

PROACTIVE SOLUTIONS
IN SUSTAINABLE MODULAR
ARCHITECTURE





Captek was born more than 10 years ago with the aim of creating an innovative and disruptive system in the construction of buildings, offering a versatile product with the ability to create countless solutions in different areas.

As a global company, it is vital to understand the dynamics of the market and each client's needs. This has allowed us to expand our portfolio of solutions, adapting to the circumstances of each moment.

We maintain a leadership position in the sector thanks to continuous improvement in the company's products, services and processes. We focus on generating a competitive advantage to maintain long-term sustainable growth. Our commitments to the sustainable development goals are evident in the system we have developed, using recyclable and environmentally friendly materials.

The people who make Captek represent the main asset of the company, allowing constant growth and progress. The fusion of talent and a multicultural approach are the key to the success of the company.

Our mission as a company goes beyond business growth: we intend to contribute positively to the construction sector, society and the world in which we live.

A blue ink signature of Tomas Feliu, written in a cursive style.

Tomas Feliu, President of Captek



At Gaptex we design, manufacture and build sustainable and energy efficient buildings based on our construction system.

We even have managed to develop a state-of-the-art hangar project in six months as a scientific module in Antarctica.

We merge architecture, engineering, production, and logistics within a system that allows us to develop a much more advanced technology compared to traditional construction systems.

Our system is designed to operate worldwide, providing feasibility to any existing need.





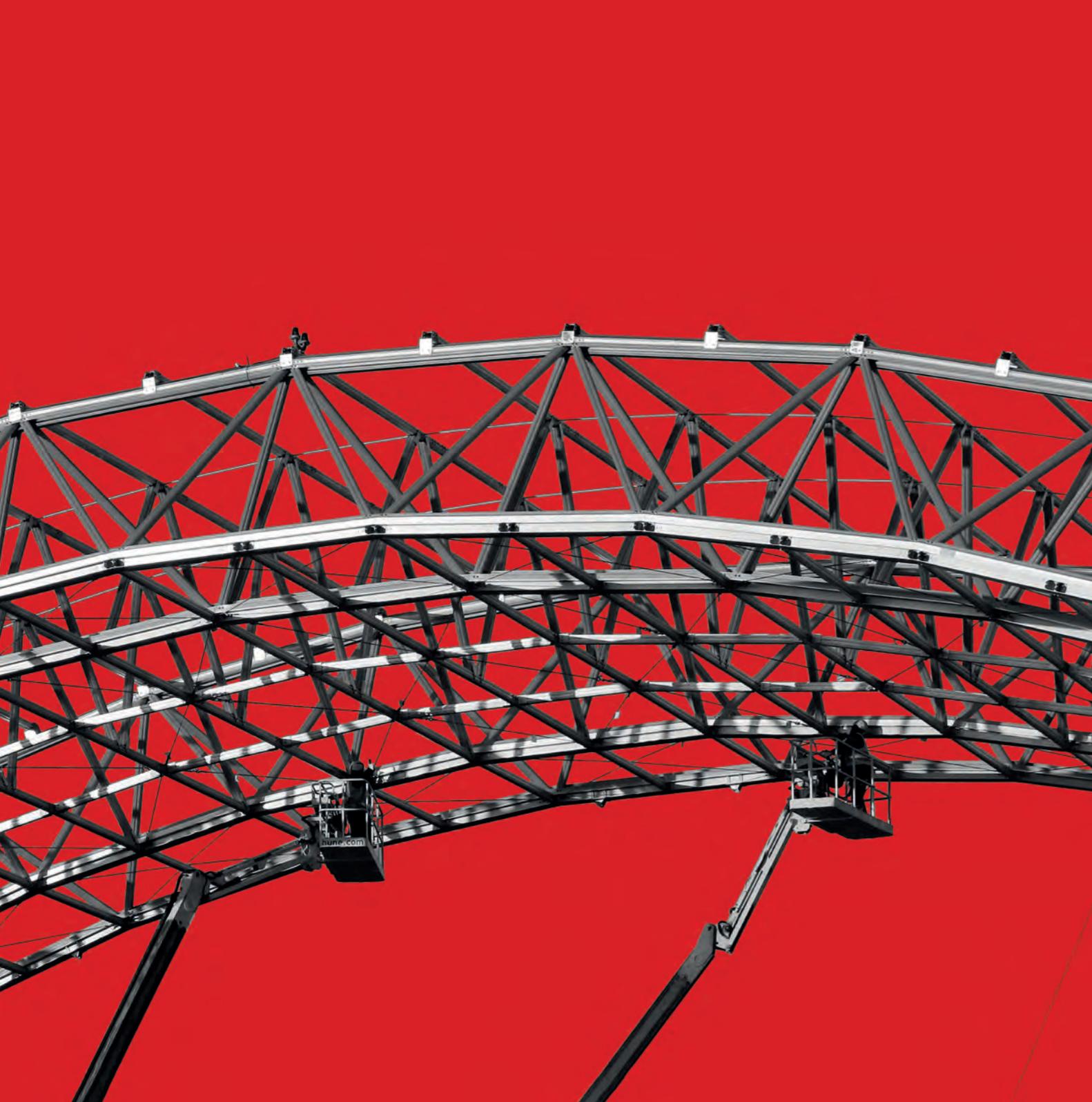
CREATED TO BUILD WITHOUT LIMITS

New technologies and our own construction system

The Gaptek system applies modular technology, which allows to always have a total control over the three fundamental parameters of the projects: time, quality and cost.

The structure of Gaptek buildings is mainly made of aluminium profiles assembled by mechanical joints.

The lightness, durability and sustainability of aluminium make it possible to reduce logistical needs, construction time and maintenance costs, increasing the quality of the product.



