

**Ottagono<sup>®</sup>**  
GREEN ARCHITECTURE

# Ottagono by AD Dal Pozzo

## About us

# AD Dal Pozzo Group



# AD Dal Pozzo Group | Sites



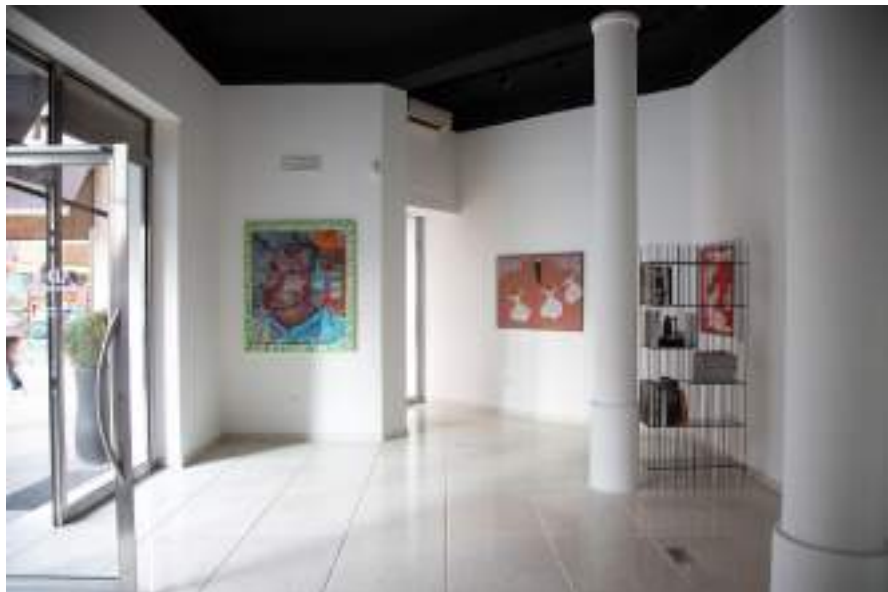
Showroom  
Grisignano di Zocco (VI)



Boutique  
Padova



Debox concept store  
Montecarlo



Art gallery  
Padova



Ottagono Headquarter  
Grisignano di Zocco (VI)

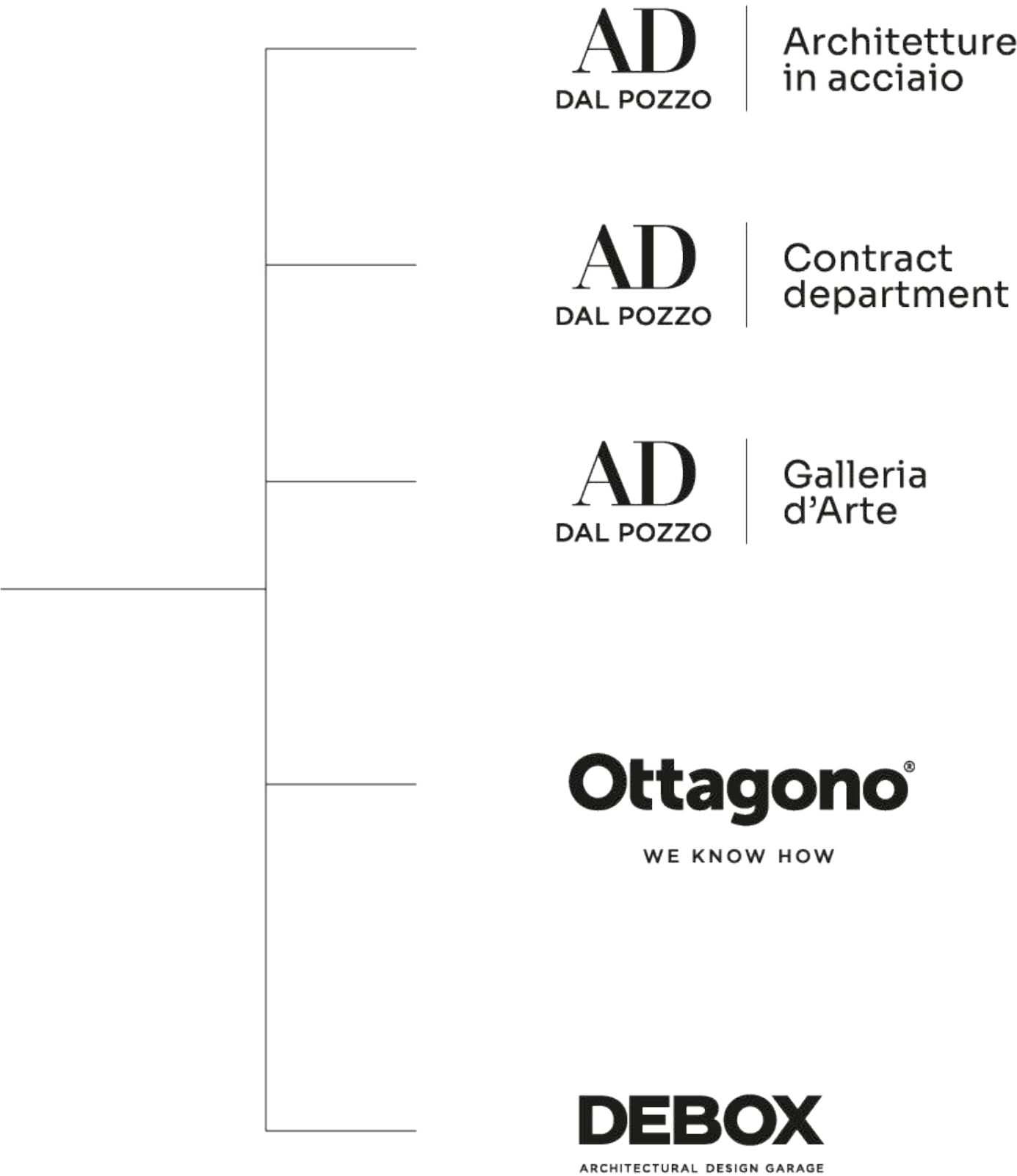


Ottagono Milano  
Via Marina, Milano





# AD Dal Pozzo Group | Divisions



**Ottagono**

Green tech & design

# Ottagono | Profile



**Ottagono wants to create  
high-design buildings with a  
sustainable approach**

## **Mission**

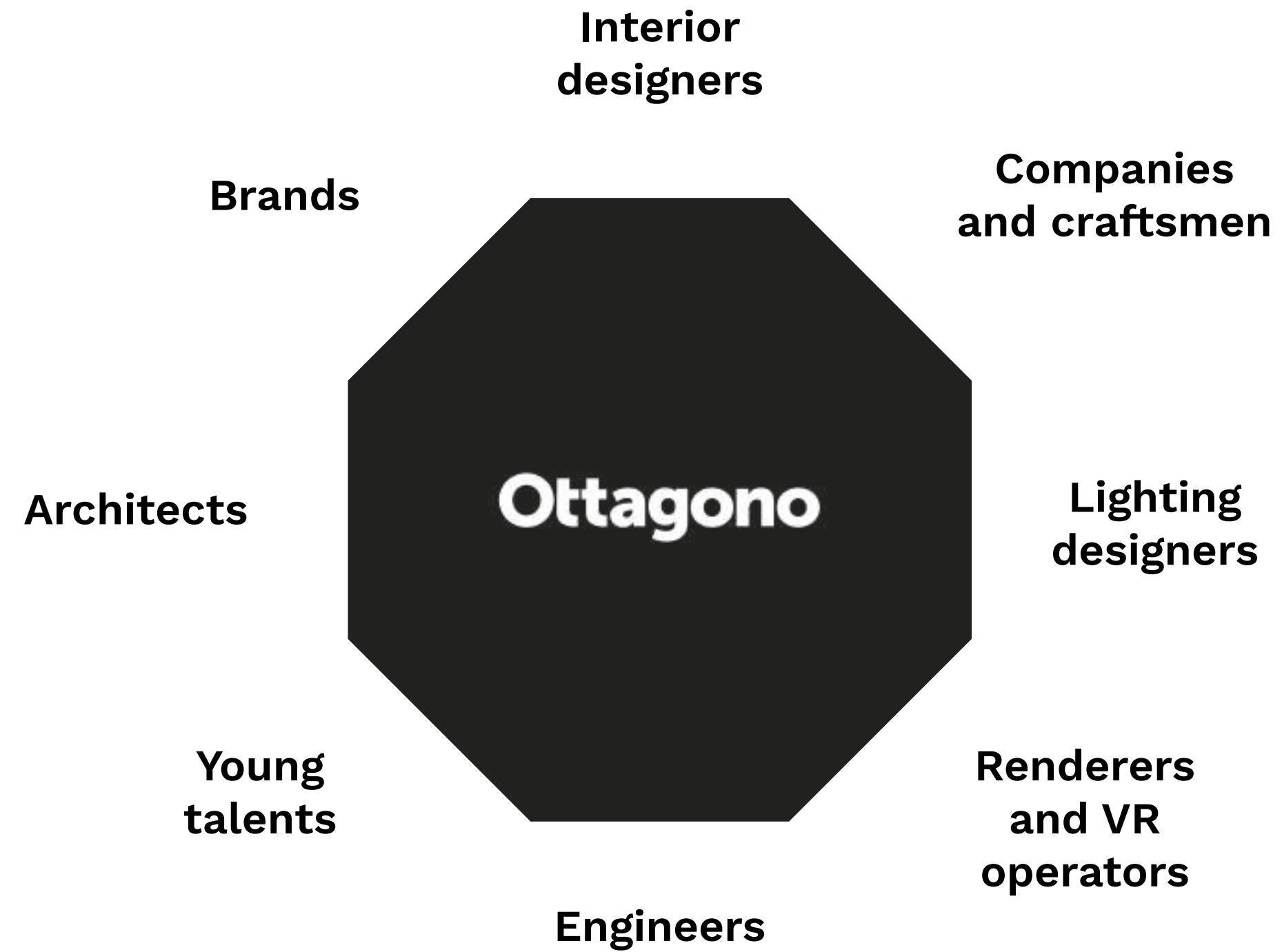
To be a meeting point between professionals and brands, promoting research and education on green technologies to put them into practice in high-end architectural projects.

## **Vision**

Providing professionals with the know-how and green technologies to innovate the architecture industry and improve people's lives.



# Ottagono | Professionals network





# Ottagono | Services



## Research center with Materioteca + Sustainable steel building technology

We offer the tools to build buildings in which it is possible to live better, with more comfort, more energy sustainability.

- Material library where you can try materials and meet specialized professionals
- Know how on Light Steel Frame technology, lightweight, sustainable, high-performance



# Ottagono Academy | Professional training



## Project Culture

+

## Professional training credits

Architecture and design events focused on the discovery of new approaches to design, with the aim of disseminating the sector's technological evolution.

- Training credits for CNAPPC professional development.
- Lectures and meetings with major figures in the field (ex: architect Tobia Scarpa, pictured left)



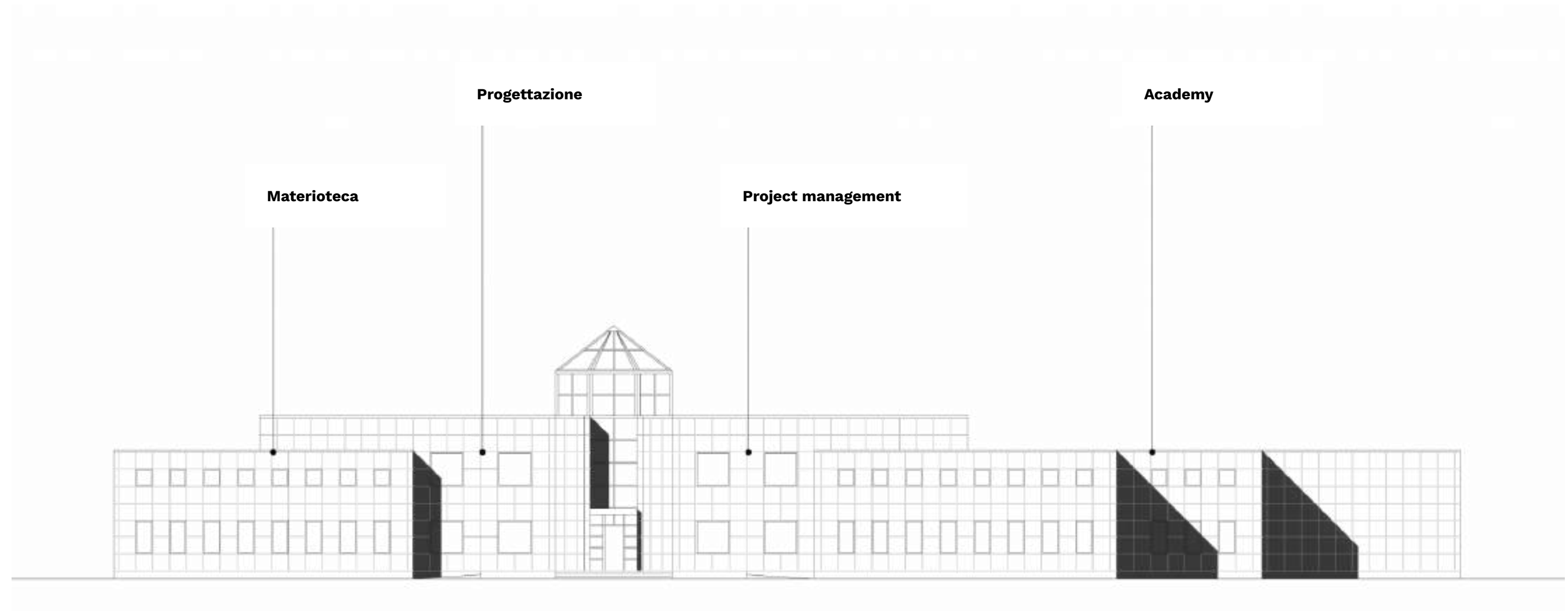
# Ottagono Design Lab | Training for new talents



## The training course

In addition to the Ottagono Academy dedicated to professionals, Ottagono is committed to bringing out new talent with the Ottagono Design Lab, a new interior design training course for unemployed young people ready to enter the job market.

