



# geog gravel

in balance with nature



- STABLE AND RESISTANT
- ECO-FRIENDLY
- PERMEABLE





# GEOGRAVEL VISION

The houses we live in, the roads we travel everyday, the areas where we work, where we usually meet and have fun can't forget the most important resource of our planet: water. It falls from the sky, it leaks through the ground and then it regenerates through an unalterable cycle that was born with the Earth.

Geoplast works everyday to guarantee all the comfort you and the next generations need in an healthy and safe environment.

## PE HD

GEOGRAVEL is made of unadulterated high density polyethylene, which is an high resistant plastic polymer, stable, elastic and flexible. This material is chemically inert and therefore it keeps its char-

acteristics unchanged, guaranteeing, at the same time, both the duration and the performances of the system.

Geoplast S.p.A. in Green Building Council Italy,  
The network for eco-friendly building.

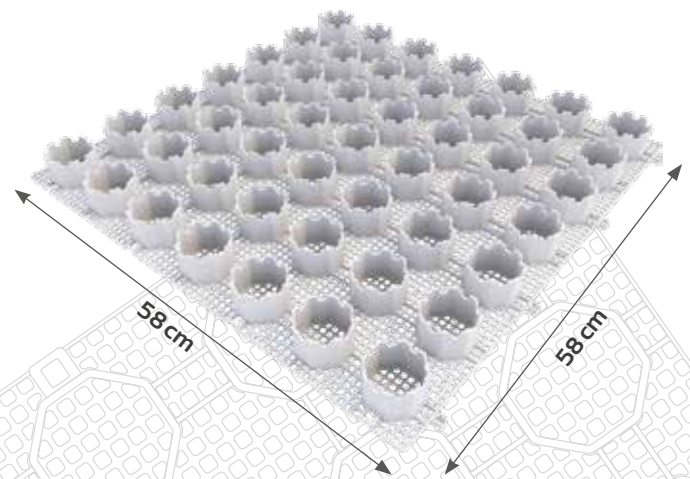




# GEOGRAVEL THE SOLUTION

**G**EOGRAVEL 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 ADVANTAGES



The solution against the cities overbuilding

## permeability



The micro-perforated grid guarantees the perfect drainage of the ground and avoids any obstruction



## savings

**GEOGRAVEL** installation eliminates any type of maintenance and does not require any additional cost



## resistance

**GEOGRAVEL** structure and material are very resistant even with very heavy loads (400 tonne/sqm.)

## convenience



**GEOGRAVEL** is light and easy to handle and thanks to its special clip-on connection, it can be installed easily and quickly



## safety

**GEOGRAVEL** allows the safe and comfortable transit of vehicles and people without affecting the quality of the material

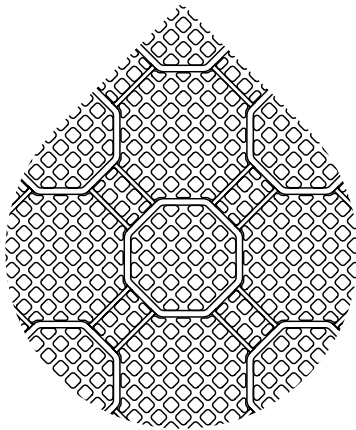
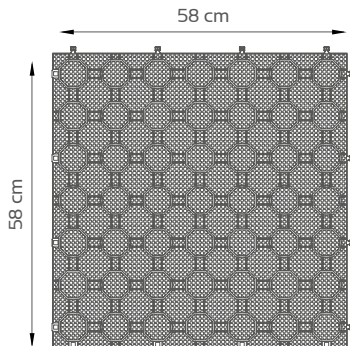


## duration

**GEOGRAVEL** resists to the attack of microorganisms, abrasive products and UV rays keeping its characteristics unchanged

