

PERGOLAS

WITH HYBRID TEXTILES BY DENVELOPS®

Modular and living architecture.

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architectural skins

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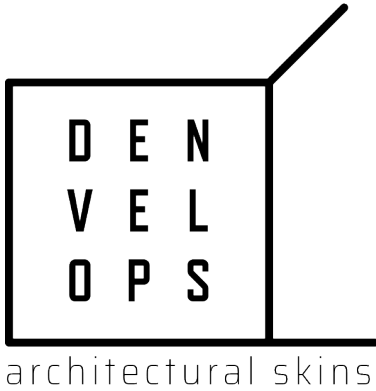
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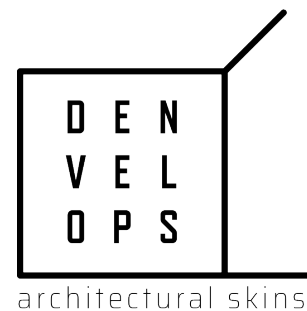
Introduction

At Denvelops®, we understand architecture not only as a matter of form or function, but as an experience that should excite, inspire, and enhance the lives of those who inhabit it. For this reason, we develop construction systems that are not limited to covering, but that dialogue with the environment, that react to the climate and that enrich the space without dominating it.

Denvelops pergolas are an extension of this vision: lightweight, modular structures, designed to offer shade and beauty, but also to generate an active connection with the landscape. In each piece there is an invitation to the play of light and wind, to comfort without rigidity, to elegance without weight.

This catalogue presents two structural systems – rigid or flexible – that can be combined with a wide variety of finishes, both material and functional (kinetic or static). They all share the same essence: sustainable, adaptable and completely customisable solutions, designed to transform patios, terraces, squares and urban spaces into more habitable, sensitive and memorable environments.

Denvelops® pergolas share, of course, the same DNA as the modular facades and roofs that inspired the beginning of this project and architectural challenge, which makes them the perfect complement to create continuous and matching architectural envelopes. Both systems share principles, materials and technical language, allowing their advantages to enhance each other and generate both aesthetic and functional synergies.



Jaume Colom Talló
Architect and Technical Architect
Founder of www.Denvelops.com

A new way of building

The construction of the 21st century demands solutions that are smarter, more efficient and deeply respectful of their context. At Denvelops® we are committed to industrialized construction and the principles of Lean Construction as pillars for a more honest, more agile and useful architecture. We work with prefabricated modular systems that are manufactured in the workshop and assembled on site with precision and cleanliness. This allows you to reduce times, control costs and avoid unnecessary waste.

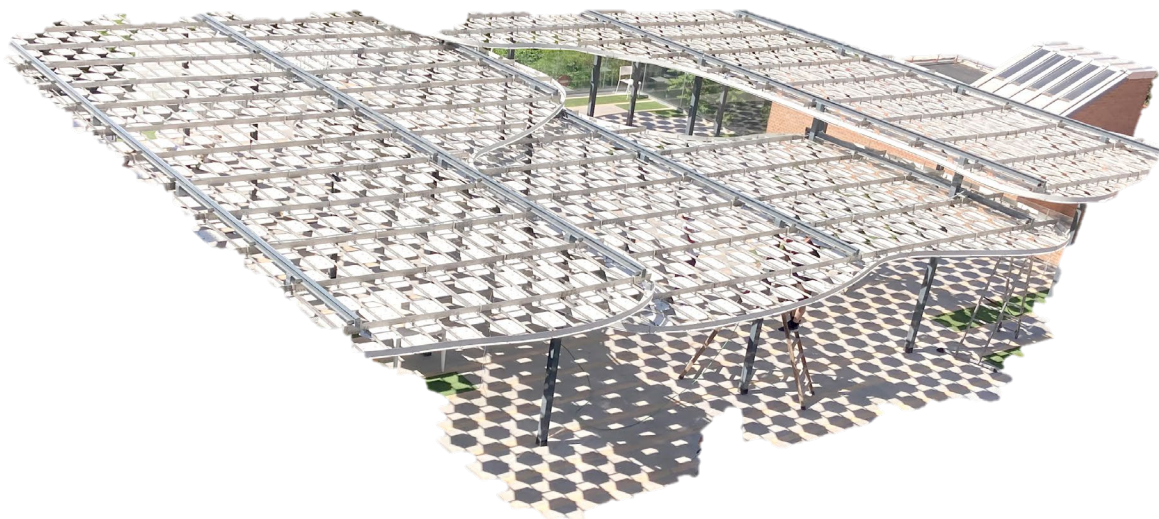
Denvelops pergolas are an industrialised system of light and openwork cladding, based on small-format tiles that move with the wind. These can be combined in different densities and patterns to adapt to the specific conditions of each environment, offering a sensitive, sustainable and highly adaptable architectural solution.



