Technical data sheet GEOFLOR

1. DESCRIPTION

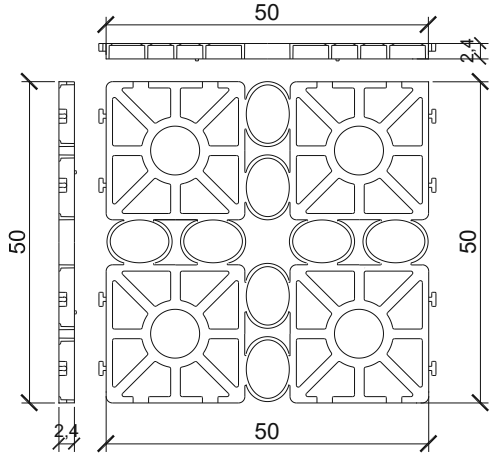
GEOFLOR is a plastic ground paver for installation above existing lawns.

2. TECHNICAL SPECIFICATIONS

Material	-	Gralene LD Black
Colour	-	Black
Dimensions	cm	50 x 50 x H2,4
Weight	kg	1,01
Thickness	mm	5
Load bearing capacity (filled)	t/m^2	100
Traffic load rating*	t/axle	10
Permeability	%	95
UV stabilised	-	Yes
Type of connection	-	overlapping
Place of production	-	Italy

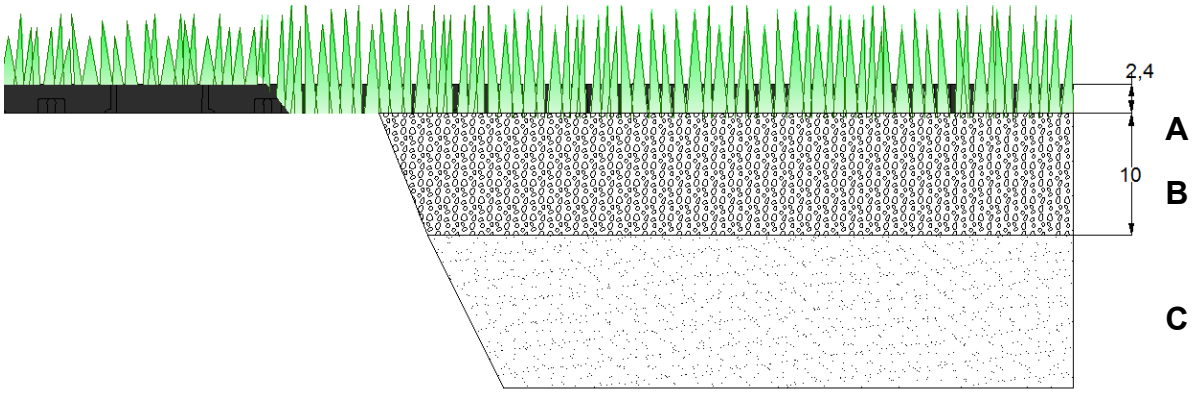
**According to DIN1072*

3. TECHNICAL DRAWINGS



3. TYPICAL STRATIGRAPHY

3.1 Existing grass surface



A- Geoflor; B- Bedding layer; C- Existing soil

Geoflor can be installed directly onto existing grass surfaces to make them temporarily or permanently accessible to motor vehicles. Condition to this use of the product is that the soil is not soft or subject to water-logging.

For best results in case of permanent installation:

1- Irrigation
Install irrigation system.

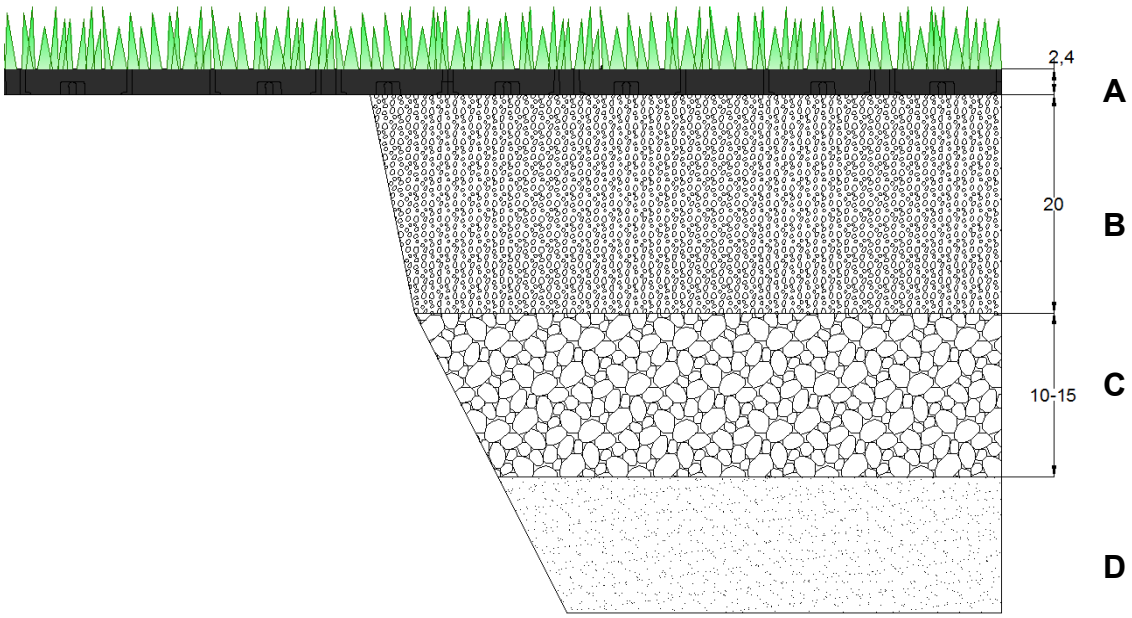
2- Soil preparation
Lay and level a layer of sand 8 to 10 mm deep.

