



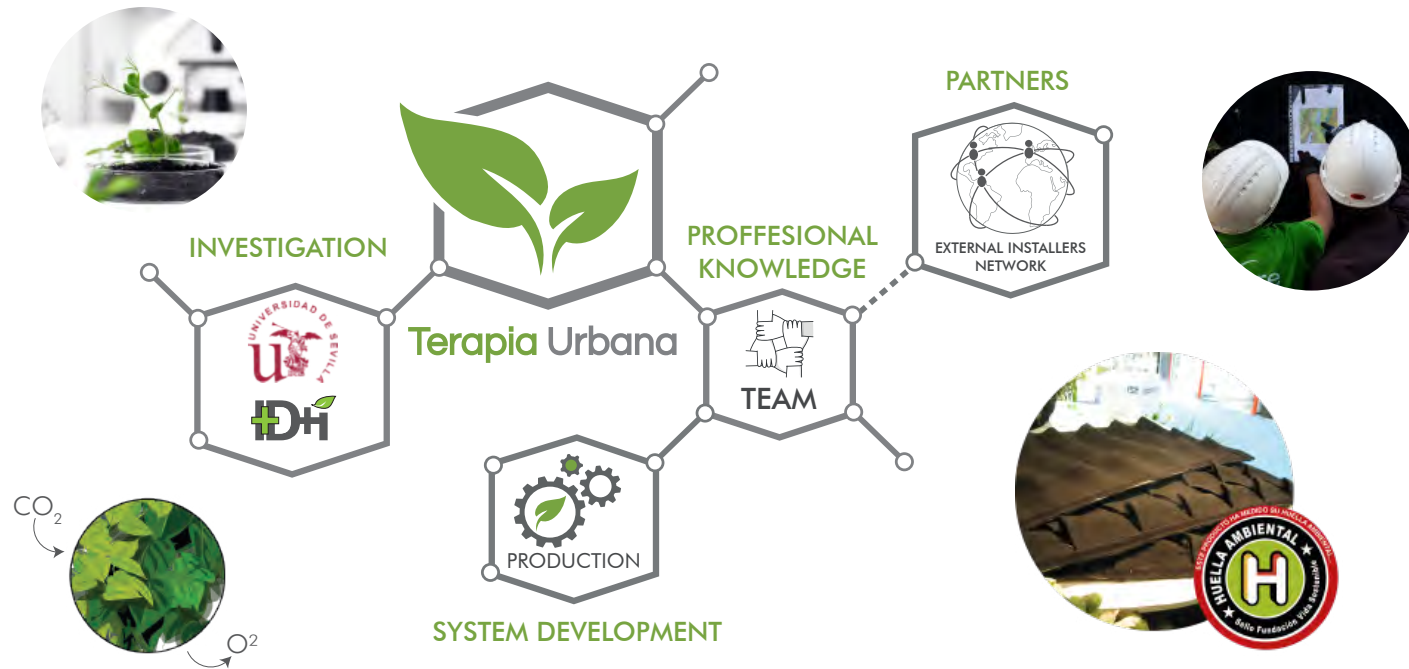
# Terapia Urbana

## CONSULTANCY DOSSIER



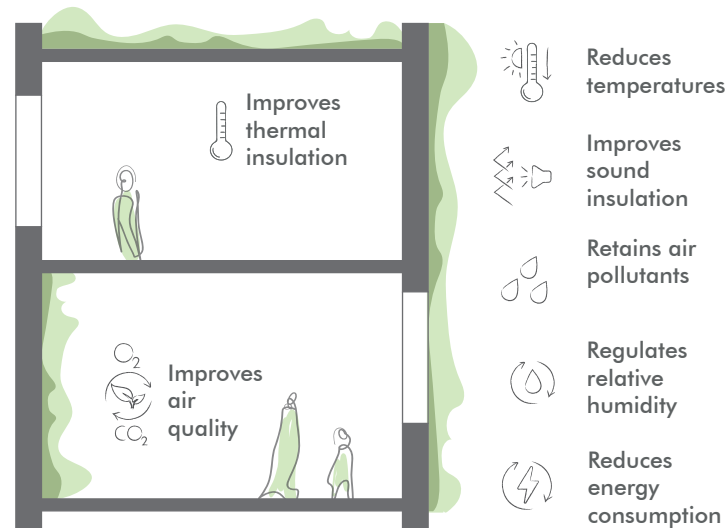


## TERAPIA URBANA - WHO ARE WE?



We are a spin-off of the Seville University and experts in the sphere of living walls and development of urban greening systems.

We actively participate in research to demonstrate the benefits associated with nature in the urban environment: fixation of NO<sub>x</sub>, CO, VOC, improvement of biodiversity, perception, etc.





## TERAPIA URBANA - OUR TEAM

We are a team of professionals who are experts in the development of naturation projects with experience in more than 25 countries, with more than 38,000 m<sup>2</sup> of living walls and green roofs successfully carried out.

Currently our team is made up of Dr. Agricultural Engineers, Architects, Landscapers and Designers, highly specialized in sustainable architecture, phytotechnics, sustainable landscaping and hydraulic engineering.