OUR SOLUTIONS

HANGARS

WHAREHOUSES AND WORKSHOPS

LOGISTICS CENTERS

HOSPITALS AND LABORATORIES

SHELTERS

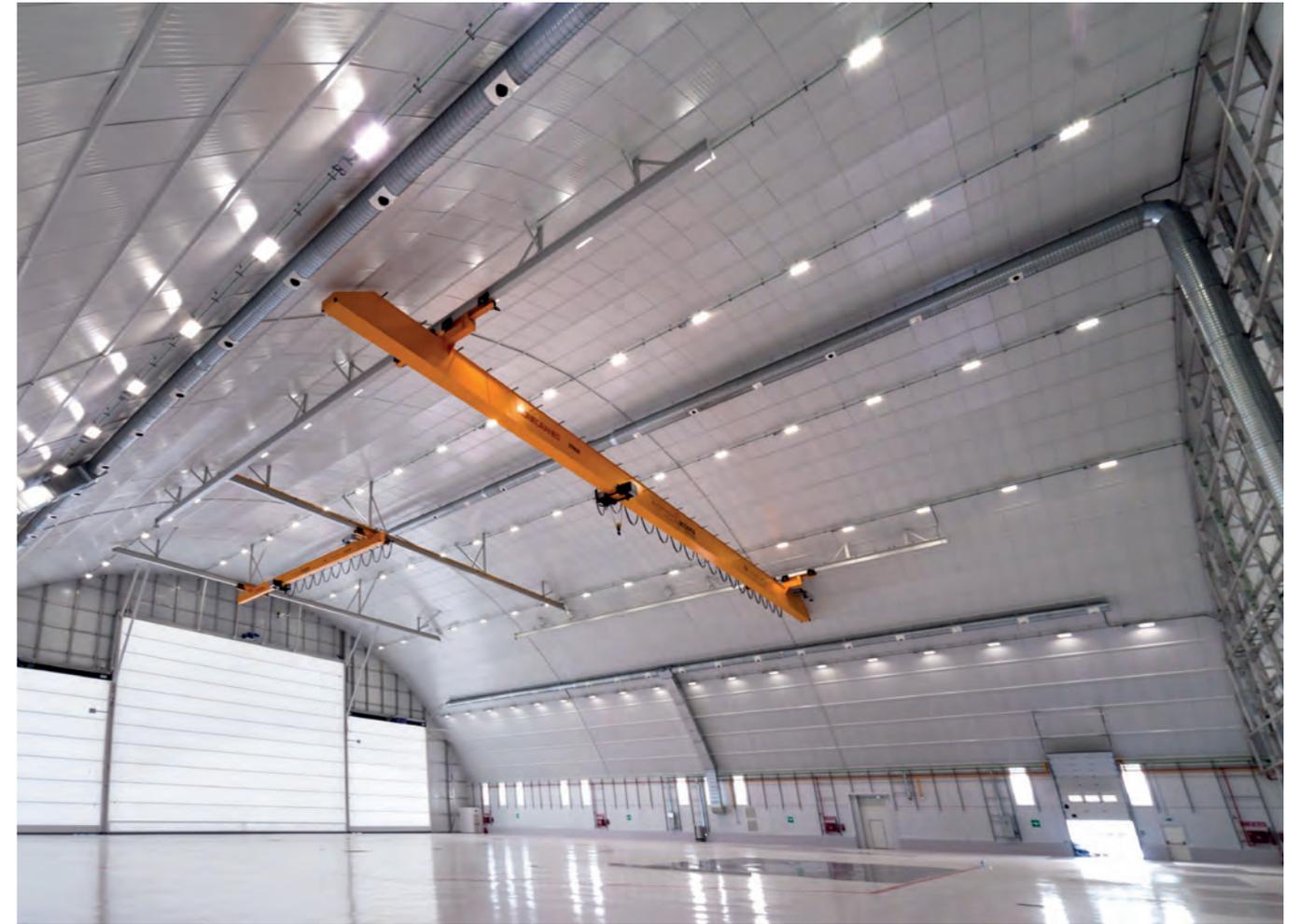
AIRPORT TERMINALS

OFFICES

SPECIAL STRUCTURES

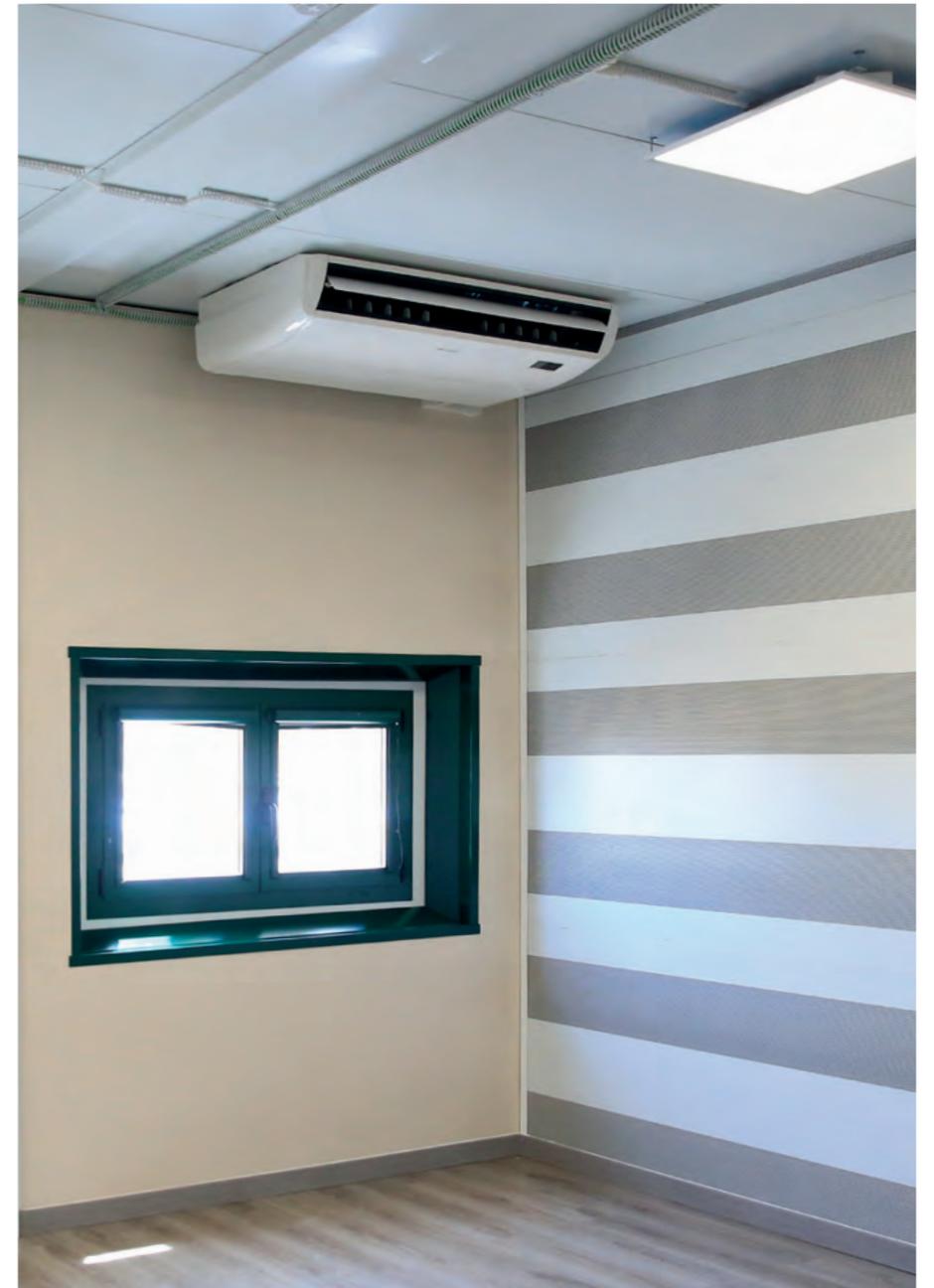


Maintenance Hangars for the A400M
Location: Zaragoza (Spain)
Surface: 5.040 m²
Execution time: 22 weeks





Modular Offices for Spanish Air Force
Location: Morón (Spain)
Surface: 795 m²
Execution time: 16 weeks





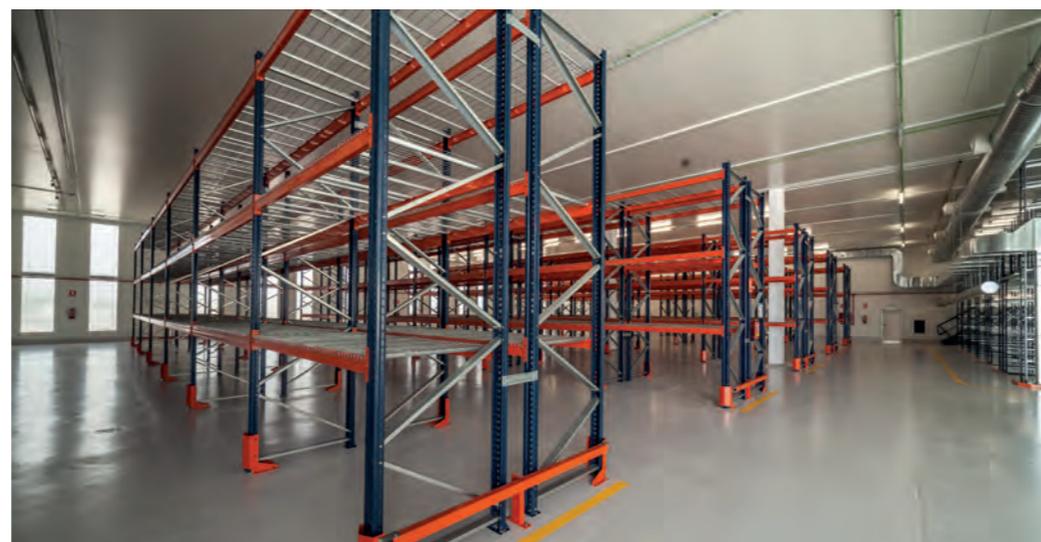
A400M Engine workshops
Location: Zaragoza (Spain)
Surface: 4.390 m²
Execution time: 18 weeks



