Roofingreen®
CARATTERE INNOVATIVO

PRODUCT DATA SHEET

PRODUCT_CODE: **REG26_01M10**

ELEVATE GREEN

Roofingreen® Elevate Green is the modular solution for raised surfaces. The artificial turf tiles are combined with pedestals to create an integrated, height adjustable system that meets industry requirements for weight loads.

The 500 x 500 mm panels are composed of a highly resistant base structure, an intermediate foam layer and a surface layer of synthetic turf. The materials do not absorb humidity, whereas the presence of invisible drainage holes ensures the passage of surface water.

Elevate Green is generally supplied in combination with the high performance NM pedestal support system. The system height obtained ranges from 85 mm up to 800 mm and more. After installing the pedestal support structure, the dovetail shaped tiles are placed together like a jigsaw puzzle, generating an interlocking, homogeneous turf surface with a natural appearance and high degree of comfort. The space between the panels and the underlying substrate guarantees air circulation. There is ample space for electricity cables and tubing, whereas LED footstep lighting can be smoothly integrated.

Elevate Green is particularly suited for installation on non-draining, sloped substrates used on roofs, platforms and balconies, whether waterproofing layers, concrete, screed or other. Major application areas are roof terraces and balconies. The height regulation makes a perfect leveling with doorsteps and balcony ridges easy.

The surface can be used all year around in a diverse range of climatic conditions thanks to the dimensional stability and excellent drainage, resulting in a dry and clean surface.

Key Features

- Height adjustable pedestal system to create perfectly horizontal surface
- Natural looking and highly comfortable turf
- Excellent water drainage
- Reduced weight
- Easy logistics and installation
- Dry technology; no water consumption
- Maintenance free
- High weight load resistance
- Fully integrated cable passage and LED spotlight option
- No formation of mold, mildew, rot and bacteria
- No bad odor, perfect for pets

MATERIAL SPECIFICATIONS

Synthetic Grass

Material	polyethylene/polypropylene (PE/PP)monofilament, multi-shape
Backing	polypropylene (PP)

Foam Layer

Material	XPE (cross-linked polyethylene foam)
Thickness	10 mm (± 10%)

Base Structure

Material	recycled polycarbonate (PC)

Module

Length / Width	500 x 500 mm (± 1%)
Height	40 mm (± 5%)
Weight	2.4 kg (± 10%)
Drainage Holes	12 per tile with 6 mm diameter

INSTALLED SYSTEM

Net Surface Area	4 modules per 1 square meter
Height	75 - >1000 mm in combination with NM pedestal system
Weight	***18 - 22 kg/ m² in function of pedestal height***

PACKAGING

Cardboard Box (54 x 54 x 115 cm)	22 modules - 5.5 m²

TECHNICAL PERFORMANCE

Parameter	*Value*
Concentrated Weight Load	1.5kN
Distributed Weight Load	5kN/ m^2
Drainage Capacity	40 l / min / m^2
Lightfastness (UV Exposure)	Grey scale ≥ 4 (ISO EN 20105-A02, 5000h exposure)
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 color shift of the artificial turf 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 salts used for melting snow.
Temperature Operating Range	from -20°C to 75°C

HEALTH AND SAFETY

Parameter	*Value*
Composition	REACH compliant. Turf compliant with EN 71-3 (toys). Does not contain heavy metals or other hazardous/toxic components.
Flammability	ASTM D2859-16
Surface Impact Attenuation	ASTM F1292

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

Artificial turf surfaces tend 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; specific products are generally available to avoid this.

PROJECT PREPARATION

To ensure the correct quantity of materials it is recommended to share with Roofingreen 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 Roofingreen will be installed, as well as the desired height level(s).

For elevated decking systems like Elevate Green precise information concerning the height levels to be achieved are critical to choose the matching pedestals. The heights should give minimum and maximum heights, taking into account the substrate slope, and ideally also the location of drainage points. On site measurements when the substrate and perimeters have been created are recommended before final order confirmation.