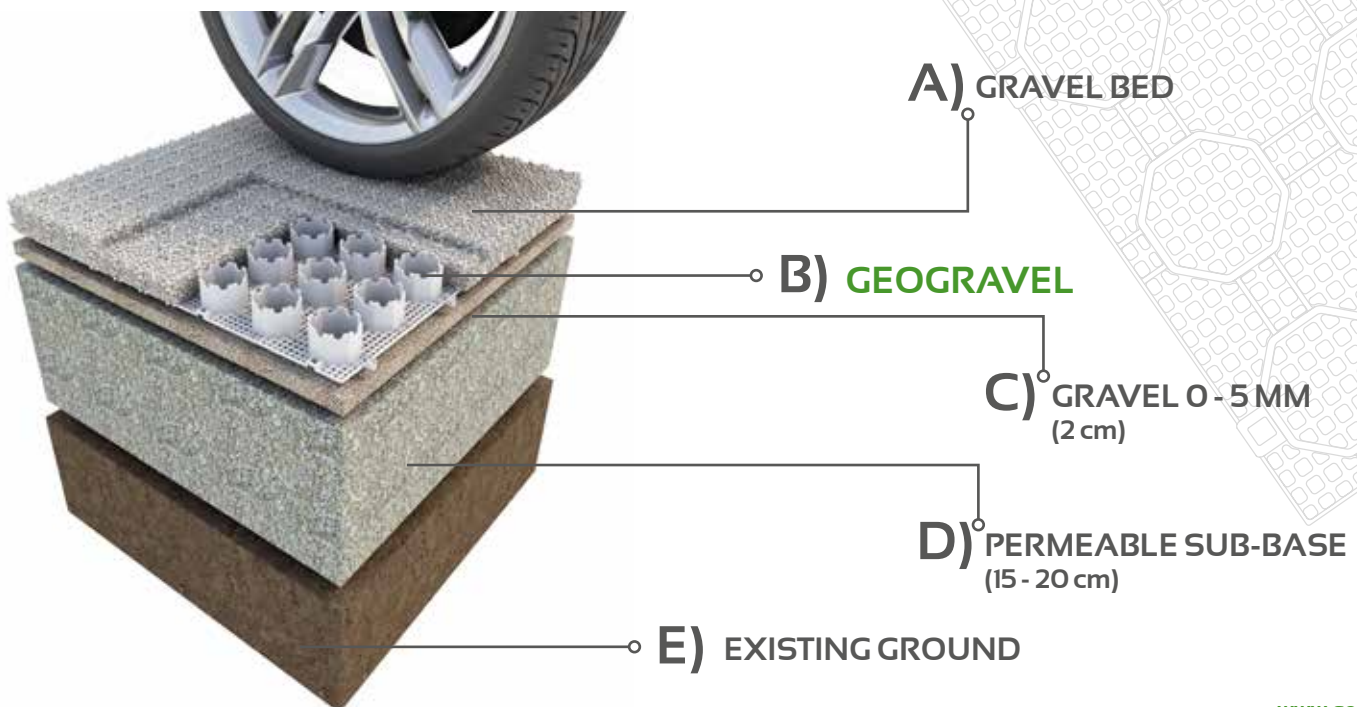
# TECHNICAL DATA

## GEOGRAVEL



GEOGRAVEL	
Real size (cm)	58 x 58 x H3.0
Grid thickness (mm)	2.2
material	PE HD
weight (kg)	0.9
packaging size (cm)	120 x 120 x H235
sqm. per pallet	100
no. pcs. per pallet	300
load capability (tonne/sqm.)	400
Colour	Semi-transparent white
Permeability	61%

## INSTALLATION MODE



# INSTALLATION GEOGRAVEL



1

CLEANING EXCAVATION AND CREATION OF A GRAVEL DRAINING BED 5-20 MM



2

INSTALLATION OF A FINE PEBBLE LEVELLING LAYER 0-5 MM



3

GEOGRAVEL INSTALLATION



4

FILL THE GRID WITH FINE PEBBLE FROM 0-5 MM UP TO 3 CM ON THE CELLS



5

GRAVEL MANUAL COMPACTION



6

FINAL RESULT

# THE APPLICATIONS

# PRESCRIPTIONS FOR

# THE INSTALLATION

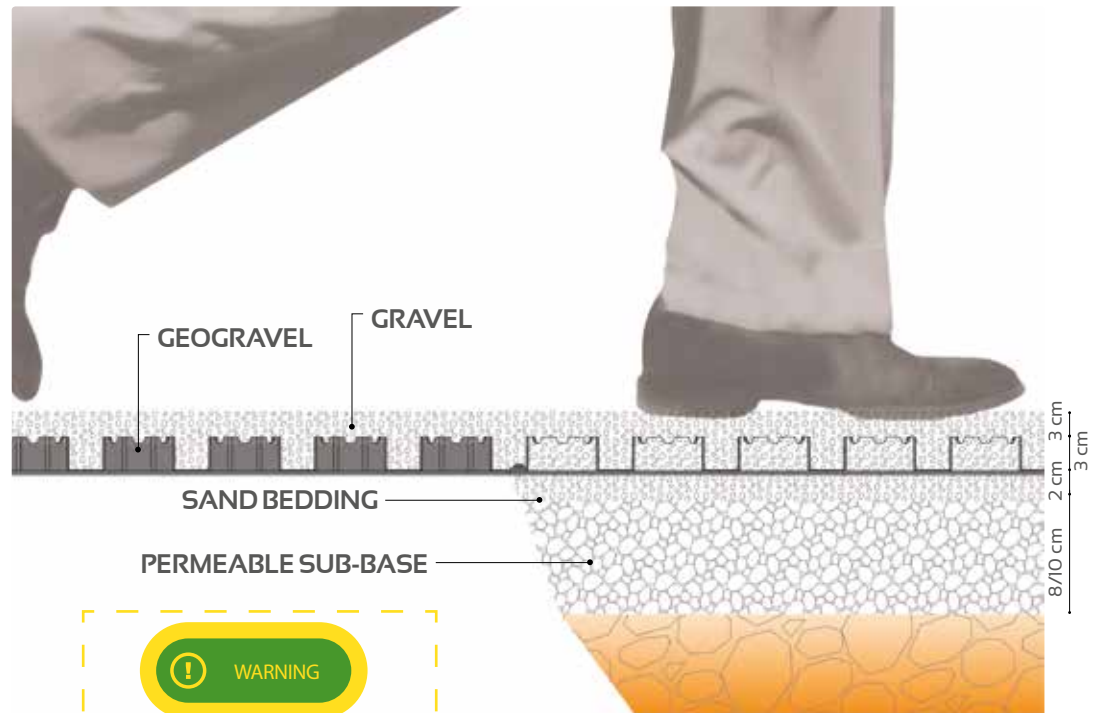
## WALKWAYS, BICYCLE PATHS, DISABLED ACCESS