A400M Engine workshops
Location: Zaragoza (Spain)
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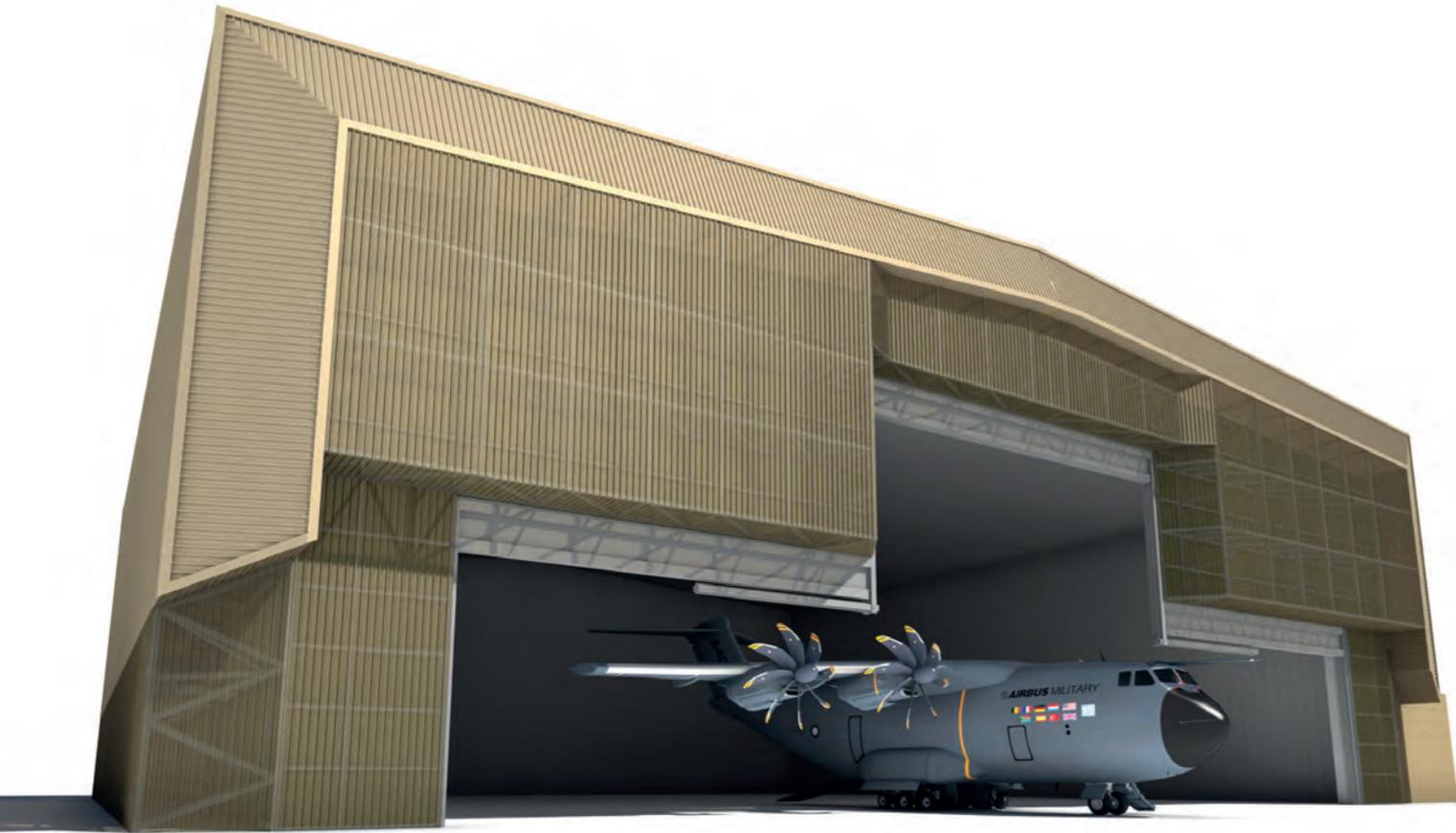


MRO Warehouse
Location: Zaragoza (Spain)
Surface: 2.700 m²
Execution time: 16 weeks



Hangar for the A400M with offices
Location: Sevilla (Spain)
Surface: 5.040 m²
Execution time: 20 weeks





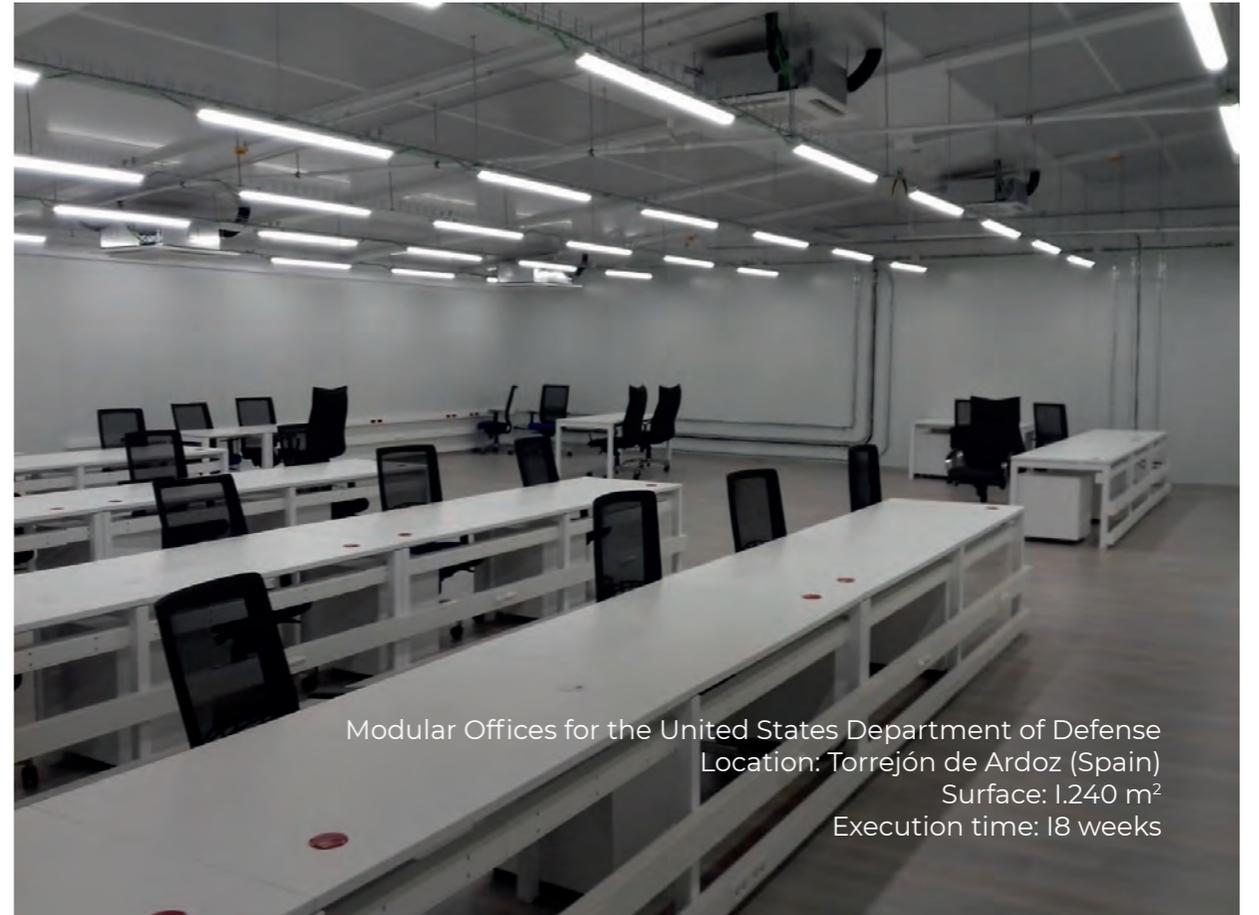
Hangar for MRTT A330 with offices
Location: Sevilla (Spain)
Surface: 5.625 m²
Execution time: 24 weeks