Roofingreen gives data about the total system height which includes the pedestals, connection piece and turf panel. The length of the turf pile itself is excluded.

INSTALLATION

Elevate Green is designed for raised surfaces typically installed on sloped, non-draining substrates like (roof) waterproof layers, concrete or screed substrates.
The installation process consists of two steps: first the support structure with NM pedestals, connection pieces and metal joists creating the support grid. Each panel can be precisely height adjusted to obtain a perfectly horizontal structure.
Secondly, the panels can be fitted onto the structure, making sure they slot into the correct position. The panels fit together like a puzzle. The peripheral tiles shall be cut to size on-site, using a circular electrical saw or other appropriate equipment, to obtain straight edges and to make the surface fit the surrounding structure.
To obtain a homogeneous looking surface, it is necessary to place all panels with the same direction of the grass pile. The tiles have signage to indicate this. The tiles shall be slotted together in such a way as to avoid the pile remaining stuck between tiles. A purpose-designed tool (Easyfix) is available on from Roofingreen for this purpose. Alternatively, a metal comb or similar tool may be used to pull up any entrapped grass.
With the tiles in place, it is still possible to make a final height adjustment with a screwdriver, and/or insert screws into the pedestal structure that will provide additional stability for extreme wind loads.
As the final installation step it is advised to pull up the grass pile using either a strong brush metal comb or similar tool for relatively small surface areas, or for larger surfaces a mechanical cleaning and brushing machine, which potentially also cleans the surface of any debris (for example model 502 from www.rollandcomb.com).
It should be avoided to install Roofingreen within 50 cm 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 turf tuft.
The installation of the system can be performed either by Roofingreen appointed installers or alternatively, by personnel chosen by the client following the installation instructions.

Roofingreen 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 videos and the Installation Manual available on demand or contact qualified personnel.

MAINTENANCE AND CLEANING

The Roofingreen 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 (brush) or, for large surface areas, it will be more practical to use specific mechanical equipment.

Cleaning of the Roofingreen 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 artificial turf. Rubbing does not damage the surface. To remove small debris (small stones, leaves, twigs, pine needles) it is convenient to use combined cleaning and brushing machine (see above).
In case of localized damage to one or more tiles it is possible to substitute single parts with a new tile 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 DISCLAIMER

Roofingreen products and systems come with a two-year general warranty for manufacturing defects. The installation and use of Roofingreen 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 to Roofingreen of any relevant local and national legislation, industry norms and standards, and/or regulations concerning the composition, characteristics, performance and installation of our products and systems.

Remarks: CAD files can be downloaded directly from www.roofingreen.com
Original measures are in metric values; the transcription into 1/8 inch length units results in a potential margin of imprecision of up to 5%.

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Roofingreen Srl
Via Ettore de Sonnaz, 19 - 10121 Torino, Italy
T: +39 011 1985 5708
www.roofingreen.com - info@roofingreen.it