3- Fertilizing
Improve fertility by adding a macronutrients complex fertilizer (for example N 20 g/m^2, P 8 g/m^2, K 20 g/m^2).

4- GEOFLOR paver laying
The GEOFLOR tiles will not be filled with soil. Lay GEOFLOR on the ground; after laying compact lightly. Take care of leaving a gap of at least 30 mm between the grids and any fixed object (curbs, manholes, walls) to allow for thermal expansion. The pavers can be easily cut to shape to fit around obstructions. The walls of GEOFLOR are curved and designed to absorb thermal expansion. Expansion joints are not necessary even for large paved surfaces. Installation time around 50 m^2 per hour per man. The maximum recommended installation slope is 8%. Do not drive over the surface until the grass has started to envelope the paver, at least not before it has been cut twice.

5- Maintenance and usage recommendations
Avoid using the area paved with GEOFLOR for turning areas of heavy vehicles (HGVs and others). Regularly fertilize the grass and, if in place, check that the irrigation system is working properly.

3.2 – Newing grass surface



A- Geoflor; B- Bedding layer; C- Foundation; D- Existing soil

1- Ground preparation
Remove topsoil and dig to the depth required by the build-up of bedding and pavers.

2- Bedding
For best results create a foundation layer of lava stone size 40-65 mm, at least 150 mm thickness laying on a geotextile membrane. Lava stone will improve water storage for dry spells without compromising on the compressive strength of the bedding. If lava stone is not available use crushed stone as an alternative.

3- Irrigation
Install an irrigation system if required.

4- Vegetation soil
Lay 200 mm of volcanic sand (grain size 0-5 mm) enriched with vegetation soil and organic fertilizer. Compact and level perfectly. Improve fertility by adding a macronutrients complex fertilizer (for example N 20 g/m^2, P 8 g/m^2, K 20 g/m^2). Level and compact the soil.

5- Seeding
Seed grass in the finished surface or, for best results mix the seeds in with the cell fill soil. **Alternatively** lay pre-grown grass rolls onto the prepared soil surface.
Choose grass types well suited to the climate and location. Water regularly until grass has grown. Do not drive over the surface until the grass has rooted developed sufficiently, typically not before it has been cut twice.

6- GEOFLOR paver laying
The GEOFLOR paver will not be filled with soil. Lay GEOFLOR on the ground; after laying compact lightly. Take care of leaving a gap of at least 30 mm between the grids and any fixed object (curbs, manholes, walls…) to allow for thermal expansion. The pavers can be easily cut to shape to fit around obstructions. The walls of GEOFLOR are curved and designed to absorb thermal expansion. Expansion joints are not necessary even for large paved surfaces. Installation time around 50 m^2 per hour per man. The maximum recommended installation slope is 8%. Do not drive over the surface until the grass has started to envelope the paver, at least not before it has been cut twice.

7- Maintenance and usage recommendations
Avoid using the area paved with GEOFLOR for turning areas of heavy vehicles (HGVs and others). Regularly fertilize the grass and, if in place, check that the irrigation system is working properly.

4. PACKAGING AND TRANSPORT

Product code	-	FGEOFLO5024
Pcs per sqm	pcs	4
Packaging	-	Pre assembled, stacked on pallet
Pcs per pallet	pcs	400
Sqp per pallet	m^2	100
Packaging dimension	cm	100 x 112 x H230

5. ACCESSORIES

Universal cap

The universal cap is a spike with a wide cap textured on the upper side to make it skid-free.

Product code	-	FRUNFPB9050 (white) FRUNFPG9050 (yellow)
Shape	-	Circular
Dimensions	cm	ø9cm Spike length H=7cm
Total elevation above the paver	cm	0,5
Quantity for line marking	pcs/ml	4
Material	-	Gralene LD Black