Key features



- **Progressive and transparent shadows;** It allows shadows to be generated with different levels of density, maintaining the visual connection between the public space and the upper floors. It easily adapts to existing urban elements such as lampposts and trees.
- **Durable materials;** All the components that make up the core and structure of the fabrics are made of AISI 316 Stainless Steel. The material of the platelets, whichever suits you best.
- **Reduction of wind loads;** The mobile elements are aligned with the direction of the wind, reducing the impact of perpendicular loads and allowing the use of lighter substructures, with fewer anchoring requirements to the ground or to existing elements (such as trees or facades).
- **Positive visual impact from all angles;** The tiles create natural and dynamic shadows on the ground while maintaining visual transparency, improving perception for both pedestrians and residents.
- **Modular support structure;** The system includes a base that also functions as a bench or element of urban furniture, creating rest areas under the shade generated by the structure itself.
- **Coverage of large spans;** The fabrics are based on high-strength braided steel cables, which allows to cover spans of up to 40 meters with total safety and stability.
- **Easy, fast and standardized installation;** The system is transported in layers and can be quickly installed with a crane truck and minimal technical personnel, even in large-scale assemblies.



Structural typologies

Develops pergolas adapt to the needs of each space through two main configurations:

- **Rigid Pergolas:** built with steel plates cut with CNC technology, these structures provide precision and solidity. They are ideal for permanent installations that require structural strength, customization, and strong architectural presence.
- **Flexible Pergolas:** made with braided steel cables, they allow large surfaces to be covered with a lighter, more adaptable and poetic system. They are perfect for reversible interventions, temporary events or spaces that evolve over time.

Both structures share a common logic: modularity, elegance and the ability to generate shade in an innovative way.

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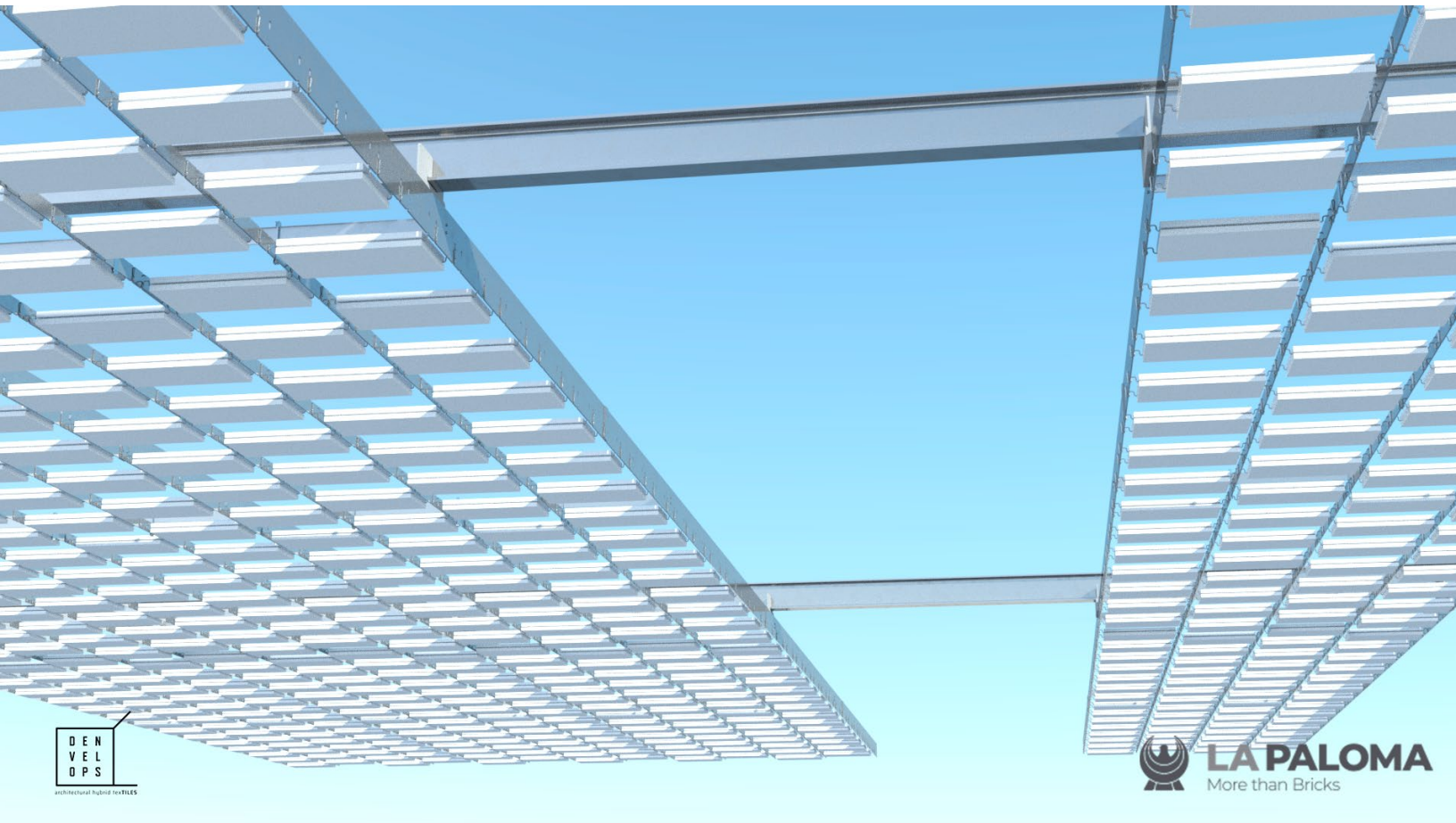
Sensory expression, finish and formats

