



GREEN ROOF
CANTIR



01

GREEN ROOF CANTIR

The Cántir green roof system stands out for being the simplest and most versatile. It is a walkable flat roof, of the extensive landscaped type that incorporates a drip irrigation system that allows for multiple options of plant finishes, from low height options such as grass or succulents to shrubs and trees.

It is a lightweight and easy to install system, whose main objective is to cool the building in the warmer months and optimise insulation in winter.

The main advantage of the Cántir system is its high water retention capacity, as it combines the cistern irrigation system with the highly absorbent substrate.

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



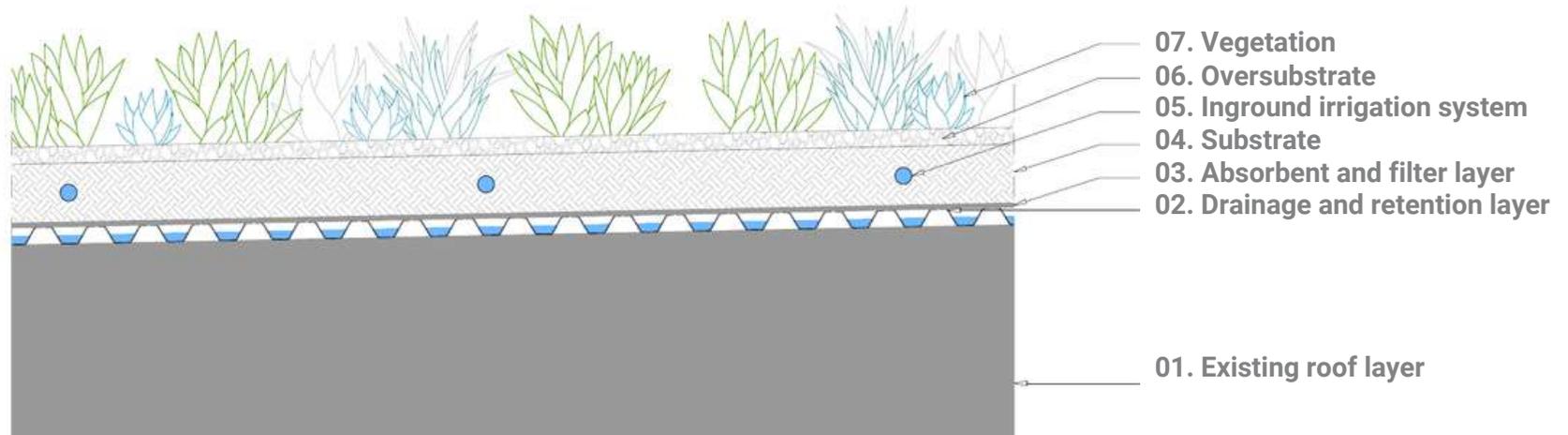
Green Roof Santa Pola, Alicante, 2020



Green Roof Finestrat, Alicante, 2020

02

DETAIL GENERIC CONSTRUCTION



DETAIL
GENERIC CONSTRUCTION
DWG



DETAIL
GENERIC CONSTRUCTION
PDF



CAPA DRENANTE Y RETENEDORA**SG-LN20**

Lámina nodular drenante de polietileno de alta densidad de altura 2 cm.

CAPA ABSORBENTE Y FILTRANTE**SG-G500**

Geotextill no tejido formado por fibras de poliéster reciclado y polipropileno reciclado, unido mecánicamente por un proceso de agujeteado, de espesor 4,17 mm. y gramaje 500 gr/m².

SUSTRATO**Consultar tipo en el apartado SUBSISTEMAS Y TIPOS DE VEGETACIÓN**

Mezcla de componentes orgánicos (tierra vegetal, turba...) y componentes minerales granulares. Tipo y espesor en función del acabado vegetal.

SISTEMA DE RIEGO**SISTEMA DE GOTEROS INTEGRADOS**

Sistema de riego enterrado formado por tuberías de Ø16 mm., de polietileno de baja densidad, con goteros integrados a 33 o 55 cm.