# Ottagono Headquarter



Via Alcide De Gasperi 82 | Grisignano, **Vicenza**



# Ottagono Headquarter



# Ottagono Milano



Casa Bassetti, Via Marina 3 | **Milano**



# Ottagono Milano

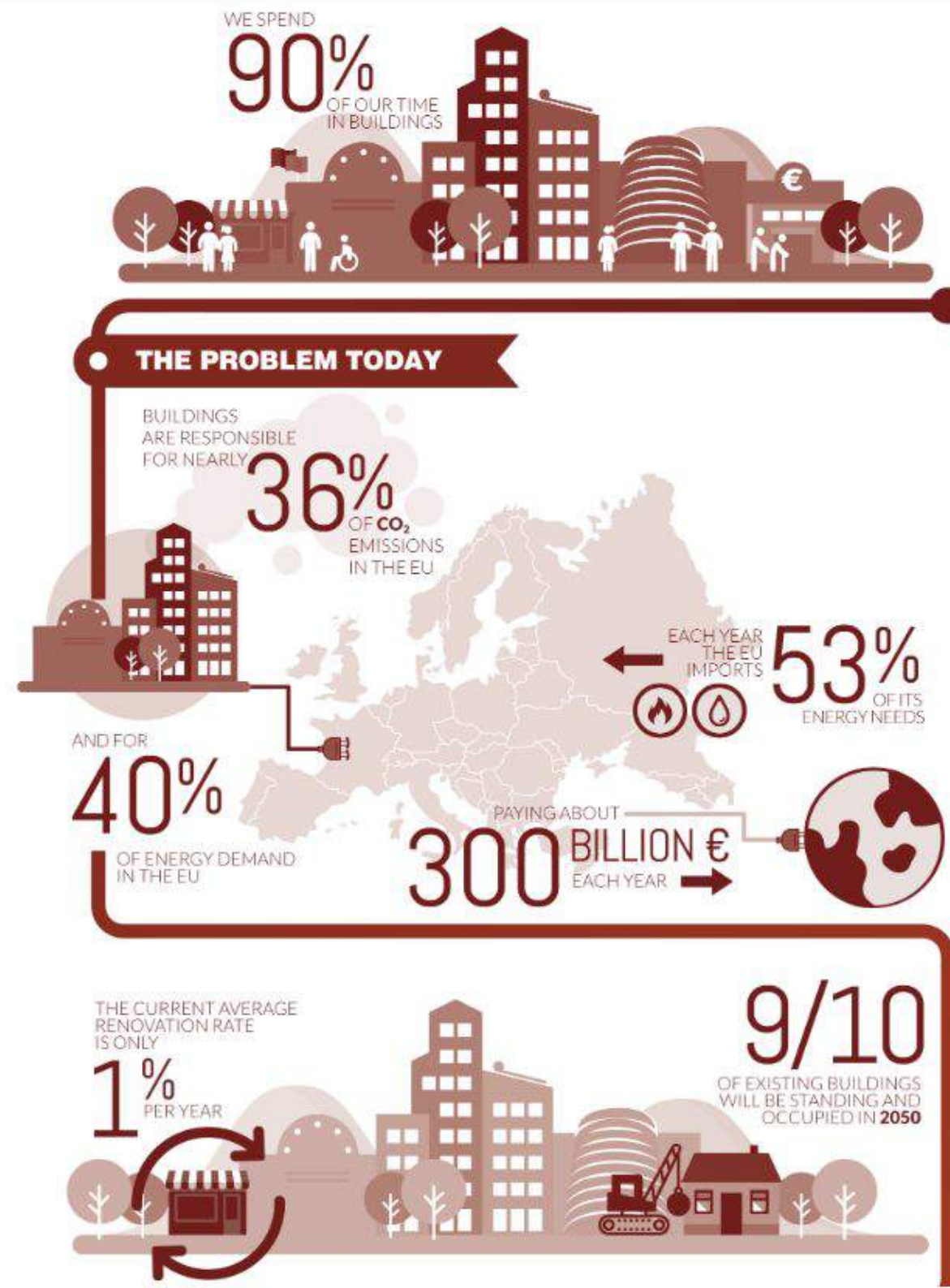


# Ottagono

## Steel & Architecture



# Ottagono | Architecture research centre



## What's the future of architecture?

Approximately 40% of energy consumption and 36% of CO<sub>2</sub> emissions in the EU are related to the construction sector, making this industry the largest consumer of energy in Europe. The greatest share of consumption comes from the cooling/heating of residential and non-residential buildings. In addition, the construction sector accounts for a massive use of materials and the production of waste.

# Cold-formed steel | A history of success



In Europe Jean Prouvé began in 1930 to design the uses of bent sheet metal even before he had a bending machine, which, with the help of an engineer friend, he would found and develop in the workshops of boilermakers and tinsmiths. He processes cold sheet metal for his famous Maison Tropicale.

In Japan, light steel frame was used as early as the 1950s for post-war reconstruction. In 1959 Mizet was born: it was prototype of the prefabricated steel house.



A great impetus was given by the pioneering studies conducted by Richard Buckminster Fuller in the U.S. in the 1950s. His phrase, "There is no energy crisis, only a crisis of ignorance," encapsulates his thinking, which was to seek innovation for a 100 percent efficient universe that would save matter, energy, and effort. The Wichita House project shows technical expertise and the ability to manage industrial processes.

The work of Glen Murcutt – Pritzker Prize winner in 2002 – constitutes one of the pinnacles of architecture in Australia. The 1984 Magney House is a prime example of the versatility of steel and how the system can be perfectly integrated with all kinds of materials.

In Italy, several researches have been initiated, such as those conducted at the Federico II University of Naples and at the Iuav University of Venice, led by Prof. Maria Antonia Barucco.



# Cold-formed steel | Ottagono's research



## Towards sustainability

The EU has earmarked one third of the 1800 billion Euro planned investment in the 'Next Generation EU' recovery and resilience plan for environmental sustainability. In order to ensure environmentally sustainable growth, it is necessary to innovate architecture through the use of materials that enable both energy efficiency and recyclability during disposal.

# Cold-formed steel

**1.**

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## **Innovative design**

The structure is designed in BIM and assembled off-site with dry technology. The construction site is efficient, clean and fast.

**2.**

---

## **Environmental sustainability**

The structures used are 100% recyclable and leave no waste for disposal.

**3.**

---

## **Architectural flexibility**

Thinner walls and longer spans of steel beams ensure fewer pillars and the expansion of open spaces.



# Cold-formed steel

**4.**

---

## **Fast construction**

The engineering of the components makes assembly quick. The lightweight steel buildings are ready for use by the agreed date.

**5.**

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## **Energy efficiency**

Thanks to steel, structural mass is reduced and leaves room for innovative insulation materials.

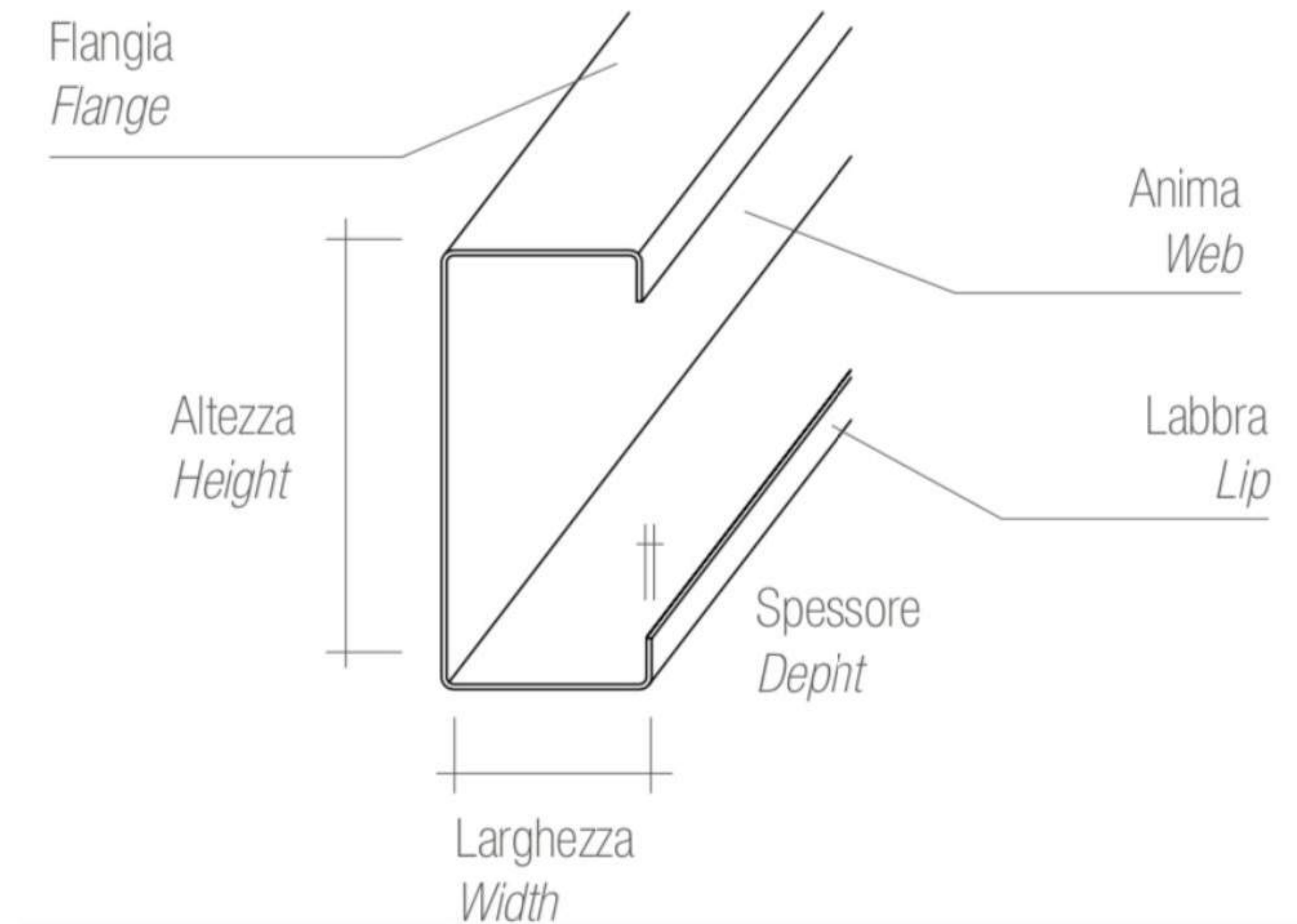
**6.**

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## **100% earthquake proof structure**

The lightness of steel-framed houses translates into reduced seismic force and therefore greater safety.

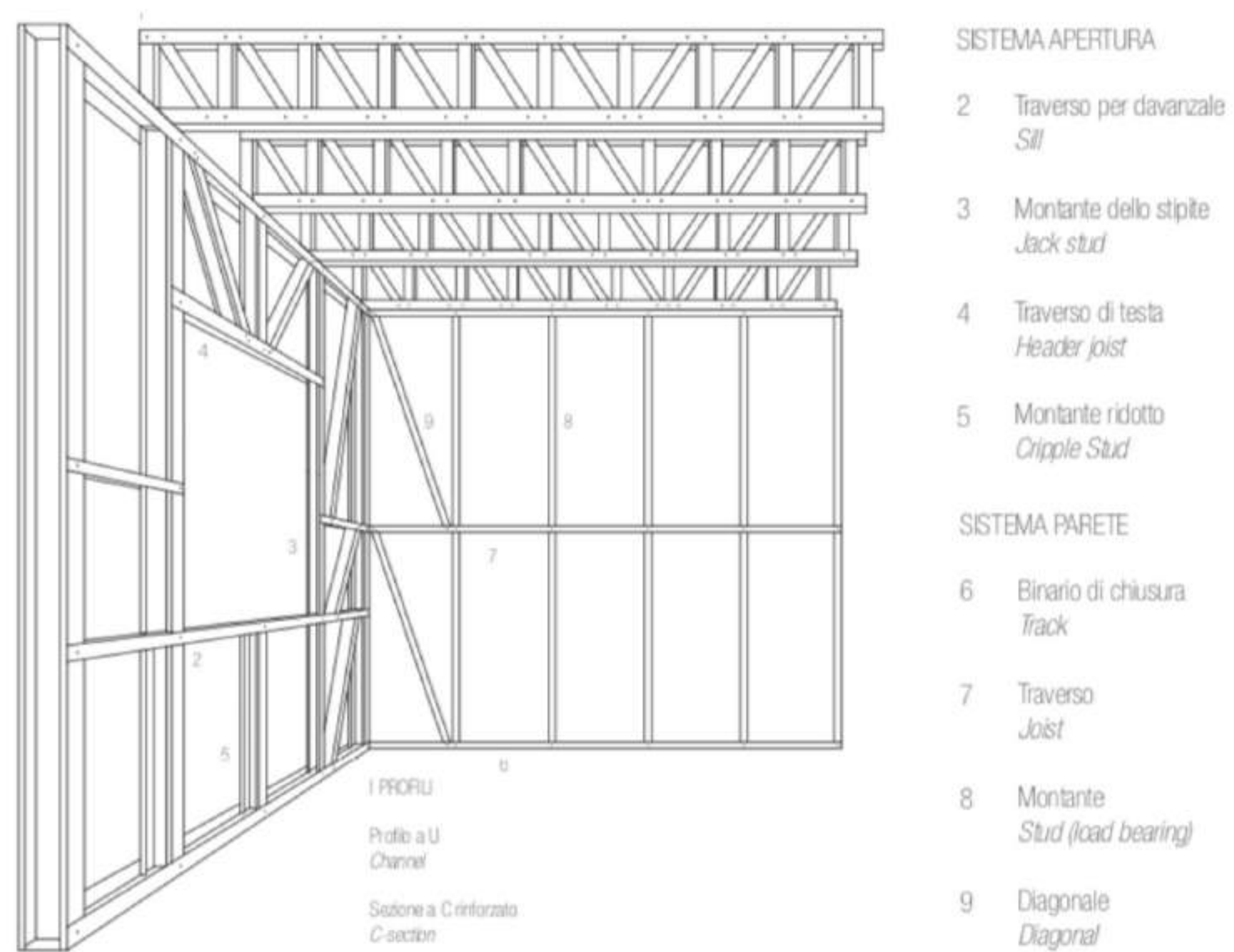
# Cold-formed steel



## Innovating architecture

The cold-formed steel design and construction system offers itself to radical innovation of the present time: it shifts the time of the architectural development from the construction site to the project.