Each project requires a unique language. That's why the Denvelops system offers a wide range of finishes, designed not only to stand the test of time, but also to talk to the place, to the light and to people.

The main finishes are made of thermo-lacquered metal platelets, available in kinetic versions - which move with the wind and generate moving shadow - or static, for a stable and orderly visual presence. In both cases, the surface becomes an architectural tapestry, a landscape woven with precision and beauty.

It is also possible to incorporate ceramic pieces, in small or medium formats, which add warmth, texture and a more artisanal character. They are ideal for heritage environments, sensitive interventions or to play with the contrast between the technical and the earthly.

There is a wide variety of formats that adapt to the specific conditions of each space. With widths of up to 2.40 metres and lengths exceeding 30 metres, they offer exceptional potential to fit projects of any scale.



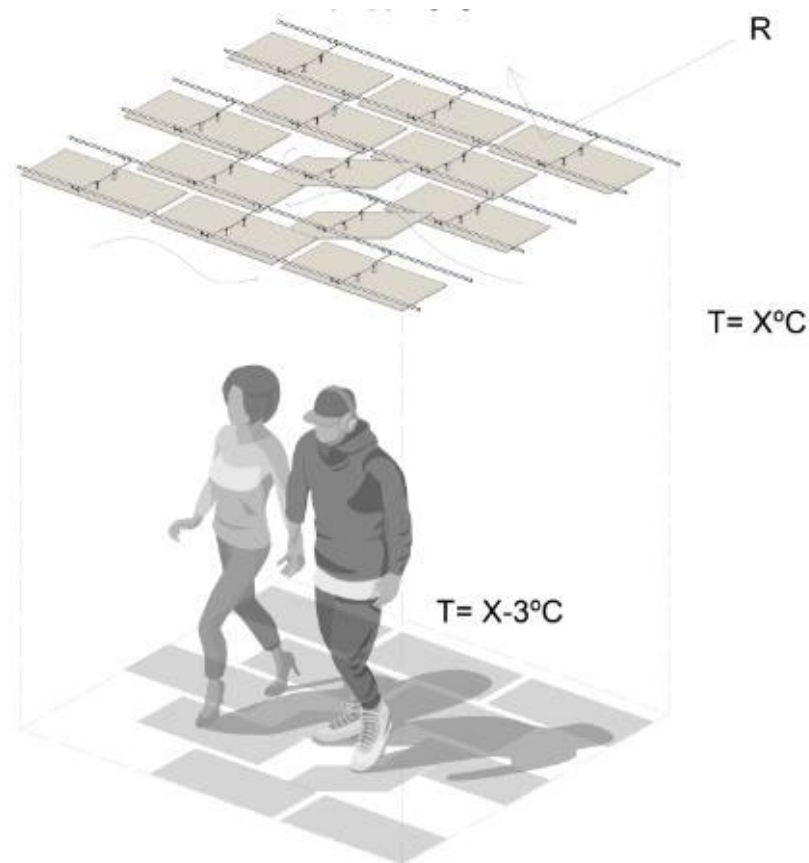
Climate comfort and environmental quality

