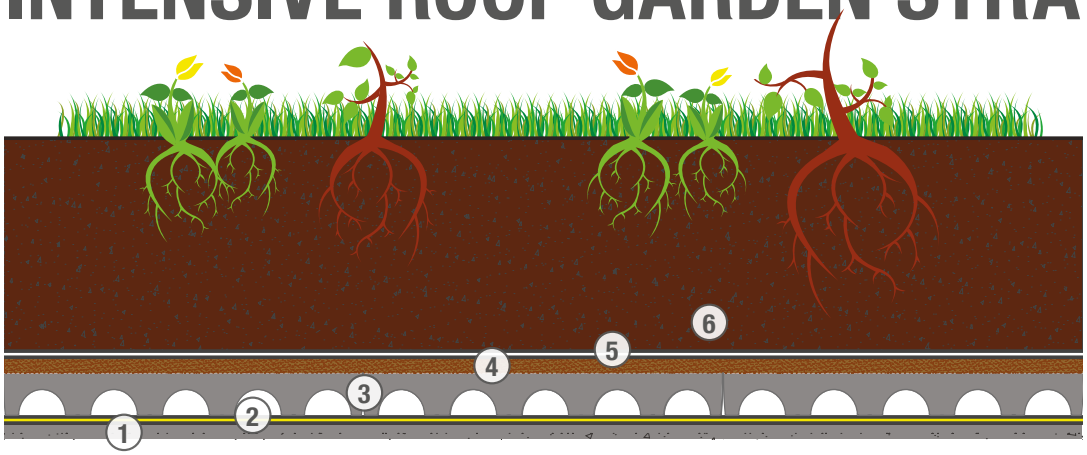
High energy efficient set

High level of biodiversity

An automatic irrigation system is required

Weight	> 300 - 2000 kg/m²		
Vegetation type **Sub-layer thickness**	Turfs 30 cm	Shrubs 50 cm	Trees 80 cm
Water retention	70 - 95%		
Water accumulation volume	min 45 l/m²		
Ecological value	Excellent		
Installation savings	Excellent		
Maintenance savings	Good		

INTENSIVE ROOF GARDEN STRATIGRAPHY



THE VEGETATION
can be realized with seeding, hydro-seeding or can be sod laid.

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Place the TNT of 150 g/m² geo-textile between the filling material and the sub-layer. The geo-textile works as a filter for the water of dissolved particles.

⑥ SUB-LAYER

The thickness varies from the types of plants that are going to be planted on the surface. Thickness 8 and 20 cm.

SEDUM EXTENSIVE ROOF GARDEN

DRAINROOF is the more efficient system for rainwater disposal. Its dome structure allows the creation of channels which can dispose the water even during heavy rainfalls. The water stagnation is eliminated thanks to the ventilated cavity. DRAINROOF is also designed to make the place safe and easy and can be easily moulded according to the needs.

SLOPING ROOF EXTENSIVE GARDEN

DRAINROOF allows the creation of a real protection layer on the roof. The underlayer absorbs almost the 50% of rainwater, favouring the water management and giving back to the surface the initial portion of lawn. In this way, the biodiversity is safeguarded and the energy efficiency standard is reached.

INTENSIVE ROOF GARDEN

DRAINROOF is characterized by high resistance and high load capability and allows the creation of any stratigraphy, housing high-stem trees too. Thanks to its resistance it is possible to use mechanical means without damaging the while waterproof sheath. Moreover, thanks to the ventilated separation that DRAINROOF creates, the water stagnation and the roots descendance until the covering layer is avoided.

SLOPING ROOF INTENSIVE GARDEN

DRAINROOF was specifically designed for coverings, and it is very easy to place. The coupling system links the panels with each other, avoiding liftings and movements; moreover the dome structure made of plastic avoids any flotation phenomenon. DRAINROOF cannot get soaked in water and resists to chemical agents.

