



GREEN ROOF  
CIKLA





# 01

## GREEN ROOF CIKLA

The Cikla system is the only green roof that uses the plot's own soil as substrate, which makes it a more sustainable green roof as it generates less waste.

The Cikla system uses a retentive, absorbent and draining bottom layer, 2.5 cm thick, by using the SG-L25 substrate, specific for green roofs.

The species recommended in this green roof system are native plants, as they are the best adapted, so the final thickness of the substrate depends on the selected vegetation.



**Sustainable  
system**

**Latest technology in  
green roofs**

**Adapts to flat surfaces with  
minimal slope**





# 02

## TYPES OF ROOFING CIKLA

The Cikla roof comes in two versions, adapting to the needs and objectives of each project:

**Cikla Selecta:** Uses selected native plants, carefully chosen to guarantee sustainable development and perfect integration with the environment.

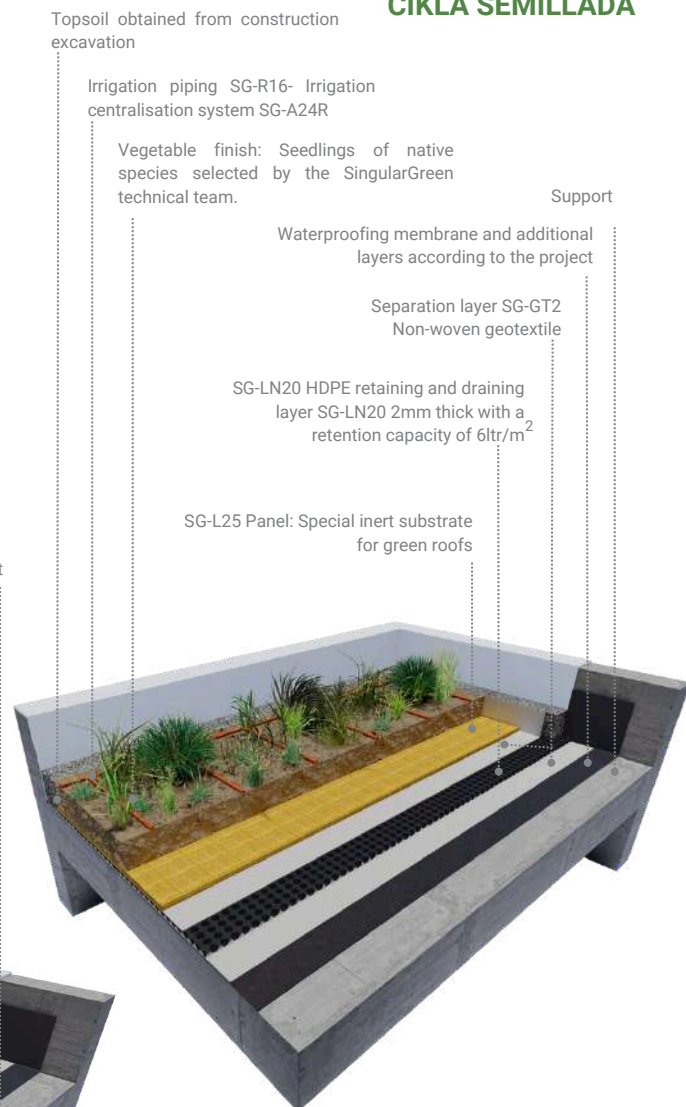
**Cikla Semillada:** Offers a more natural and spontaneous solution, based on the direct sowing of local species, allowing the vegetation to evolve according to the conditions of the site.

Both versions share a commitment to reusing the project's own resources, combining sustainability and landscape design in an efficient and environmentally friendly solution.

### CIKLA SELECTA

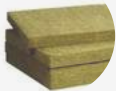


### CIKLA SEMILLADA



**SEPARATING, DRAINING AND RETAINING LAYER****SG-LN20**

Nodular high-density polyethylene drainage sheet 2 cm high

**ABSORBENT AND FILTERING LAYER****SG-L25**

Type and thickness depending on the plant finish. Recommended minimum thickness 50mm.