Netherlands



Poland



United Kingdom



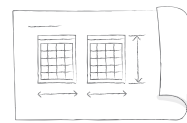
Switzerland



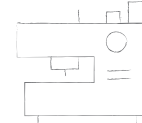


## TERAPIA URBANA - FYTOTEXTILE LIVING WALL SYSTEM

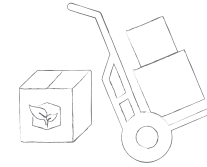
We have developed our own living wall system, Fytotextile®, patented and which has been implemented in more than 38,000 m<sup>2</sup>, in addition to the development of a luminaire with a spectrum suitable for plants and people.



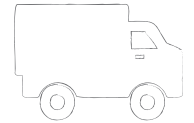
PERSONALIZED  
DESIGN



LOCAL  
PRODUCTION



PACKAGING  
ON SITE



DELIVERED FROM  
OUR FABRIC



 fytotextile®

Prevents water  
from irrigation



Allows an optimal  
water distribution



Improves aeration  
of roots



The optimized combination of Fytotextile® layers creates an excellent growing medium, by increasing the oxygenation of the roots and homogenizing the distribution of irrigation, without affecting the facade.

Fytotextile® is constantly evolving to implement improvements that meet the growing needs of a developing market.



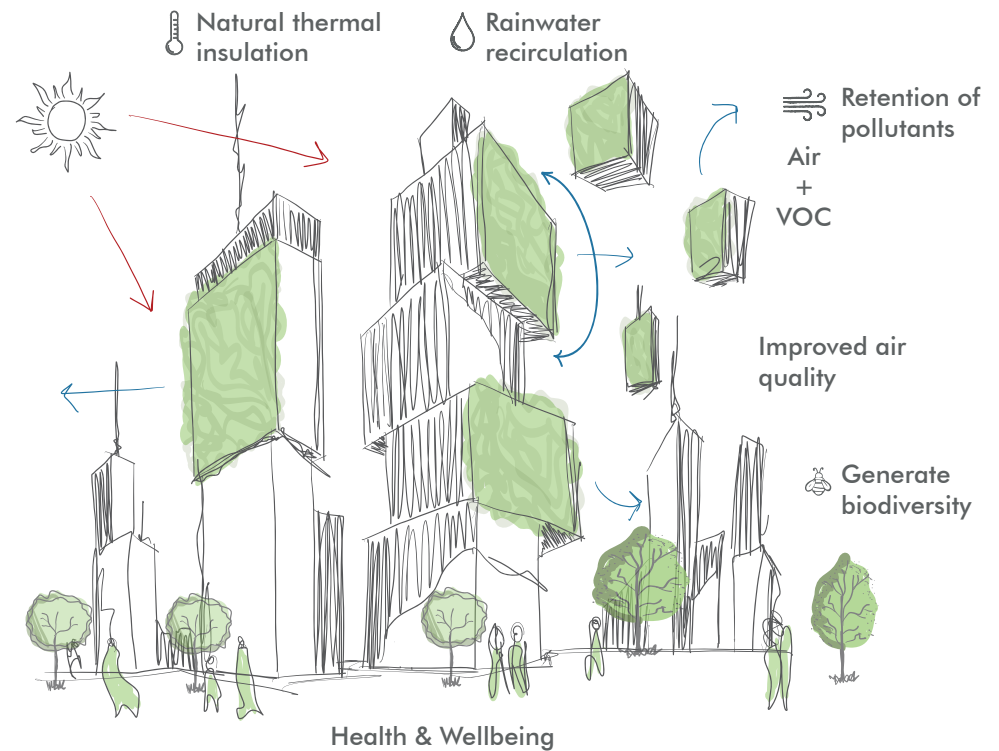
## TERAPIA URBANA - PROJECT CONSULTANCY

At Terapia Urbana we are experts in the design of solutions based on nature, and our main objective is to provide specialised advice to professionals, to incorporate nature into their projects in an appropriate way. We have experience in developing both, indoors and outdoors;

For outdoor projects, we study the exact conditions of the location, with a detailed microclimatic study to obtain the appropriate plant palette; We work on sunshine studies to know the hours of natural light at each point of the natured base element.

For indoor projects, we study the conditions of the space, the amount of direct and indirect sunlight, to obtain the amount of energy in PPFD levels for the plant, and design auxiliary specialized lighting system if necessary.

The combination of this information helps us define the position and species of plants, as well as helping with the design and integration of nature in the project.