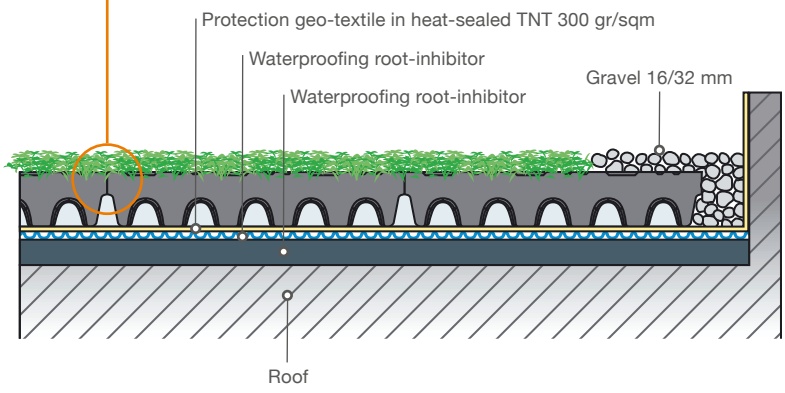
DRAINROOF COMPLETA

TRAY FOR PRE-GROWN GREEN ROOF MODULES

COMPLETA is the last generation of pre-grown sedum extensive green roofs. It can be easily installed both on flat or sloping roofs and is also extremely light (60 kg/sqm. in conditions of water saturation). The product does not require a particular maintenance and can be easily removed for any roof inspection after the installation.

SYSTEM'S COMPOSITION

DRAINROOF COMPLETA
- Storage and drainage element cloged with grains of pumice fl 4/8 mm.
- Separation Geo-textile (300 gr/sqm).
- Cultivation sub-layer with Sedum spp. and Mesembrianthemum cooperi
- Broken or round gravel fl 16/32 all over the surface



Total weight of the water saturated system 50-60 kg/sqm

DRAINING MODULE TECHNICAL DATA

Material	PP
Size	cm 54 x 54 x 9 h
Compressive strength	2000 kg/m^2
Draining surface	1144 cm^2/m^2
Water reserve	20 lt/m^2
Weight	4.84 Kg/m^2
Plastic support color	Black

CLOD LAYING

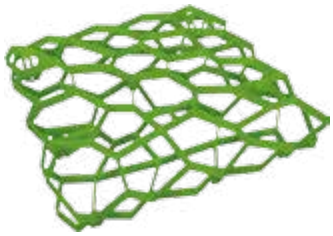
The modules are laid and connected between each other through the double overlapping coupling system. Once the instsallation on–site is completed, water abundantly all the surface until the soil saturation is reached.

PERIODICAL CARE

The system does not require grass mowing or pesticides treatments, but on the other hand, emergency irrigations in case of long periods of drought during summer are recommended. This will help to keep a flourishing appearance to the roof. Besides a 6-monthly/annual fertilisation, no other intervention is needed.

WALL-Y

MODULAR ELEMENT FOR GREEN WALLS



WALL-Y THE SOLUTION

WALL-Y is the perfect solution to create vertical green walls and to delimit spaces and green areas such as gardens. WALL-Y resists to weathering, improves energy performances of the building and makes it more beautiful and comfortable. The original texture of the grid, available in many colours, adorns walls even before they are covered with vegetation. WALL-Y is ideal for existing and new buildings and it has also a great aesthetic and environmental value in an urban context.

