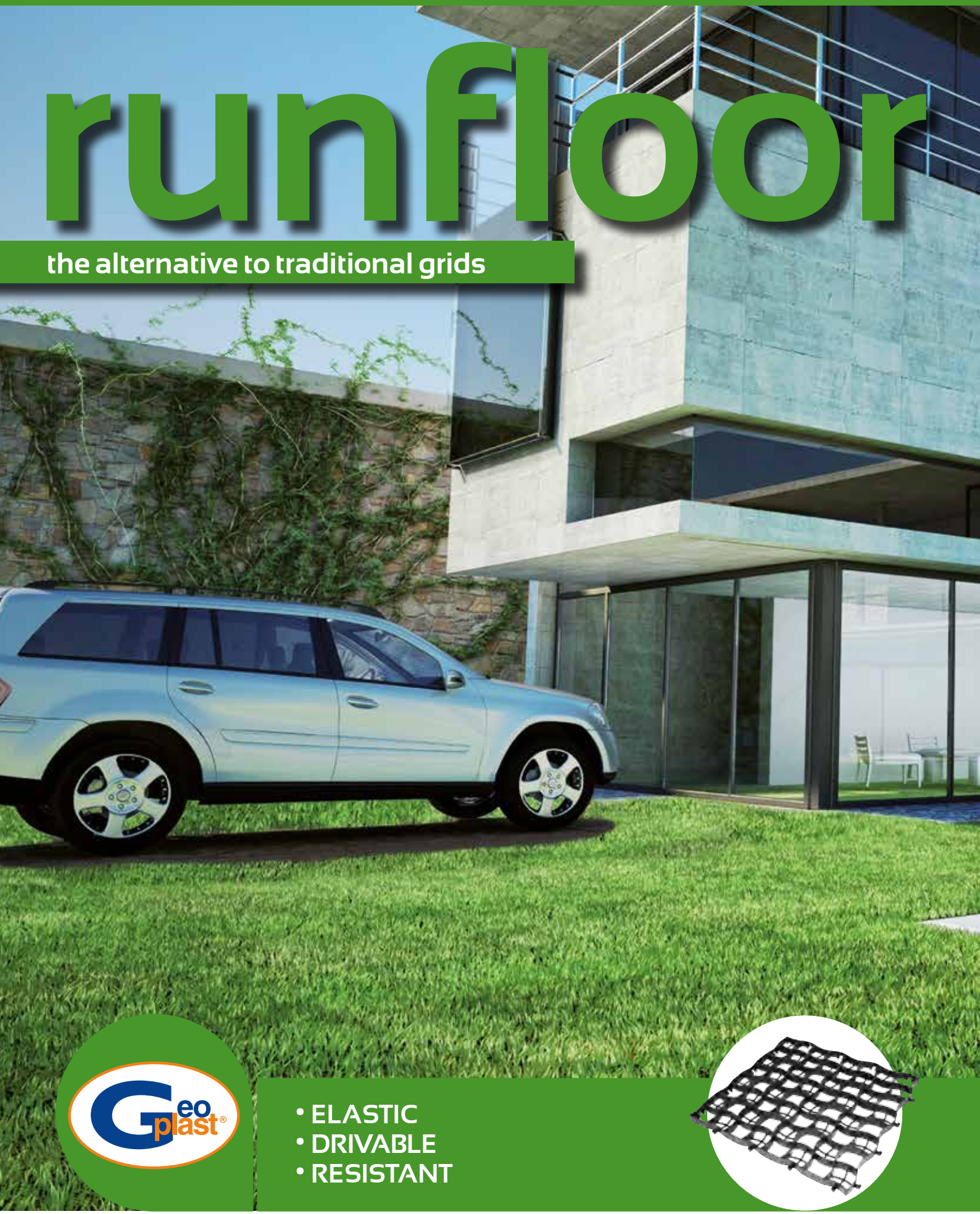
SYSTEM FOR THE CREATION OF HIGH RESISTANCE GREEN DRIVABLE AREAS

runfloor

the alternative to traditional grids



Geoplast®

- ELASTIC
- DRIVABLE
- RESISTANT

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RUNFLOOR VISION

Nothing is healtier and more natural than walking barefoot on the grass. The relationship between Man and Nature has ancient origins and is closely tied to our existence.

When our needs for urban development lead us to cover with asphalt or concrete increasingly larger parts of land, we are unconsciously acting against our own nature because we are deeply damaging the natural balance.