# Cold-formed steel



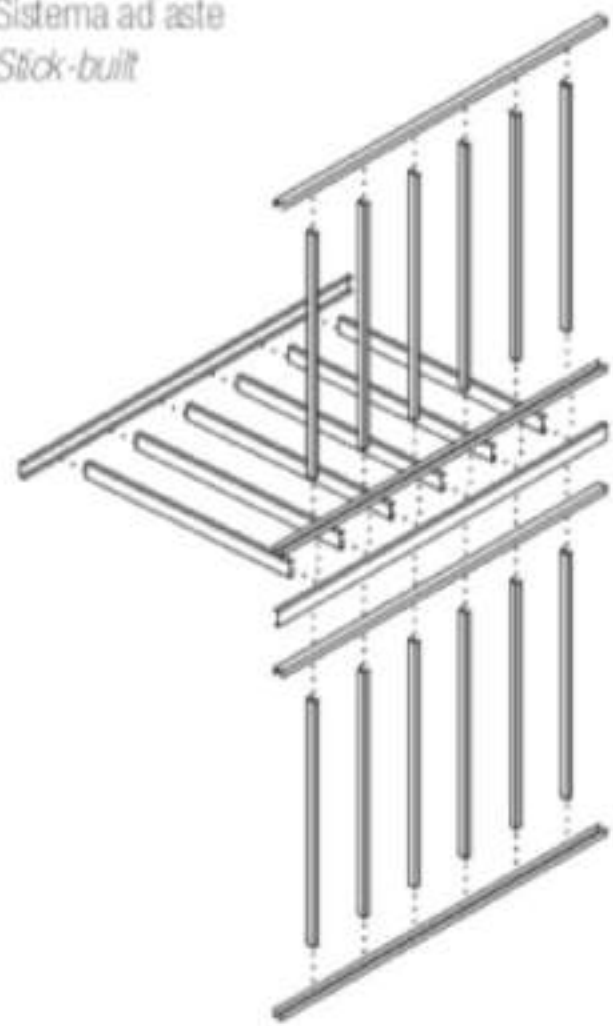
## Steel as “system”

The choice to use cold-formed steel not only influences the calculation of the structures but is a real construction system and for its realisation is essential to develop a high-precision project, which allows the control of all the elements that will be used.

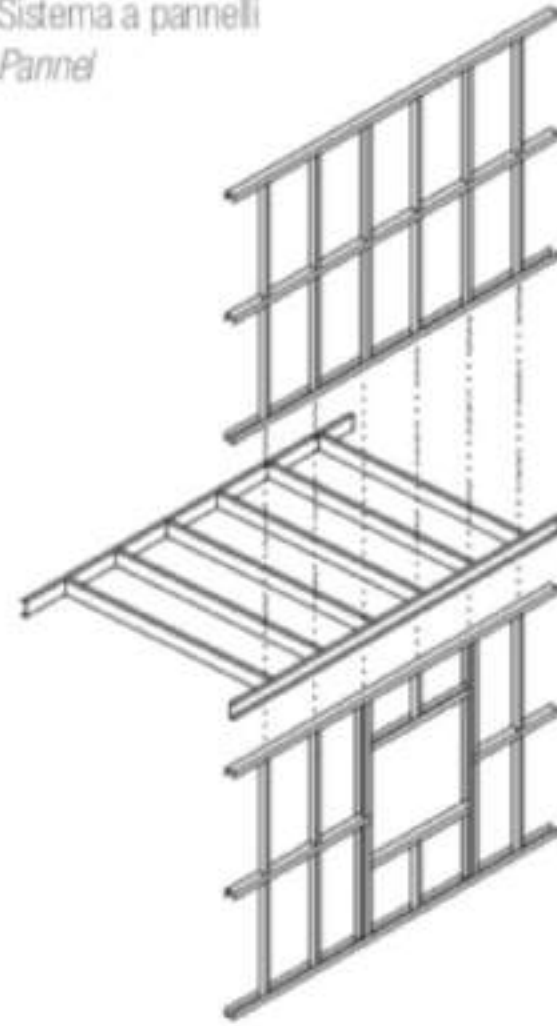


# Cold-formed steel

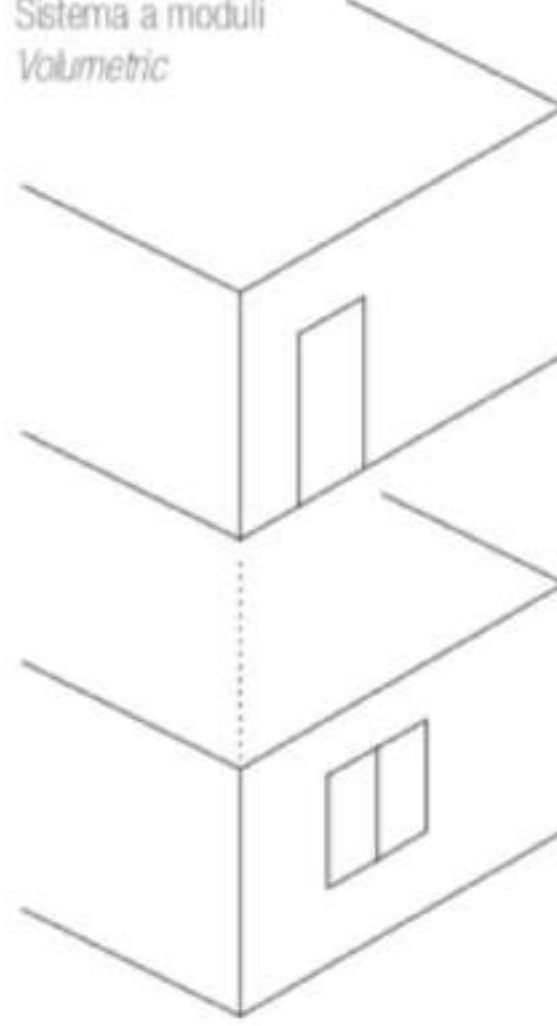
Sistema ad aste  
*Stick-built*



Sistema a pannelli  
*Panel*



Sistema a moduli  
*Volumetric*



## A flexible system

The Light Steel Frame construction system is a unique technology that excels in precision, flexibility and construction freedom, but also for the speed in terms of execution and logistics, which are proper to an industrialised process.

# Cold-formed steel



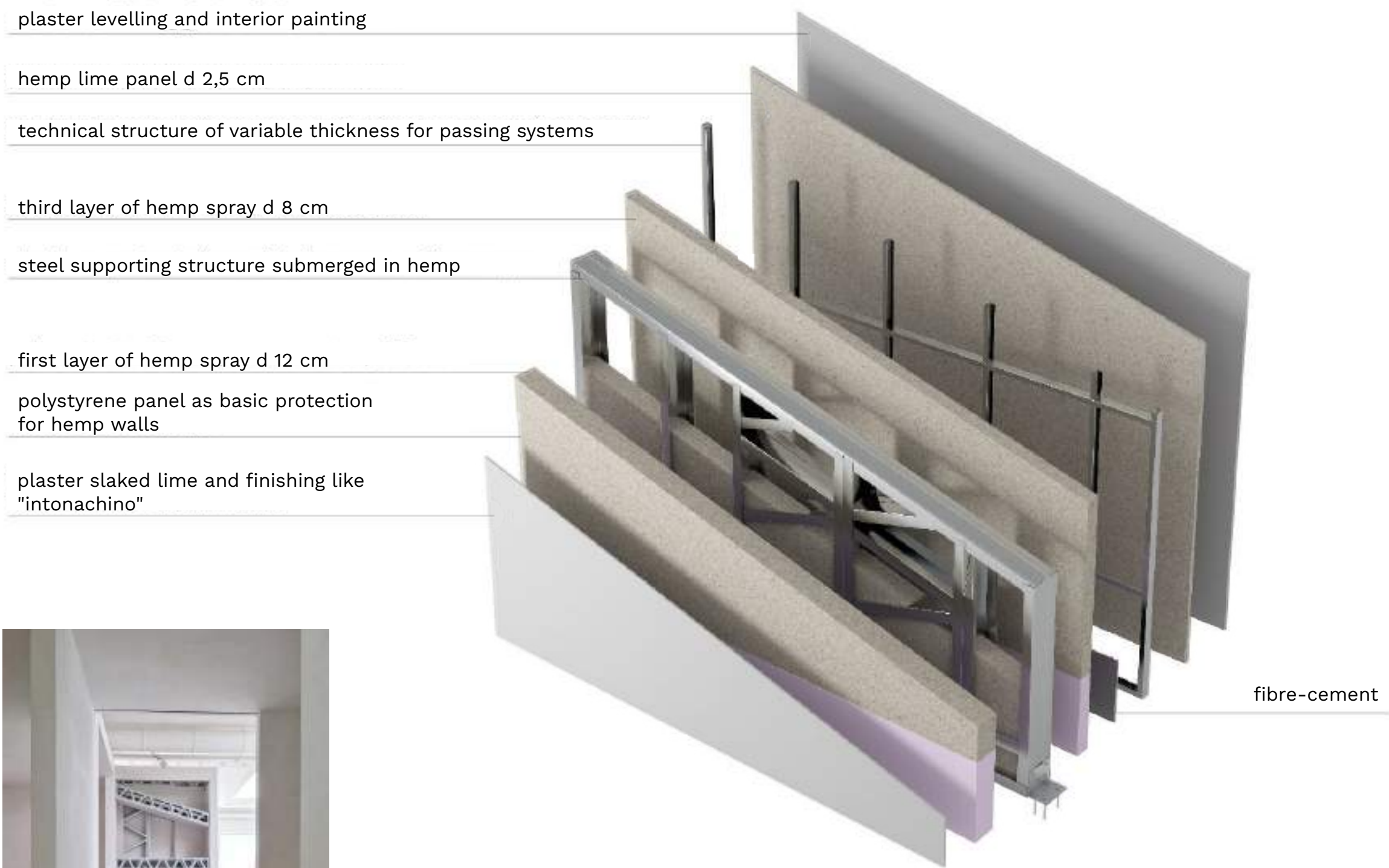
## **An industrialized system**

Cold-formed steel sections derive from metal folded sheets. The production and implementation of lightweight frames allow to design buildings with the same level of detail as in the industrial design of products on demand.





# Cold-formed steel and technohemp



## Neo-materials for bio-architecture

The versatility of the steel allows the structure to be combined with desired coatings and with the most performing and sustainable materials. The Ottagono research has opened new frontiers for the integration of revolutionary components such as technohemp.



# Cold-formed steel | Ottagono's proposal



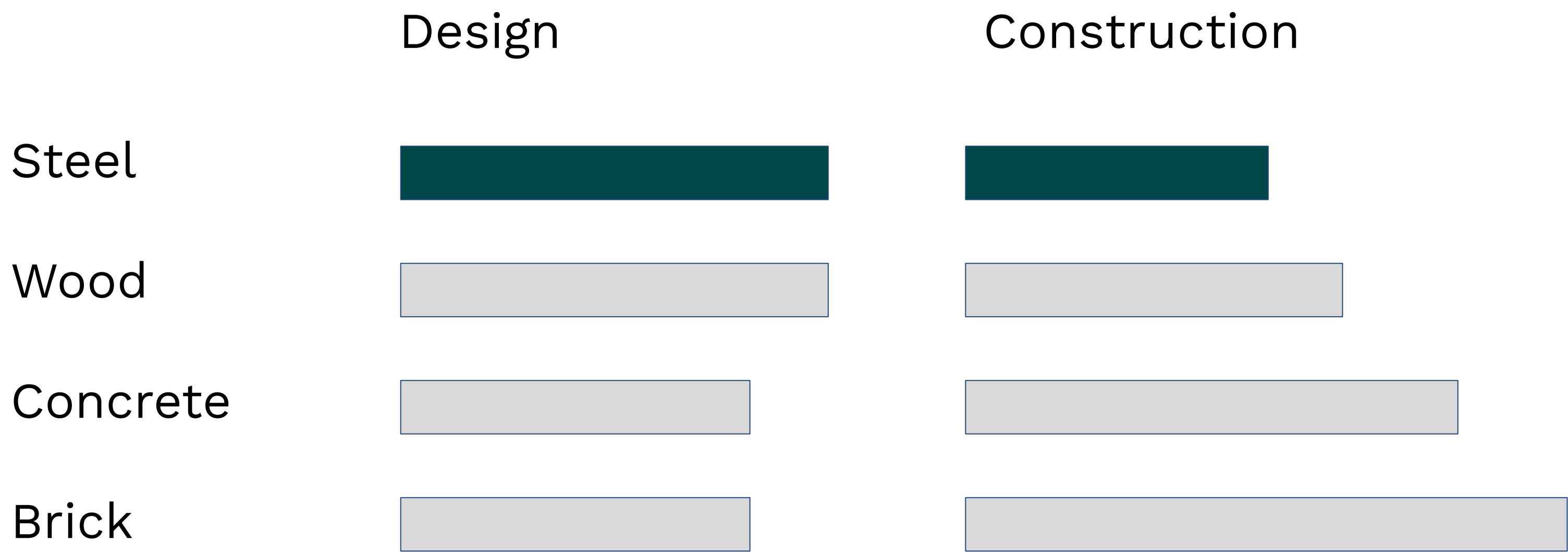
**Sustainable steel  
construction  
technology**