**SUBSTRATE****LOCAL SOIL SUBSTRATE**

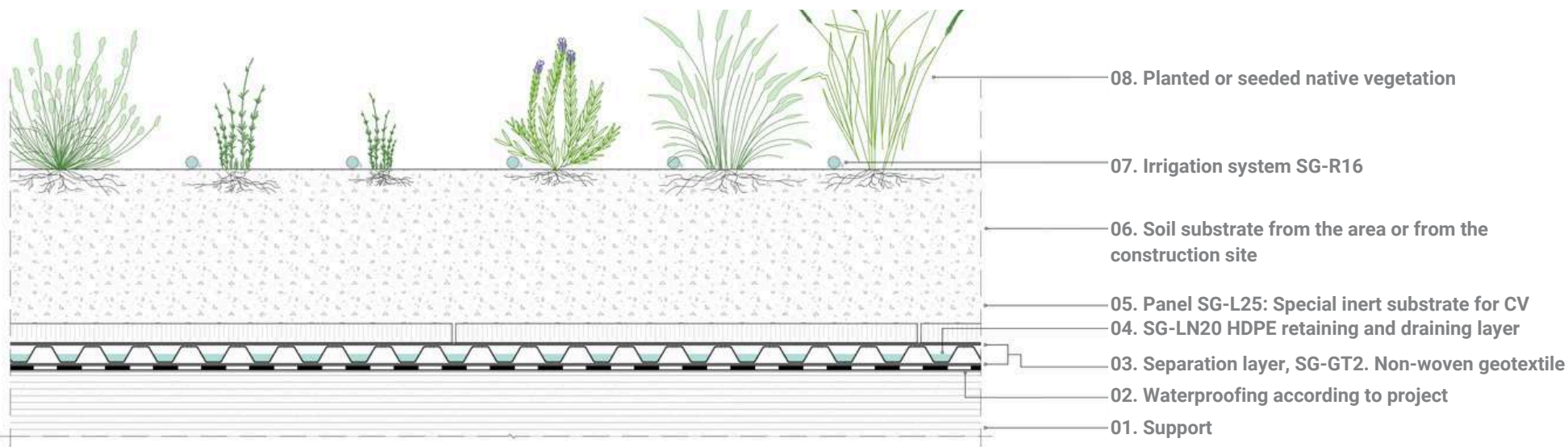
Type and thickness depending on the topsoil finish of at least 50 mm.

**IRRIGATION SYSTEM****SG-R16 INTEGRATED DRIPPER SYSTEM**

Underground irrigation system consisting of Ø16 mm. pipes, made of low density polyethylene, with integrated drippers.

# 04

## DETAIL GENERIC CONSTRUCTION



DETAIL  
GENERIC CONSTRUCTION  
DWG



DETAIL  
GENERIC CONSTRUCTION  
PDF







05

## SPECIFICATIONS TECHNICAL

**WEIGHT IN SATURATION:** 46 kg/m<sup>2</sup> + vegetation

**WATER STORAGE:** 30 l/m<sup>2</sup>

**PENDING:**

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

**DRAINING CAPACITY:** To ISO 12958 600 l/min/m

**COMPRESSIVE STRENGTH:**

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

# 06

## VEGETATION TYPES



**AUTOCHTHONOUS VEGETATION**

<b>TYPE OF VEGETATION</b>	Native species selected by SingularGreen specialists.
<b>PLANTING SYSTEM</b>	By transplanting or seeding.
<b>TYPE OF SUBSTRATE</b>	Own land
<b>THICKNESS OF SUBSTRATE</b>	From 5 cm depending on the vegetation.
<b>CLIMATE TYPE</b>	It adapts to all types of climate, depending on plant selection.



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

Mainstreaming **CIRCULAR ECONOMY**





# 07

## 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







# 08

## WHO ARE WE?

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.**



[singulargreen.com](http://singulargreen.com)

[info@singulargreen.com](mailto:info@singulargreen.com)

+34 966 282 640

+34 673 768 624



PYME INNOVADORA