Denvelops pergolas don't just protect from the sun: they create livable urban microclimates. The system has been designed from the outset with a climatic approach, providing passive solutions that improve comfort without the need for added technology.

Its main strategies are:

1. Reduction of direct solar radiation: up to 95% less solar incidence when platelets are arranged in maximum density.
2. Active solar reflection: the use of light colours on the upper face allows an SRI index above 70 to be achieved, reducing surface heating.
3. Natural ventilation: the moving parts allow air to circulate, dissipating accumulated heat and generating currents due to temperature difference.

These three conditions generate a cooler, healthier and more pleasant environment. Current measurements exceed 5 °C thermal reduction** compared to uncovered surfaces.



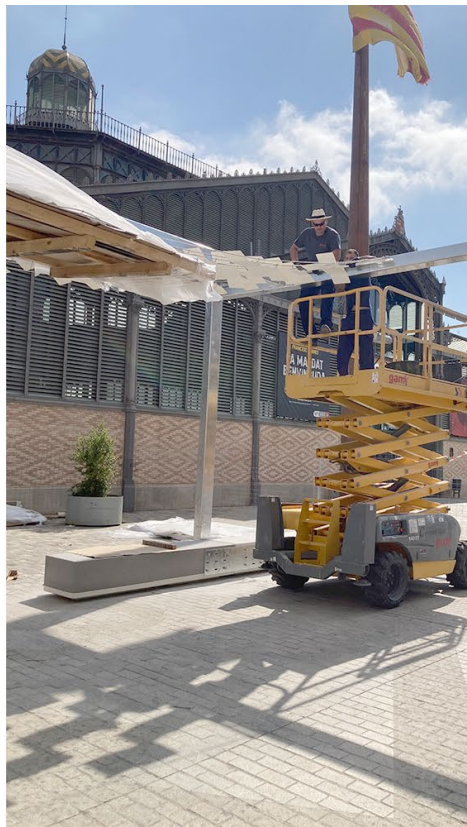
Quick installation, without construction or limits

The Denvelops system is designed to simplify construction, not complicate it. Its installation is clean, dry and fast, without the need for civil works or invasive fixings.

There are two main ways of mounting:

1. **Ballasted installation:** concrete bases are used to act as a support and as an urban bench. It does not require anchors or drilling, making it perfect for heritage spaces, public squares or ephemeral interventions.
2. **Installation on existing structures:** the system can be adapted to metal pergolas, facades or structural elements already built, provided that the load capacity is previously evaluated.

The entire system is 100% detachable and reusable, allowing you to change its position, orientation or even configuration as the use of space evolves. This versatility makes each pergola a strategic piece of agile urbanism. This approach minimizes inconvenience, reduces times and makes it feasible to install it in projects of any scale. This duality makes the Denvelops system an effective solution for both new construction and rehabilitation, without compromising design or technical efficiency.



Cost and Notes

At Denvelops® we understand that every project is unique. That is why we offer a modular system that allows you to adjust to different scales, needs and budgets without sacrificing design or quality.

The indicative costs by type are presented below:

Flexible System / Kinetic Finish (with movable platelets):

- Approximate price: From 180 €/m²
- Complete modular system with movable nose pads, lightweight structure and fixings.
- Initial density of 50%, adaptable to the context of the project.

Rigid System / Static Finish (with fixed nose pads):

- Approximate installed price: From 160 €/m²
- Fixed geometry, less maintenance, consistent aesthetics.
- Initial density of 50%, adaptable to the context of the project.

Notes:

- Installation cost from 20/30 €/m²
- Cost of additional ballasts or structures not included.
- Prices excluding VAT, adaptable to volume, finishes and logistics.
- Quick installation of up to 200 m²/day according to the characteristics of each project.
- Assisted assembly or installation by approved equipment.