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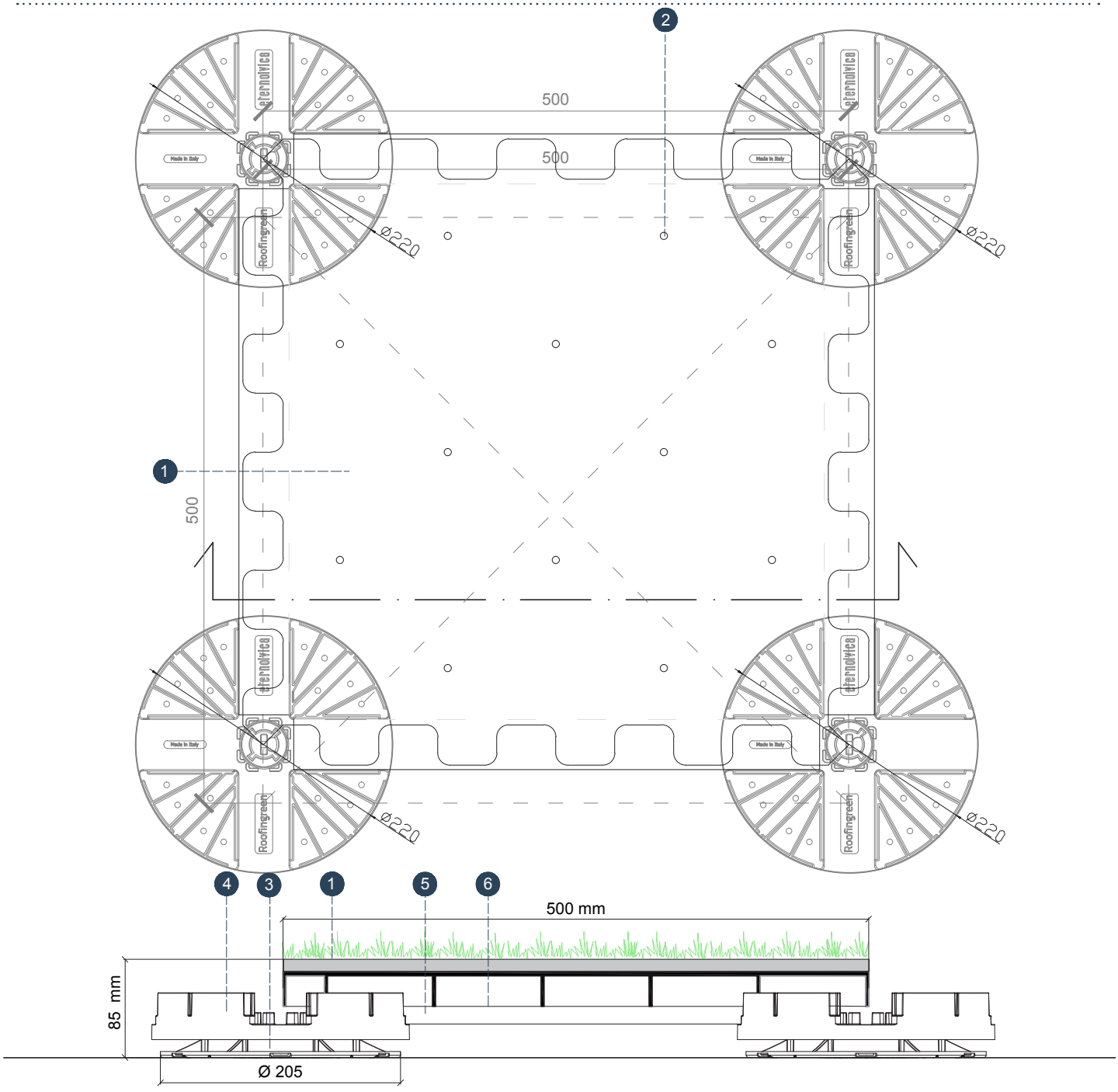

LEGENDA: The modules outer profile shape as represented in these drawings is indicative only, however sufficient for the definition of the dimensions.

1. Roofingreen **NATURE** ht. 40 mm
2. Drainage hole Ø 6 mm
3. Support **NM1**
4. RIG Head for central support
5. Galvanized steel bar
6. Anti slip taope

MODEL	FILE	DESCRIPTION	SCALE	TAV.
NATURE	NATURE_mm.dwg	Plan and Section	1:5	NATURE_01