**+**

**worksite management**

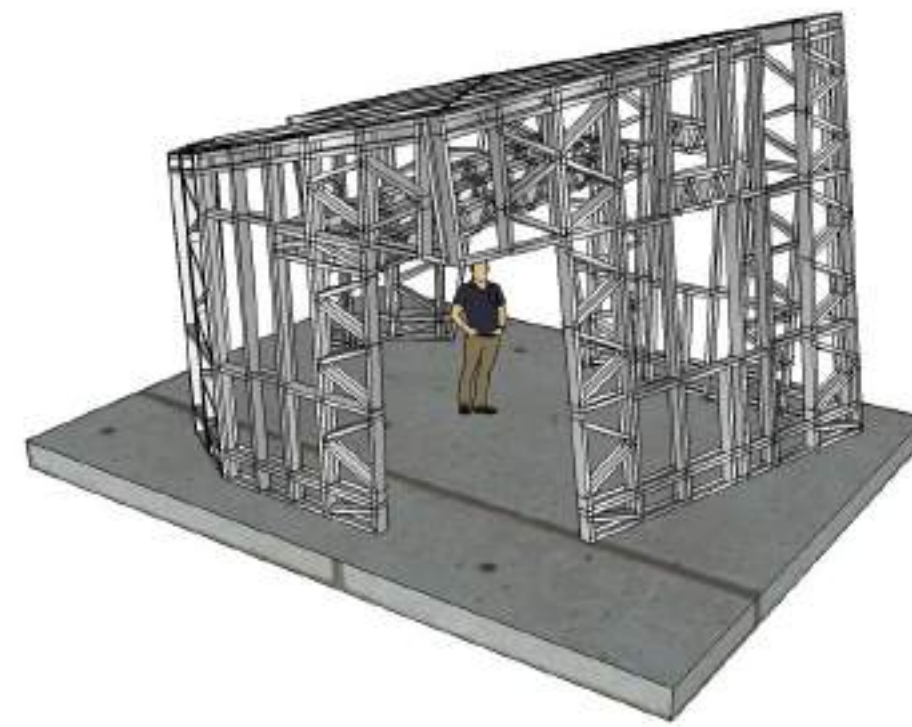
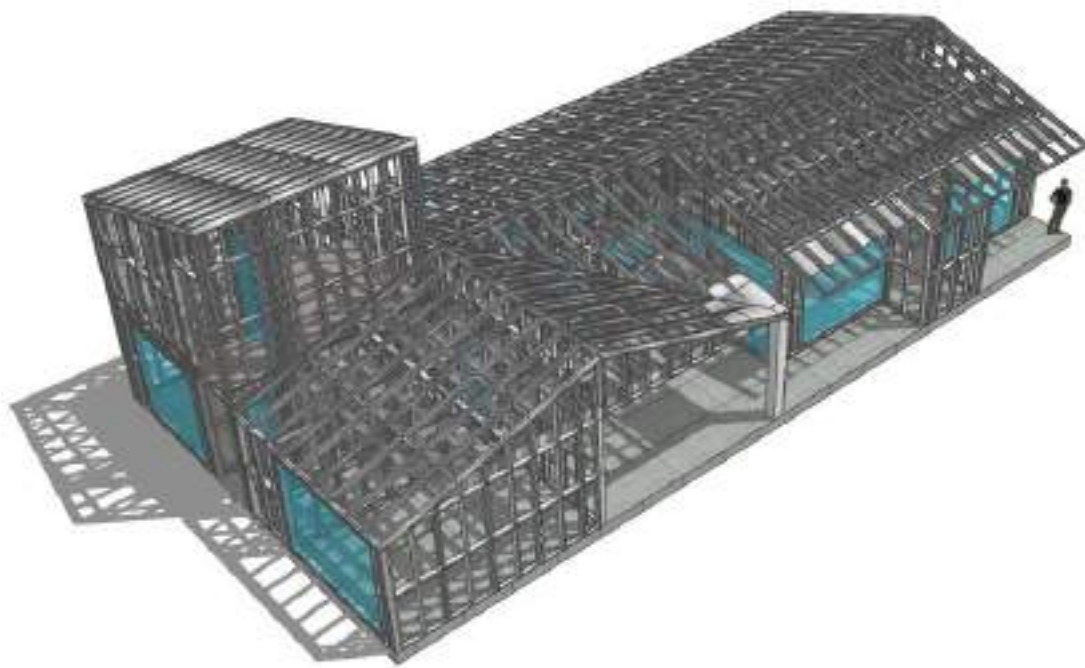
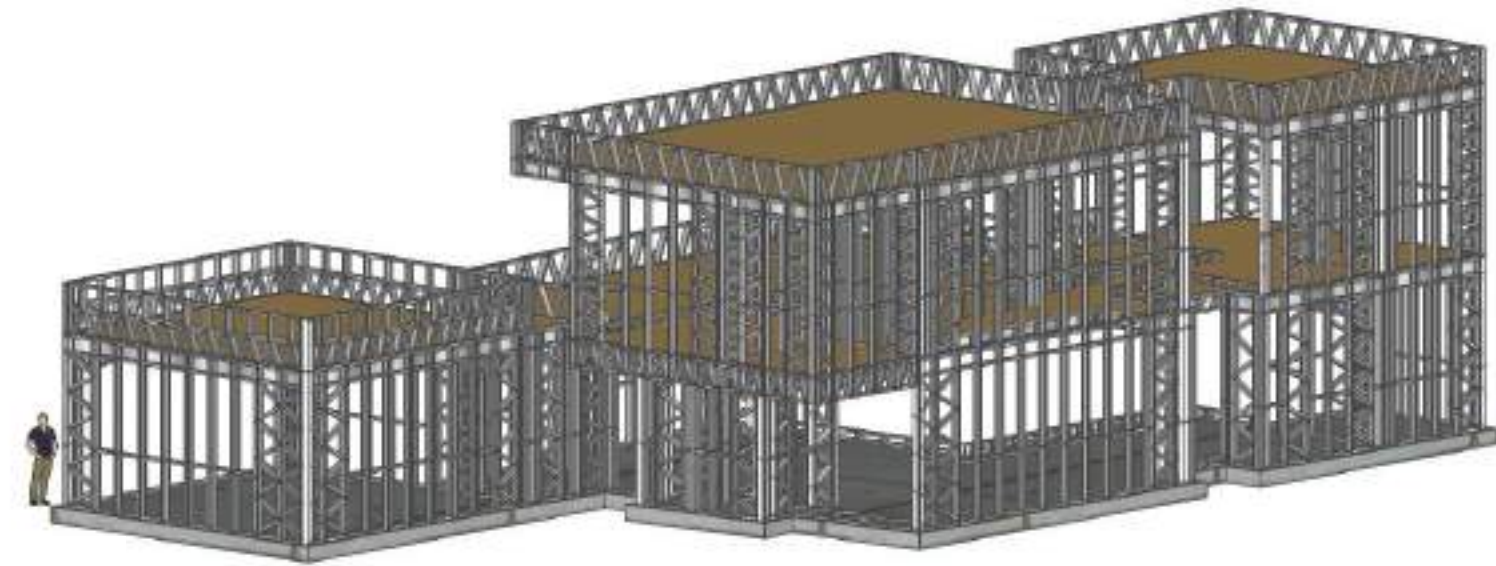
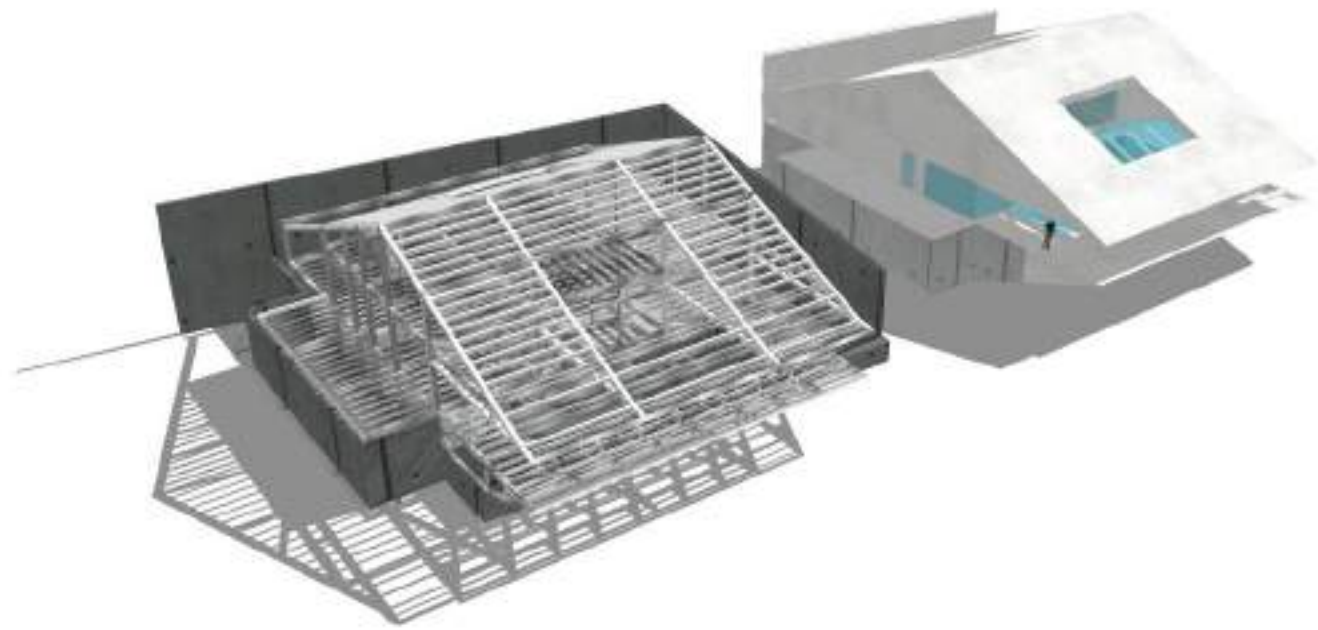
- cold-form steel technology: lightweight and adaptable to all construction forms
- Prefabricated and dry-assembled elements: for a clean and fast worksite management