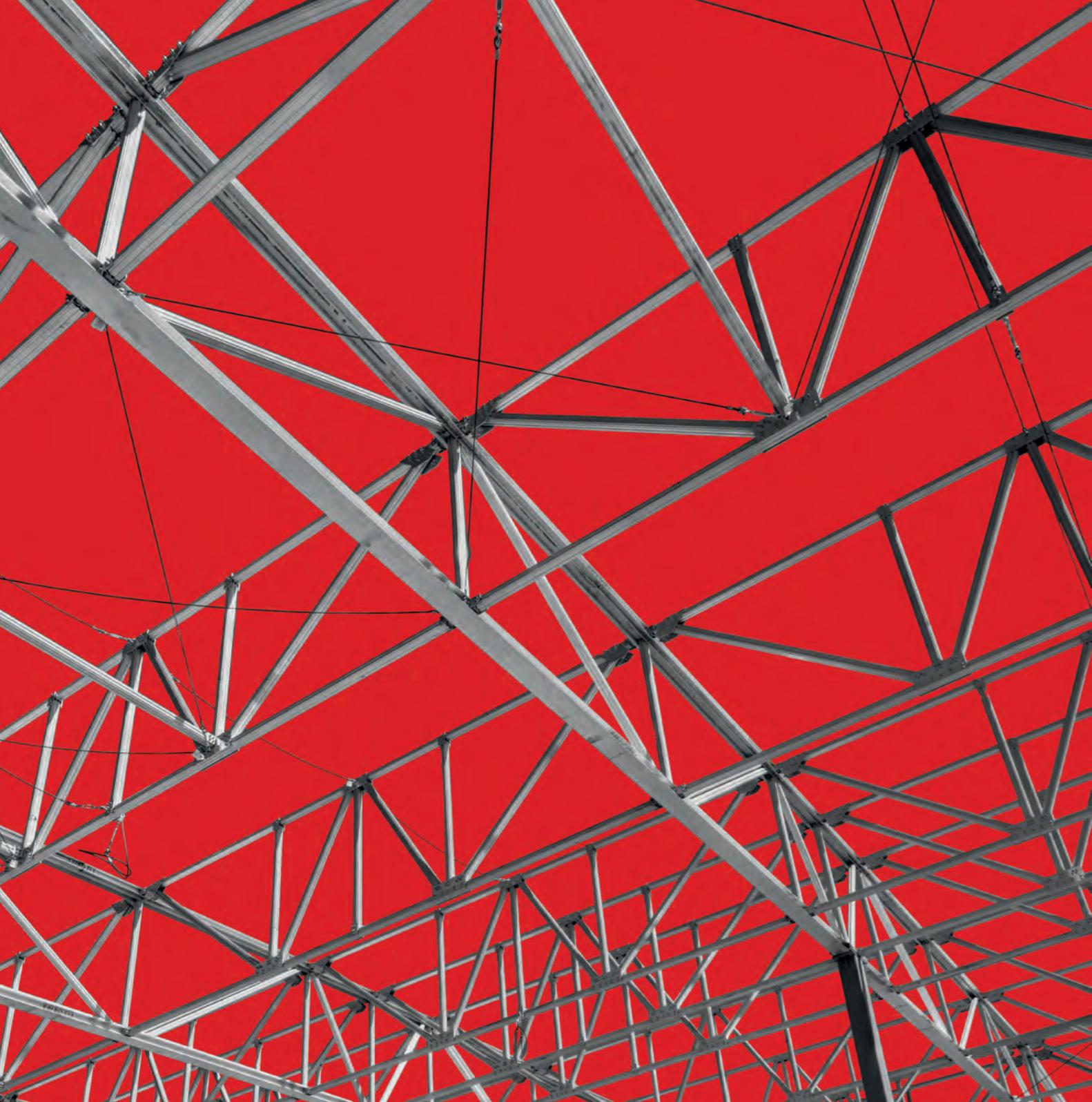
UAV Reaper Hangar
Location: Talavera la Real (Spain)
Surface: 1.036 m²
Execution time: 5 weeks

Modular Offices for the United States Department of Defense
Location: Rota (Spain)
Surface: 1.240 m²
Execution time: 18 weeks





Modular Offices for the United States Department of Defense
Location: Torrejón de Ardoz (Spain)
Surface: 1.240 m²
Execution time: 18 weeks

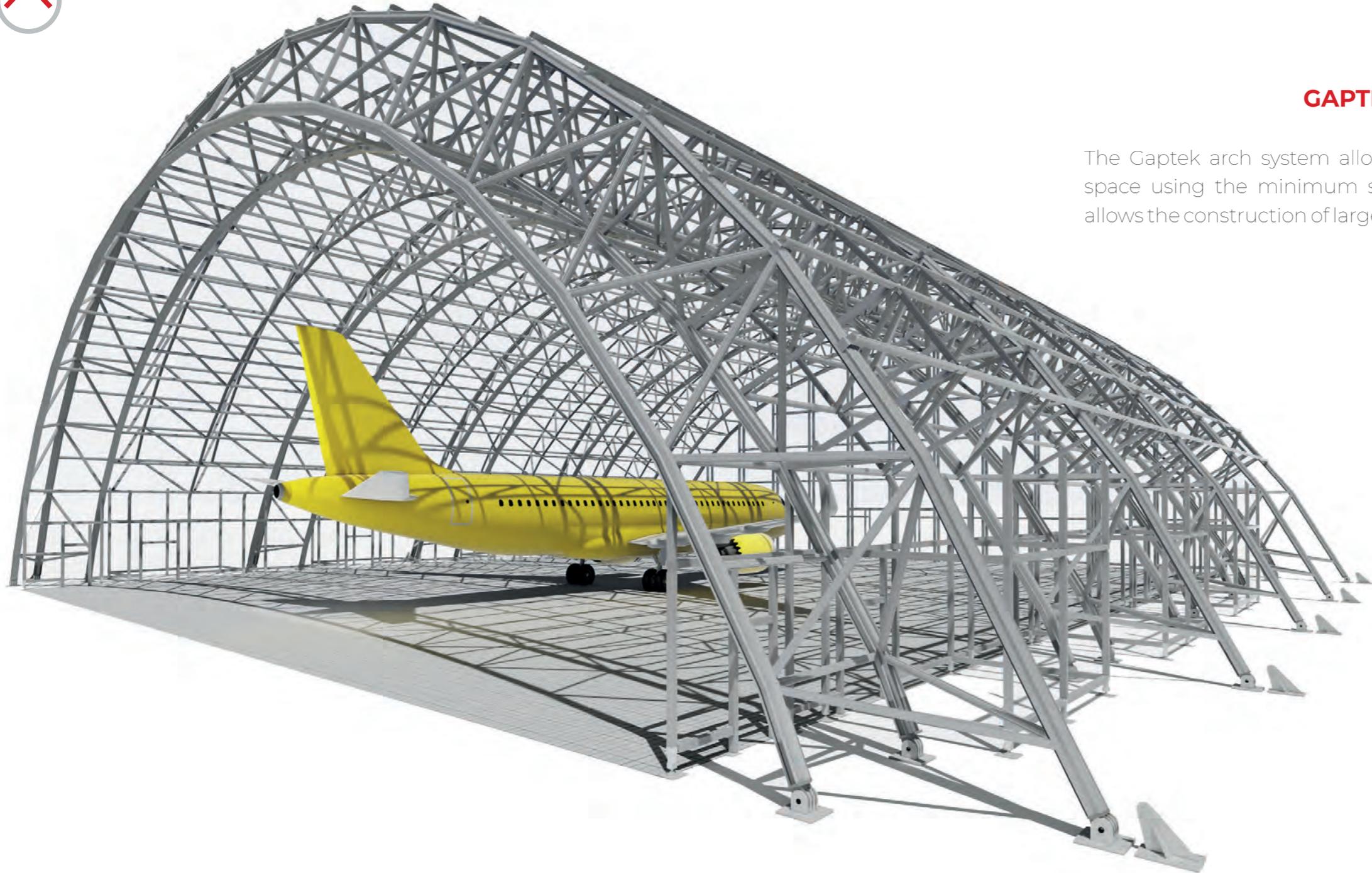


OUR STRUCTURES

GAPTEK **ARCH** GAPTEK **FLAT** GAPTEK **MODULAR**

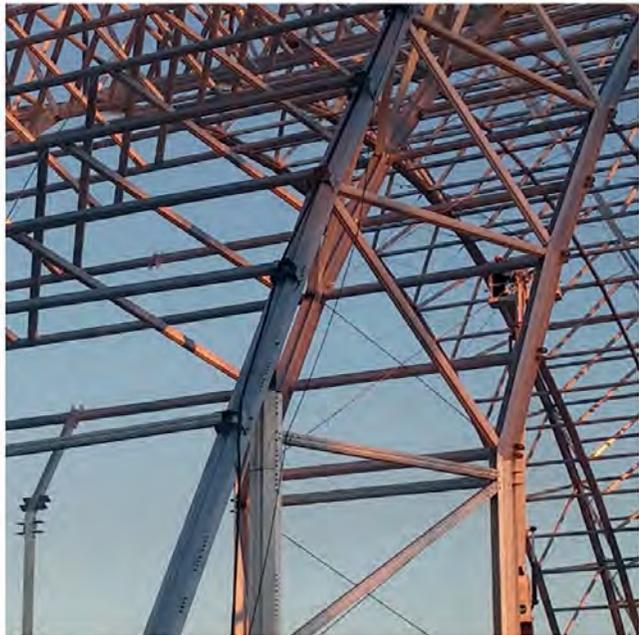
The Gapték's construction system is applied in all types of buildings: structures with large arched spans for hangars and warehouses, or modular structures with several floors for homes, offices, hospitals, etc.