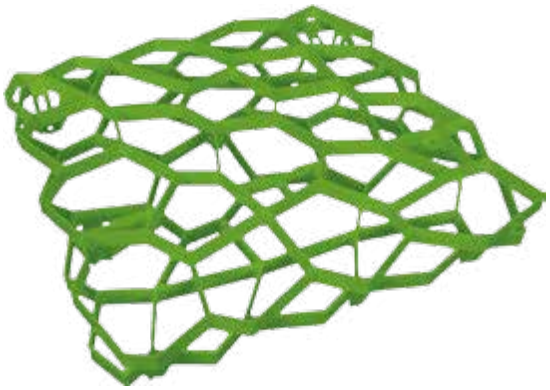
GREEN WALLS

DELIMITATION OF GREEN AREAS AND GARDENS

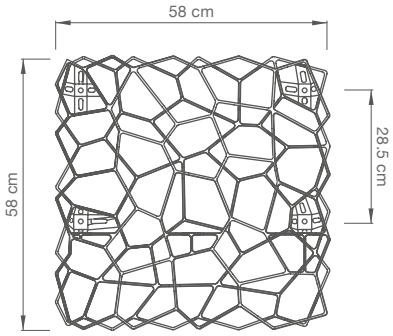
MODULAR GREEN WALLS

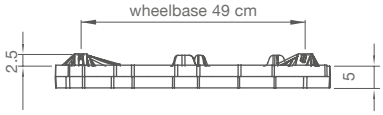
DELIMITATION OF TERRACES

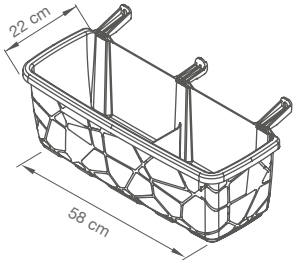
OPEN SPACES

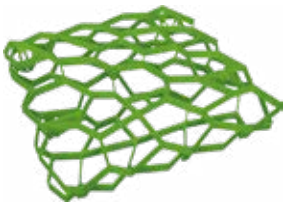


WALL-Y TECHNICAL DATA









	GRID	POT
Real size (cm)	58 x 58 x 7.5	58 x 22 x 20
Material	HD PE	HD PE
Weight (kg)	1.45	1.32
Packaging size (cm)	120 x 120 x 240	100 x 120 x 200
No. pcs. per pallet	180	100
m^2 per pallet	60	-
Color*	Green - White	Green - White

* Custom colors are possible

MATERIAL CHARACTERISTICS

Bending elasticity module	780 N/mm²
Tensile strength breaking load	22 N/mm²
Thermal expansion coefficient	0.2 mm/m/°C

WALL-Y CHARACTERISTICS

Type of interlocking system between grids	Double overlap
Horizontal distance fixing holes (cm)	49
Vertical distance fixing holes (cm)	28.5
Diameter fixing holes (mm)	10
Grid thickness (cm)	5
Fastening feet height (cm)	2.5

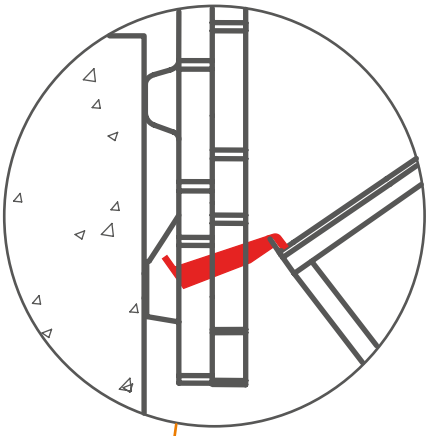
THE POT

Suitable for a fast greening of the wall or to cover large surfaces, this accessory hosts the plants and makes possible multiple aesthetic effects.

It is possible to install one pot per grid.

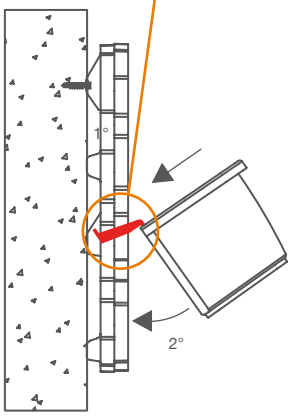
In order to get more info about the maximal applicable load vertically on the pot, consult the available technical material on the website or contact our experts (see page 3).