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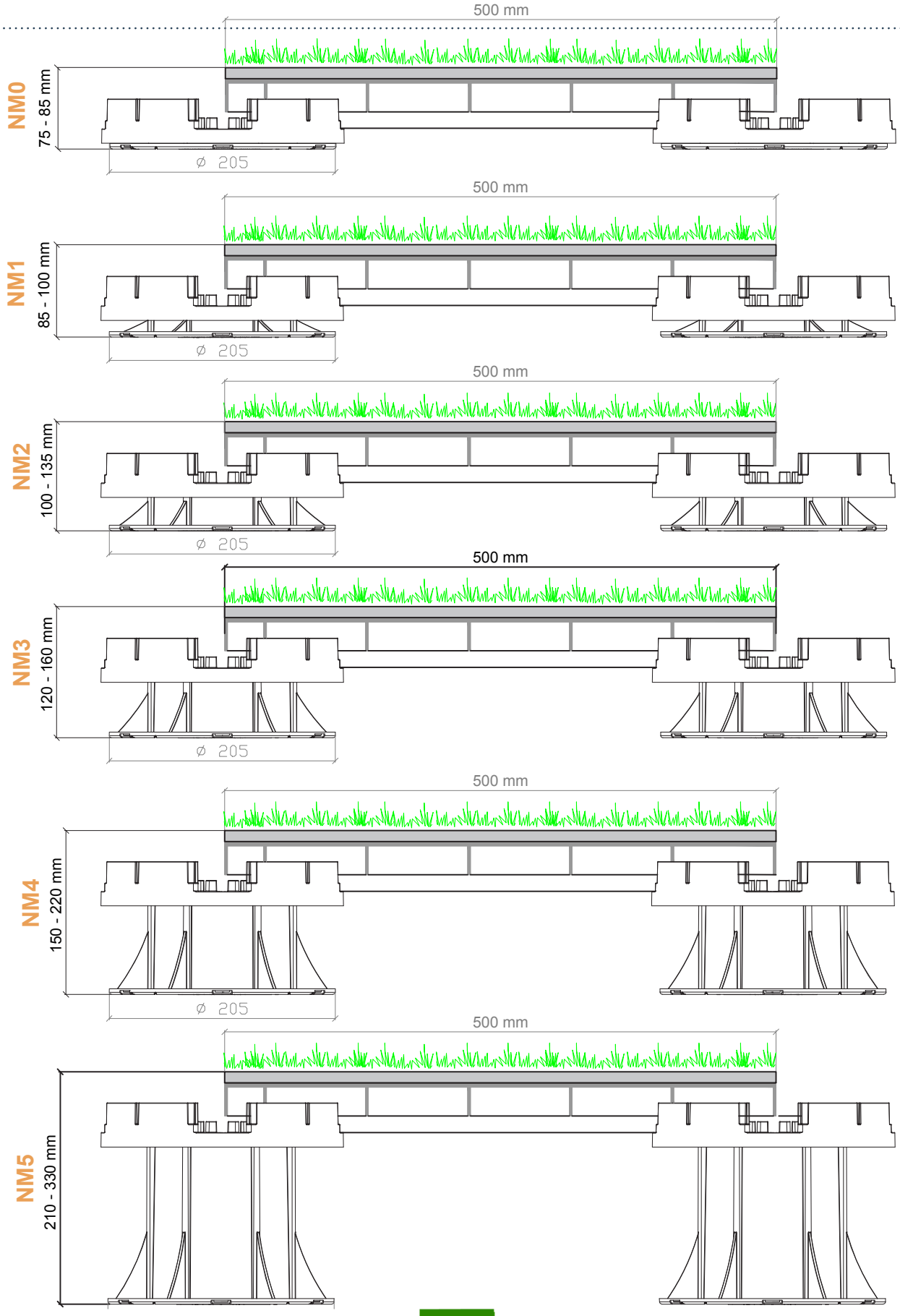
NM0
75 - 85 mm
500 mm
ø 205
NM1
85 - 100 mm
500 mm
ø 205
NM2
100 - 135 mm
500 mm
ø 205
NM3
120 - 160 mm
500 mm
ø 205
NM4
150 - 220 mm
500 mm
ø 205
NM5
210 - 330 mm
500 mm