# Cold-formed steel | Compare design and production times





# Cold-formed steel | Fast design with the BIM





# Otagono

## Case histories



# Eco-resort in Umbria | in collab with Foster studio architects



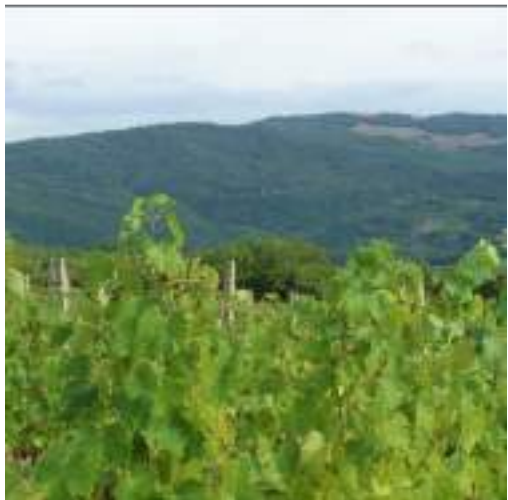


## Eco-resort in Umbria



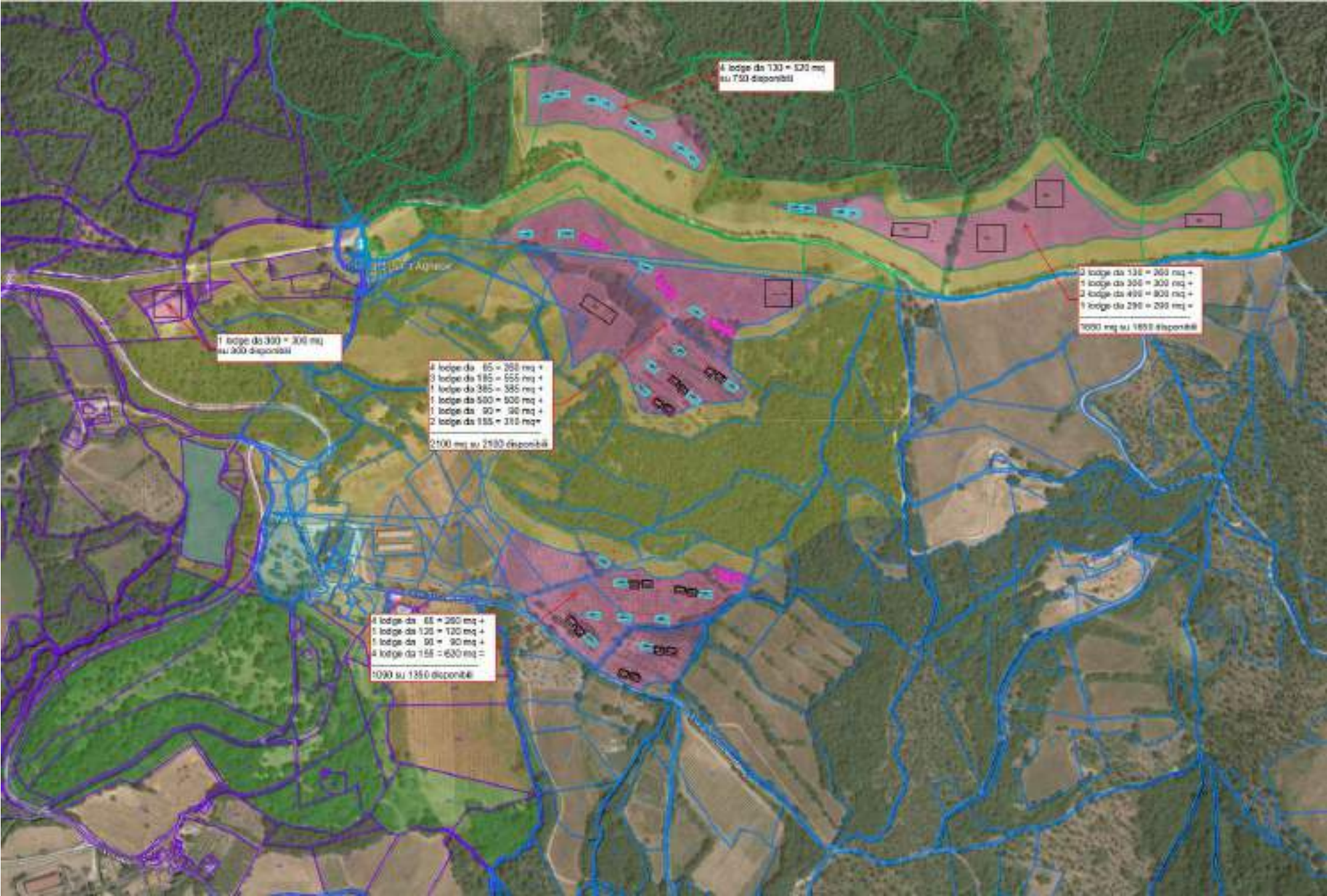


# Eco-resort in Umbria



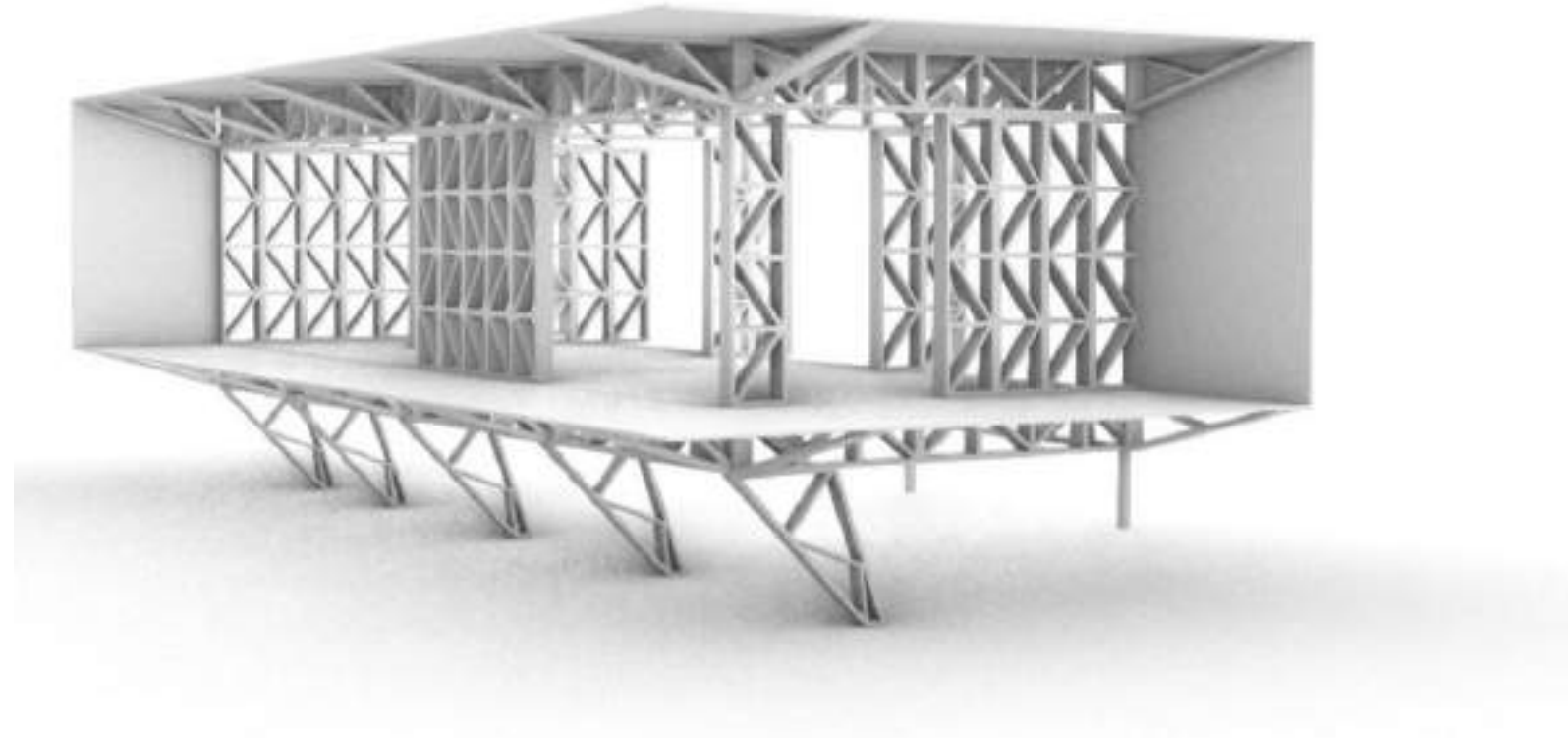


# Eco-resort in Umbria





# Eco-resort in Umbria





## Eco-resort in Umbria



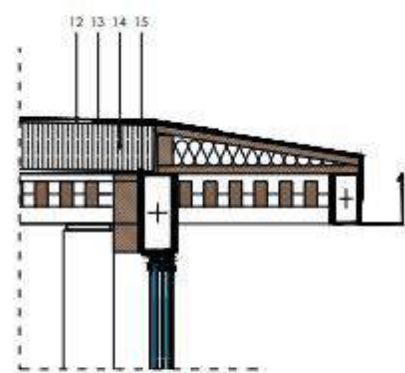
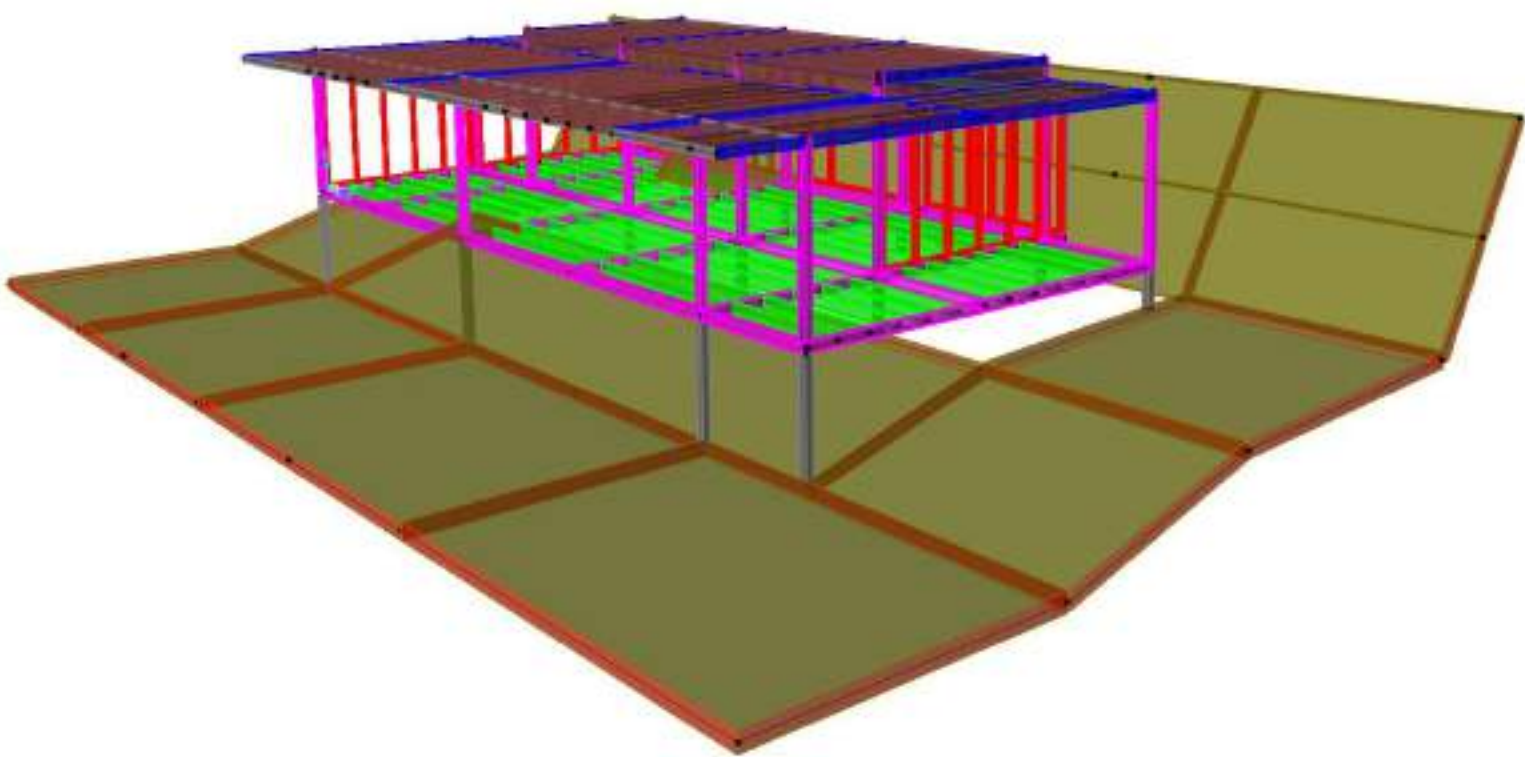
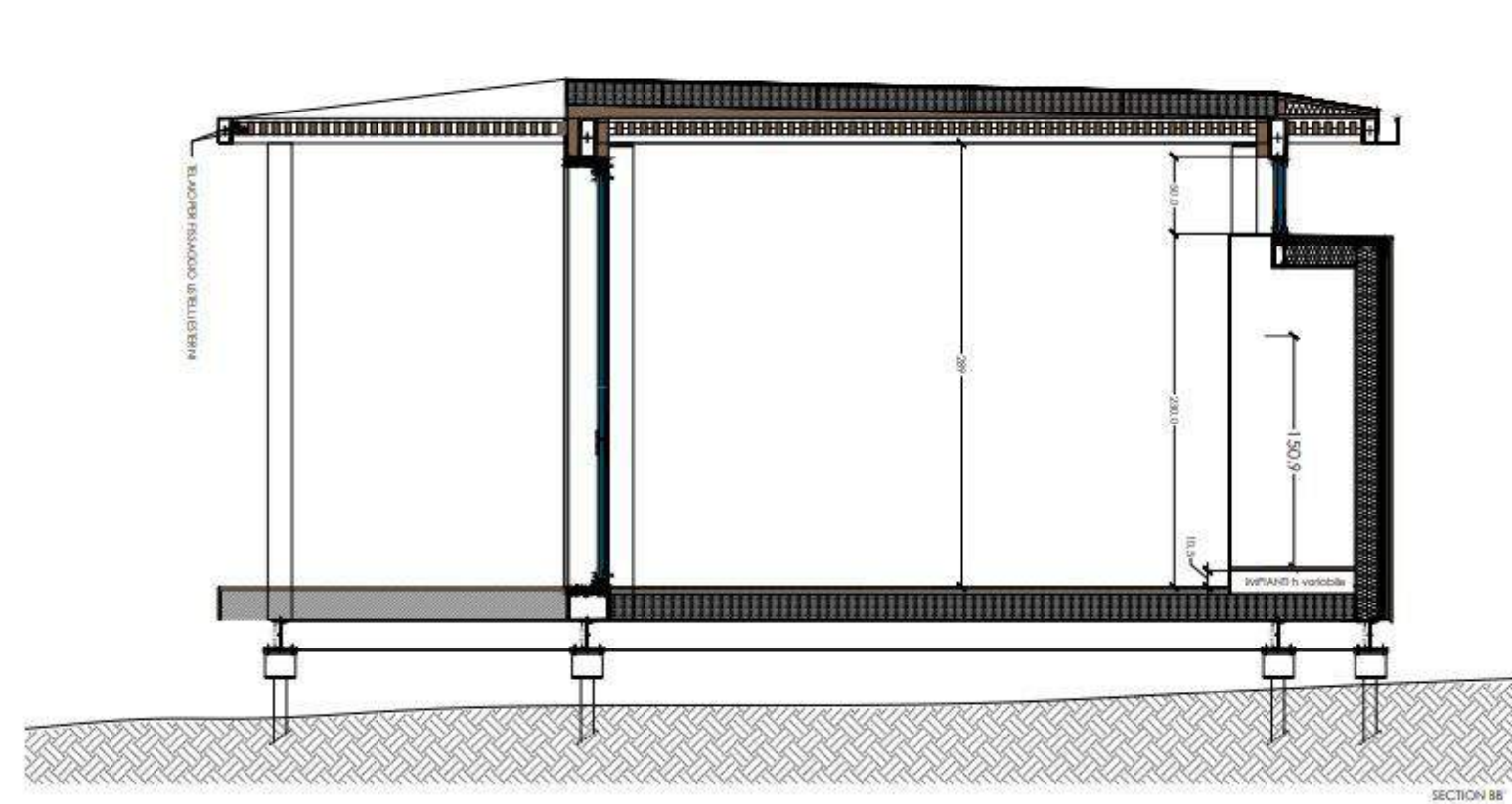


# Eco-resort in Umbria





# Eco-resort in Umbria



## WALL DETAILS

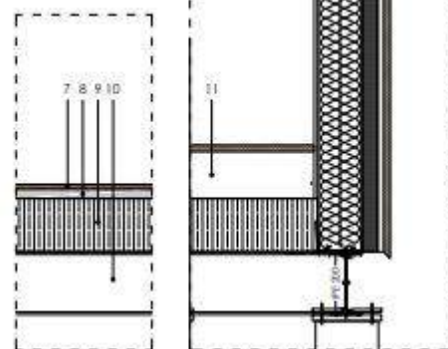
- |  |         |
|--|---------|
| 1. Rivestimento esterno in legno   | 20 mm   |
| 2. Telaio di supporto del rivestimento esterno (intercapedine aria ventilata)                                | 20 mm   |
| 3. Pannello da parete a doppio rivestimento metallico con isolamento in lana minerale di vetro (d. 55 kg/mc) | 50 mm   |
| 4. Profili Portanti in acciaio Monri Green Tech  | 140 mm  |
| 5. Isolante in lana di roccia in doppio strato sp. 60+60mm e densità 70kg/m3                                 | 120 mm  |
| 6. Rivestimento interno  | 12,5 mm |

## FLOOR DETAILS

- |  |            |
|--|------------|
| 7. Pavimento in legno  | 18 + 20 mm |
| 8. Massello  | 20 + 30 mm |
| 9. Pannello a doppio rivestimento metallico con isolamento in lana minerale di vetro (d. 55 kg/mc) | 170 mm     |
| 10. IPE 220  | 220 mm     |
| 11. Intercapedine per impianti h variabile   | 140 mm     |

## ROOF DETAILS

- |  |        |
|--|--------|
| 12. Copertura in lamiera                     |        |
| 13. Membrana impermeabilizzante/antiriflesso |        |
| 14. Pannello in lana di roccia d. 150 kg/mc  | 150 mm |
| 15. OSB + barriera al vapore                 | 15 mm  |