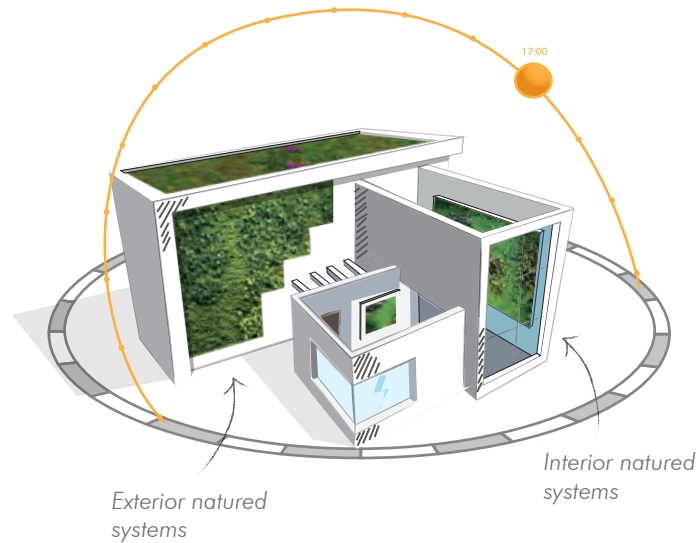




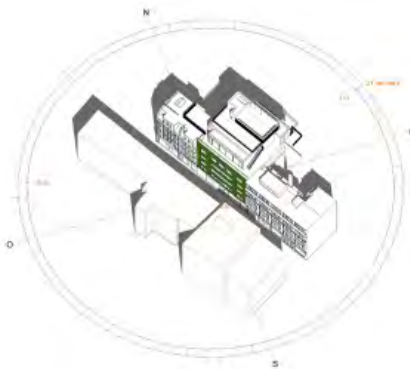
## TERAPIA URBANA - LANDSCAPE PROJECT DEVELOPERS

We develop interior and exterior landscaping projects with special attention to the inclusion of nature based systems in them to achieve:

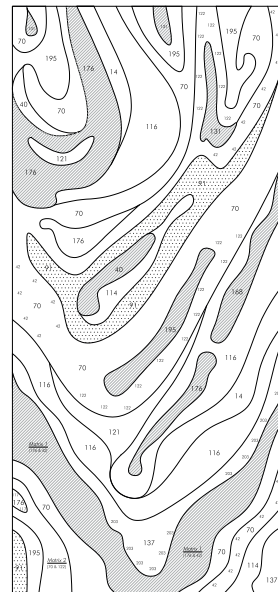
- Improvement of indoor air quality: selecting species that fix VOCs
- Improvement of outdoor air quality: selecting species with the capacity to fix NO<sub>x</sub>, CO, Pm 2.5, etc.
- Improvement of biodiversity



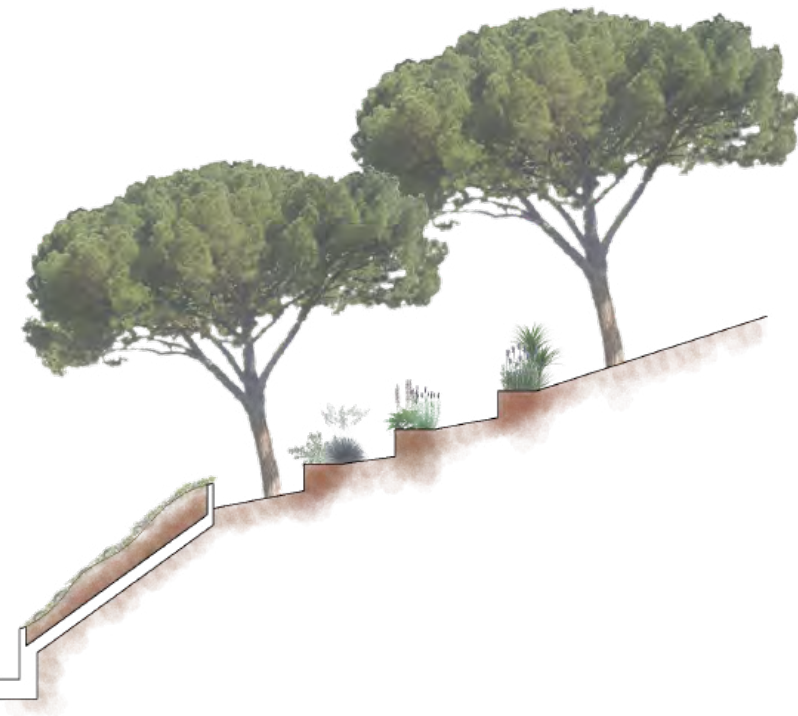
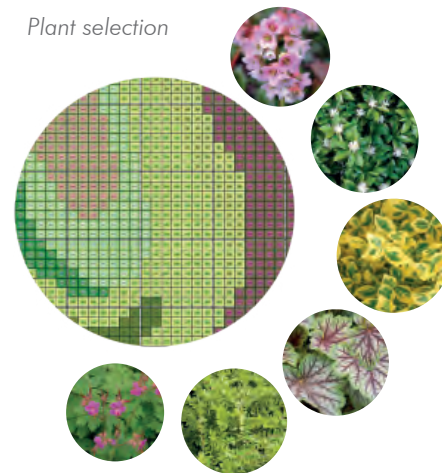
Sunlight study



