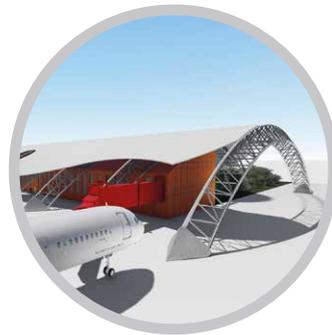




PROACTIVE SOLUTIONS
IN MODULAR
ARCHITECTURE

AERONAUTICAL SOLUTIONS





Gaptek was founded over 12 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 sectors.

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 time.

We maintain a leadership position in the Aeronautical sector thanks to our continuous improvement in the company's products, services and processes.

We focus on generating a competitive advantage to maintain a 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.

Gaptek's team is the main asset of the company, allowing our constant growth and progress. The fusion of talent and a multicultural approach are instrumental to our success.

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

A handwritten signature in blue ink, appearing to read "Tomas Feliu".

Tomas Feliu, President of Gaptek



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

The Gaptex system is tailored to the needs of each project, with proven advantages over traditional construction methods.

We operate worldwide, providing feasibility to a diverse nature of clients and any project needs.

Our main business focus is the Aeronautical Industry, where our system has a wide range of application to the constantly evolving sector dynamics.





CREATED TO BUILD WITHOUT LIMITS

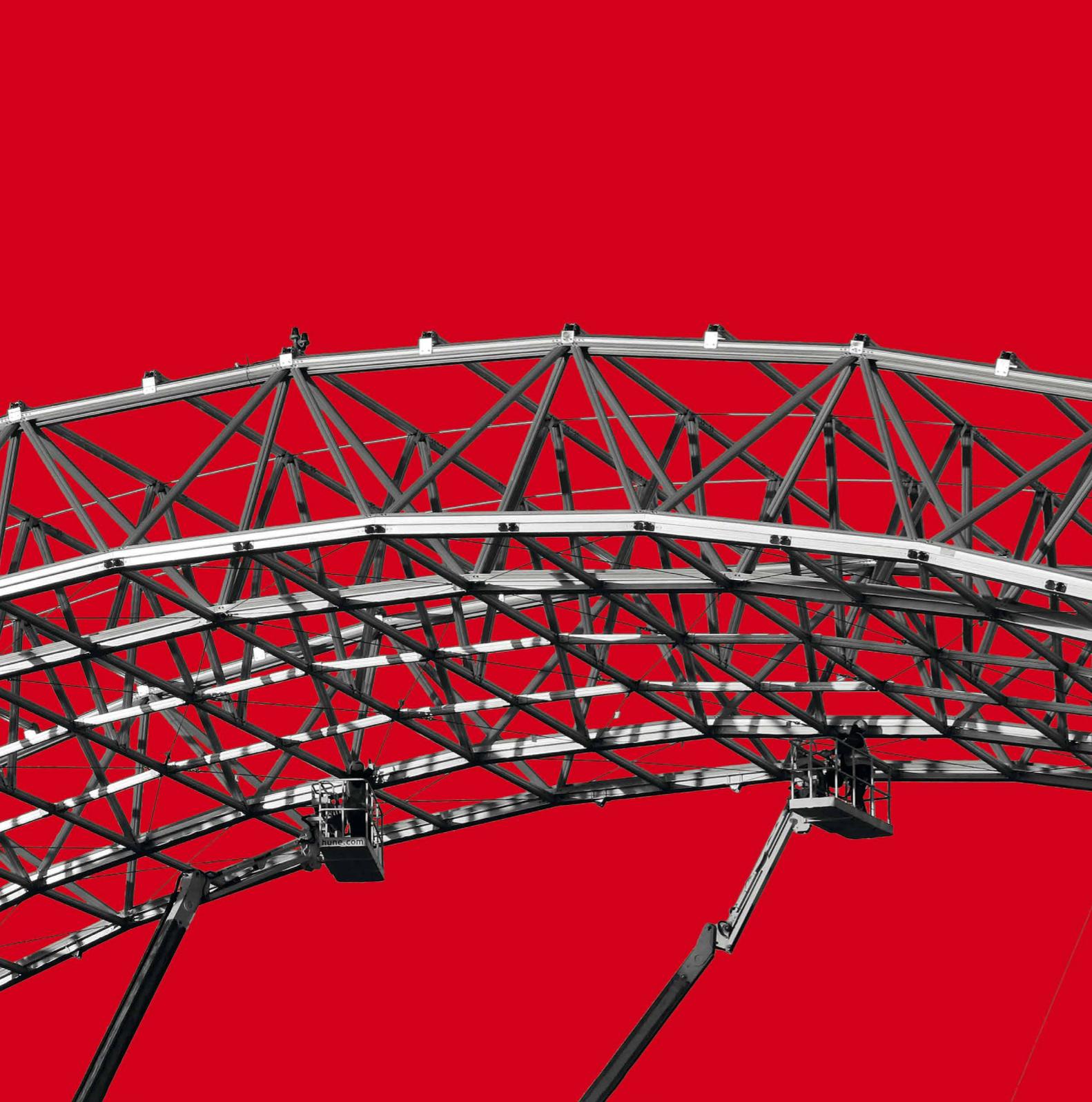
Technologies and our own construction system

Gaptek intelligently applies existing construction elements and technologies.

Applied to our methodology, this allows us to always have a total control over the three fundamental parameters of the project: time, quality and cost.

The structures of Gaptek buildings are mainly made of pre engineer constructive elements assembled by mechanical joints.

The lightness, durability and sustainability of our structures make it possible to reduce construction time, maintenance costs and logistical needs, increasing the value of the project.