# Eco-resort in Umbria





## 500 sqm villa in Verona





## 500 sqm villa in Verona





## 500 sqm villa in Verona





## 500 sqm villa in Verona





# Villa with swimming pool in Vicenza



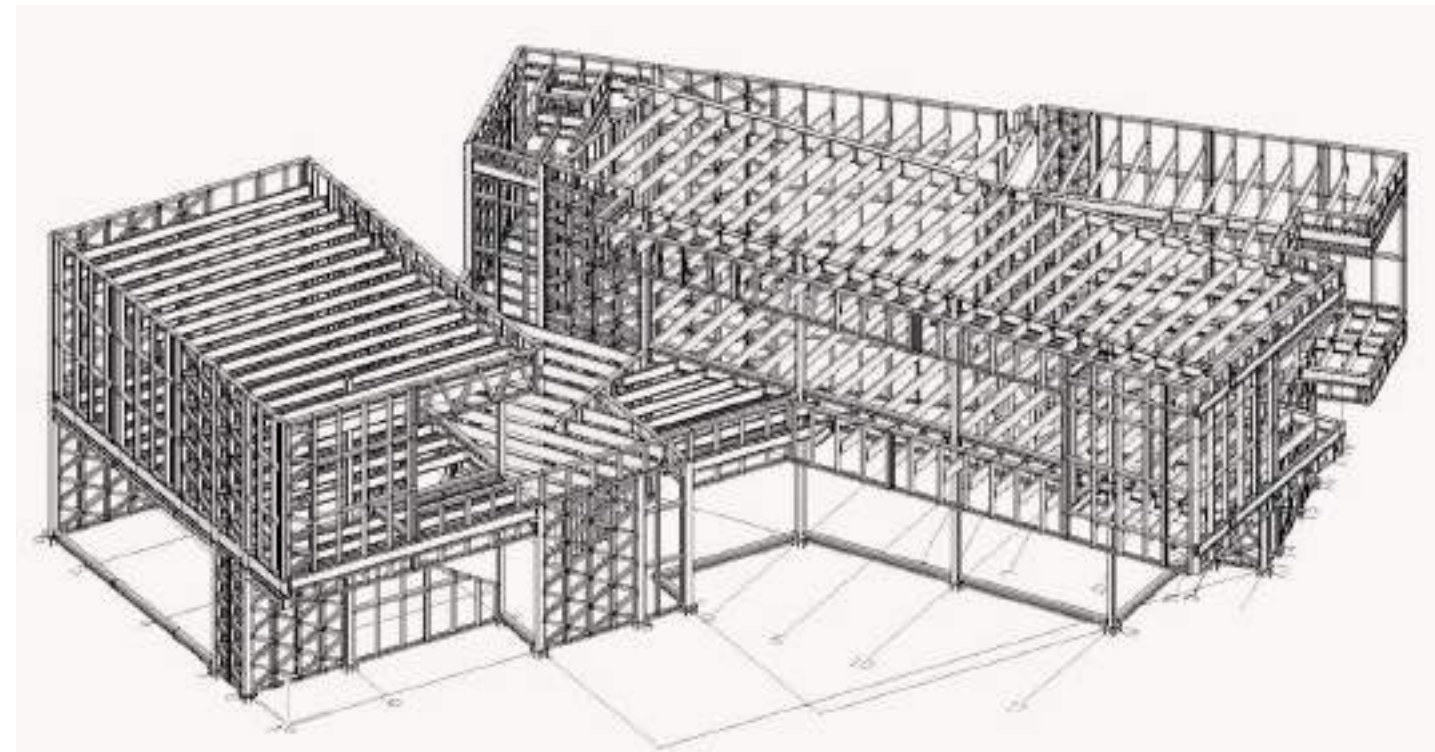


# Villa with swimming pool in Vicenza





# Villa with swimming pool in Vicenza





# Villa with swimming pool in Vicenza





## Villa with swimming pool in Vicenza





## Villa with swimming pool in Vicenza





## Villa with swimming pool in Vicenza





## Villa with swimming pool in Vicenza





# Villa with swimming pool in Vicenza





# Farmhouse in rural area in Cittadella



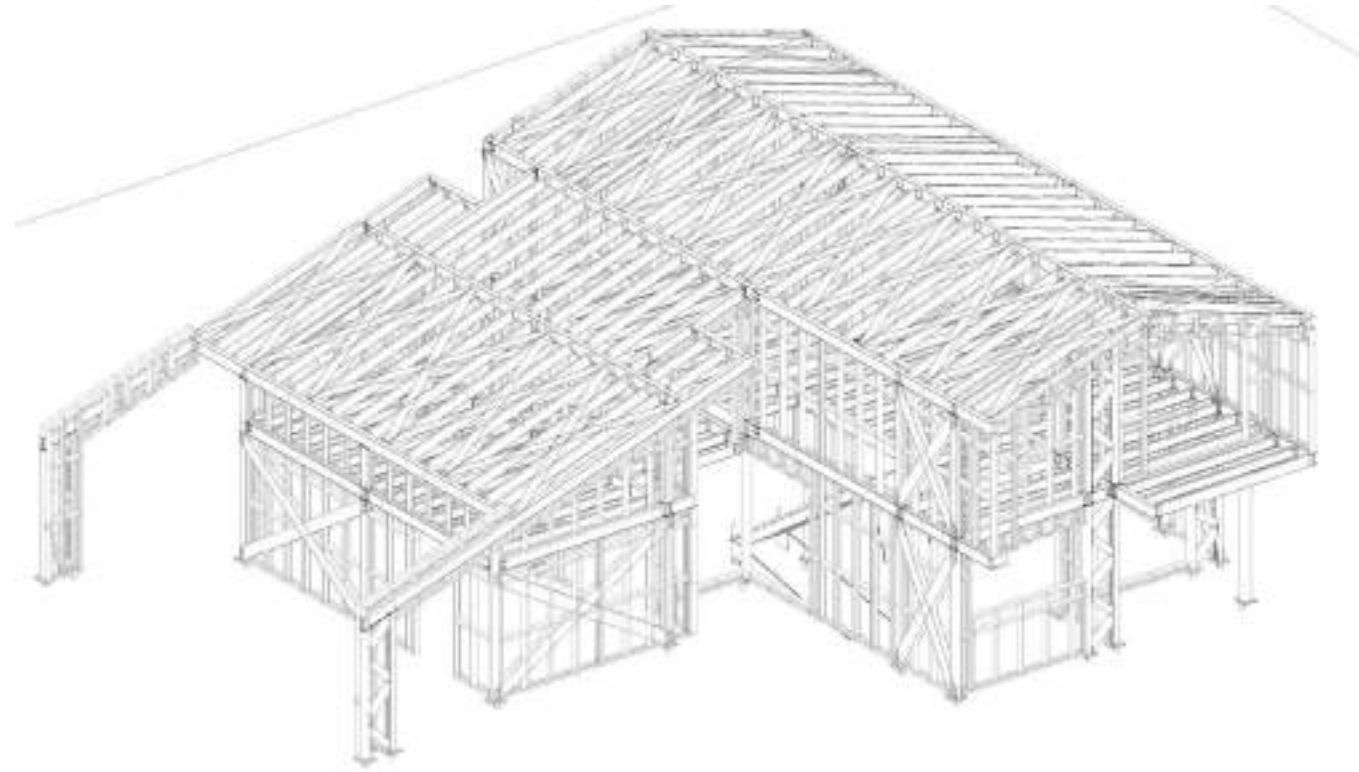


## Farmhouse in rural area in Cittadella





# Farmhouse in rural area in Cittadella





## Farmhouse in rural area in Cittadella





# Farmhouse in rural area in Cittadella





## Farmhouse in rural area in Cittadella





## Farmhouse in rural area in Cittadella





## Bio-climatic villa in Padua



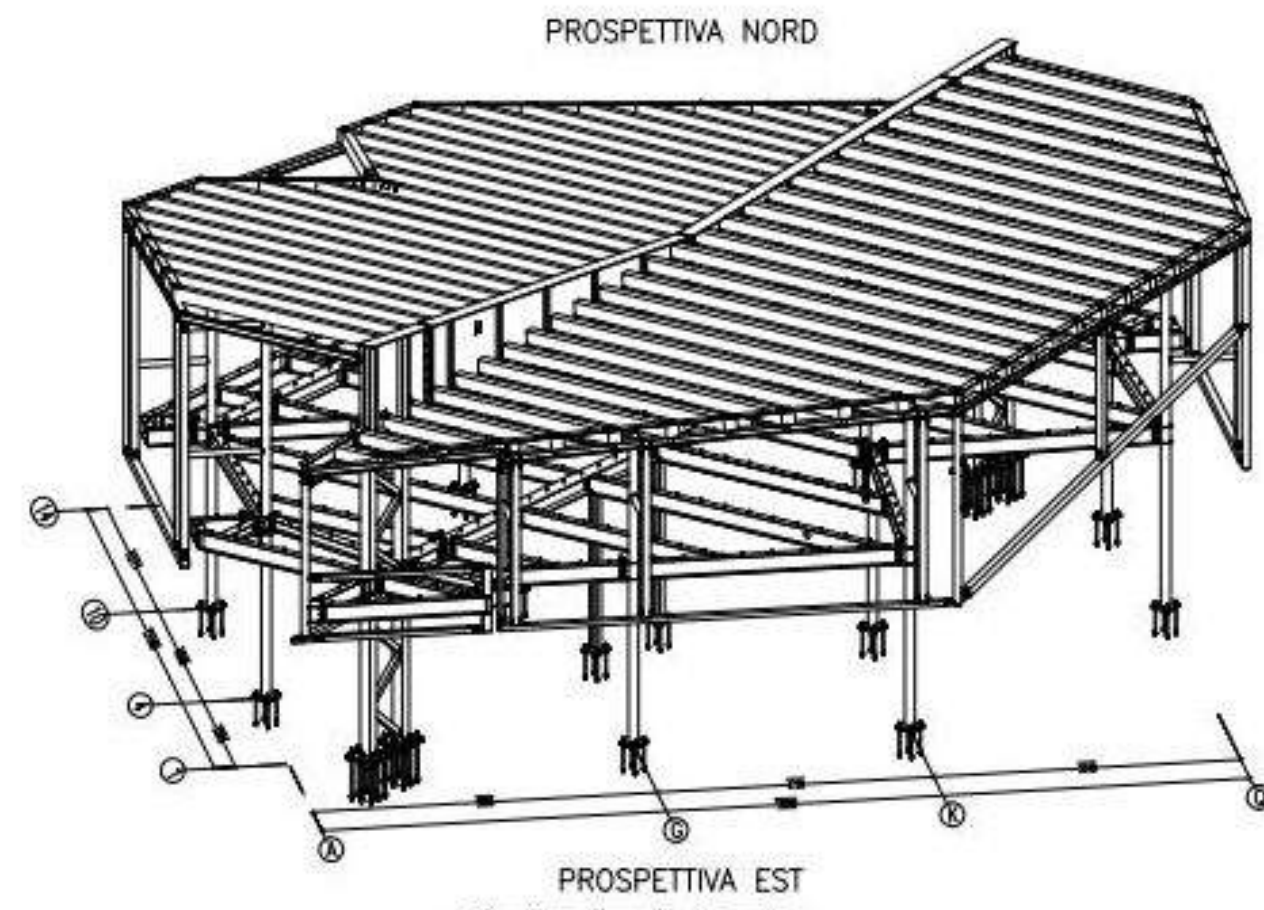


## Bio-climatic villa in Padua



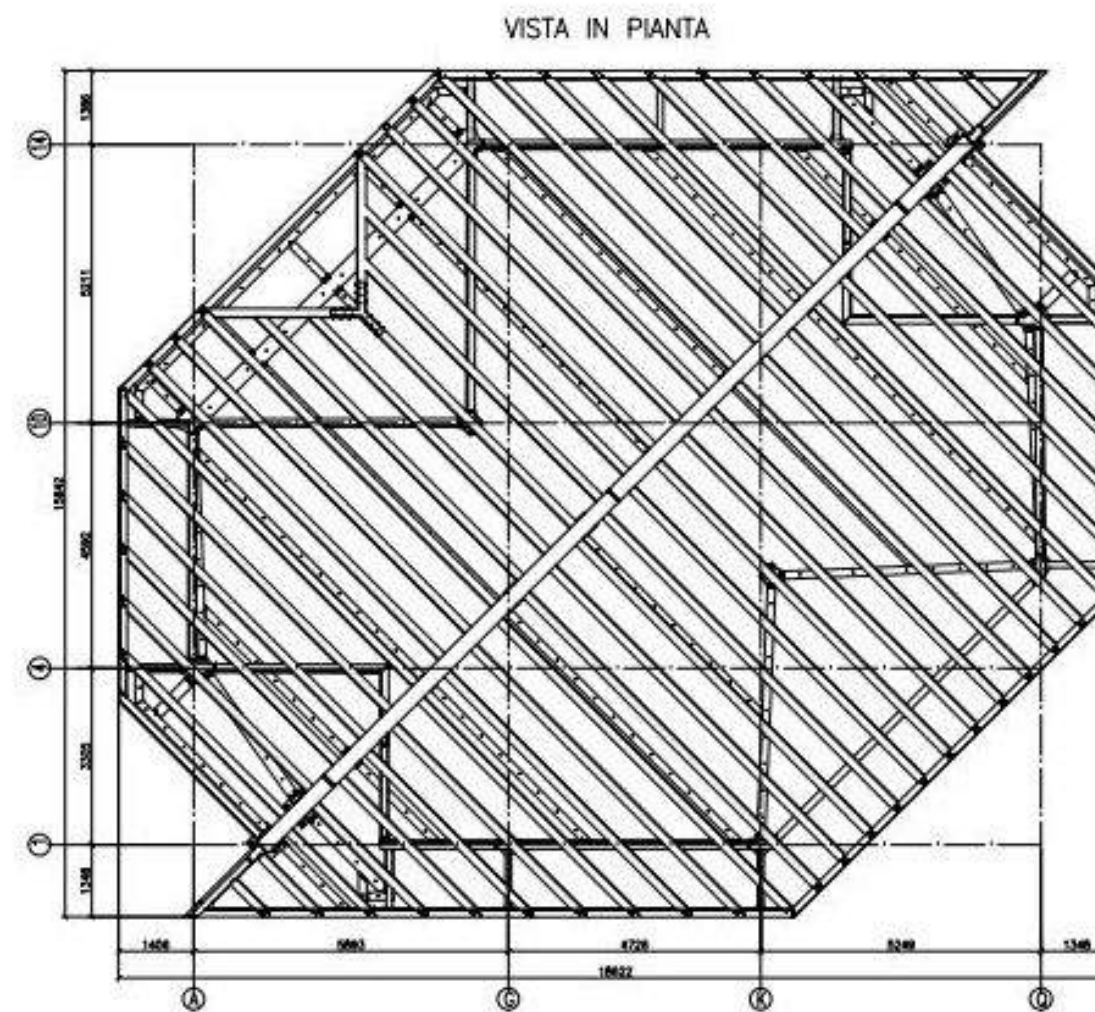
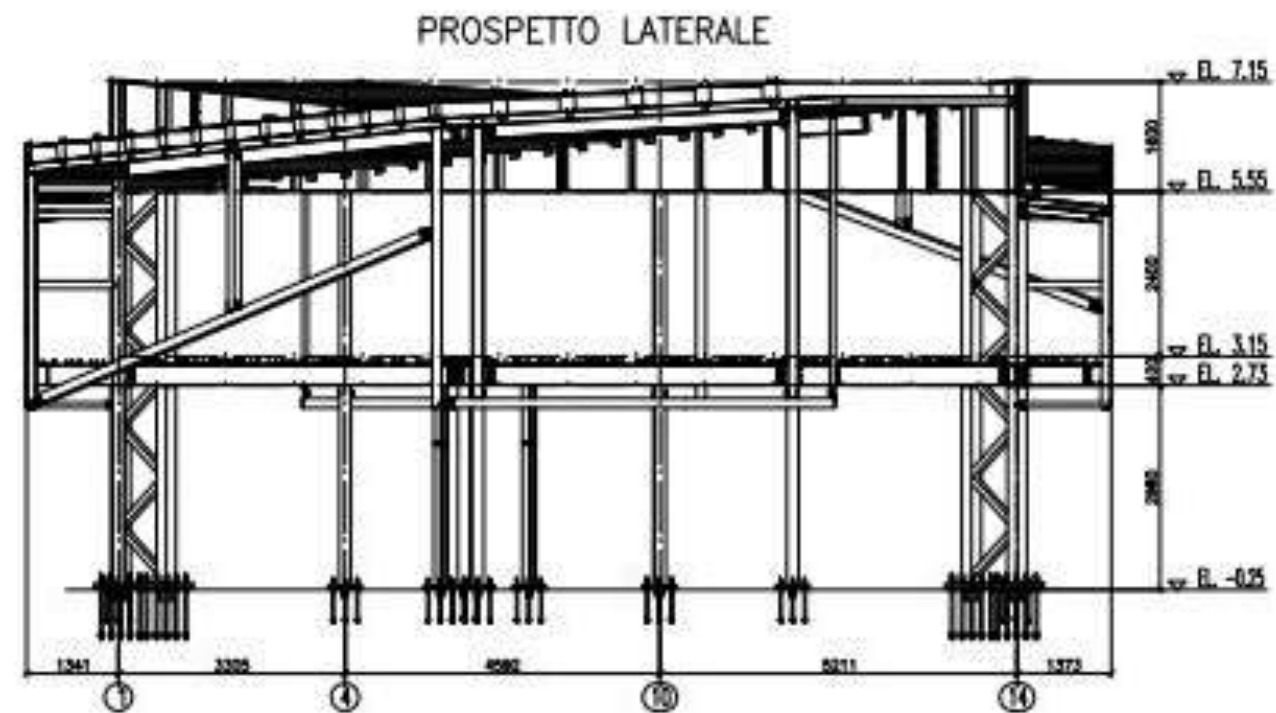