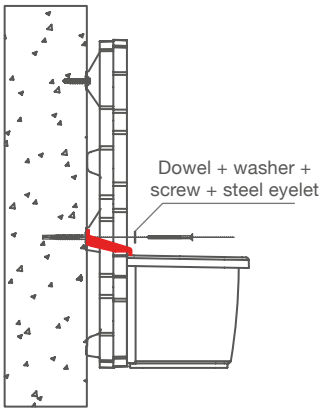
INSTALLATION INSTRUCTIONS

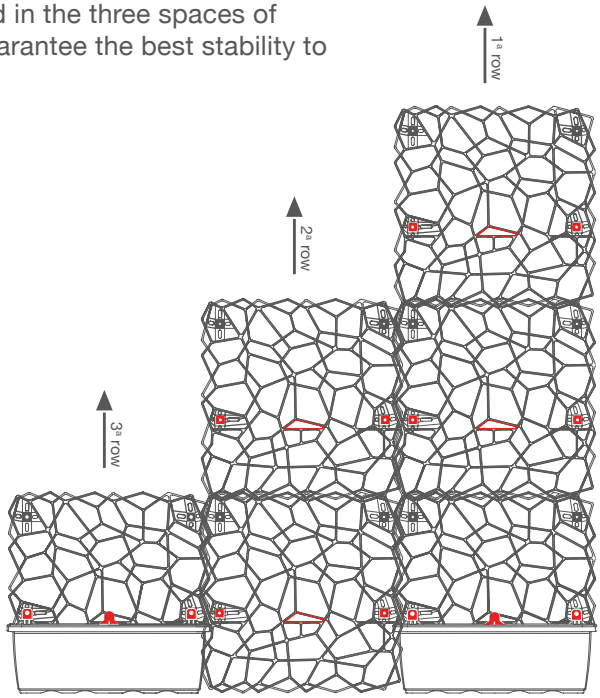


THE COUPLING SYSTEM

It is necessary to pay attention to the correct insertion of the three supports of the pot (two lateral supports with the slot for the insertion of the wall connection and the central support). These must be inserted in the three spaces of WALL-Y, in order to guarantee the best stability to the grid.







WALL SUPPORT INSTALLATION

Wood

Concrete

Bricks

Coated cladding

You can install WALL-Y on existing walls or build self-supporting walls and partitions anchoring the elements to a substructure.

SUB-STRUCTURE INSTALLATION

Timber

Aluminium

Profile

Frame

Geoplast provides technical support for the choice of the anchoring system, the specific type of support or for the creation of a structure suitable for every need.

THE GREEN SOUL OF ARCHITECTURE

The use of vegetation to cover buildings and walls is now a standard in modern architecture. Like a thermal and acoustic insulation, vertical green walls protect the building from solar radiation, significantly improving its inhabitants' quality of life. WALL-Y can be installed quickly and easily, it resists to weathering and ensures the ideal habitat for the growth of plants. Thanks to WALL-Y, properties improve their energy performances and increase their aesthetic value.

THERMAL AND ACOUSTIC INSULATION

MICROCLIMATE

PROPERY VALUE AND AESTHETIC

VERTICAL GREEN WALLS

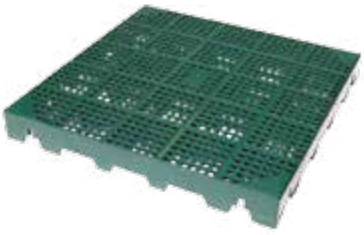
In Borgo Gasparina housing complex, with energy certification A, WALL-Y has been chosen to create vertical green walls in the two main facades facing the Garda lake. The elegant texture of WALL-Y grids guarantees a pleasant aesthetic effect even before the growth of the plants. In addition to“green” benefits, WALL-Y gave a personal character to the complex in a simple and fast way, ensuring at the same time thermal and acoustic protection to the walls.

SEPARATION OF GARDENS AND BALCONIES

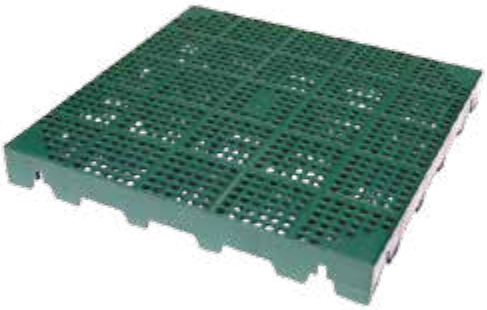
WALL-Y is a system adaptable to any specific requirement and does not need a wall to be installed. In case of fences between private places it can be coupled to a substructure to obtain selfsupporting dividers. The particular design of the trellis makes he shielding easier, creating a lightweight and pleasant structure.

PLASTONELLA

MODULAR SELF-INSTALL PLASTIC PAVER FOR OUTDOORS



PLASTONELLA THE SOLUTION



PLASTONELLA is a modular perforated tile (5.400 holes/m2) that makes the flooring safe and dry to walk and to use in private areas.

