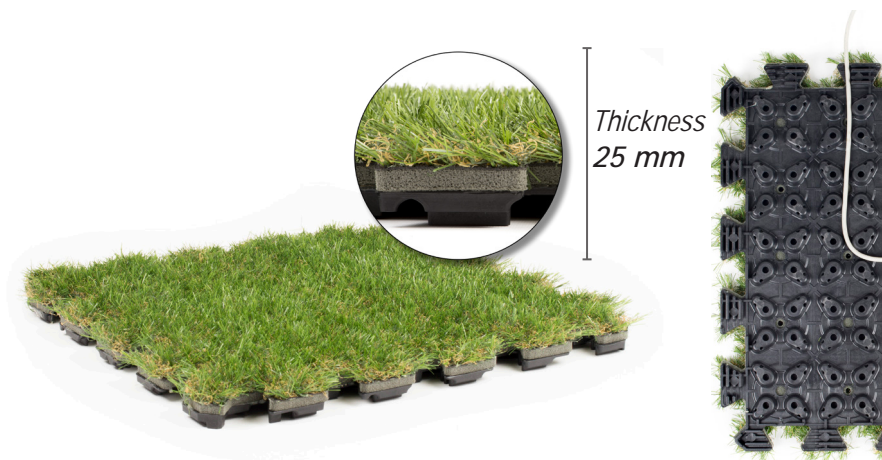




Roofinggreen®
INSPIRED BY NATURE

TECHNICAL DATA SHEET

Leaf



Model: Leaf

Product code: RL22_01M10

Minimum purchase: 16 or 32 pcs per box

Dimensions: 50 x 50 x H 2,5 cm

Weight: 1,6 Kg/pcs

Roofinggreen® LEAF is a modular flooring system characterised by its reduced thickness, low weight and excellent drainage capacity.

LEAF modules measure 50 x 50 cm, and are composed of a thermoplastic base structure, an intermediate foam layer and a surface of synthetic grass.

Materials do not absorb humidity, whereas the presence of invisible drainage holes ensures the passage of surface water. By correctly joining the dovetail profile tiles like a puzzle, a homogeneous flooring with a natural appearance and a high degree of comfort is obtained.

Despite its reduced height of 25mm, LEAF will result in a well-ventilated floor system, with the possibility to integrate electricity cabling.

LEAF is designed for outdoor applications and can be installed on a broad range of different underlying surfaces, both on ground and above ground level, such as waterproof surfaces, concrete, stone and ceramic tile floor.

Typical applications include flat roof coverings, terraces, patios, courtyards, walkways and (temporary) exhibition areas.

Key Features

- Highly natural and comfortable grass surface
- Excellent water drainage
- Reduced thickness and low weight
- No mold, mildew, rot or bacteria
- Pet friendly, absence of bad smell
- Self-interlocking system, dry technology
- No water consumption, minimal maintenance
- Install on any type of flat substrate, incl. existing decking
- Free cable passage beneath and integrated LED step-light option



MATERIAL SPECIFICATIONS

Synthetic Grass

Grass tuft

Polyethylene/polypropylene (PE/PP) 35mm, multi-shade

Backing

Polypropylene (PP)

Foam Layer

Material

XPE (cross-linked expanded polyethylene)

Thickness

10 mm ($\pm 10\%$)

Base Structure

Materiale

Recycled polypropylene (PP)

Module

Outer dimensions

530 mm (± 2 mm) x 530 mm (± 2 mm)

Net surface dimensions

500 mm (± 2 mm) x 500 mm (± 2 mm)

Height

25 mm ($\pm 5\%$)

Weight

1.6 kg ($\pm 10\%$)

Drainage Holes

12 of 6mm diameter

INSTALLED SYSTEM

Surface Area

4 modules per 1 square meter

Height

25 mm, module only

32 mm in combination with **Geodreno 07**

41 mm in combination with **Geodreno16**

Weight

6.5 kg/m² ($\pm 10\%$)

PACKAGING

Cardboard boxes 32 pieces (8m²) or 16 pieces (4m²)

TECHNICAL PERFORMANCE

Parameter	Value
Weight Load Resistance	min. 5.0 kN/m ² distributed load
Drainage Capacity	40 l / min / m ²
Colour Fastness UV Exposure	Grey scale ≥ 4 – ISO EN 20105-A02, 5000h exposure (Xenon)
Sunlight Exposure	Low intensity zones (≤ 120 kLy): min. 10 years* Medium intensity zones (140-160 kLy): min. 7 years* High intensity zones (≥ 180 kLy): min. 5 years*
	* The number of years refer to the period there should be no visible change. Beyond this period a gradual colour change of the synthetic grass may occur, data are indicative and may be affected by particular local conditions.
Chemical Resistance	Excellent resistance to acids, alkalis, oils, mold, rot and soil. Suitable for installation near pools (chlorine) and seaside (salt). Resistant to salt used for melting snow.
Service Temperature Range	-20°C to 75°C

The Roofinggreen surface can be used all year around in a broad range of climatic conditions (cold, wet, hot) thanks to the high dimensional stability, non-absorption of surface water and excellent drainage properties.