Landscape design



Plant selection



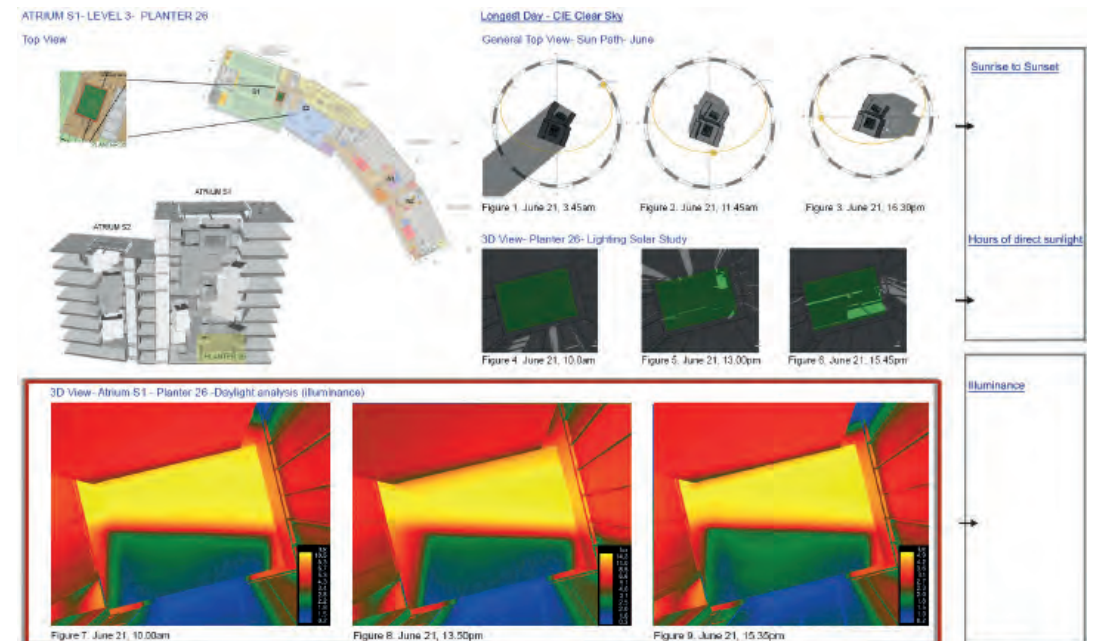
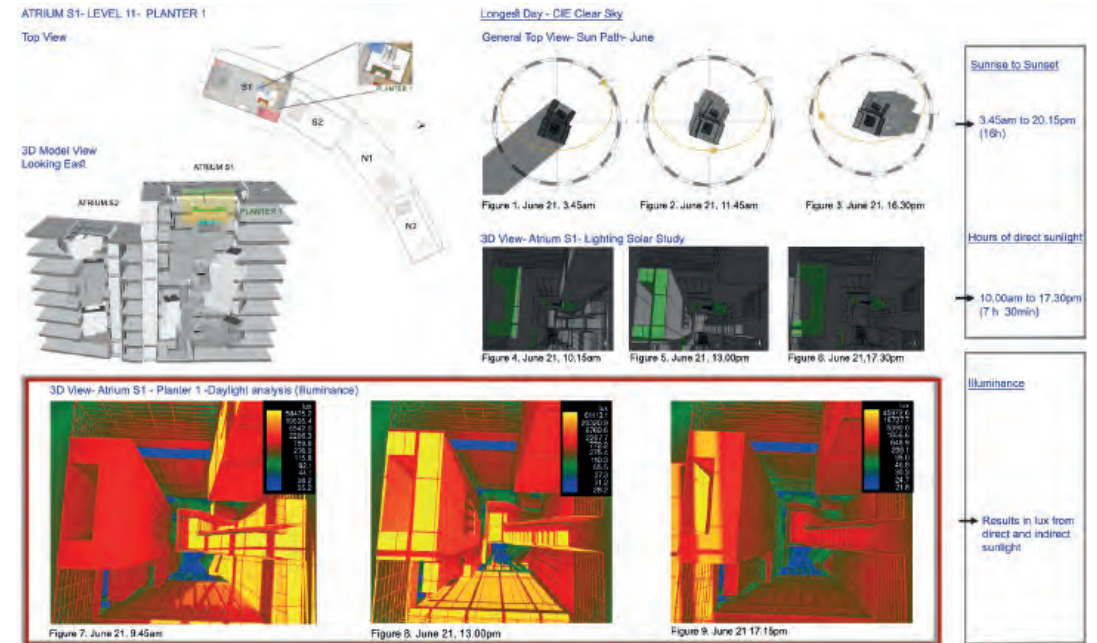
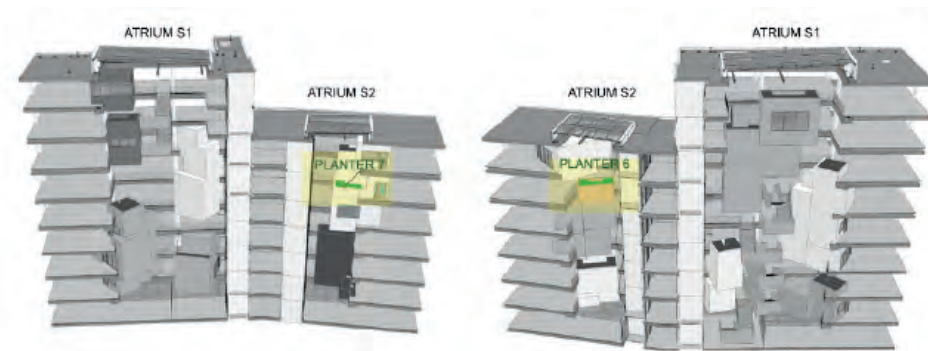