OUR SOLUTIONS

Hangars

MROs

FBOs

Passenger Terminals

Cargo Terminals

Aircraft Paint Facilities

Warehouses

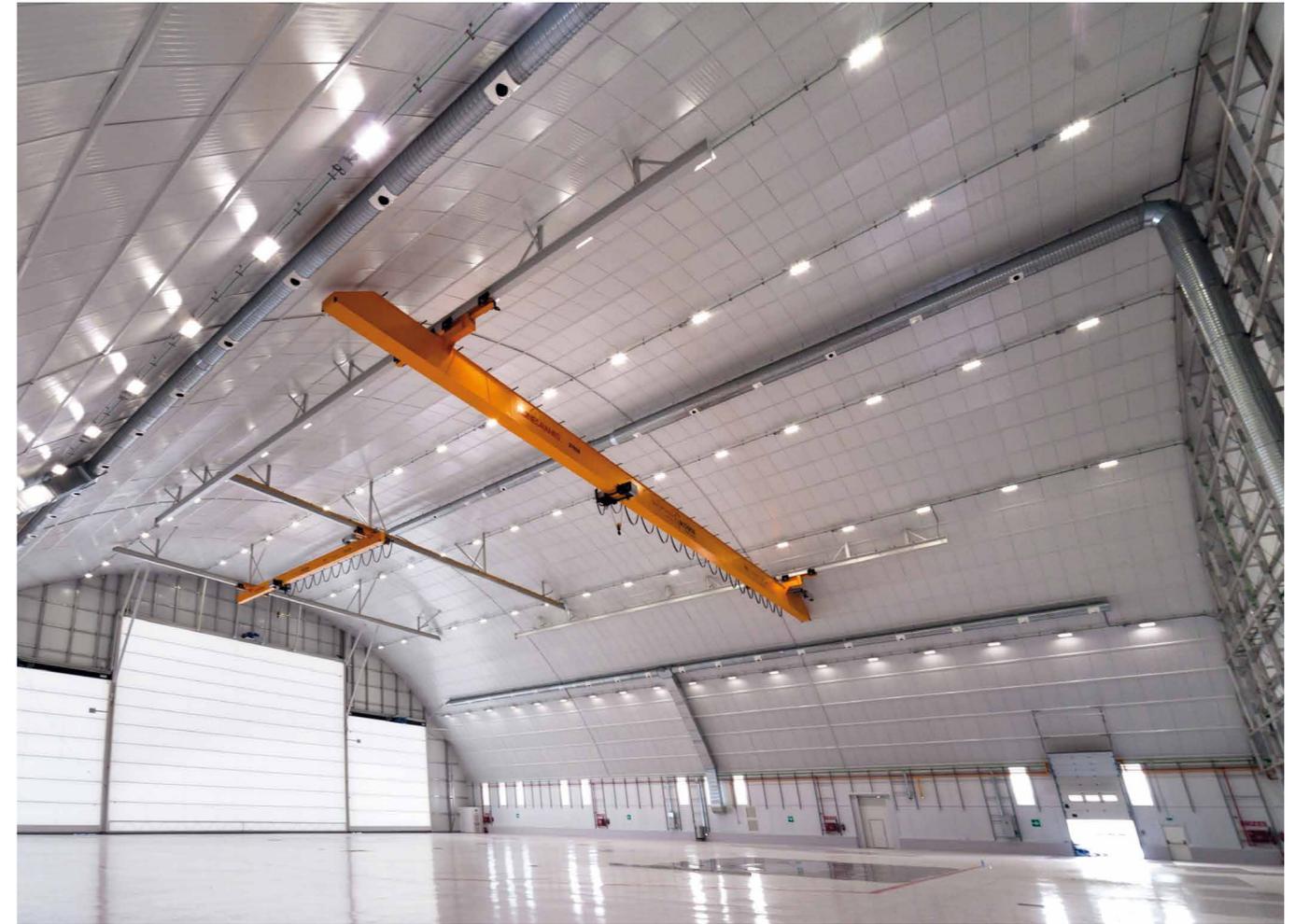
Shelters

Offices

**FULLY CUSTOMIZED AERONAUTICAL BUILDINGS
THROUGH AN INDUSTRIAL TURNKEY SOLUTION**



Maintenance Hangars for the A400M
Location: Zaragoza (Spain)
Surface: 54,250 ft² / 5.040 m²
Execution time: 22 weeks





A400M Engine workshops
Location: Zaragoza (Spain)
Surface: 47,253 ft² / 4.390 m²
Execution time: 18 weeks



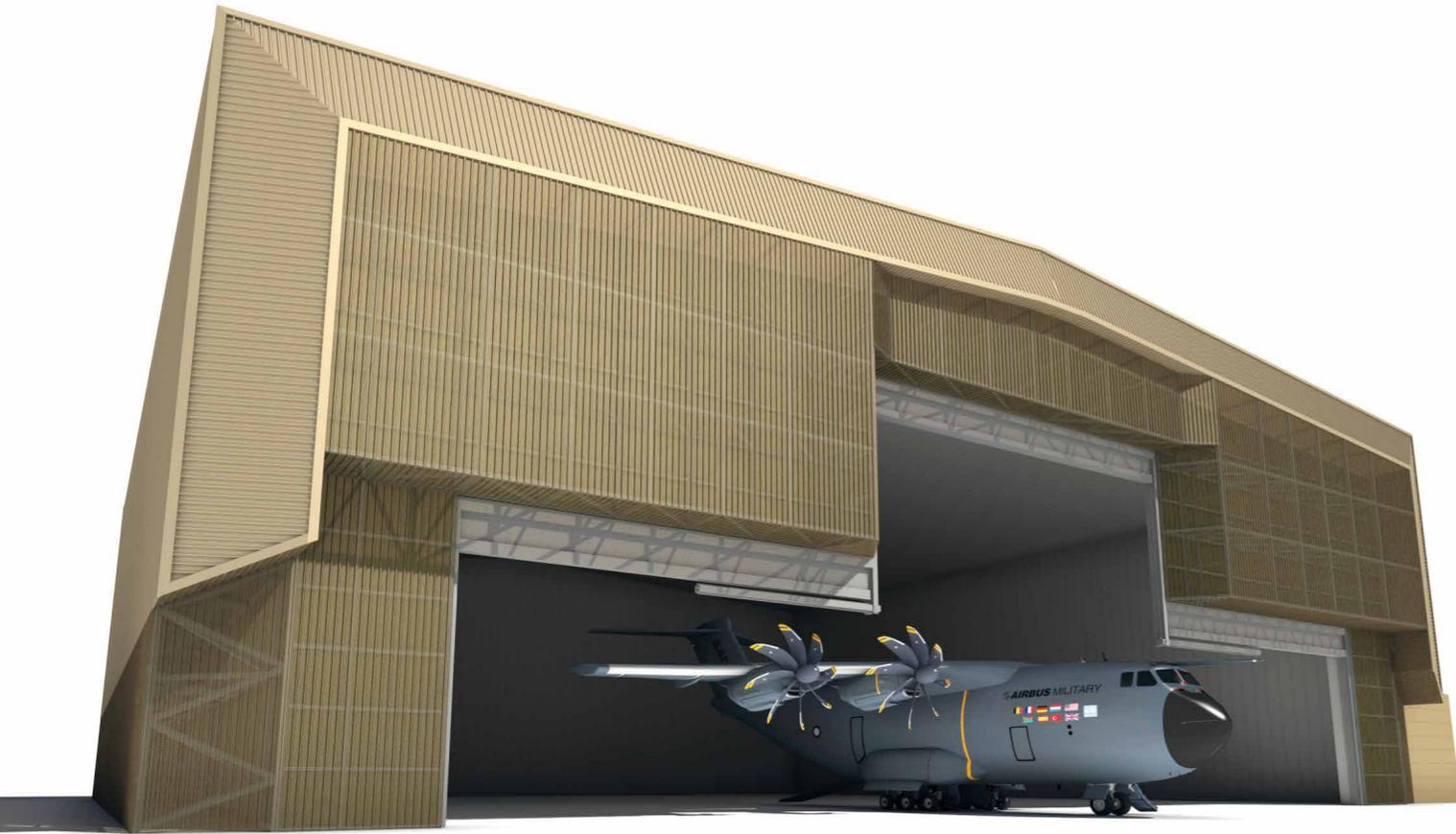
A400M Engine workshops
Location: Zaragoza (Spain)
Surface: 47,253 ft² / 4.390 m²
Execution time: 18 weeks