Under prolonged, high intensity sunlight exposure the grass surface will warm up: care should be taken when walking barefoot. Under shade the surface will cool off rapidly.

Artificial grass surfaces tends to accumulate an electrostatic charge in case of rubbing with other materials (e.g. rubber soles) and in certain circumstances (dry surface, low air humidity). Care shall be taken to avoid personal accidents caused by an electric discharge.

SUSTAINABILITY

Environmental Product Declaration (EPD) <https://www.environdec.com/library/epd7316>

HEALTH AND SAFETY

Parameter	Value
REACH	All components are REACH registered and compliant
Toxicity	Does not contain heavy metals or other hazardous/toxic components
Reaction to Fire	E _{fl} – EN13501 <i>Flammability ASTM D-2859 certified. The grass surface will not propagate fire. No damage from cigarette butts; burning wood or charcoal may cause localized black spots. Not recommended for indoor installation.</i>
Transport	No restrictions

PROJECT PREPARATION

To ensure the correct quantity of materials it is recommended to share with Roofinggreen the .dwg or .pdf drawings of the project with the exact surface dimensions. In addition, to select the appropriate product combination it is recommended to inform us about the type of surface on which Roofinggreen will be installed, as well as the desired height interval.

INSTALLATION

LEAF tiles are designed for direct installation on the underlying substrate only (in continuous support). They are suitable for installation on planar, regular substrates, including roof membranes and waterproof layers, concrete or screed layers, as well as on existing ceramic, stone or wood floors.

In many scenarios it is recommended to install LEAF in combination with a Roofinggreen GEODRENO geotextile material: this will protect the underlying surface (waterproof membrane for example), provide a stable and smooth support layer, enhance the horizontal water flow and eliminate noise generation.

Under no circumstance shall they be used for elevated installations on pedestals or similar supports, neither entirely nor partially, as this may cause the tiles to fail, causing material damage and potential injuries.

The modules intended to be placed around the surface edges shall be cut to size on-site, using a circular table saw or other appropriate equipment, to obtain straight edges and to make the surface fit the surrounding perimeter and structure.

To obtain a homogeneous looking surface it is necessary to place all modules with the same direction of the grass pile. Each module has a lateral notch on one side and arrows on the bottom to indicate the direction of the grass.

Fundamental is that the modules are slotted together in such a way as to avoid as best as possible the grass remaining stuck between modules. Roofinggreen has developed a tool (EASYFIX) for this

purpose, plastic profiles that will be supplied with each purchase order.

We strongly recommend to carefully study the various videos available on Roofinggreen's Youtube channel: <https://www.youtube.com/@RoofinggreenSrl>

As the final installation step it is advised to brush up the grass pile using either a manual metal comb or similar tool for relatively small surface areas, or for larger surfaces the electrically driven cleaning and brushing machine, which also cleans the surface of any debris (see maintenance section).

It shall be avoided to install Roofinggreen within 0.5 meters distance from the surface perimeter in case there is an adjacent partition of low-E glass: the reflection of solar radiation may cause a rapid deterioration of the synthetic glass tuft.

The installation of the system can be performed either by Roofinggreen appointed installers or alternatively, by personnel chosen by the client following the installation instructions. In the latter case, Roofinggreen declines any responsibility for the quality of the installation and any negative consequences and / or damage resulting from incorrect or imperfect installation. For more detailed instructions and guidelines for installation, please refer to the Installation Manual available on demand or contact qualified personnel.

The purchaser is responsible for the management and disposal of waste, excess and packaging materials, unless agreed otherwise.

MAINTENANCE AND CLEANING

The Roofinggreen surface requires very little maintenance. The only recommended intervention is to pull up the grass pile from time to time to give the surface a fresh appearance. The frequency will depend primarily on the amount of foot traffic. This intervention can be carried out using a manual tool (hard broom or brush) or, for large surface areas, it will be more practical to use a cleaning and brushing machine – see for example <https://rollandcomb.com>

Cleaning of the Roofinggreen surface is easy. Dust can be removed by spraying with water. Most stains can be cleaned by using water and soap, or using detergents suitable for synthetic grass available in the general market. Rubbing does not damage the surface. To remove small debris (small stones, leaves, twigs, pine needles) it is convenient to use the cleaning and brushing equipment.

Artificial grass surfaces tend to accumulate an electrostatic charge in case of rubbing with other materials (eg rubber sole) in certain circumstances (e.g. dry surface, low air humidity). Care shall be taken to avoid personal accidents caused by an electrical discharge. Detergents that incorporate anti-static additives are available on the general market.