## CASE STUDIES - Facebook Offices

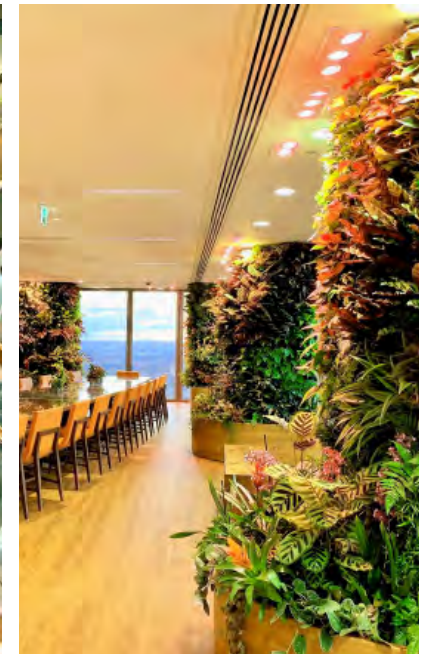
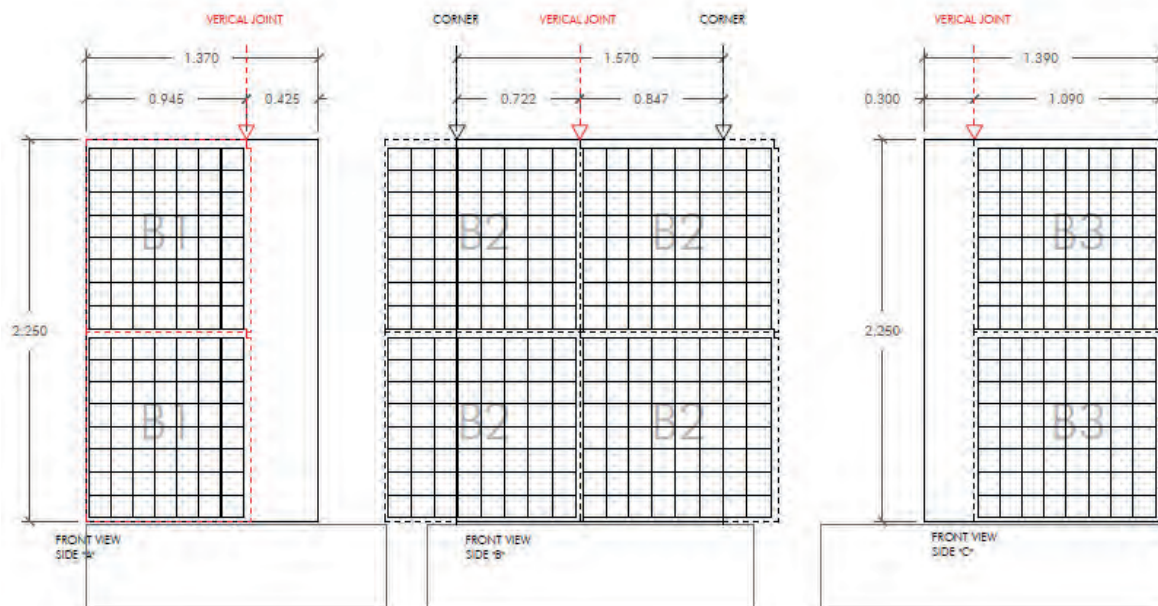
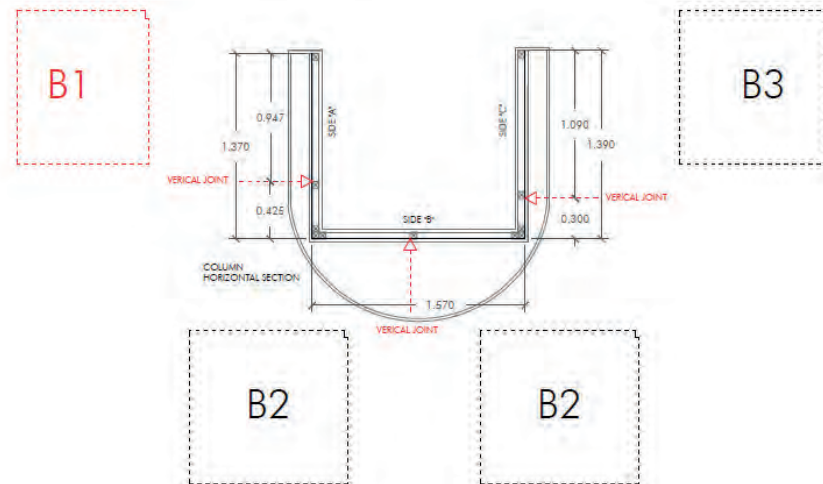
Terapia Urbana conducted a daylight analysis for Facebook, focusing on two central atrium's. The study pinpointed areas lacking in natural light, guiding the placement of supplemental lighting to support plant health. This initiative ensures a thriving indoor green space at Facebook's facilities.