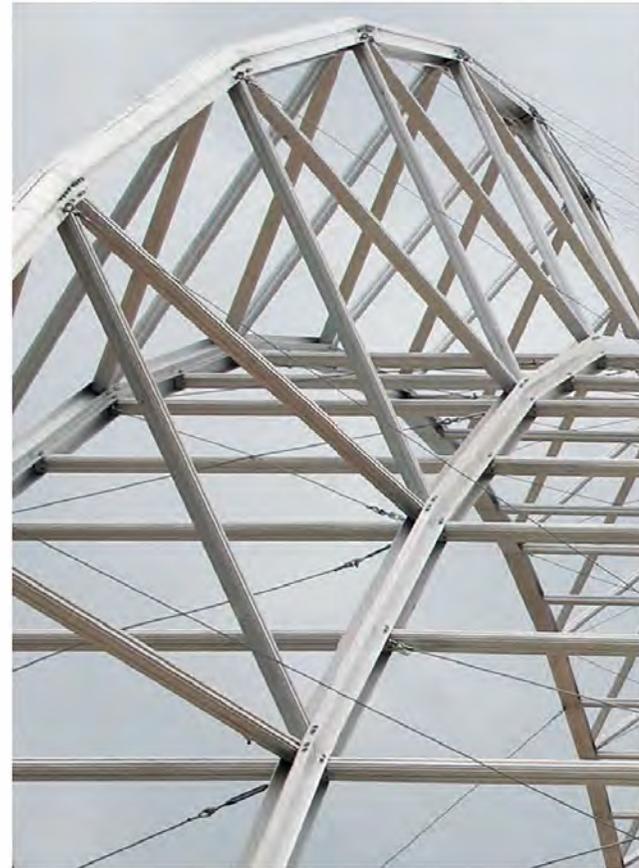
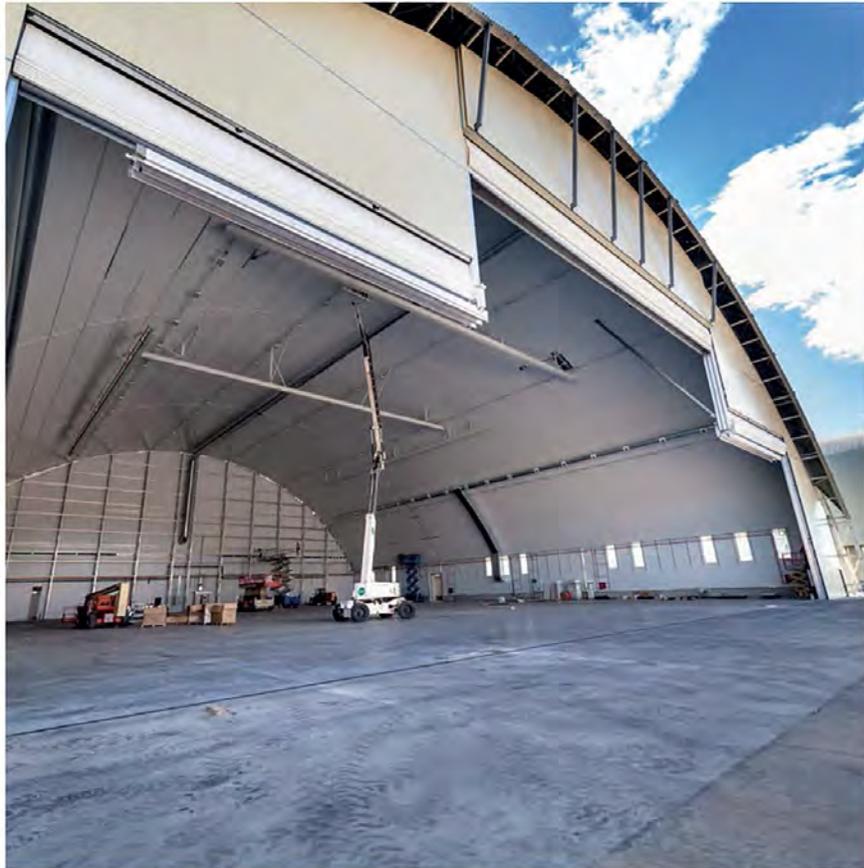
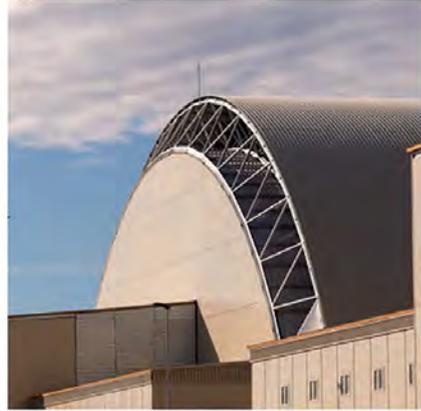
Gapték's construction system can also be easily adapted for special structures as large covers, airport terminals, etc.

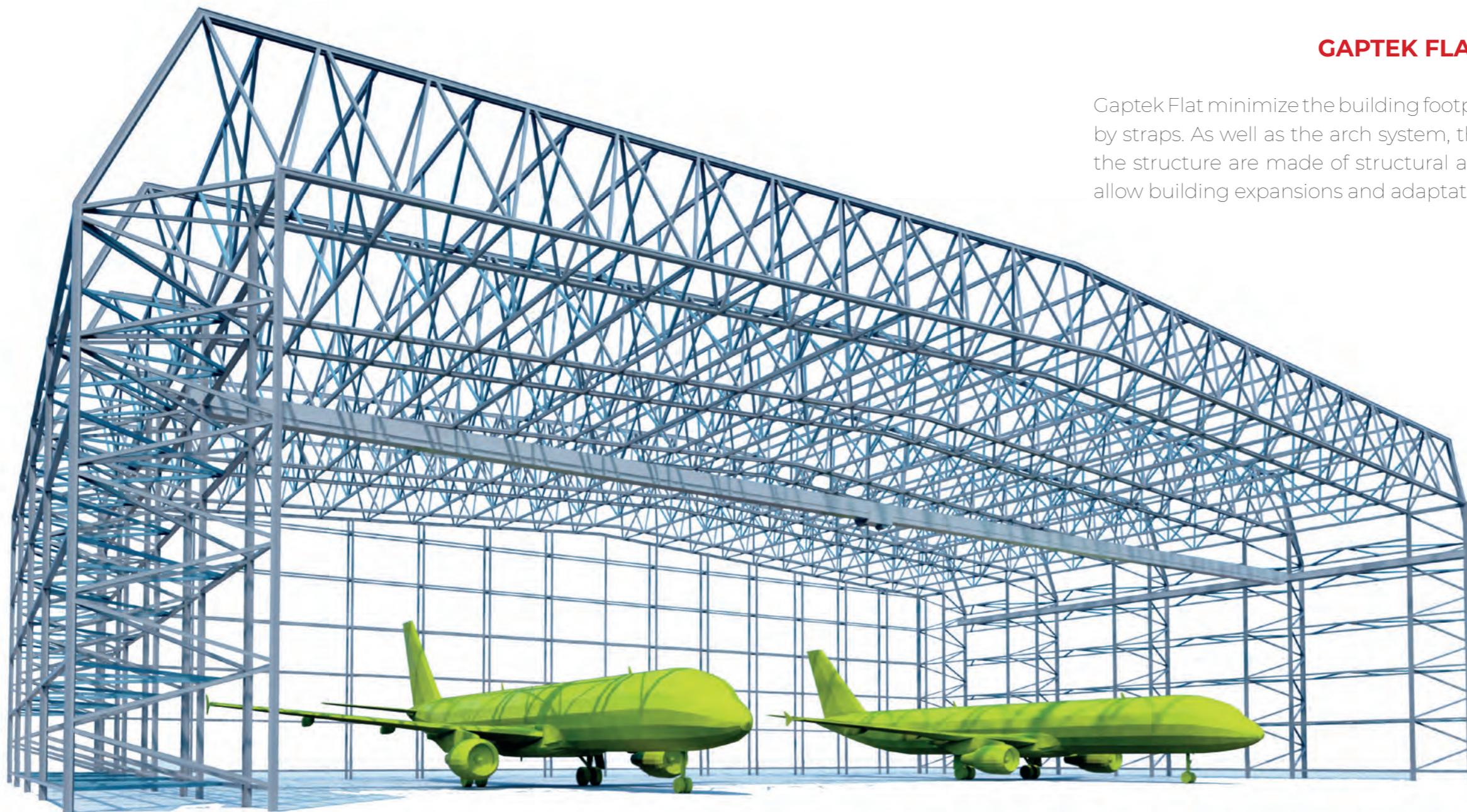


GAPTEK ARCH

The Gaptek arch system allows to maximize the free interior space using the minimum structural material. As a result, it allows the construction of large span buildings without columns.