Cold Air Cargo Terminal
Warehouse and Offices
Location: Spain
Built-up area: 36,123 ft² / 3.356 m²
Execution time: 23 weeks





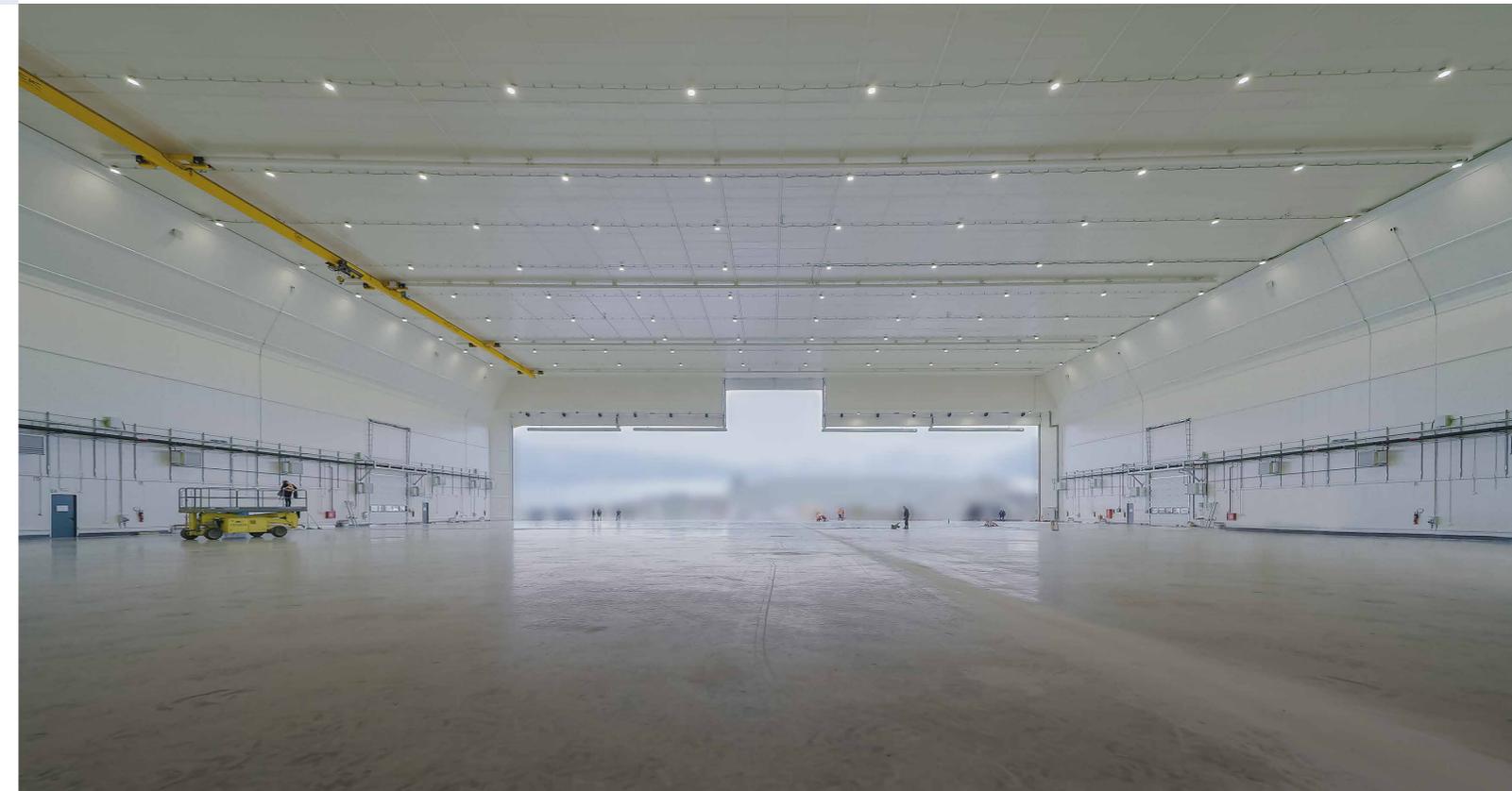
Hangar for MRTT A330 with offices
Location: Sevilla (Spain)
Surface: 60,546 ft² / 5.625 m²
Execution time: 24 weeks



UAV Reaper Hangar
Location: Talavera la Real (Spain)
Surface: 11,151 ft² / 1.036 m²
Execution time: 5 weeks



Premium Aerospace Center Hangar Extension
Location: Oklahoma (USA)
Surface: 19,687 ft² / 1.829 m²
Execution time: 20 weeks



Hangar Fokker Techniek
Location: Hoogerheide (Netherlands)
Surface: 64,583 ft² / 6.000 m²
Execution time: 24 weeks





