

GREEN ROOF RIZOMA

01 Green Roof Rizoma



Resalia Winery, Arcos de la Frontera, 2018

The Rizoma system is a very light and thin non-trafficable vegetation cover, which can be laid on flat or sloping surfaces due to the adherence of the substrate to the lower layers of the system itself.

The Rizoma system uses the latest technology in synthetic substrates, which perform the functions of a retaining, draining and substrate layer, with a thickness of only 4 cm.

On top of the substrate, species of your choice are placed, whether they are of the Sedum genus or grass sods, aromatic plants or succulent plants, obtaining a total thickness of 7 cm.

If the plant finish requires it, an underground drip irrigation system is included.





Energy **SAVING**

Improved THERMAL AND ACOUSTIC insulation

Prolonging the **SERVICE LIFE OF THE ROOF**

Better use of **URBAN SPACES**

Better **AIR QUALITY**

Increased **BIODIVERSITY**

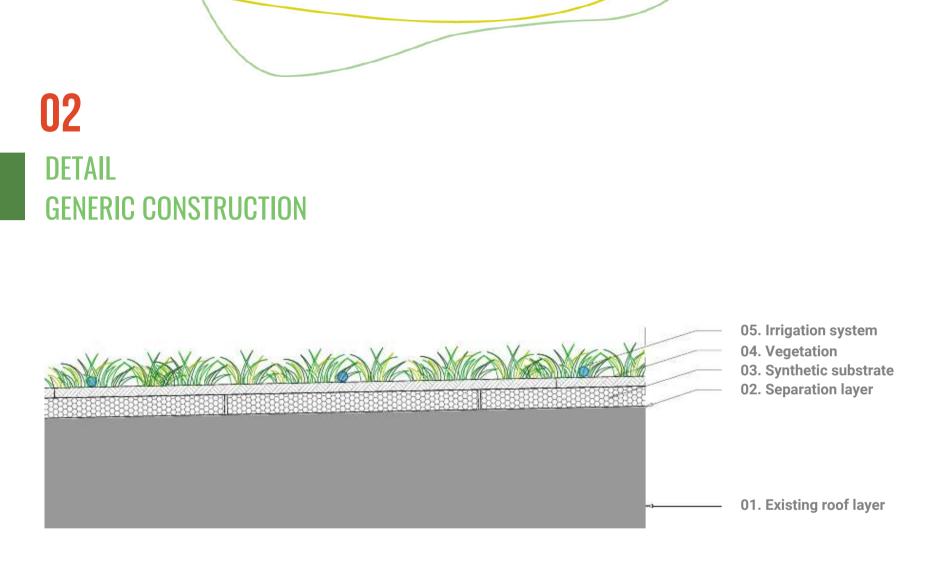
RAINWATER use



Valladolid vegetable shelter, 2021



Green roof Madrid, 2018









SEPARATION LAYER

SG-GT2

Non-woven geotextile composed of 100% high tenacity polypropylene staple fibres, mechanically bonded by a needlepunched and heat-set process, thickness 0.6 mm and grammage 200 gr/m².



VEGETAL SUPPORT

SG-L25/SG-L40 PANEL: 25-40 mm thick synthetic substrate panel specifically for hydroponic vertical gardening (depending on plant finish).



IRRIGATION SYSTEM

INTEGRATED DRIPPER SYSTEM Underground irrigation system consisting of Ø16 mm. pipes, made of low density polyethylene, with integrated drippers at 33 or 55 cm.

04 Types of Vegetation

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SEDUM (LOW MAINTENANCE)



SUCCULENTS



AROMATIC

TYPE OF VEGETATION	Sedum species	Selected species of succulents	Selected aromatic species	
PLANTING SYSTEM	PLANTING SYSTEM sod or seeded		Plantación 25 plantas/m2	
TYPE OF SUBSTRATE	SG-L25	SG-L40	SG-L40	
THICKNESS OF SUBSTRATE	5 cm.	7 cm.	7 cm.	
CLIMATE TYPE	Dry	Tropical (or dry climate with irrigation))	Tropical (or dry climate with irrigation))	



Green Roof Barcelona 2022

05 Specifications technical

WEIGHT IN SATURATION: 46 kg/m² + vegetation

WATER STORAGE: 30 l/m²

SLOPE:

1-5%. 5-100% with polyurethane membrane waterproofing.

DRAINAGE CAPACITY: ISO 12958 600 l/min/m

COMPRESSIVE STRENGTH: UNE-EN 826:2013 > 10 kPa (at 10% deformation).



Ultralight system

Latest technology in **synthetic substrates**

Suitable for **flat and pitched roofs**

Low thickness systems



Green Roof Granada, 2018



Green Roof Madrid, 2021

06 TECHNICAL DOCUMENTATION

APPLICABLE REGULATIONS

- CTE. DB HS Health and Safety.
- CTE. DB SI Fire Safety.
- NTE-QAA. Roofs: Roof gardens.
- NTJ 11C Green roofs

*This regulation is mandatory in Spain. If the work is to be carried out in another country, please consult the specific regulations of that country.

SPECIFICATIONS





Valladolid vegetable shelter, 2021









Valladolid vegetable shelter, 2021



At SingularGreen, we specialize in providing cities with green spaces through **Nature-Based Solutions** and the **integration of architecture and vegetation**, with the aim of improving the quality of life for those who inhabit them.

That's why we don't just design, we take action by creating all kinds of **unique landscaping projects.**

Innovation is in our DNA, and our R&D department has been conducting constant research for over **15 years to develop our own technology**, adapting to each environment.

At SingularGreen, we are passionate about what we do, and we are characterized by **creating creative solutions for your project**, offering comprehensive advice, execution, and maintenance services, always adapting to your needs.

SingularGreen: Creative Solutions Based on Nature.

Green Roof Madrid, 2021



singulargreen.com

info@singulargreen.com +34 966 282 640 +34 673 768 624