Finding ways to combine our development needs to the protection of the natural balance, which is also necessary for us: *this is our commitment.*

LDPE

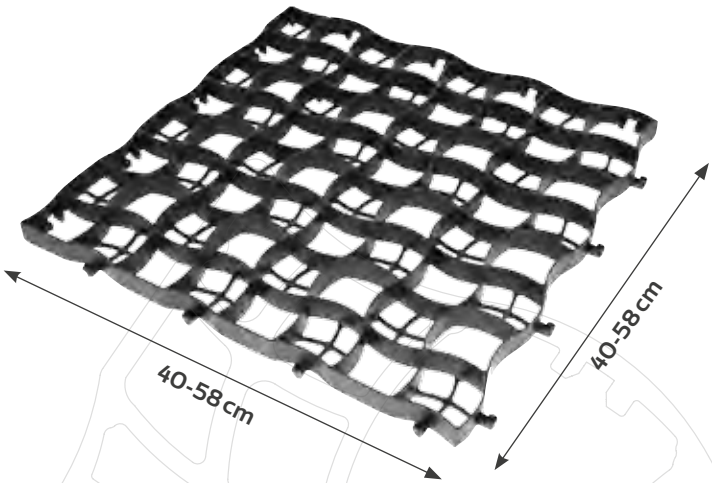
Low Density Polyethylene, used for the production of RUNFLOOR and RUNFLOOR 40, is obtained from the recycling of bags and soft wrappings. These are generally dark and for this reason LDPE is produced in gray-black. The polymer is very elastic and flexible, thus it is more resistant to temperature changes and cold-hot cycles.

Geoplast S.p.A. in Green Building Council Italia, The Network of Green Building.

APPLICATION OF RUNFLOOR
stratigraphy with grass and volcanic lapilli

RUNFLOOR THE SOLUTION

RUNFLOOR is the solution for the creation of grass and gravel permeable and high resistance 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 (LDPE) have better performance even at low temperatures.



RUNFLOOR ADVANTAGES

ELASTIC

HIGH RESISTANCE, EVEN AT LOW TEMPERATURES

DRIVABLE

LOAD-BEARING CAPACITY UP TO 600 t/m²

DURABLE

LONG-LASTING RESULTS OVER TIME

SAVING

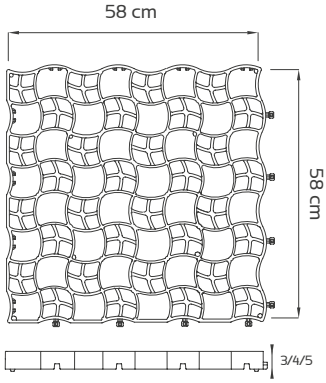
FAST INSTALLATION THANKS TO THE INNOVATIVE HOOK

RUNFLOOR	TRADITIONAL GRID
PUBLIC PARKING	PRIVATE PARKING
HIGH DENSITY PARKING	LOW DENSITY PARKING
TRANSIT AND STAND OF HEAVY VEHICLES	JUST VEHICLES
SUITABLE FOR EVERY TYPE OF CLIMATE	JUST TEMPERATE CLIMATE AREAS
GREATER THICKNESS	LOWER THICKNESS

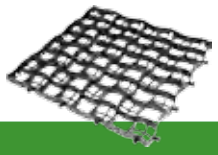
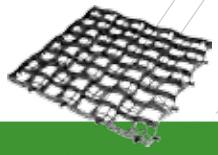
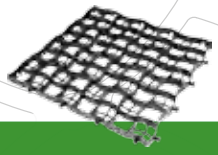
In compliance with the Italian Regulations for the Development of Urban Green Spaces (Law of January 14, 2013, n. 10), Geoplast reacts to the growing need for a proper control of meteoric water with the creation of completely permeable surfaces that allow a restoration of the natural water cycle, bringing back water to the aquifers.

In line with the Company's vision based on sustainability, RUNFLOOR is the made of polyethylene, a completely recycled and recyclable material. It's chemically inert and resistant to wear and microorganisms.

RUNFLOOR
F03 F04 F05 S05

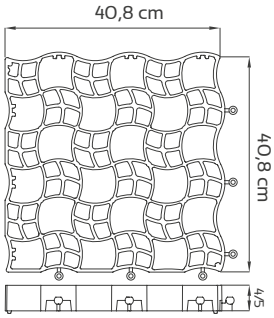


RUNFLOOR 58* (LDPE)

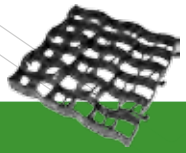
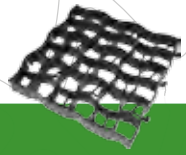
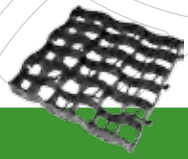