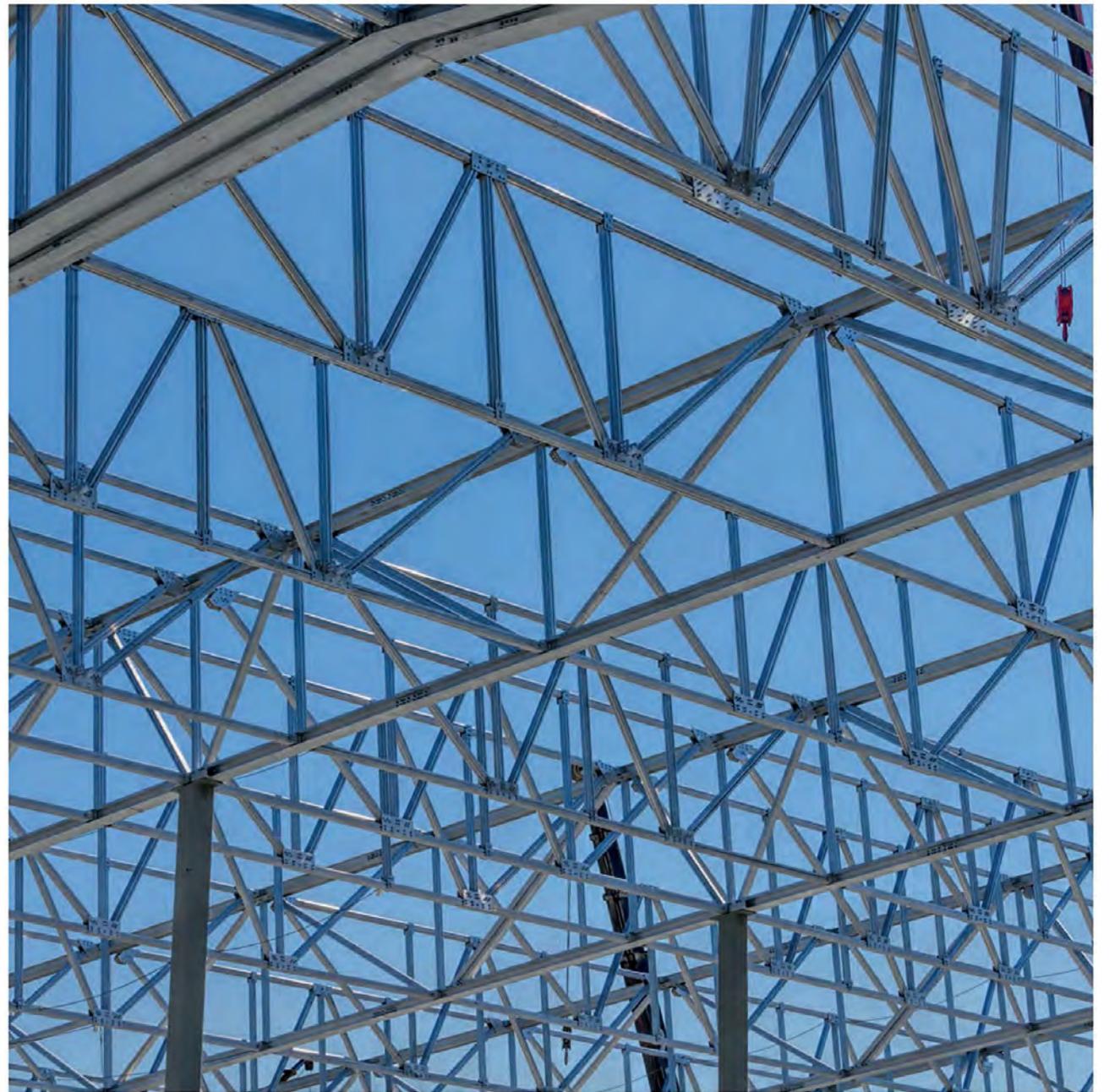
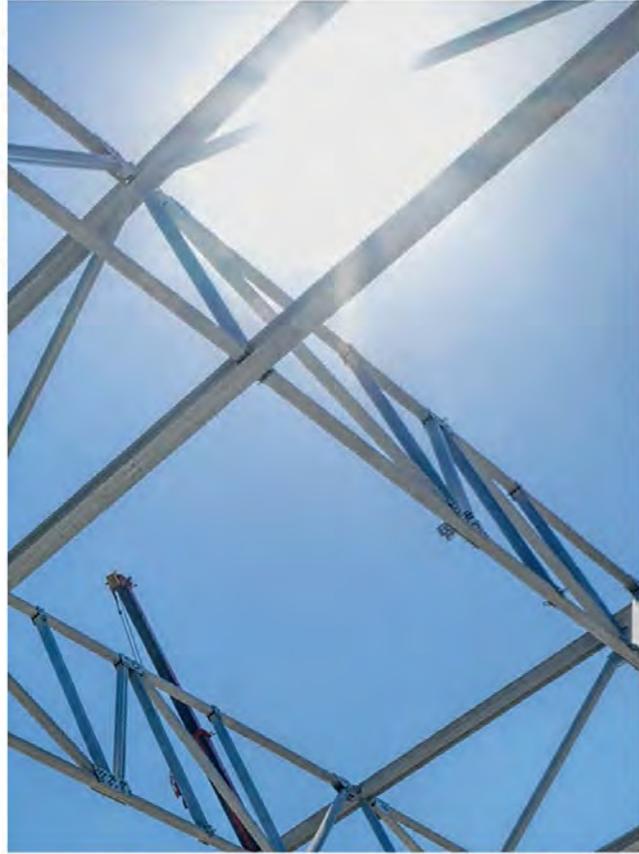


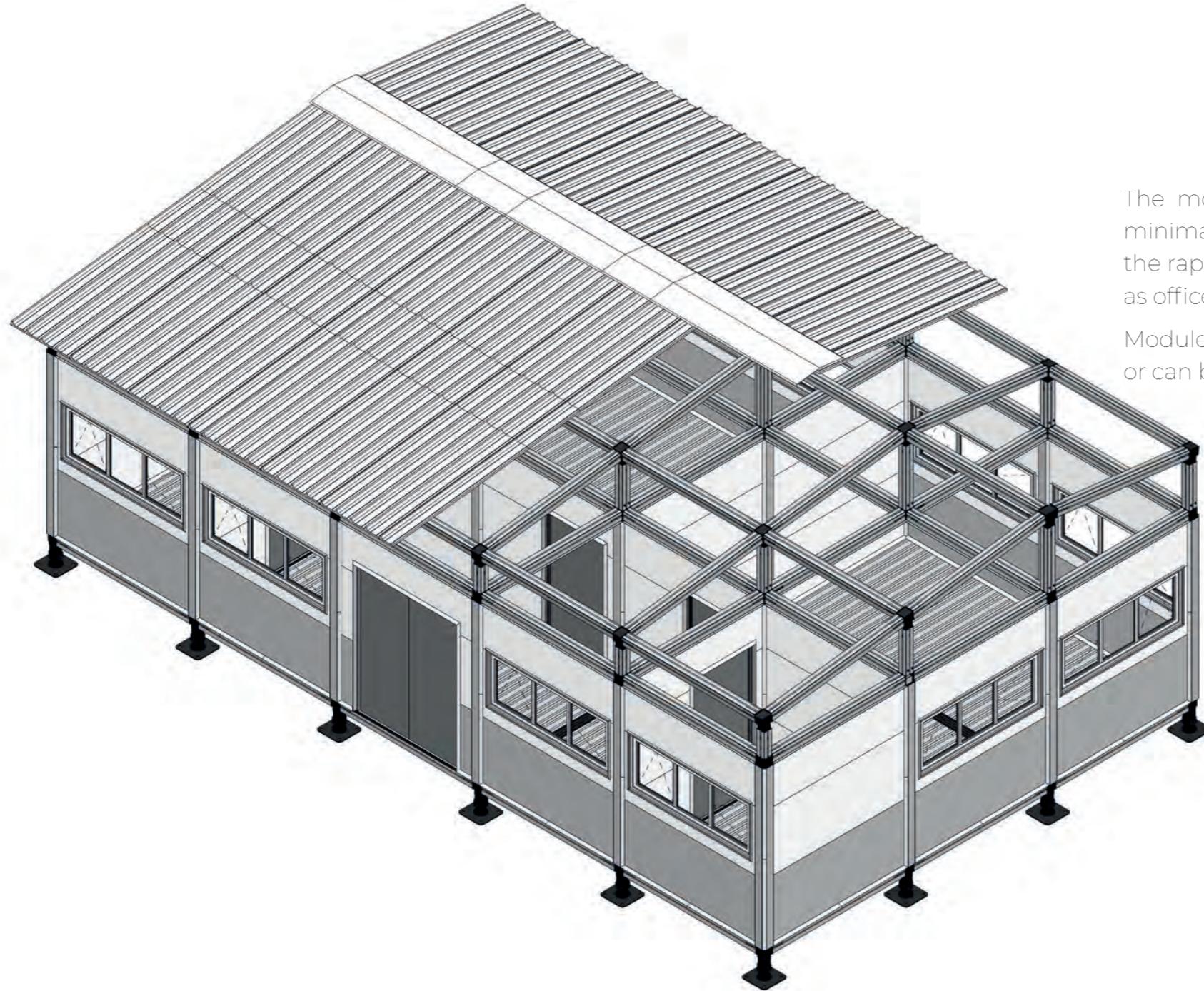




GAPTEK FLAT

Gaptek Flat minimize the building footprint using gantries linked by straps. As well as the arch system, the profiles that compose the structure are made of structural aluminium. Its flat shapes allow building expansions and adaptations quickly and easily.