POOL EDGES

GARDEN

CONCERTS

EVENTS

SHOWERS

GENERAL TRACKS

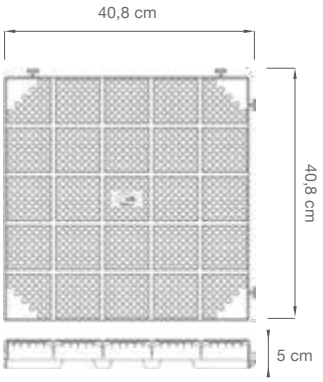
TERRACES

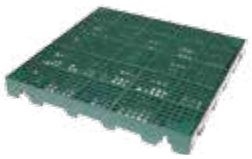
CAMPING-SITES

ADVANTAGES

- The perforated surface guarantees a perfect drainage of the water.
- Easy to install, without any hand tool.
- Protection of the waterproofings in walkable terraces.
- High versatility and adaptability to any surface.
- Quick installation thanks to the side-coupling and the bayonet coupling placed on the top.
- Self-cleaning from oils, solvents and chemical agents.
- Resistant to atmospheric agents and UV-rays.
- Combining the colours, a large range of drawings and geometrical shapes can be obtained.
- Easy to dismantle and to storage in damp locations.
- Safe surface there is no risk of slipping or falling.

PLASTONELLA TECHNICAL DATA



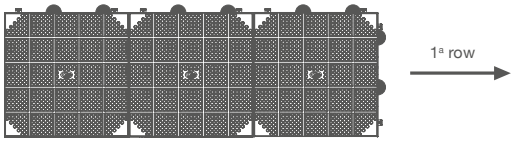


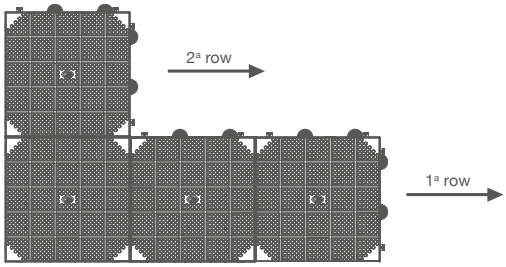
PLASTONELLA

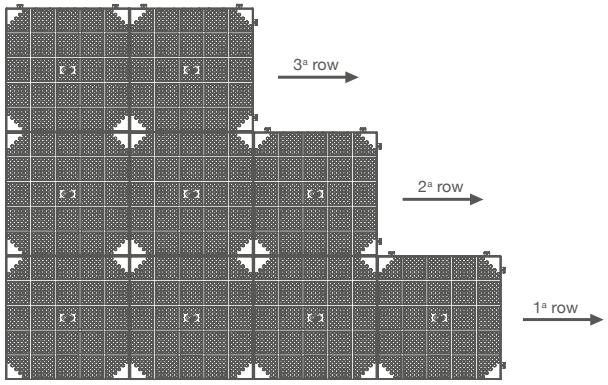
SIZE (cm)	40,8 x 40,8
HEIGHT h (cm)	5
Material	PP stable to UV rays
Load capability (t/m²)	3
Weight pc. (kg)	1,27
Packaging size (cm)	83 x 125 x 230
No. pcs.	270
m² per pallet	45
Color	Grey - Red - Green

ON-SITE INSTALLATION

PLASTONELLA can be installed placing the tiles from left to right, from bottom to top, facing the couplings upwards and to the right.





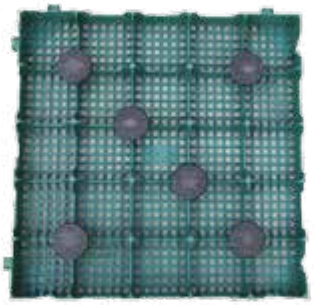


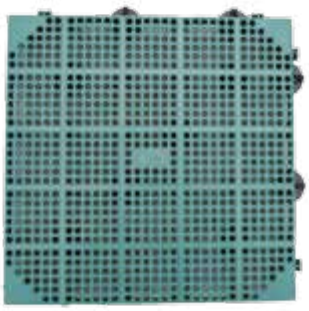
ACCESSORIES - SUPPORTING FEET

The supporting feet should be used if the tile has to be placed in walkable terraces, in order to protect the waterproofing. PLASTONELLA needs 10 feet, 6 in the central part and 4 on the sides. The feet are characterized by a larger groove in order to connect both the tiles.