	RUNFLOOR 58-F03	RUNFLOOR 58-F04	RUNFLOOR 58-F05
SIZE (cm)	58 x 58	58 x 58	58 x 58
HEIGHT h (cm)	3	4	5
Thickness (mm)	4	4	4
Load bearing capacity (t/m²)	400	400	500
Weight (kg)	1,25	1,80	2,00
Package dim. (cm)	120 x 120 x 235	120 x 120 x 242	120 x 120 x 235
No. per pallet	300	228	180
m² per pallet	100	76	60
Colour	Black	Black	Black
Permeability	89%	89%	89%

*Item available also in HD PE and green



RUNFLOOR 40 (LDPE)

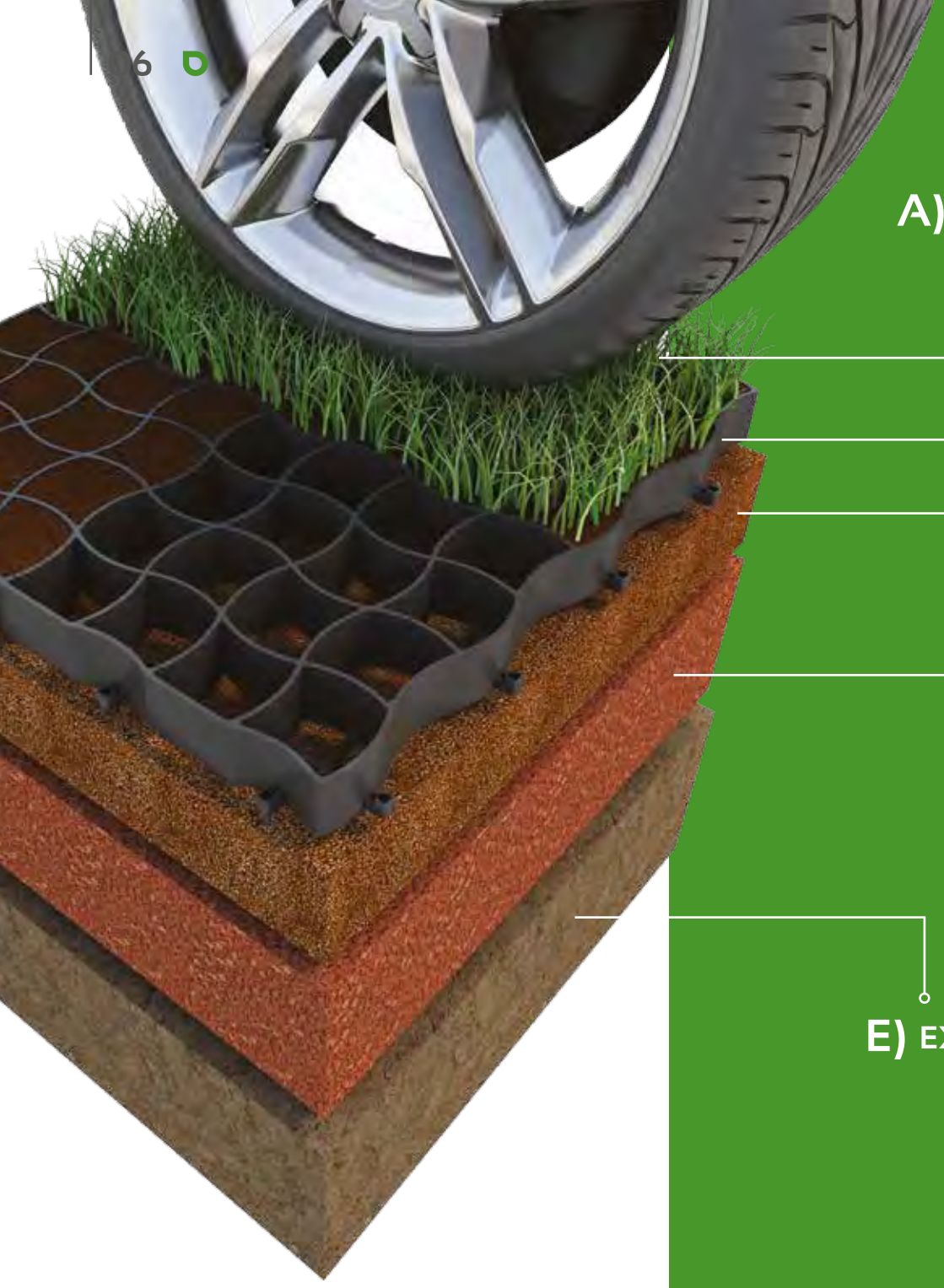
	RUNFLOOR 40-F04	RUNFLOOR 40-F05	RUNFLOOR 40-S05
SIZE (cm)	40,8 x 40,8	40,8 x 40,8	40,8 x 40,8
HEIGHT h (cm)	4	5	5
Thickness (mm)	4	4	5
Load bearing capacity (t/m²)	400	500	600
Weight (kg)	0,75	0,94	1,20
Package dim. (cm)	85 x 125 x 220	85 x 125 x 235	85 x 125 x 235
No. per pallet	300	270	270
m² per pallet	50	45	45
Colour	Black	Black	Black
Permeability	84%	84%	83%