04

VEGETATION TYPES



GRASS



PLANTS

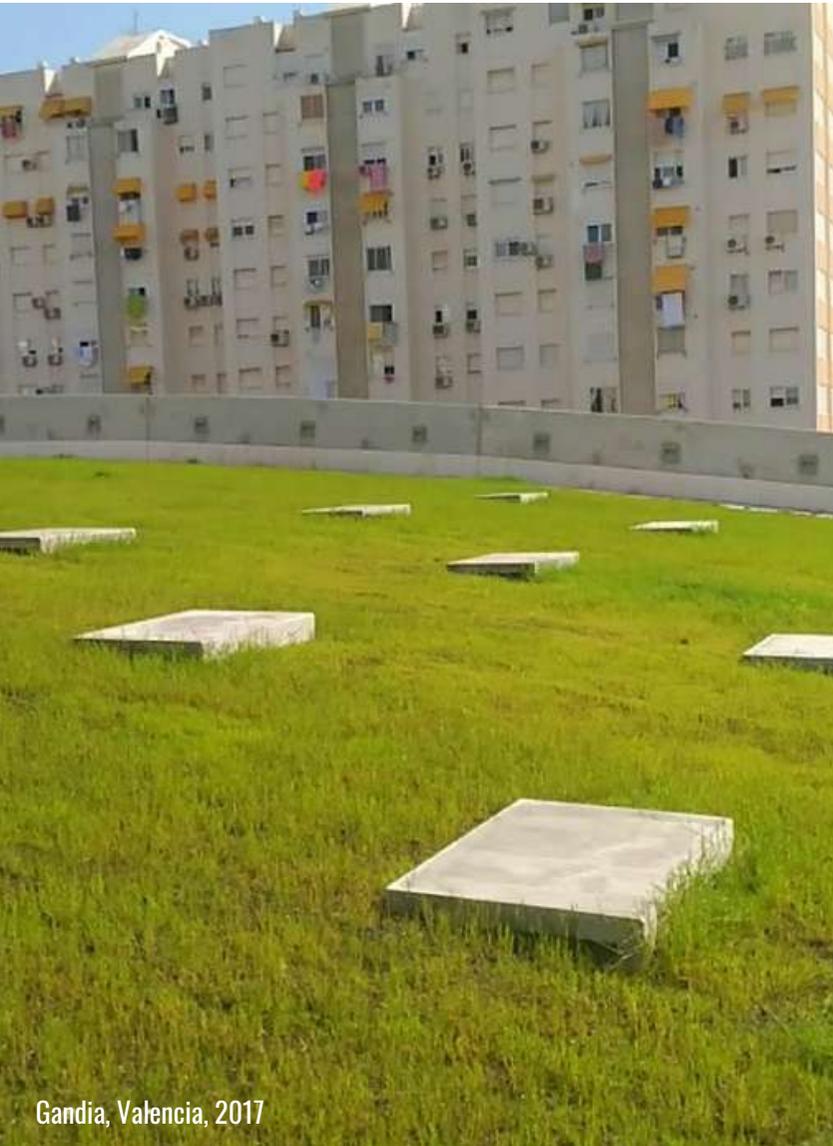


HUERTO

TYPE OF VEGETATION	Cespitose species	Especies de gramíneas	Especies de vivaces y arbustivas y huerto
PLANTING SYSTEM	Sod or seeded	Sod or seeded	Transplantation
TYPE OF SUBSTRATE	SG-CP type mixture	SG-GR Type mixture	SG-VS type mixture
THICKNESS OF SUBSTRATE	10 cm. + additional 2 cm layer of river sand.	15 cm. + additional 2 cm layer of river sand.	25 cm.
CLIMATE TYPE	Tropical (or dry climate with irrigation)	Adapts to all types of climate, depending on plant selection	Adapts to all types of climate, depending on plant selection

05

SPECIFICATIONS TECHNICAL



WEIGHT AT SATURATION: From 120 to 550 kg/m²

WATER STORAGE: 6 l/m²

SLOPE: 1-5%

DRAINAGE CAPACITY: according to ISO 12958: 10 l/(mxs)

COMPRESSION STRENGTH: 150 kn/m²

DURABILITY: lifetime warranty

Gandia, Valencia, 2017

**Versatile
system**

**Drip
irrigation**

**Extensive
vegetation options**



Gandia, Valencia, 2017



Finestrat, 2020

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.

FIRE RESISTANCE

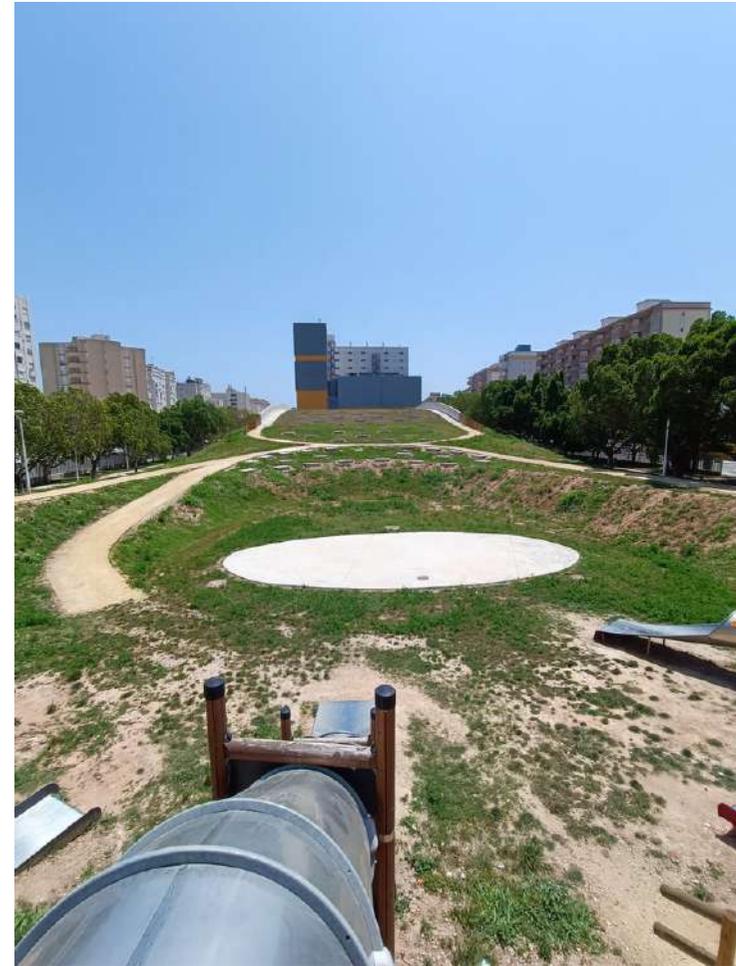
UNE-EN 13823:2012 +A1:2016

During the test, no sudden flames appear, no smoke from the sample that does not enter the collector is seen, and there is no distortion or collapse of the sample. No flaming droplets fall.

UNE-EN ISO 11925-2:2011

White, grey, scarce, and light smoke is observed. There is no persistent combustion or ignition points after the test. The samples are carbonized in the area of flame application.

SPECIFICATIONS



Gandía, Valencia 2017



Cubierta vegetal Santa Pola, Alicante, 2020

07

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

info@singulargreen.com

+34 966 282 640

+34 673 768 624