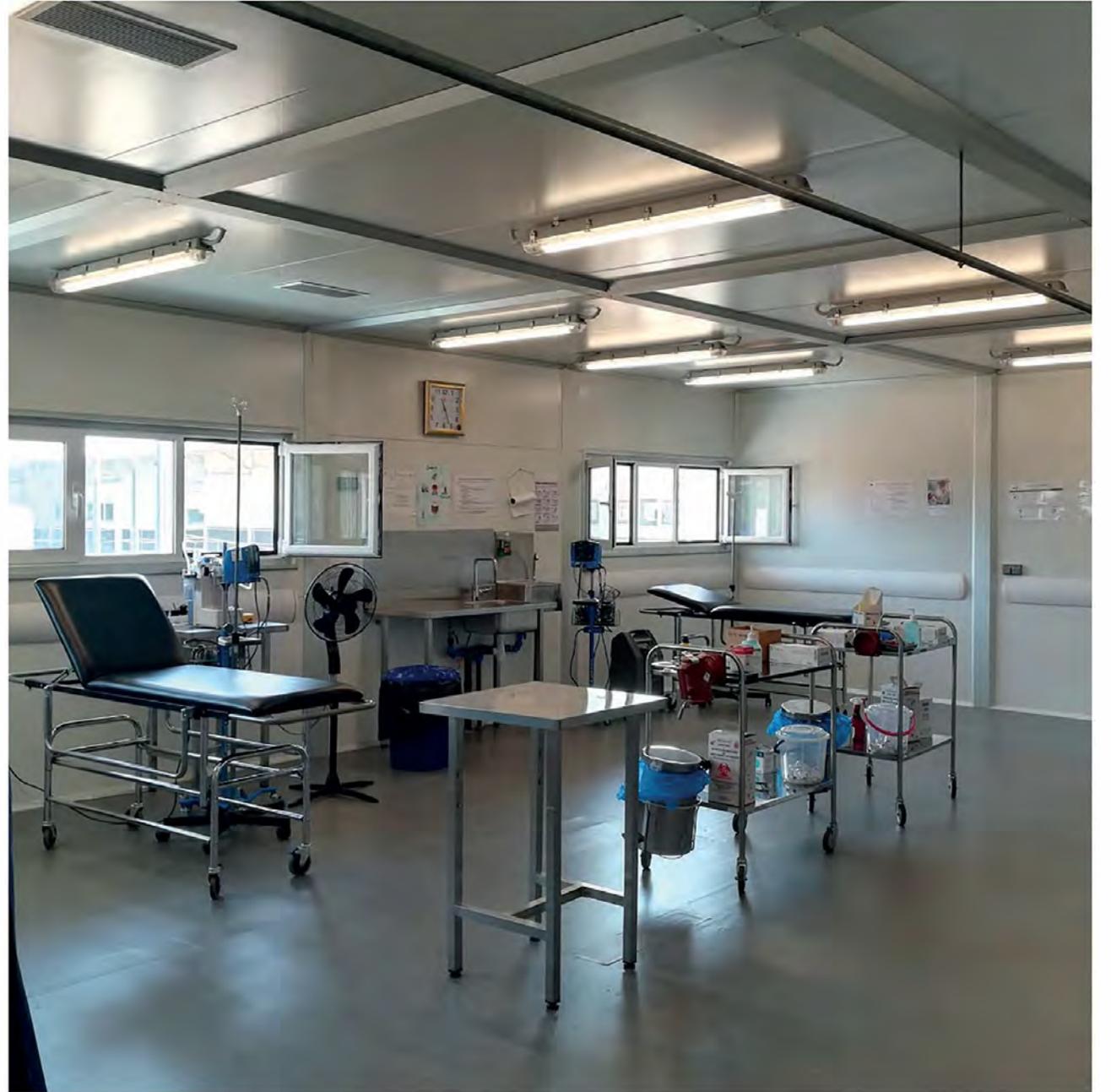


GAPTEK MODULAR

The modules are designed for a directly installation after a minimal preparation of the ground. The modular system allows the rapid construction of buildings with one floor or more such as offices and hospitals.

Modules can be attached to an existing structure and building or can be used as a single or multiple units.



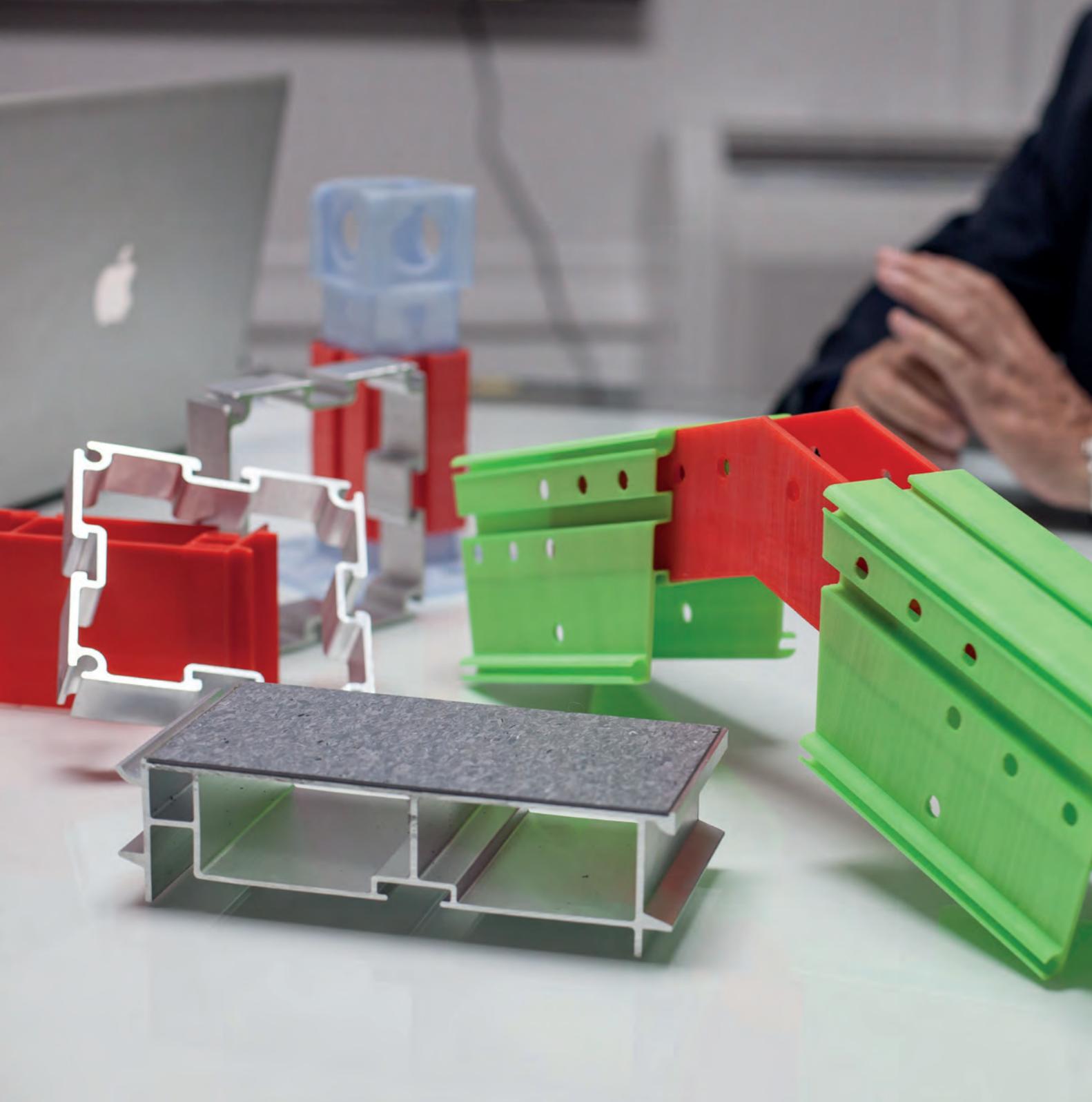




Annex to hospital
Location: Granollers (Spain)
Surface: 225 m²
Execution time: 4 weeks



300 beds hospital
Location: Niger
Work in progress



HIGH QUALITY TECHNOLOGY AND PROJECT CUSTOMIZATION

The Captek system, developed by our Engineering and Architecture departments, is based on the design of high-quality structural profiles.