A system designed to facilitate the work, adapt to the environment and guarantee efficiency from day one.



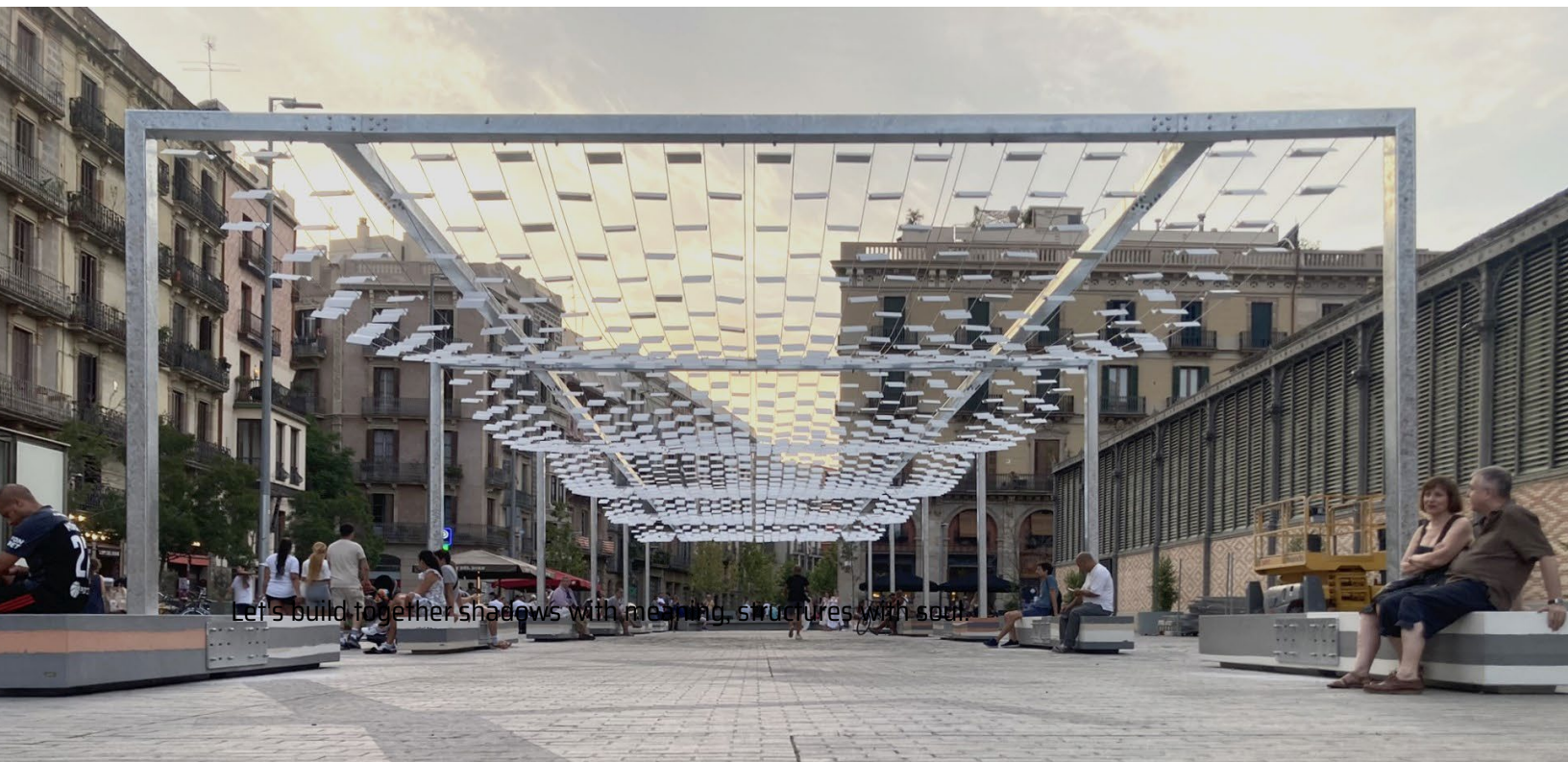
Do you want to transform your space?

At Denvelops® we don't sell products: we collaborate on projects. If you are looking for a construction solution that combines technology, beauty and lightness, we will be happy to help you.

We invite you to contact our team to receive a personalized proposal, adapted to your space, your needs and your ideas.

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Let's build together shadows with meaning, structures with soul.