# Bio-climatic villa in Padua



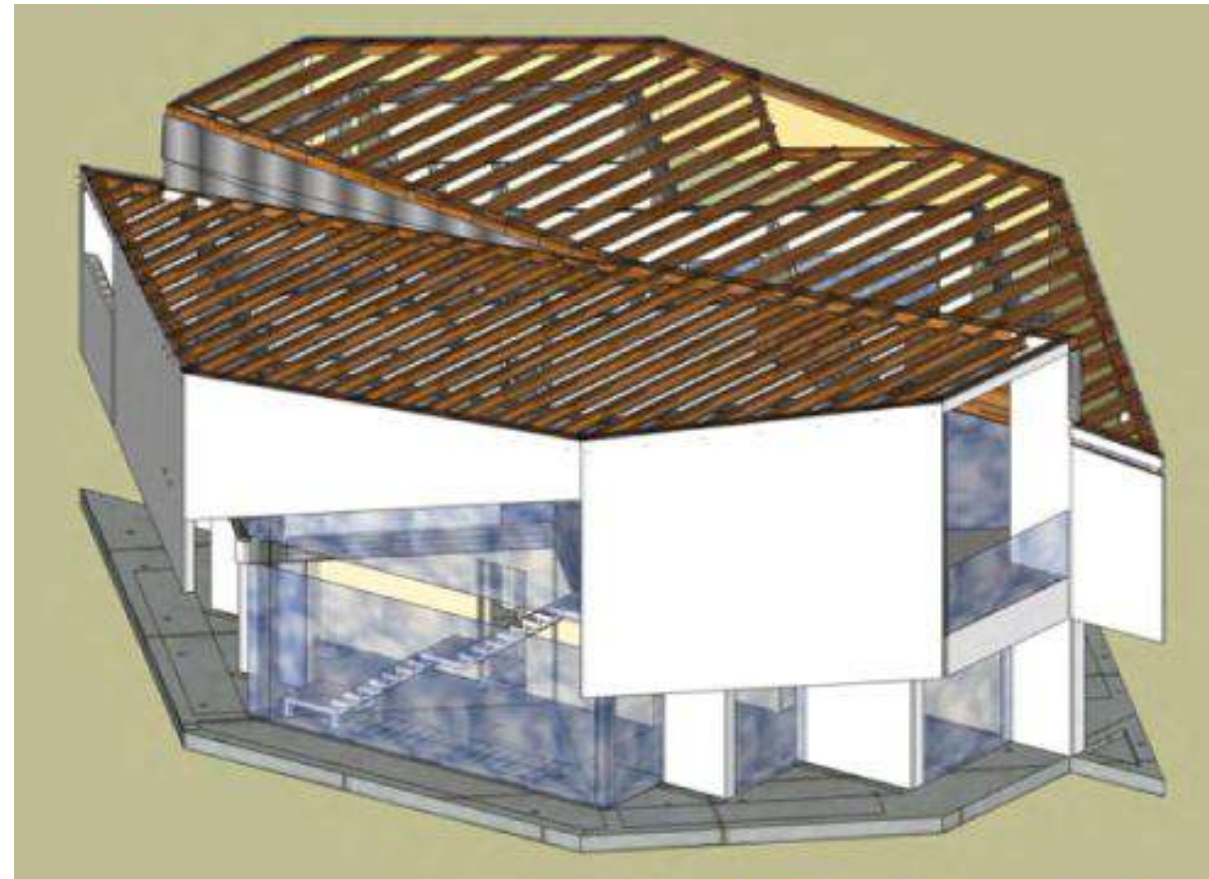
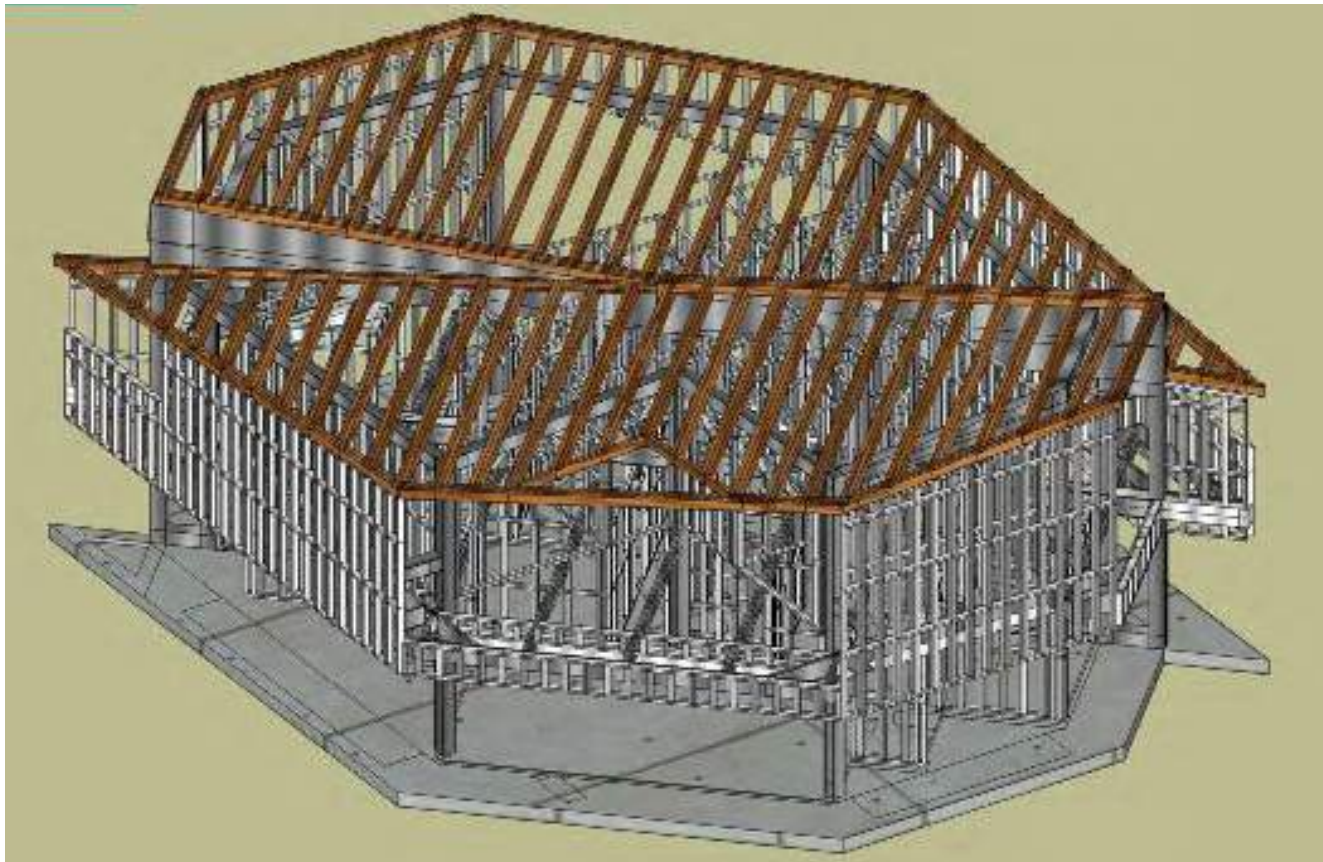


# Bio-climatic villa in Padua





# Bio-climatic villa in Padua





## Bio-climatic villa in Padua





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## Bio-climatic villa in Padua





## Bio-climatic villa in Padua





## Bio-climatic villa in Padua





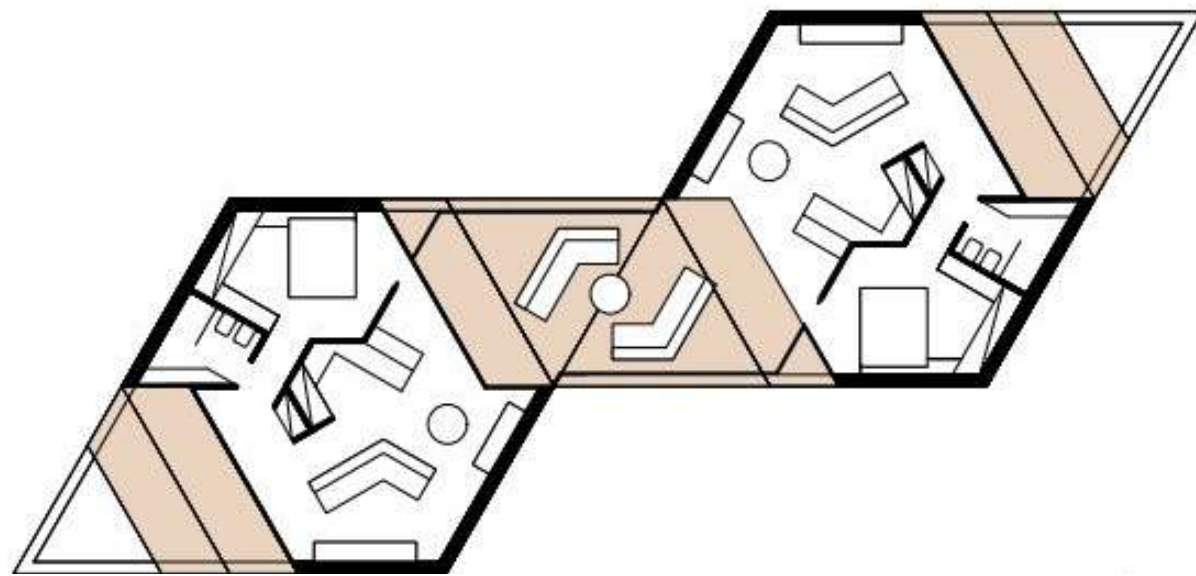
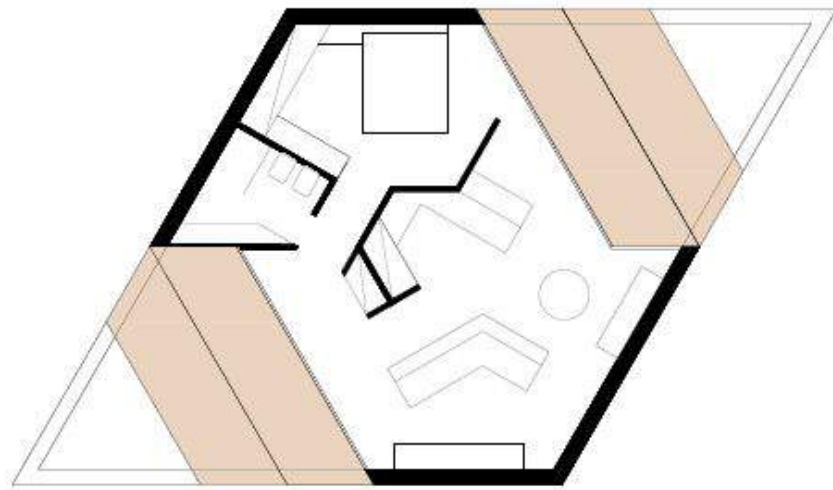
# Steel lodge in Venice