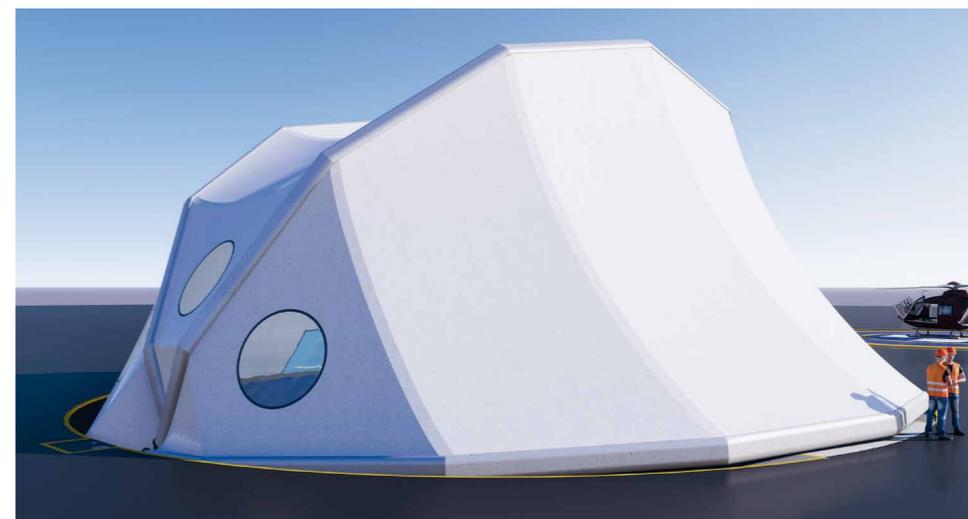
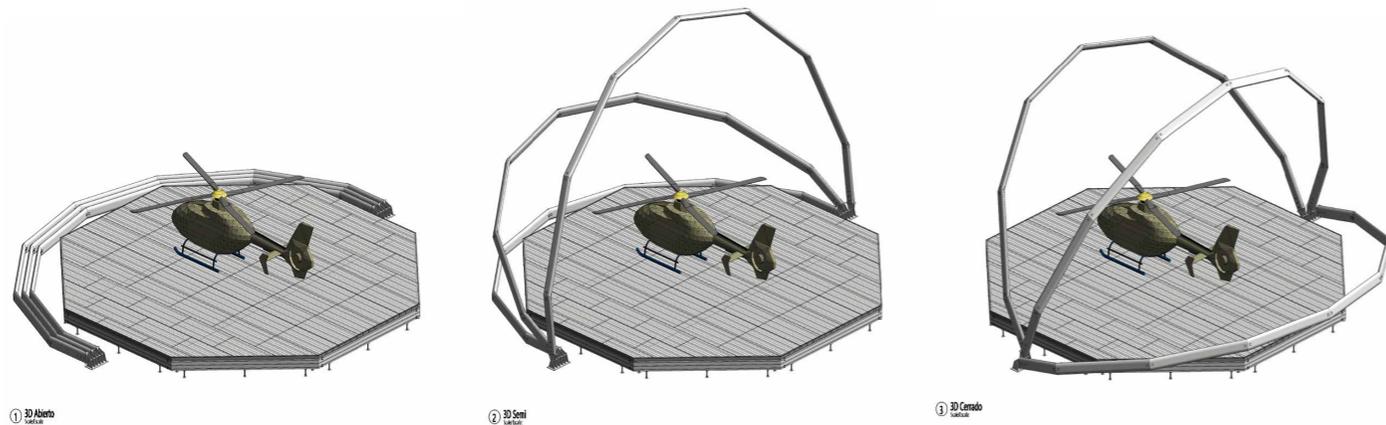
Multi-bay wide-body hangar a A380-800 + 4 A321XLRs
Location: Confidential
Surface: 131,300 ft² / 12.200 m²
Under going Construction