A) Two mutually perpendicular grooves. One larger than the other.

B) Round surface to place the sheath.





TUBS AND WATER BUTTS

HEAVY DUTY POTS AND TUBS FOR NURSERIES AND RAINWATER HARVESTING TANKS

TUBS

Tubs made of UV stable LD PE that maintain the 50% of the initial thoughness for 350 KYLS.
They are available with or without handles in different sizes and with or without drainage holes, in order to better adapt to all nurseries demands.

TUBS WITH HANDLES

TUBS WITHOUT HANDLES

TUBS TECHNICAL DATA

TUBS WITH HANDLES*

ITEM	Diameter	Height (cm)	Pc. Pallet / Pile	Pallet Size	Color	Capacity (Liters)
MAS Ø 40	40	32	450 Pc. / Pallet	124 x 124 H 217	Black	30 lt.
MAS Ø 45	45	36	330 Pc. / Pallet	90 x 130 H 254	Black	40 lt.
MAS Ø 50 LOW	50	34	250 Pc. / Pallet	121 x 110 H 250	Black	43 lt.
MAS Ø 50 HIGH	50	39	250 Pc. / Pallet	110 x 125 H 250	Black	50 lt.
MAS Ø 55	55	43	160 Pc. / Pallet	112 x 115 H 234	Black	70 lt.
MAS Ø 60	60	46	160 Pc. / Pallet	118 x 118 H 240	Black	90 lt.
MAS Ø 65	65	46	140 Pc. / Pallet	127 x 127 H 228	Black	110 lt.
MAS Ø 70	70	50	105 Pc. / Pallet	144 x 125 H 246	Black	130 lt.
MAS Ø 75	75	51	60 Pc. / Pile	Ø 75 x H 253	Black	155 lt.
MAS Ø 80	80	51	60 Pc. / Pile	Ø 80,5 x H 258	Black	160 lt.

TUBS WITHOUT HANDLES*

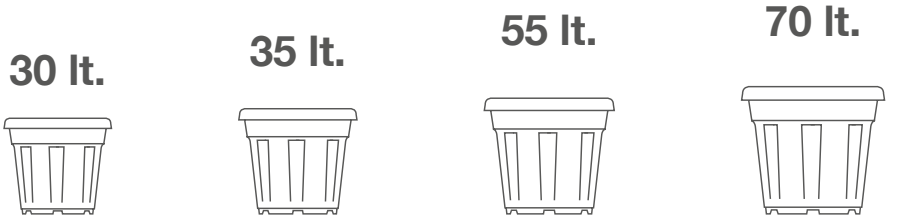
ITEM	Diameter	Height (cm)	Pc. Pile	Pallet Size	Color	Capacity (Liters)
MAS 150 lt.	70	60	40 Pz.	Ø 69 x H 238	Black / Bordeaux	150 lt.
MAS 230 lt.	85	55	40 Pz.	Ø 89 x H 237	Black / Bordeaux	230 lt.
MAS 240 lt.	80	65	20 Pz.	Ø 77 x H 265	Black / Bordeaux	240 lt.
MAS 285 lt.	96	55	40 Pz.	Ø 95,5 x H 250	Black / Bordeaux	285 lt.
MAS 350 lt.	96	73	40 Pz.	Ø 94,5 x H 275	Black / Bordeaux	350 lt.
MAS 500 lt. HIGH	104	82	20 Pz.	Ø 103 x H 245	Black / Bordeaux	500 lt.
MAS 500 lt. LOW	118	68	40 Pz.	Ø 115 x H 220	Black / Bordeaux	500 lt.
MAS 600 lt.	120	68	25 Pz.	Ø 121,5 xH 253	Black / Bordeaux	600 lt.
MAS 750 lt.	122	82	16 Pz.	Ø 120 x H 256	Black / Bordeaux	750 lt.
MAS 1000 lt.	140	90	18 Pz.	Ø 135 x H 245	Black / Bordeaux	1000 lt.