## CASE STUDIES - Salesforce offices London

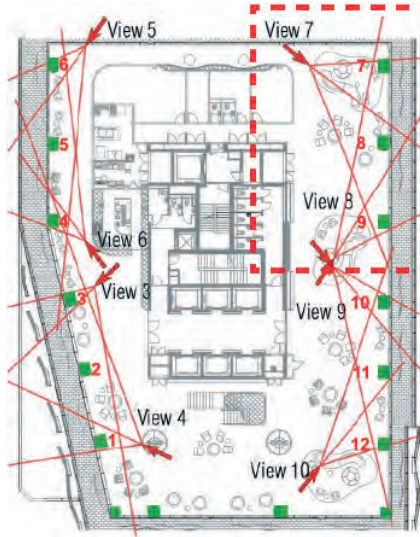
Salesforce London's project featured mobile living columns, designed to allow access to structural columns while incorporating greenery. These movable installations utilise a recirculating irrigation system and hydroponic planting beds, blending functionality with innovation.





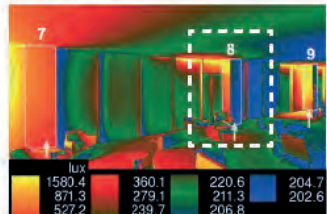
## CASE STUDIES - Salesforce offices Dublin

Terapia Urbana revolutionized Salesforce Dublin's workspace with an eco-conscious design that seamlessly integrated living columns into the building's architecture. This project involved comprehensive daylight and supplementary lighting analyses to ensure a thriving green environment. Special attention was given to crafting specialist irrigation and drainage systems for these living columns, which included remarkable double-height features, making the structural columns a central visual and functional element of the workspace. This innovative approach not only enhanced the aesthetic appeal but also contributed to the sustainability and well-being within the office. The project's excellence in design and sustainability was recognized internationally, earning it a prestigious design award.