CAPS

PP MATERIAL

COLOUR
White ●
Yellow ●

With flagging caps it is possible to you can signalise car park boundaries, reserved areas, pedestrian paths, etc. It's equipped with a non-slip surface and a peg for ground anchorage.



A) LAWN

B) RUNFLOOR

C BEDDING LAYER (5-10 cm)

D) PERMEABLE SUB-BASE (10-15 cm)

E) EXISTING SOIL

A) LAWN

The cells are filled with volcanic sands mixed with organic fertilizers. Then proceed with the seeding. For best results, before passing on the lawn with vehicles it is recommended to wait 2-3 mowings and the complete growth of the roots

B) RUNFLOOR GRID

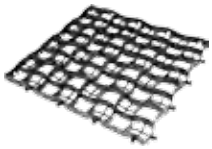
The high quality of RUNFLOOR grid guarantees strength and comfort, ensuring the permeability of the soil and the protection of grass against crushes caused by the passage of vehicles.

C) BEDDING LAYER

The installation layer of the grid. It is necessary to compact and perfectly level it in order to prevent settlements and subsequent emptying of the cells. We recommend the use of volcanic sands mixed with organic fertilizers to give the right mix of nutrients and water to the roots.

RUNFLOOR THE CHOICE

F03 - FLEXIBLE

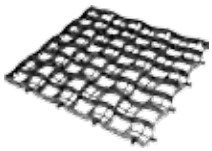


With cells of 3 cm height and reduced thickness, RUNFLOOR F03 is the appropriate choice that maintains technical resistance unchanged.

F04 - MEDIUM

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 traffic 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.