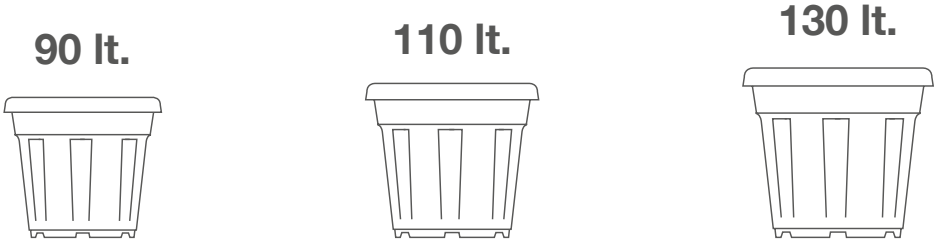
*Material and colors: the tubs with or without handles are made of low density polyethylene (LD PE) and are available in black and in bordeaux on request. The draining holes: all black tubs are available with or without holes, except MAS Ø40 e Ø45, which are produced with holes only. All bordeaux tubs are made without draining holes.

DEMETRA

Demetra is a range of vases by Geoplast made in high density polyethylene, oriented to the private and agricultural field. They are light, functional and easy to handle; they resist to UV rays and to thermal expansions. The particular geometry of the base ensures an excellent drainage and avoids the roots spiral growth. Demetra vases are available in the black and terracotta versions. They are aesthetically pleasant and do not suffer weatherings or microorganisms attacks.

DEMETRA VASE





DEMETRA ADVANTAGES

RESISTANT AND EASY TO HANDLE EDGE

EXCELLENT DRAINAGE THANKS TO THE BASE'S GEOMETRY

AVOID THE ROOTS SPIRAL GROWTH

DEMETRA TECHNICAL DATA*

ITEM	External diameter	Internal diameter	Height (cm)	Draining surface (cm^2)	Pc. Pallet	Pallet Size	Capacity (Liters)
DEM 30 lt.	40,5	37	33,5	30,48	540	125 x 125 H 230	30 lt.
DEM 35 lt.	44	40	35	40,64	330	80 x 120 H 230	35 lt.
DEM 55 lt.	51	46	40	45,72	230	100 x 130 H 230	55 lt.
DEM 70 lt.	56	51	43	45,72	180	110 x 110 H 225	70 lt.
DEM 90 lt.	60	55	47	50,80	180	120 x 120 H 225	90 lt.
DEM 110 lt.	66	61	48	60.96	160	130 x 130 H 225	110 lt.
DEM 130 lt.	68	64	50	60,96	135	135 x 120 H 240	130 lt.

*HD PE: high density polyethylene, available in teracotta and black.

WATER BUTTS

Water butts are a novelty inside Geoplast range: they are an economical and eco-friendly solution for rainwater recovery. They are made of high density polyethylene and are available in round, rectangular and square version with different capacities. Geoplast water butts are available green and charcoal grey and can be sold with or without raised base.

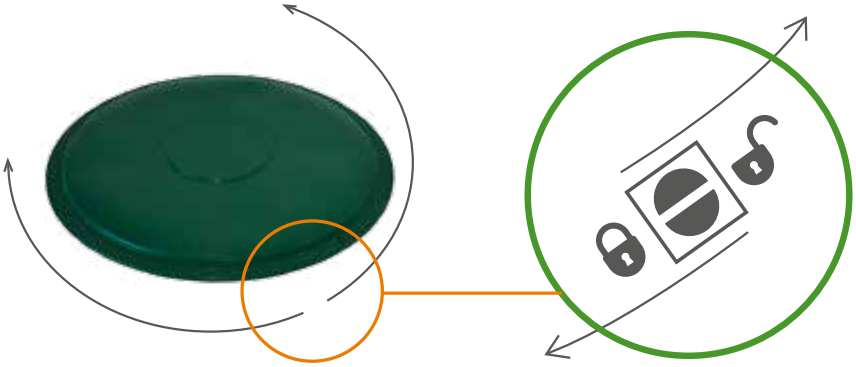
ROUND

RECTANGULAR AND SQUARE

ROUND WATER BUTTS

Made of recycled plastics, strong and functional.
Available in the variations 210, 310 e 500 liters. Provided with a cap with a safety closure.

OPENING AND CLOSURE OF THE CAP



Rotate the cap towards right in order to unlock it and open it.

Rotate the cap towards left to lock it and close it.