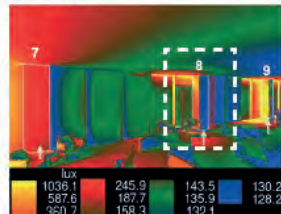
### SUNLIGHT STUDY

#### SUMMER



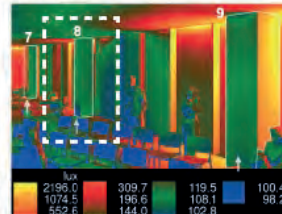
3D Model, 7th floor 4.00pm

#### WINTER



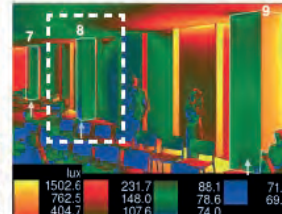
3D Model, 7th floor 2.11pm

#### SUMMER



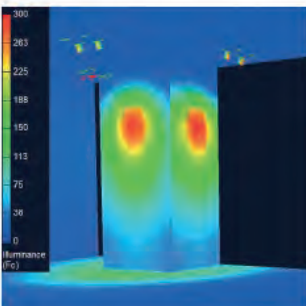
3D Model, 7th floor 4.00pm

#### WINTER

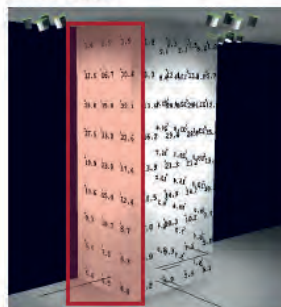


3D Model, 7th floor 2.11pm

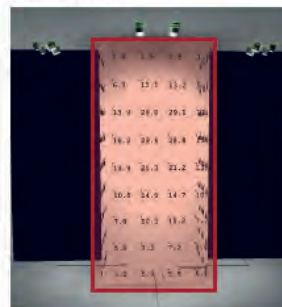
### AUXILIARY LIGHTING STUDY



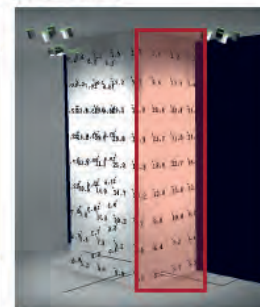
#### COLUMN SIDE 1



#### COLUMN SIDE 2



#### COLUMN SIDE 3





## CASE STUDIES - Hotel Facade, Cracow

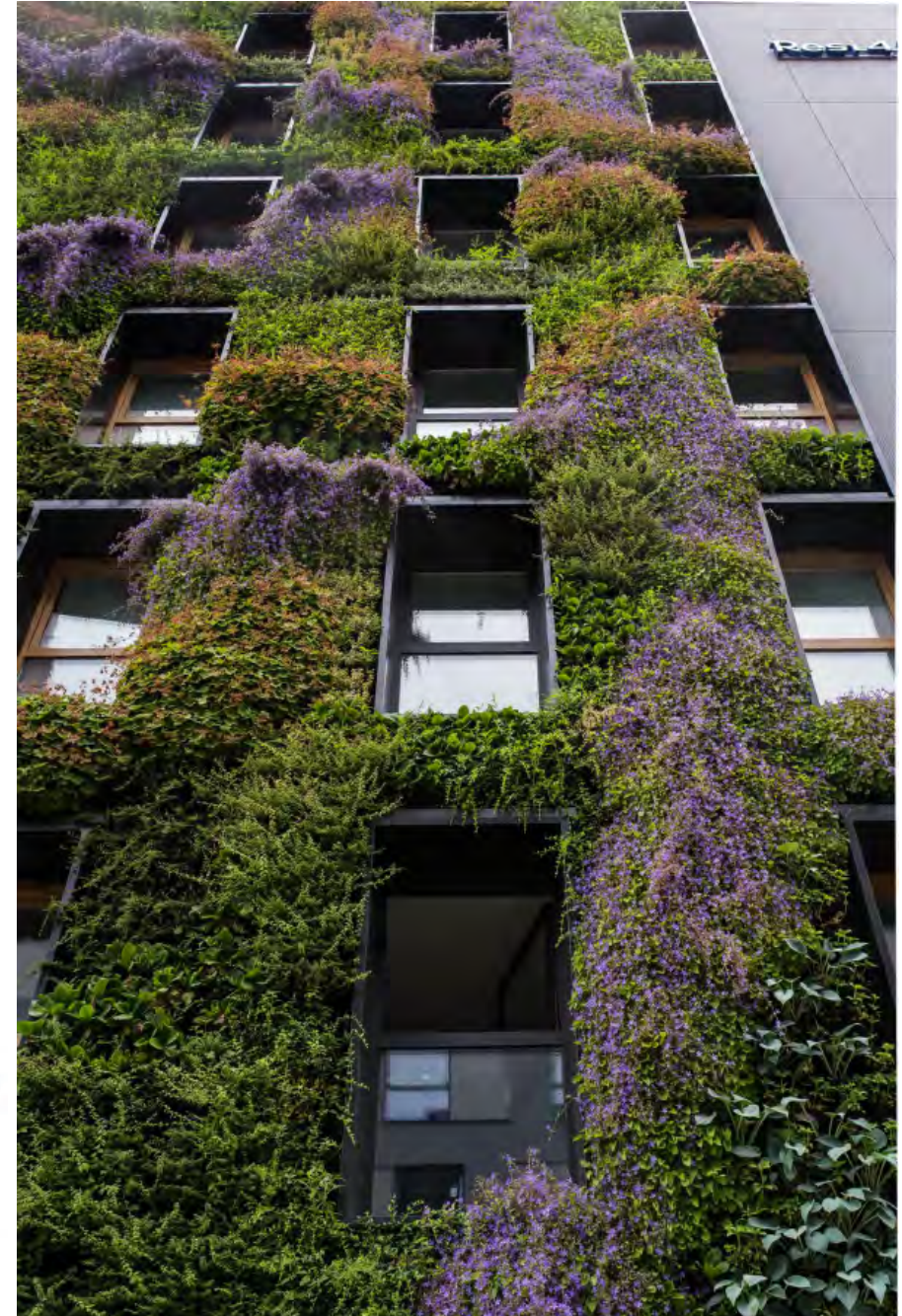
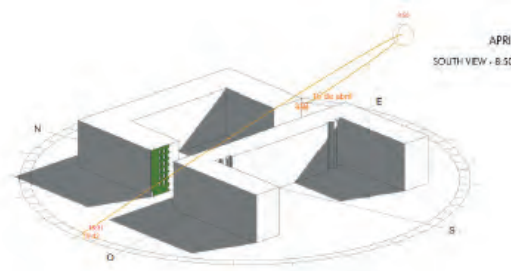
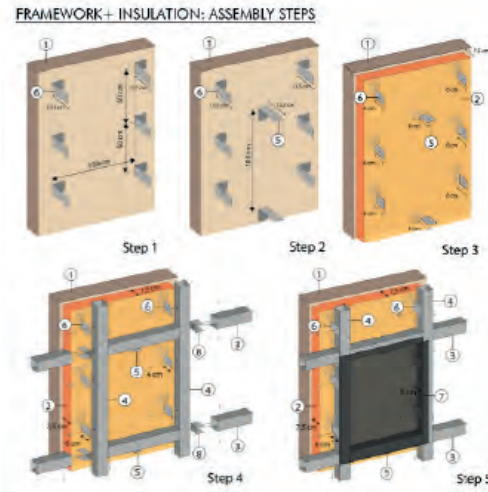
### Resilient Living Wall in Krakow, Poland by Terapia Urbana: A Blend of Innovation and Nature

In Krakow, Poland, Terapia Urbana has introduced a cutting-edge living wall that marries aesthetic beauty with ecological functionality, even in the face of the city's challenging winter conditions. This project leverages the patented Fytotextile system, designed to sustain plant life and greenery in urban environments. A critical component of the project was an extensive sunlight analysis to ensure that the selection of plants not only thrives in the varying light conditions throughout the year but also contributes to the thermal insulation of the building, enhancing its energy efficiency.

To combat the extreme cold, with temperatures dropping to nearly  $-20^{\circ}\text{C}$ , a smart irrigation system was integrated.