In case of localized damage to one or more grass modules it is possible to substitute single parts with a new module without intervening on the substructure. Inspection of the underlying (waterproof) roofing or flooring can be performed by temporary removal of the modules, which can be put back into place after the inspection and maintenance work is completed.

WARRANTY

Roofinggreen products and systems come with a general, two-year warranty for manufacturing defects.

The installation and use of Roofinggreen products and systems is beyond our control, and is therefore the sole responsibility of the reseller, installer and/or user.

The purchaser is responsible for the identification and communication of any relevant local or national legislation, industry norms and standards, and/or regulations concerning the composition, performance, installation and usage of our products and systems.

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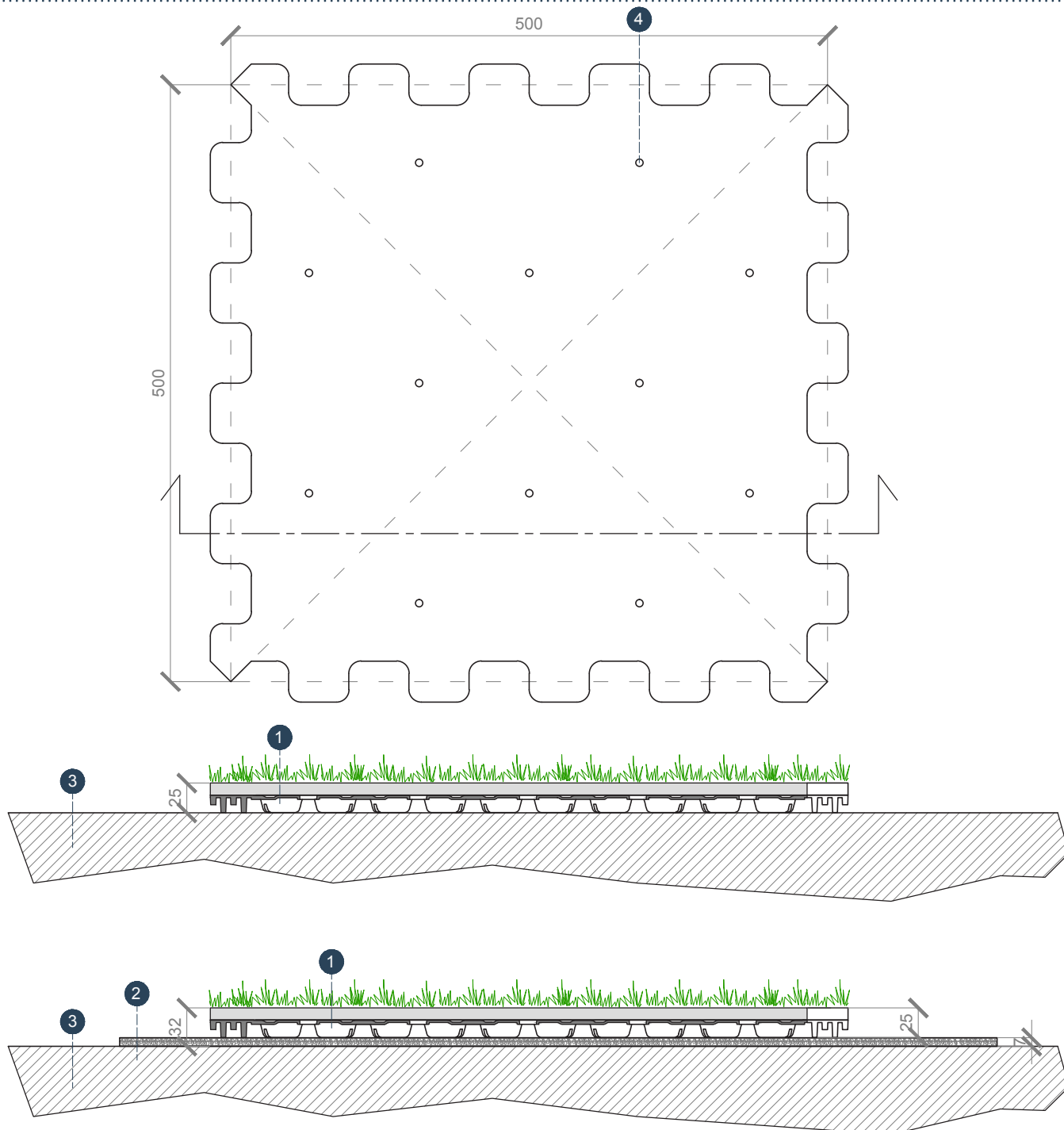
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LEGENDA:

- 1 Roofinggreen **Leaf** sp. 25 mm
- 2 Telo drenante **Geodreno** sp. 7/16mm
- 3 Sottofondo
- 4 Foro per drenaggio Ø 6 mm

MODELLO

LEAF

FILE

LEAF_01_00.dwg

DESCRIZIONE

Pianta e Sezione

SCALA

1:5

TAV.

LEAF_01

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