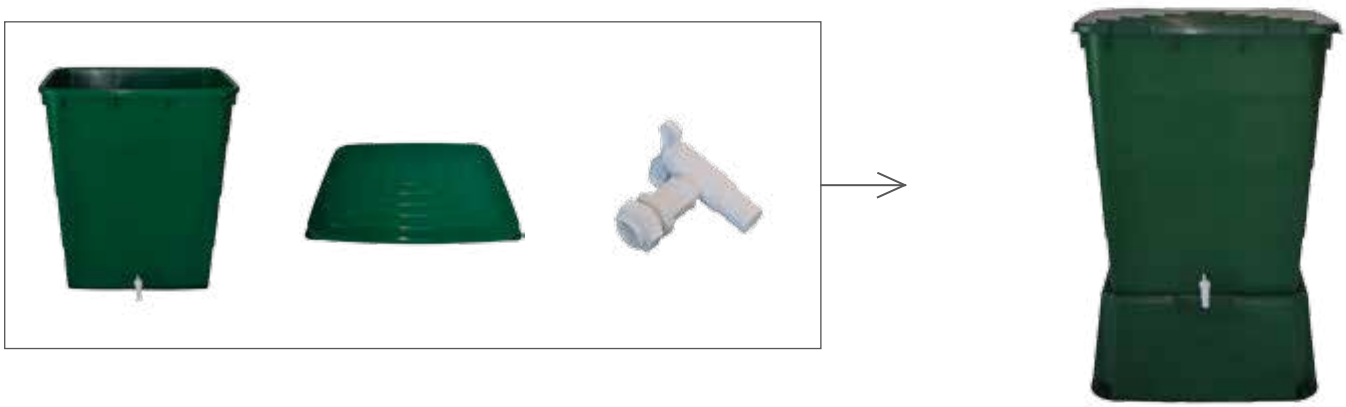
ROUND WATER BUTTS TECHNICAL DATA*

Items	Color	Upper diameter	Height	Pallet Size Pcs. per Pallet	Capacity (liters)
Water butts 210	green charcoal grey	75 cm	73 cm	75x75xh252 cm pz. 52	210
Water butts 310	green charcoal grey	80 cm	90 cm	80x80xh250 cm pz. 40	310
Round BASE 210 and 310	green charcoal grey	58 cm	40 cm	75x120xh223 cm pz. 84	-
Water butts 500	green charcoal grey	104 cm	82 cm	100x100xh245 cm pz. 13	500

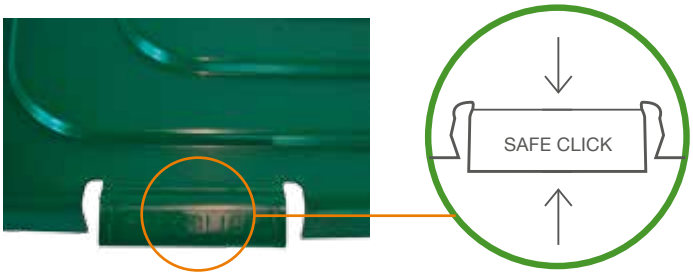
*HD PE: high density polyethylene

RECTANGULAR AND SQUARE WATER BUTTS

Element made of recycled plastic, strong and functional.
Available in the variants 200 or 300 liters, with cap provided with safety closure.



OPENING AND CLOSURE OF THE CAP



Pull downward to lock the safety closure of the cap.

Pull upwards to unlock the safety closure of the cap.

WATER BUTTS TECNICAL DATA*

Items	Color	Sizes	Height	Pallet Size Pcs. per Pallet	Capacity (liters)
Water butt 200	green charcoal grey	60 x 60 cm	84 cm	80x120xh249 cm pz. 42	200
Water butt 300	green charcoal grey	60 x 80 cm	88 cm	80x120xh252 cm pz. 38	300
UNIKA universal base for all water butts	green charcoal grey	56 x 73 cm	33 cm	80x120xh250 cm pz. 146	-

*HD PE: high density polyethylene

SAFE CLICK

Geoplast water butts are provided with a child-proof safety locking system.

100% RECYCLABLE

High density polyethylene is plastic material entirely recyclable.

Geoplast
Building beyond together

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rev.003
06/2017