The structural aluminium we use makes our buildings comply with technical building codes, equating our buildings to those of traditional construction, with the added benefits of modularity.

The design we use allows us to use agile logistics adapted to reach places that are difficult to access. They also allow us to realize buildings with large spans, through easy mechanical assembly that speeds up construction times, without the need for heavy machinery.

The technological characteristics of the Captek system allow you to customize the design of your projects.

Hangar for the A400M with offices
Location: Sevilla (Spain)
Surface: 5.040 m²
Execution time: 20 weeks



The structures are composed of structural aluminium profiles with mechanical joints.

This mechanical joint system allows to reduce construction times respecting the previously established cost of the work.



Maintenance Hangar for the A400M
Location: Zaragoza (Spain)
Surface: 5.040 m²
Execution time: 22 weeks



We incorporate R&D+i in product development and with the use of design tools, structural calculation programs and 3D printing we study and carry out increasingly advanced buildings.

GAPTEK AND THE ENVIRONMENT

“The EU aims to be climate-neutral by 2050 – an economy with net-zero greenhouse gas emissions. This objective is at the heart of the European Green Deal and in line with the EU’s commitment to global climate action under the Paris Agreement.

The transition to a climate-neutral society is both an urgent challenge and an opportunity to build a better future for all.

All parts of society and economic sectors will play a role – from the power sector to industry, mobility, buildings.” *

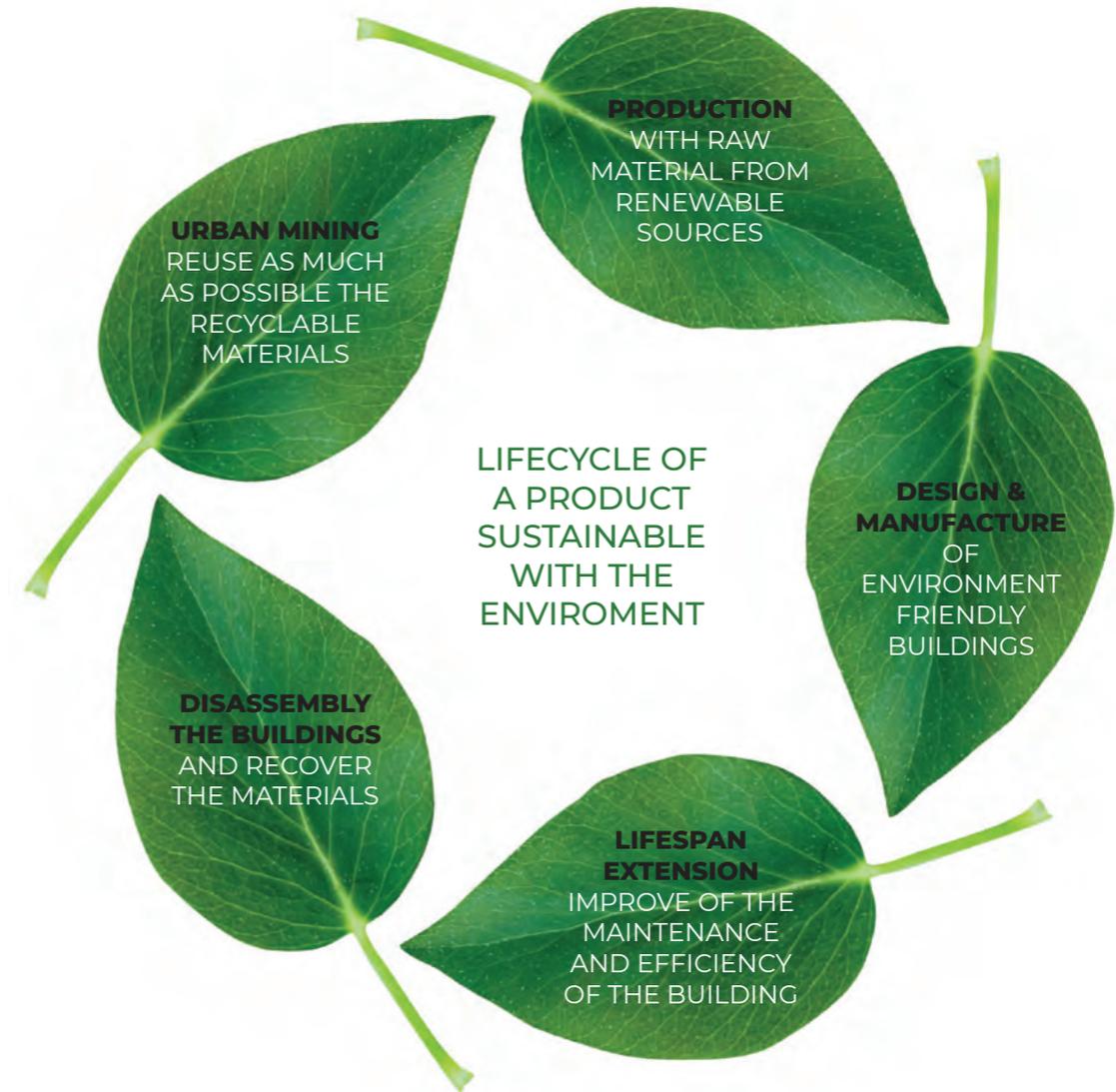


(*) https://ec.europa.eu/clima/policies/strategies/2050_en



CIRCULAR ECONOMY

Since its inception Captek has adopted measures in favour of the circular economy in its projects. Today this allows us to continue moving towards a more CO₂ neutral economy, and comply with the parameters and new environmental laws indicated by the EU. The solutions proposed by Captek have a low environmental impact from the manufacture and logistics to the construction.





SUSTAINABILITY

External consultants' studies commissioned by Gaptex have shown that the CO₂ emissions of our structures are up to 28% lower than those of a steel frame building.

The Gaptex's system also makes it possible to highly reduce construction waste due to our pre-design phase and building method.

Aluminium is a 100% infinite material that can be fully recycled without losing quality or physical properties.



PERFORMANCES OF THE BUILDING AND ECONOMIC SAVING

Passive system and energy efficiency

We condition the building using passive systems, typical of sustainable architecture, such as climate control, geothermal, solar and wind technologies. Thanks to an air circulation system between the finishes, the temperature is regulated in any type of environment. The elimination of thermal bridges through our insulating solutions represents great energy savings and optimal performance of the building in both hot and cold climates, thus reducing the cost of air conditioning.

Antarctica Warehouse at the Scientific Base
Location: Antarctica



BENEFITS OF GAPTEK SYSTEM

SUSTAINABLE

The CO₂ emissions of the structures of a Gaptex aluminium building are up to 28% lower than those of a steel building.

SHORT CONSTRUCTION TIME

We pre-design and manufacture our buildings for a rapid assembly on site.

RELOCATION AND REUSE OF BUILDINGS

The dynamism of Gaptex's architecture makes it easy to relocate our structures. It is the perfect balance between quality, resistance, and mobility.

LOW MAINTENANCE COST

Minimum maintenance of the structures, even in aggressive environments, thanks to the antioxidant properties of aluminium.

SCALABLE

Buildings that are expandable and adaptable to your activity thanks to the use of modular structures.

METODOLOGY

CONSULTING

Strategy definition

Initial meeting

Information Exchange

Project approval

PROJECT DEVELOPMENT

Summary and preparation

Concept design

Design development

Technical design

MANUFACTURING

Material purchase

Manufacturing

Quality control

LOGISTICS

Packaging

Shipping
and transportation

ASSEMBLY

Civil works

Building assembly

MEP's installation

Delivery

AFTERSALES

Project Management

24h Support

Maintenance





TECHNICAL CODES

Compliance with the International Building Code (IBC)

Eurocode 3: Steel structures

Eurocode 9: Aluminum structures

UNE EN1090-82/5000: European regulation on the design and manufacture of steel and aluminum structures

UNE 1090-1:2009+A1:2011: Requirements for the conformity assessment of structural components

UNE 1090-2:2019: Execution of steel and aluminum structures

UNE 1090-3:2019: Execution of steel and aluminum structures

CE marking available on all materials

ISO 9001: 2015 in Quality Management

ISO 14001: 2015 in Environmental Management

ISO 27001: 2013 in Information Security Management

ISO 45001: 2018 Occupational Health and Safety Management





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GAPTEK