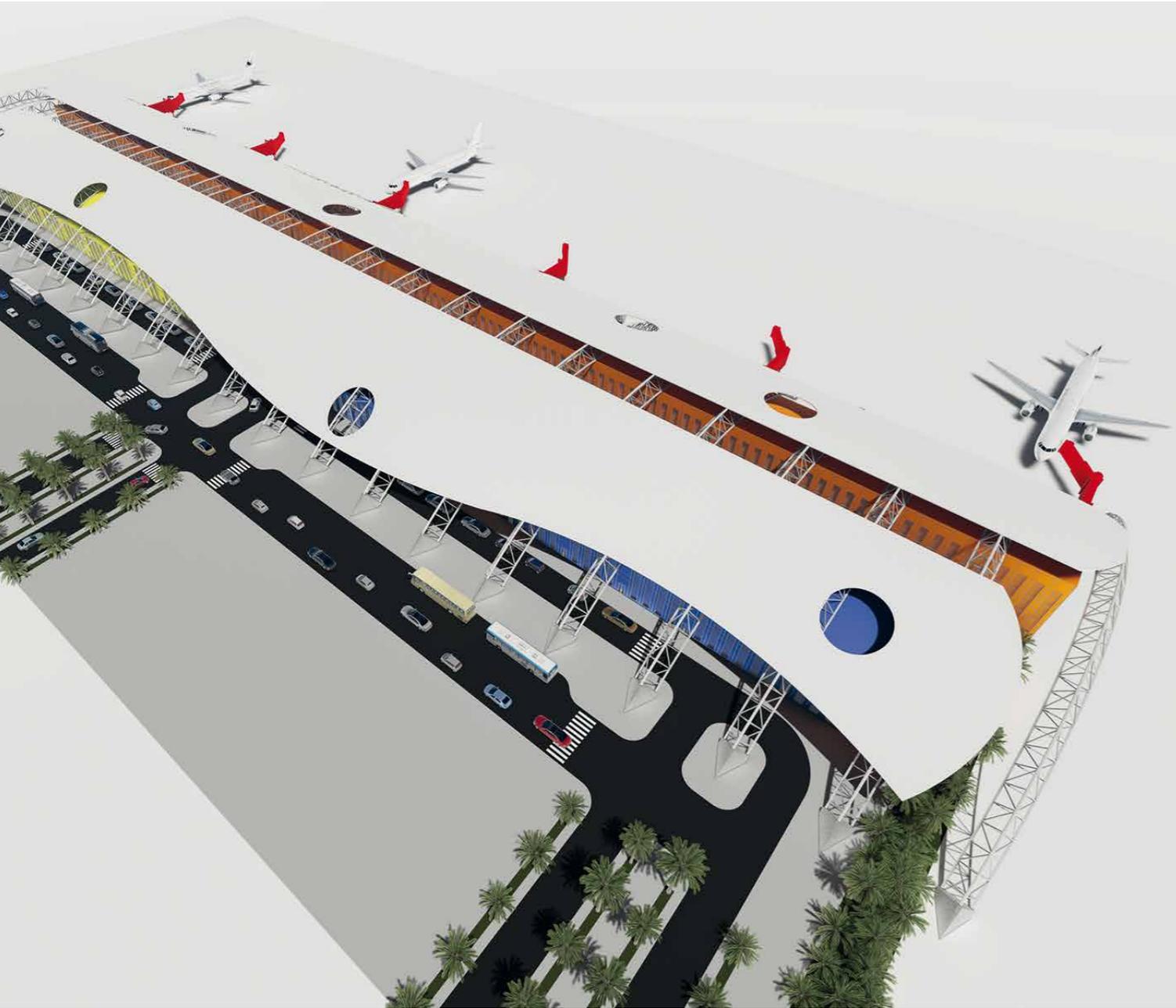


Multi-bay wide-body hangar
2 A380-800s + Workshops & Offices
Location: Dubai, Middle East
Surface: 163,600 ft² / 15,200 m²
Under development

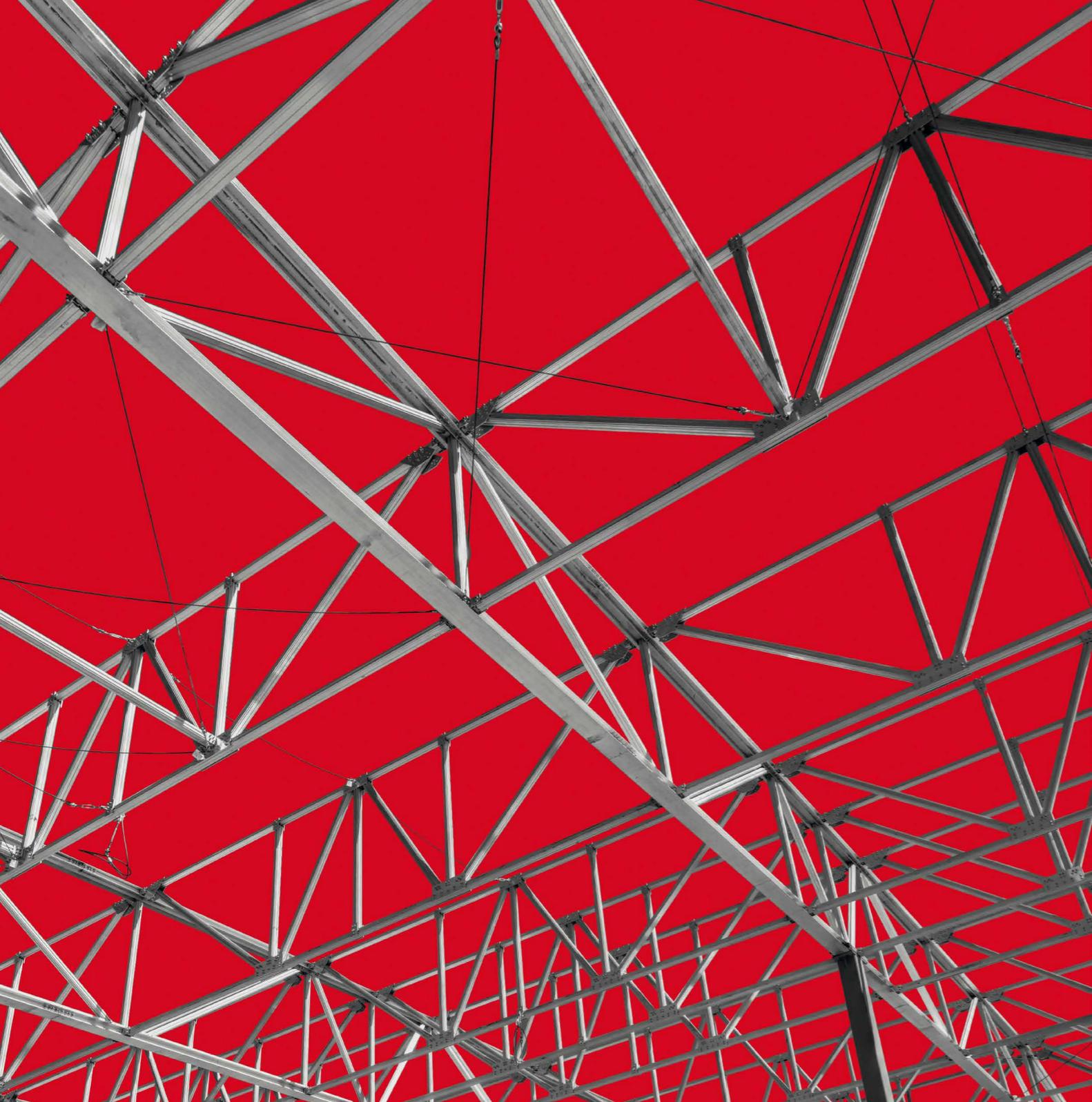
SHELLIPORT

- Aircraft protection from aggressive weather events
- Remote control opening and closing in less than 3 minutes
- No obstacle infringement, folding completely when helipad in operation
- Electromagnetic / nav aids permeability of the shell
- Fully customizable to client requirements (civil or military use)
- Easy transportation and installation on-site to both existing / new helipads