**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



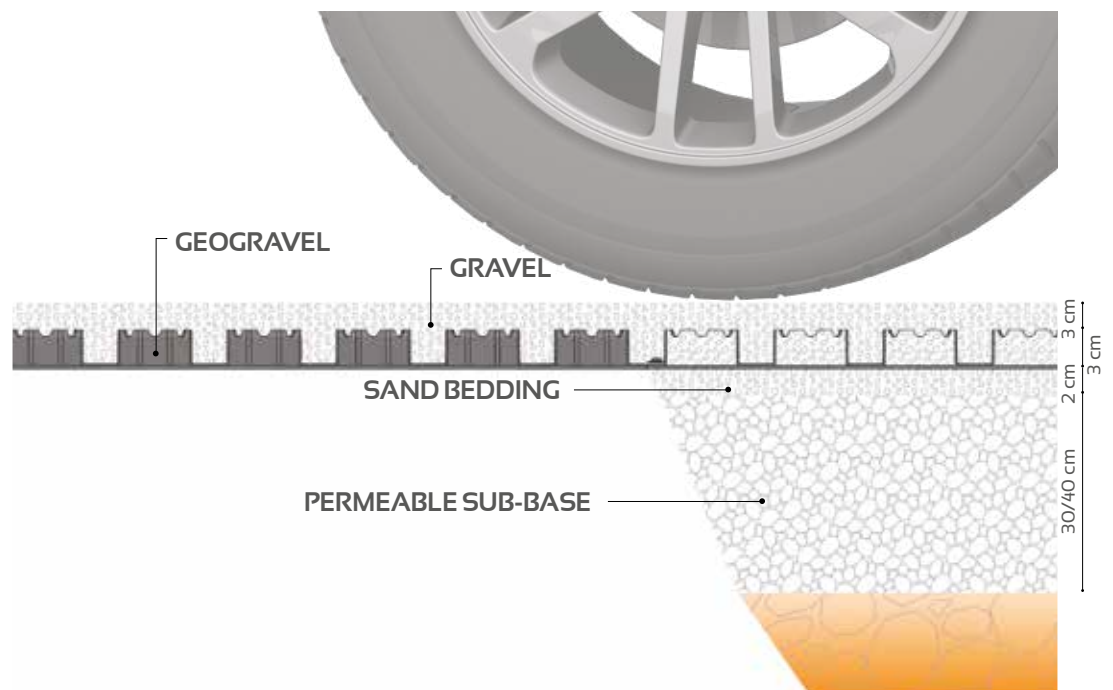
## VEHICLES

**1** Permeable sub-base of 30/40 cm 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

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

# GEOGRAVEL

## ADVICE 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 the 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 mantainance
- 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, Geogavel allows also the safe and comfortable transit of vehicles and people (no gravel or dust lift-off).



# FOOTPATHS



**Ideal solution**  
 for driveways and yards

**High permeability**  
**Ground stability**  
**Aesthetics**

**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, strollers and bikes. Its high permeability permits a fast drainage of the water in the subsoil avoiding the

formation of puddles or stagnations. Moreover, it is possible to fill the cells with different colours of gravel in order to obtain an high aesthetical result.

# CAR PARKS



**No**  
maintenance

**Low maintenance**  
**Drainage**  
**High resistance**

**GEOGRAVEL** is the ideal solution to create permeable car parks that guarantee an 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. The grid has an high me-

chanical resistance that allows its installation also under heavily trafficked area.



# CASE HISTORY





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