This system is key to the project's success, as it continuously monitors moisture levels and soil temperature, adjusting water delivery to maintain optimal plant health. This intelligent approach ensures the living wall's resilience, allowing it to flourish despite the harsh weather conditions.

The inclusion of plants with specific thermal properties further augments the wall's environmental benefits, acting as a natural insulator and reducing the need for artificial heating and cooling. Through meticulous planning and innovative design, Terapia Urbana's living wall in Krakow stands as a model for sustainable urban development, showcasing how green infrastructure can significantly enhance urban landscapes while supporting biodiversity and improving thermal performance.





## CASE STUDIES - Cuesta Picacho, Sanlúcar

In Sanlúcar de Barrameda's Cuesta del Picacho, a landscape rejuvenation project was undertaken for a deteriorating pine grove impacted by disease. The initiative focused on analyzing the affected area and proposing solutions, including the introduction of new, drought-resistant planting zones. The redesign also featured the creation of walkable paths lined with low-water-use planters and the addition of olive tree areas. A distinctive feature of vertical gardening marked the pathway's conclusion, enhancing the avenue's ecological and aesthetic value.



**Especies lineales de folio**

N. BOTÁNICO	DIÁMETRO FINAL	ALTURA FINAL	N. BOTÁNICO	DIÁMETRO FINAL	ALTURA FINAL
240. Yucca gloriosa variegata	Ø2.50	2.50	242. Euphorbia rigida	Ø0.90	0.64
247. Cordyline All. Pinnatifida	Ø1.00	1.50	202. Lavandula stoechas	Ø0.70	0.68
244. Acorus medio	Ø1.50	1.60	27. Nerium oleaceo (Star of Bower)	Ø0.40	0.30
238. Carex flaccida	Ø1.00	0.84	8.8. Dianthus barbatus	Ø0.80	0.50
239. Juncus pinnatifidus	Ø1.00	0.50			

\*Los diámetros y alturas representados corresponden con los formatos finales esperados de cada uno de los espacios.

**Especies ordinarias tipo 1**

N. BOTÁNICO	DIÁMETRO FINAL	ALTURA FINAL
240. Agave deserticola variegata	Ø1.00	1.50
247. Senecio jacobinifolius	Ø1.00	1.50
242. Argemone siliquosa (Star of Bower)	Ø1.00	1.50
243. Clematis integrifolia (Prostrata)	Ø1.00	1.50

**Especies ordinarias tipo 3**

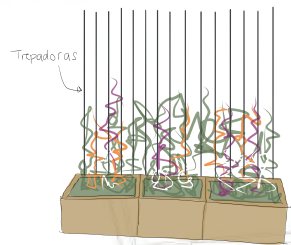
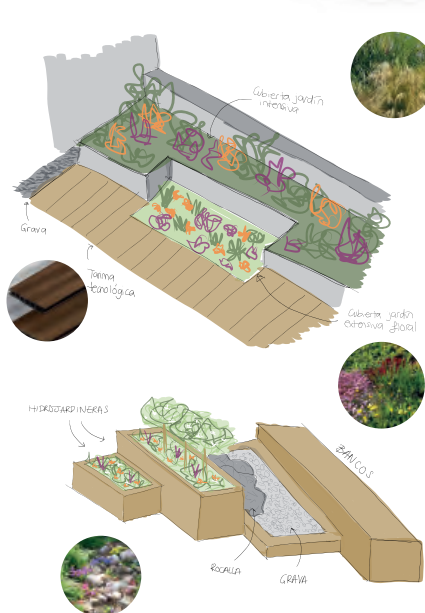
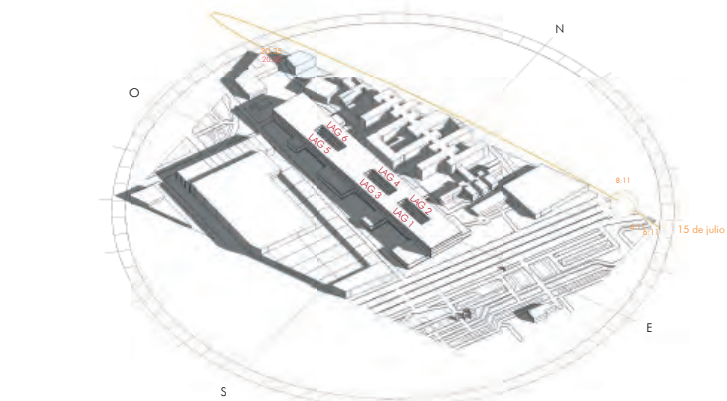
N. BOTÁNICO	DIÁMETRO FINAL	ALTURA FINAL
83. Aluefarctia compacta	Ø1.00	1.50
210. Medicago sativa (Soleira)	Ø1.00	1.50
243. Clematis integrifolia	Ø1.00	1.50





## CASE STUDIES - Diputación Provincial de Málaga

This project was launched to develop pocket parks and seating areas, revitalising urban spaces for relaxation and socialisation. These green havens enhance the cityscape, improving community well-being and environmental quality. Thoughtfully designed seating areas boost community engagement, integrating these spaces into the urban fabric.







**Terapia Urbana**

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