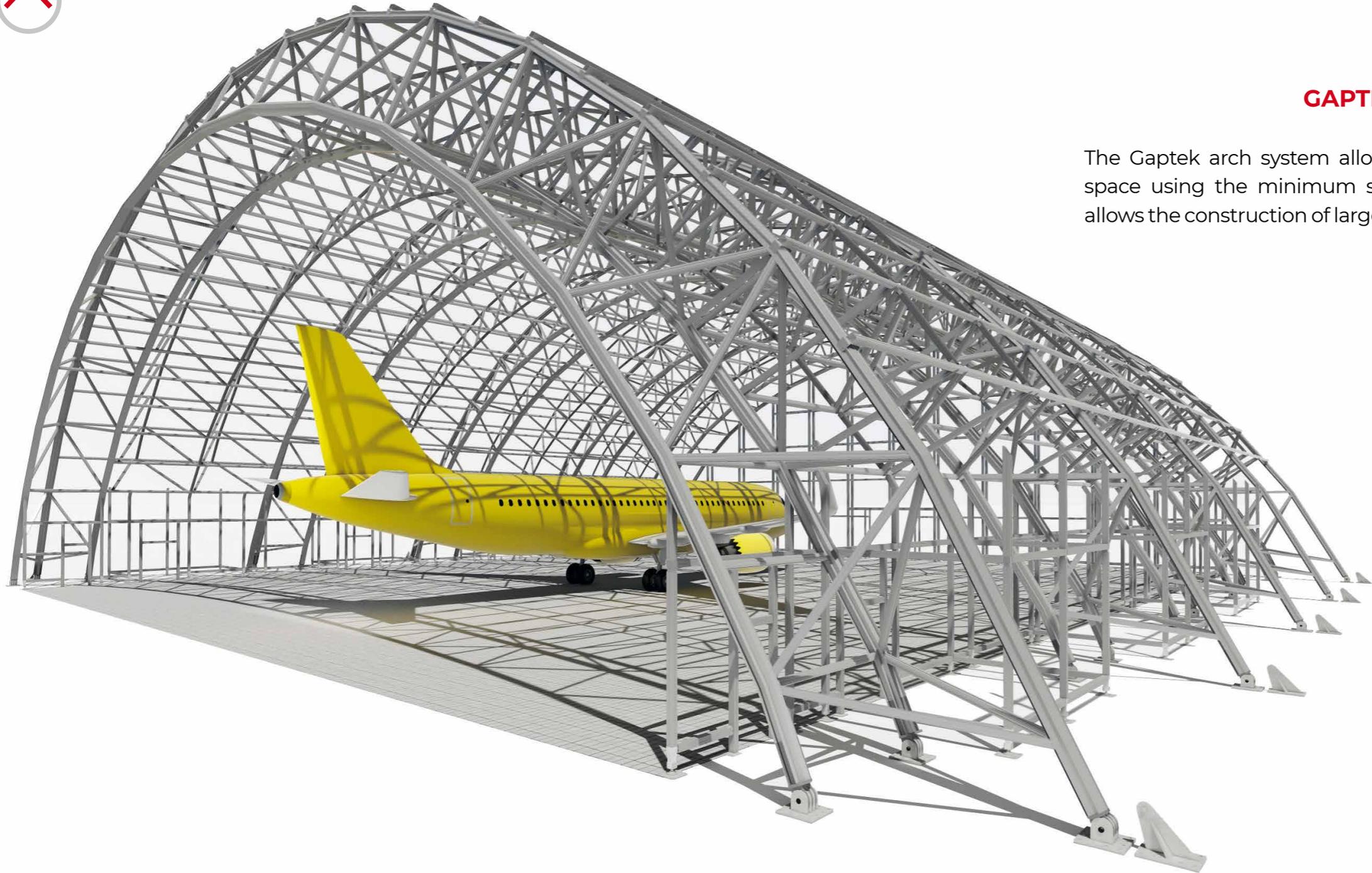
Airport Terminal Model
Surface: 221,413 ft² / 20.570 m² in 2 floors
Facilities includes in to the project:
Baggae Check-in, Departure's Security Control, Boarding-Arrival Hall,
Arrival Passport Control, Baggage Collection, Arrival's Secutiry Control, Arriva's Hall.



OUR STRUCTURES

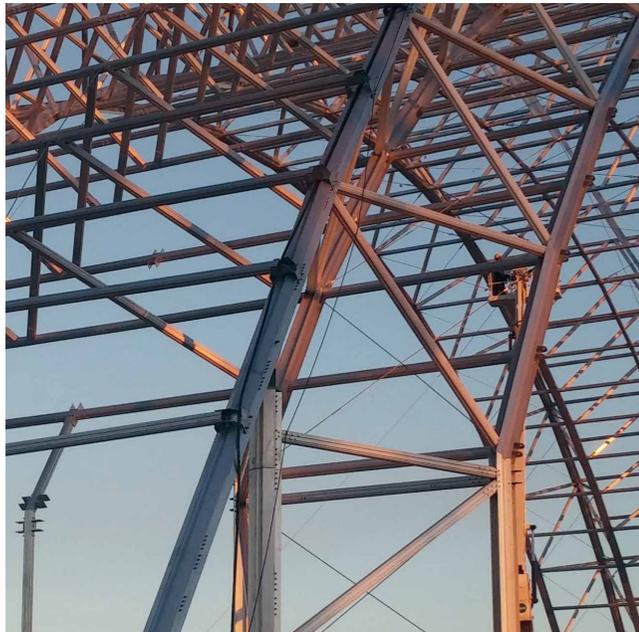
The Gaptex's construction system is applied in all types of buildings: structures with large arched spans for hangars and warehouses, or modular structures with several floors for homes, offices, hospitals, etc.