# Steel lodge in Venice

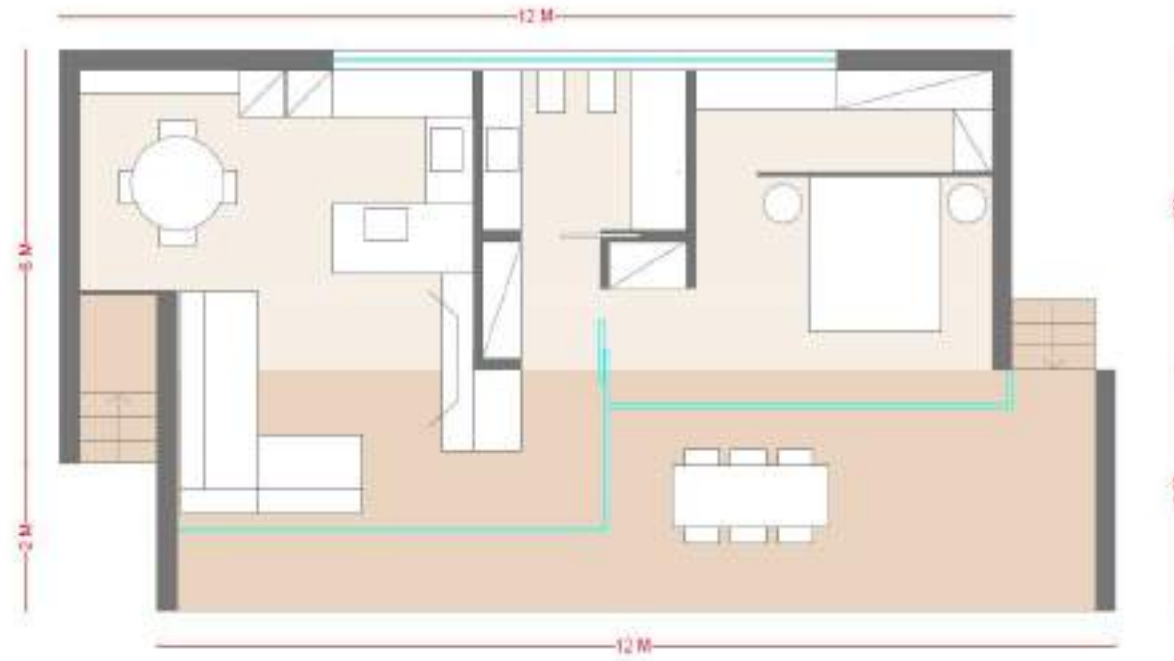
## 1st Lodge





# Steel lodge in Venice

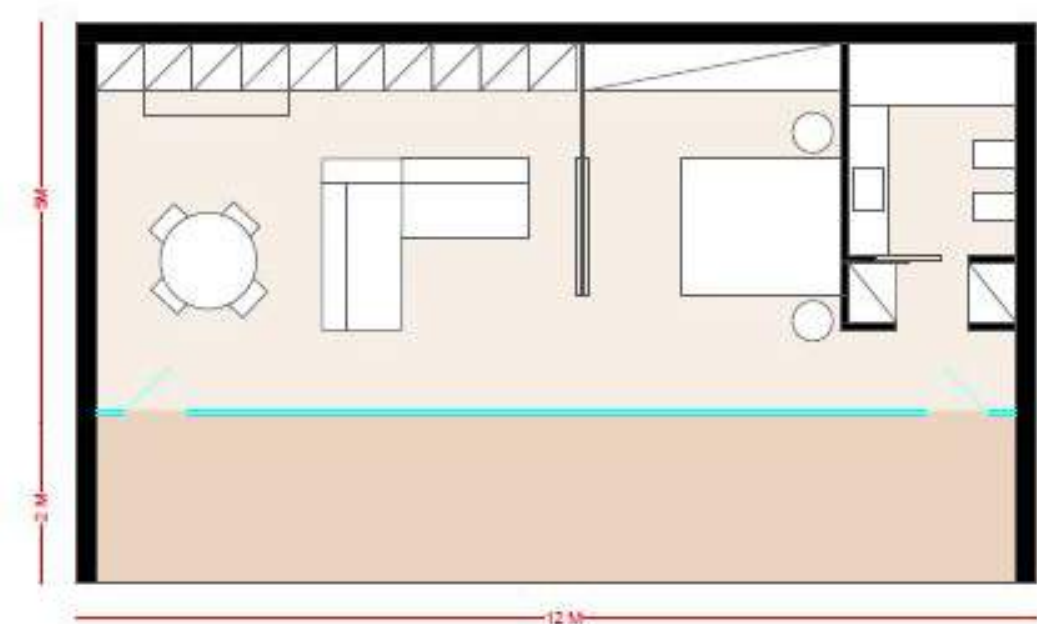
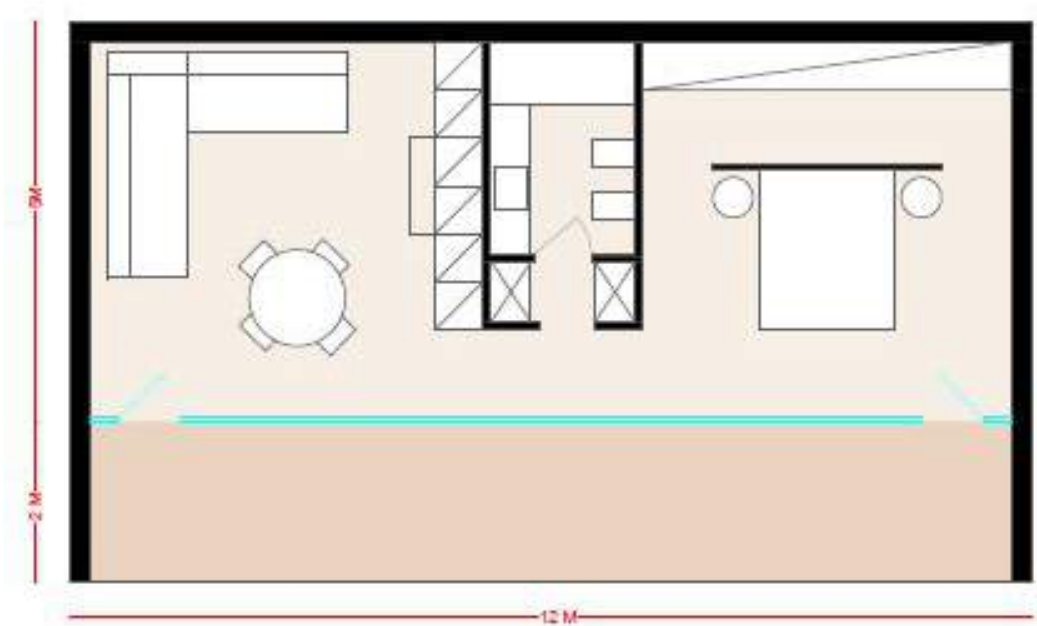
## 2nd Lodge





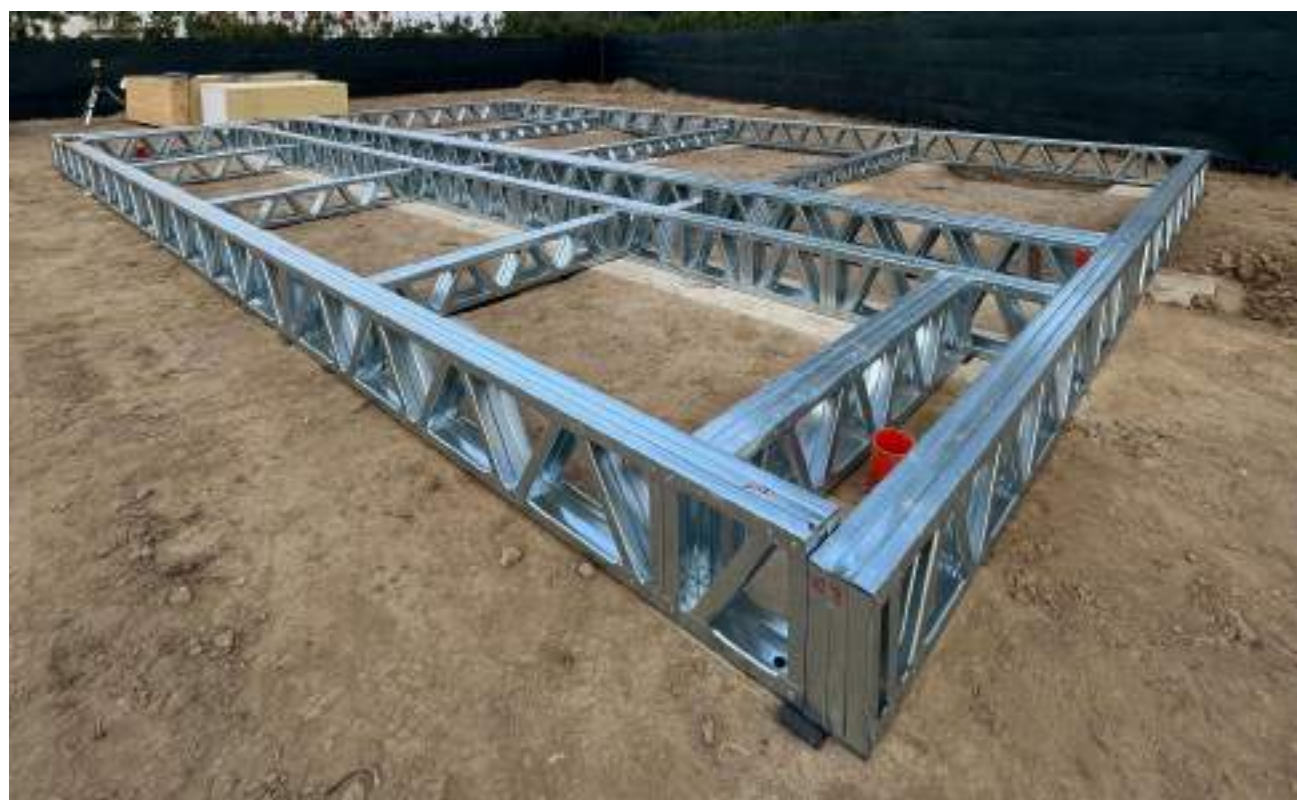
# Steel lodge in Venice

3rd Lodge





# Steel lodge in Venice





# Steel lodge in Venice





## Villa with portico in Noventa Vicentina





# Villa with portico in Noventa Vicentina





## Villa with portico in Noventa Vicentina





# Villa with portico in Noventa Vicentina





## Villa with portico in Noventa Vicentina





# Debox project | Design box by Marc Sadler for the Ferrari Challenge





## Debox project | Design box by Marc Sadler for the Ferrari Challenge



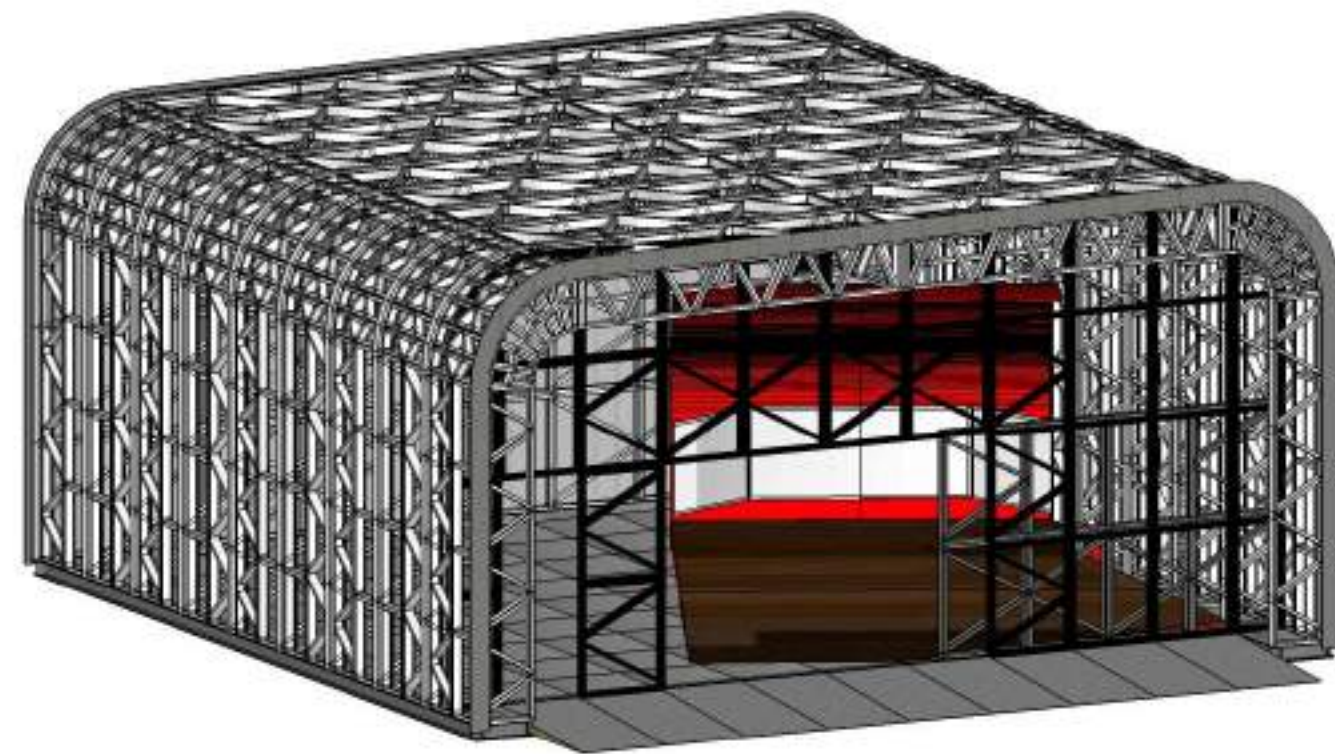
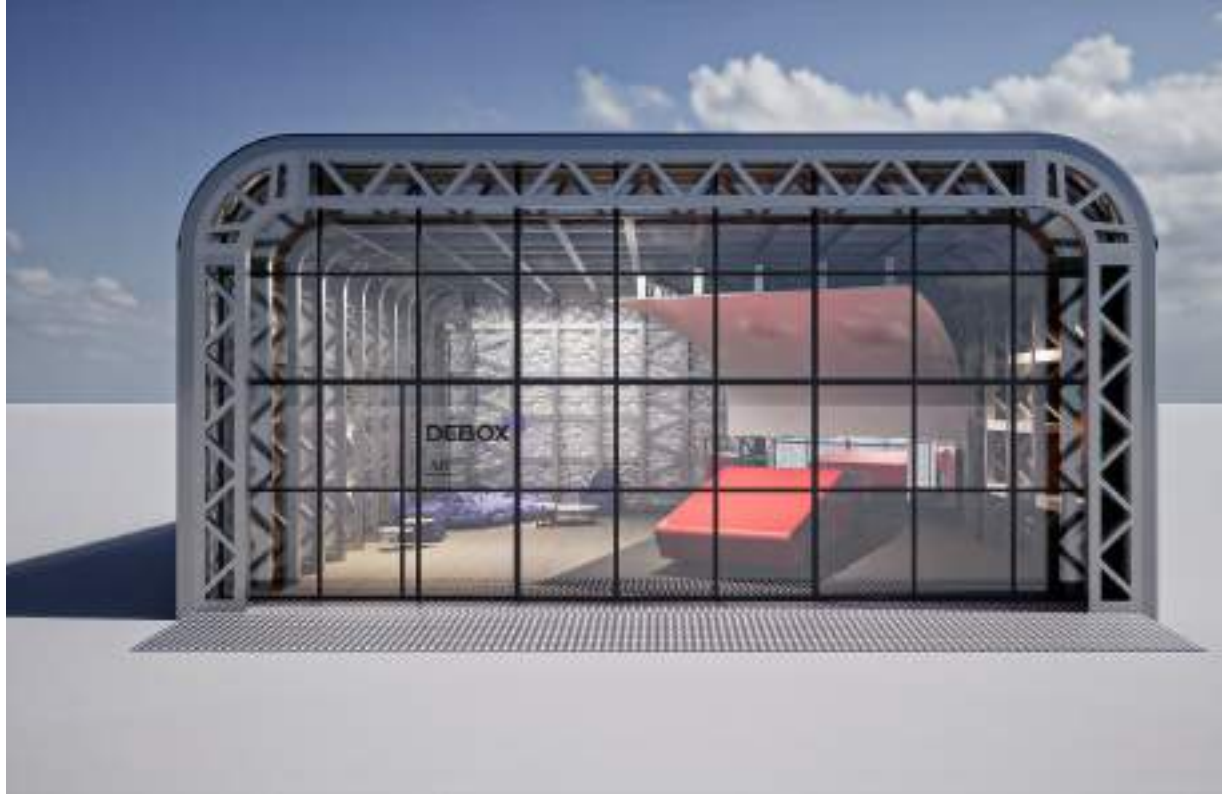


## Debox project | Design box by Marc Sadler for the Ferrari Challenge





# Debox project | Design box by Marc Sadler for the Ferrari Challenge





## Linear villa with a contemporary style in Mestre





## Linear villa with a contemporary style in Mestre





## Linear villa with a contemporary style in Mestre





## Linear villa with a contemporary style in Mestre





**Ottagono by AD Dal Pozzo**

Other Group divisions



# AD Dal Pozzo Group | Divisions



**AD Dal Pozzo**  
Personal designer



**AD Dal Pozzo**  
Contract department



**Debox**  
Architectural design garage



**AD Dal Pozzo**  
Architetture in acciaio



**AD Dal Pozzo**  
Art Gallery



**Ottagono**  
Green architecture



# AD Dal Pozzo | Personal designer



## Interior design and services

Customized design from the individual room to the large building, thanks to the experience and creativity of our interior designers and architects.

- Targeted consulting on more than 1000 furniture brands
- E-commerce for individuals and reserved area for professionals
- Multilingual backoffice
- Privileged contact with suppliers and craftsmen



# AD Dal Pozzo | Contract department



## Large supplies worldwide

10000 square meters of warehouse space where we collect goods and prepare shipments for any destination.

- Logistics
- Transportation and assembly
- Administration and international paperwork
- After-sales service



# AD Dal Pozzo | Steel architectures



## Light steel frame buildings

We design and construct buildings in Light Steel Frame, a sustainable light steel construction technology.

- Construction system adaptable to all architectural forms
- Fast and clean construction site with no construction waste
- Turnkey construction with interior design service included



# AD Dal Pozzo | Art gallery



## Enhancing the value of art

Furniture and contemporary art come together in exclusive projects.

We promote Beauty in all its aspects. This passion has made us a true Art Gallery, with an important catalog of contemporary works.



# Debox | Architectural design garage



## A new way of designing the garage

Debox is aimed at those who want to experience the passion for engines at 360°.

The garage becomes a place of pleasure, capable of combining style and high technology. We enhance the garage to transform it into a living space capable of combining the most intense passions with the most exclusive style.