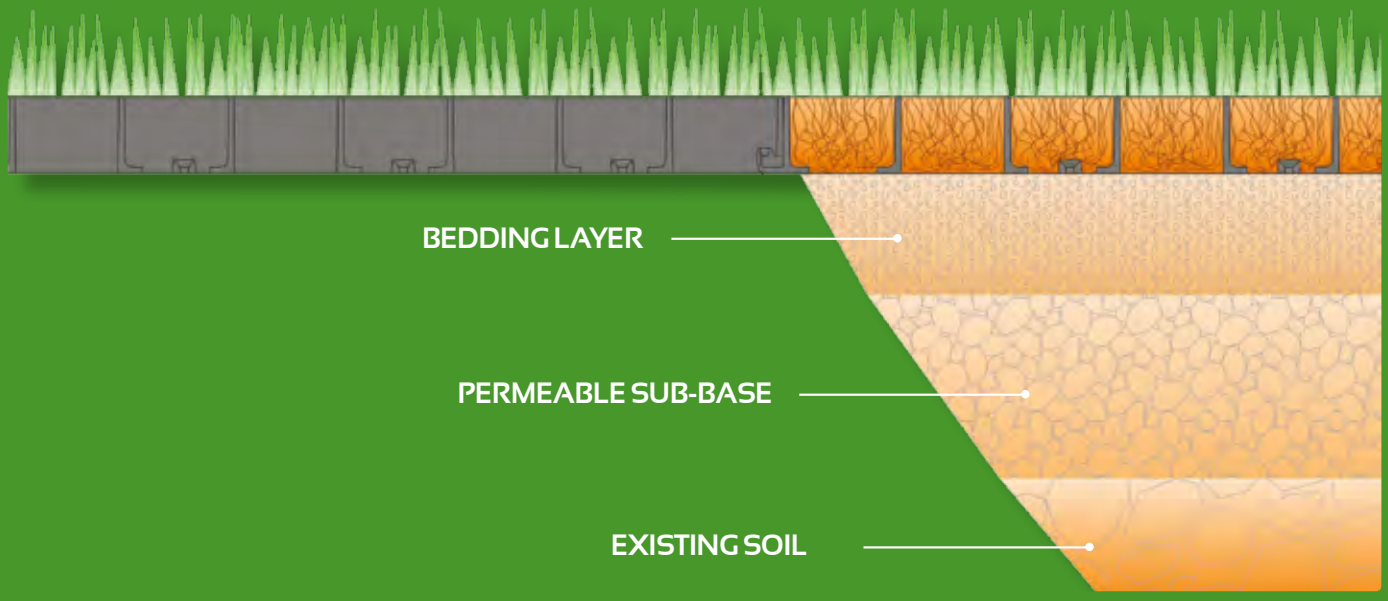
D) PERMEABLE SUB-BASE

The part of the stratigraphy that determines drivability: it may vary from 8/10 cm for pedestrian loads to 30/40 for trucks and commercial vehicles. This layer, made of mineral substrates (for example volcanic lapilli with the characteristic porous surface), avoids subsidence and compaction of the soil, facilitating drainage and capillary rise.

D) EXISTING SOIL

Below the excavation for the creation of a right drivable stratigraphy, there is natural soil. If particularly unstable and clay, we recommend the use of high quality geotextile for soil consolidation and good drainage.

INSTALLATION OF RUNFLOOR



1 PERMEABLE SUB-BASE 10 - 15 cm

2 BEDDING LAYER 5 - 10 cm

3 INSTALLATION OF RUNFLOOR

4 FILLING WITH SAND

5 SEEDING

6 FLAGGING CAPS

1 Permeable sub-base of 10-15 cm with volcanic lapilli (granulometry 5-20 mm) with high water retention capacity and crushing resistence 35 N/mm² (UNI 754917)

2 Well compacted and leveled 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 of RUNFLOOR

4 Filling of the cells with a mixture of volcanic sands enriched with vegetal soil and organic fertilizers (granulometry 0-5 mm). Alternatively filling with a composed of silica sands and vegetal soil enriched with peat and humus

5 Finishing and seeding

6 Flagging caps to signalise car park boundaries, reserved areas, pedestrian paths, etc. For a good indication of parking lots we recommend 4 caps per linear meter

CREATION OF GREEN PARKING

ADVANTAGES OF A DRIVABLE LAWN

Total permeability

Increase of green spaces

Environmental mitigation

WHY THE GRID?

Protection of the lawn

Elimination of furrows and dents

Homogeneous maintenance of the lawn

Instructions for a **proper maintenance**

- 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 disc close 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

THE INNOVATIVE LOCKING SYSTEM

ESTIMATED TIME OF INSTALLATION - **100 m² / h / WORKER**

The innovative twist-lock system (male/female) simplifies the installation and guaranteed 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.

PUBLIC AND PRIVATE CAR PARKS

RUNFLOOR
Public parking:
3.500 m²
RUNFLOOR 58 F04 LDPE

Drivable areas
Public and private car parks

Permeability
Durability
Simple installation

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, permeable drivable surfaces suitable for heavy vehicles and any area where there is no need of steady maintenance.

ACCESS RAMP FOR BOATS

RUNFLOOR
Ramp for boats: 550 m²
RUNFLOOR 40 F05 LDPE

Transit areas for heavy vehicles
Ramps for boats

- Elasticity
- UV resistance
- High drivability

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 long-lasting results.

CAMPING AREA

RUNFLOOR
Camping area: 4.000 m²
RUNFLOOR 58 F04 LDPE

Parking areas for heavy vehicles
Camping areas

High drivability
Resistance to low temperatures
Aesthetic result

RUNFLOOR is ideal for green permeable surfaces for the passage and ith transit and 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 risk of the crystallization which is typical of traditional grids. Once the grass is grown, the surface looks like a natural lawn.

EQUESTRIAN SURFACES

RUNFLOOR
Carousel: 550 m²
RUNFLOOR 40 F05 LDPE

Consolidation of equestrian surfaces

Paddocks, Carousels, Riding Stables, Race Courts

Elastic and flexible surface
Protection of tendons and joints
Savings in maintenance

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. Creating a separation layer between the permeable sub-base and the surface, RUNFLOOR avoids the mixing of the filling sands, allowing savings in both material and maintenance.

HIGH RESISTANCE DRIVABLE AREAS

RUNFLOOR
2.500 ml
RUNFLOOR 58 F05 LDPE

RUNFLOOR
Helipad: 450 m
RUNFLOOR S05 40 LDPE

High resistance drivable areas

Consolidation of roadsides
Creation of helipads

High load-bearing capacity
Soil permeability
Fast installation

With RUNFLOOR it is possible to protect and consolidate high traffic surfaces, such as roads and public car parks , with minimum need of maintenance. In addition, RUNFLOOR range offers high load-bearing capacity, up to 600 t/m^2: this is why it can be used also for truck-driveways, parking for articulated-lorries and helipads.

rev.000 - 05/2015