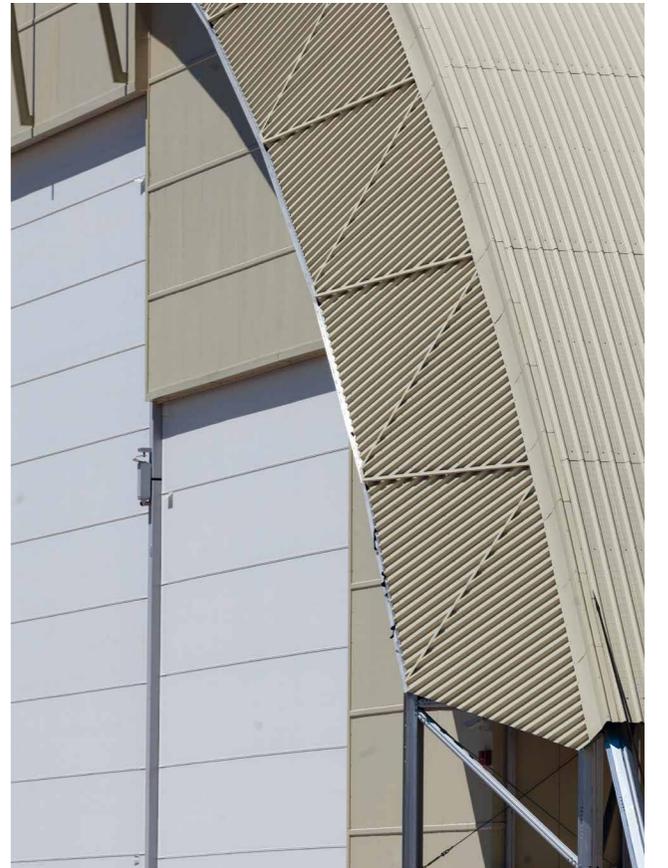
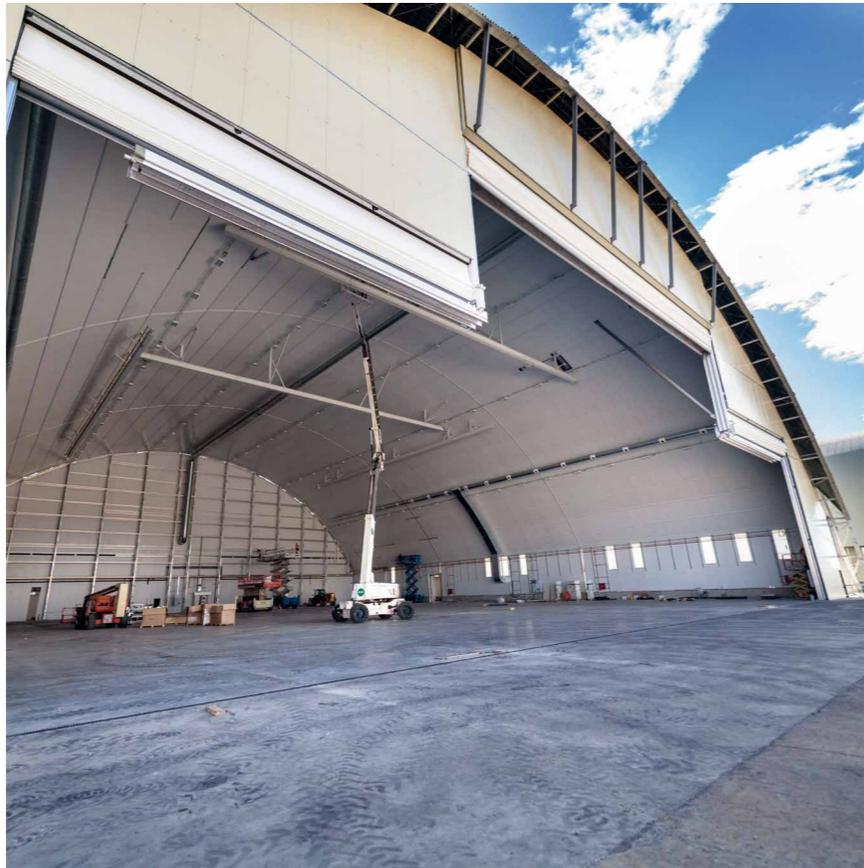
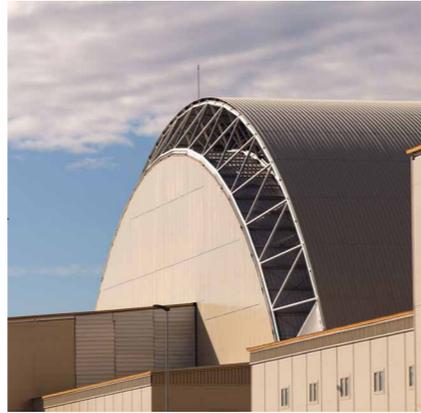
Gaptex's construction system can also be easily adapted for special structures like large covers, airport terminals, etc.

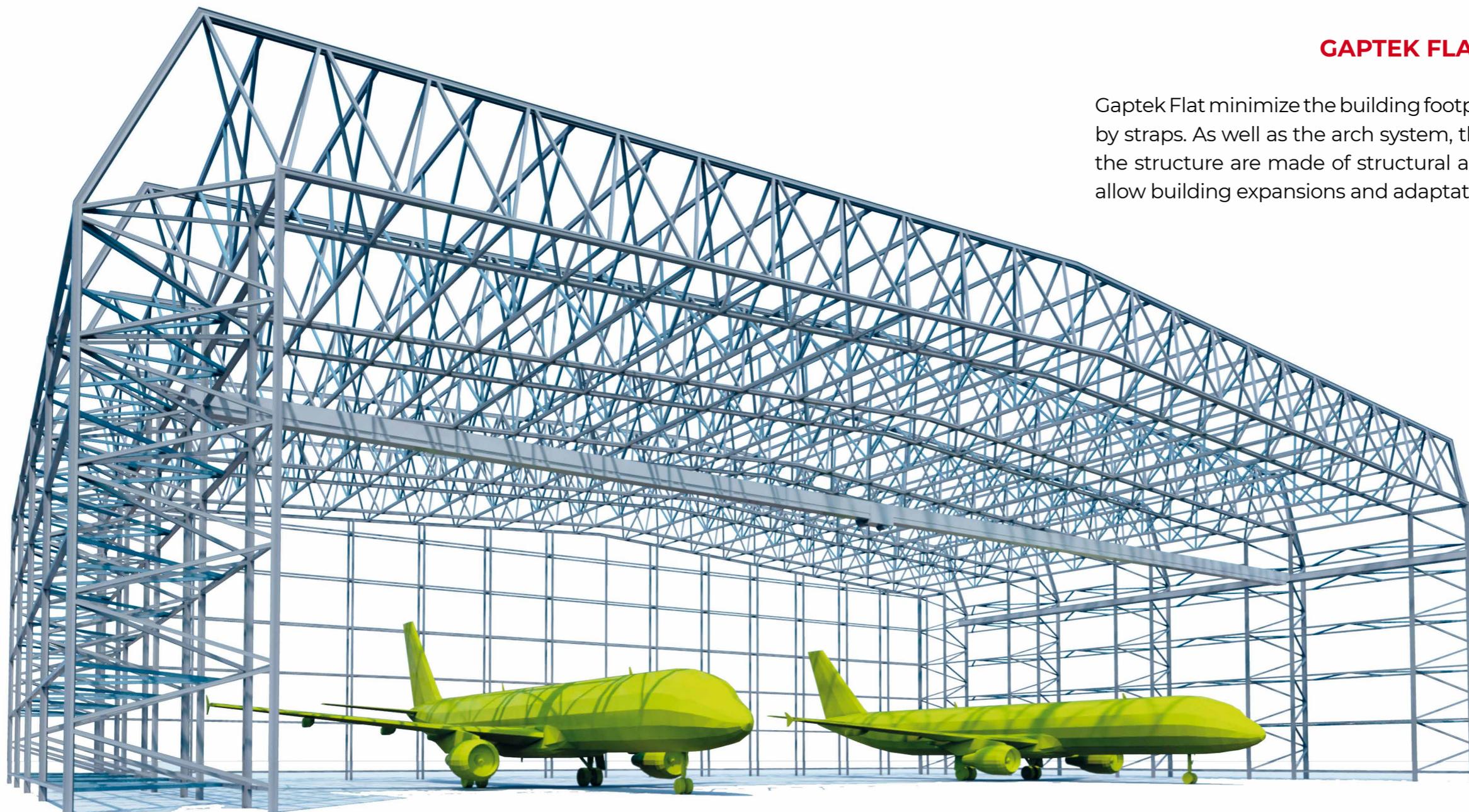


GAPTEK ARCH

The Gapttek 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.

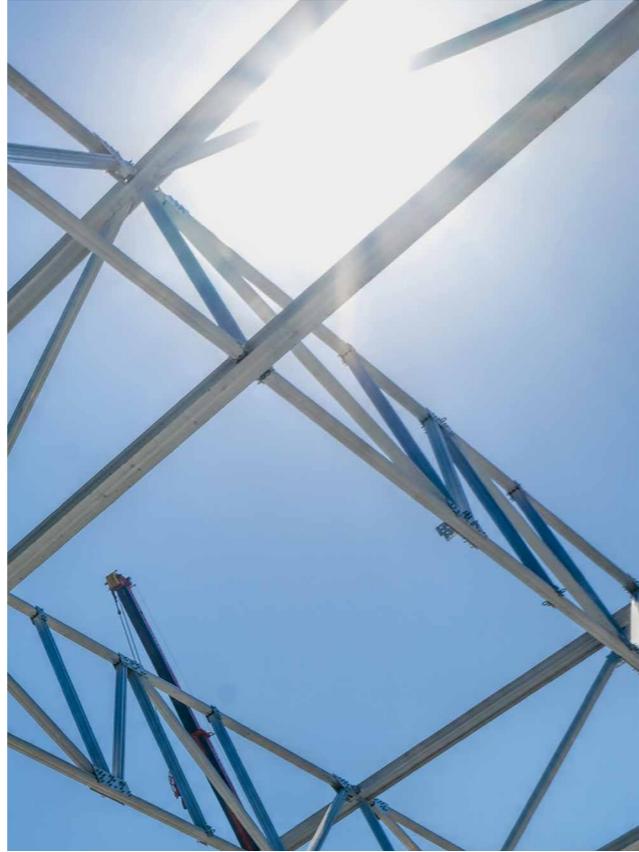
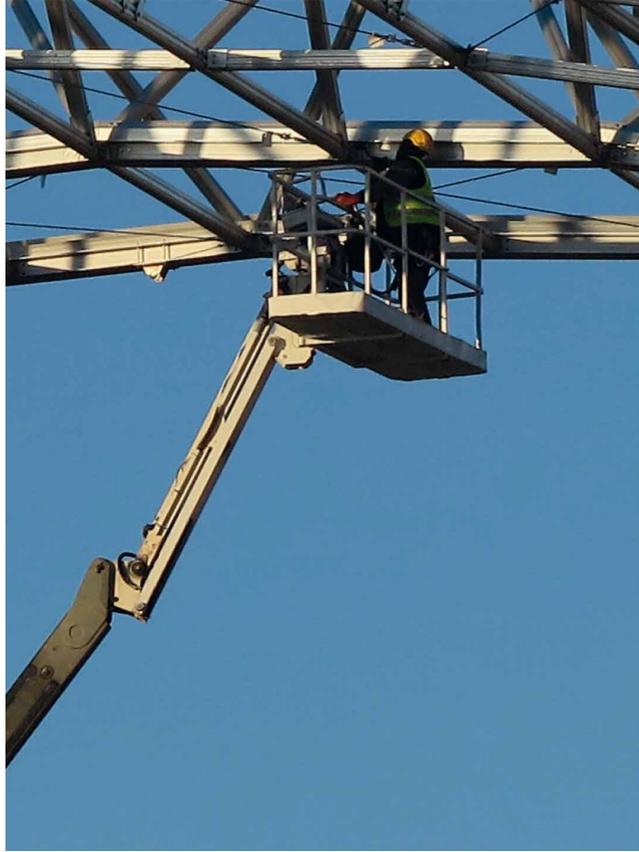


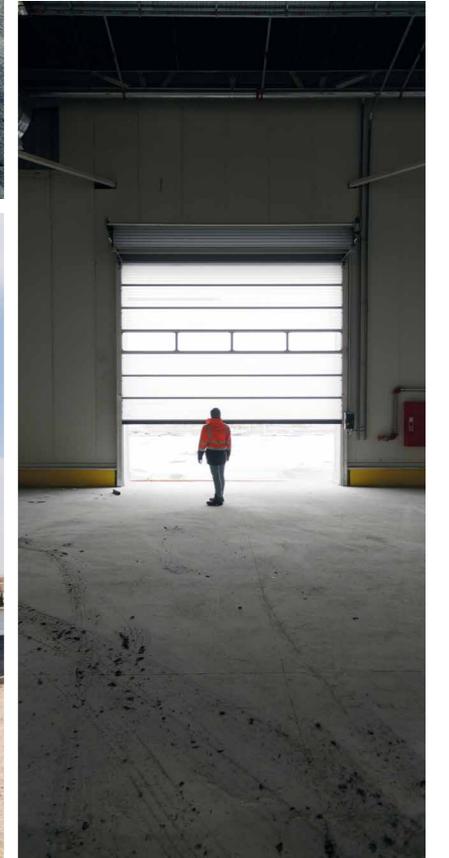




GAPTEK FLAT

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.



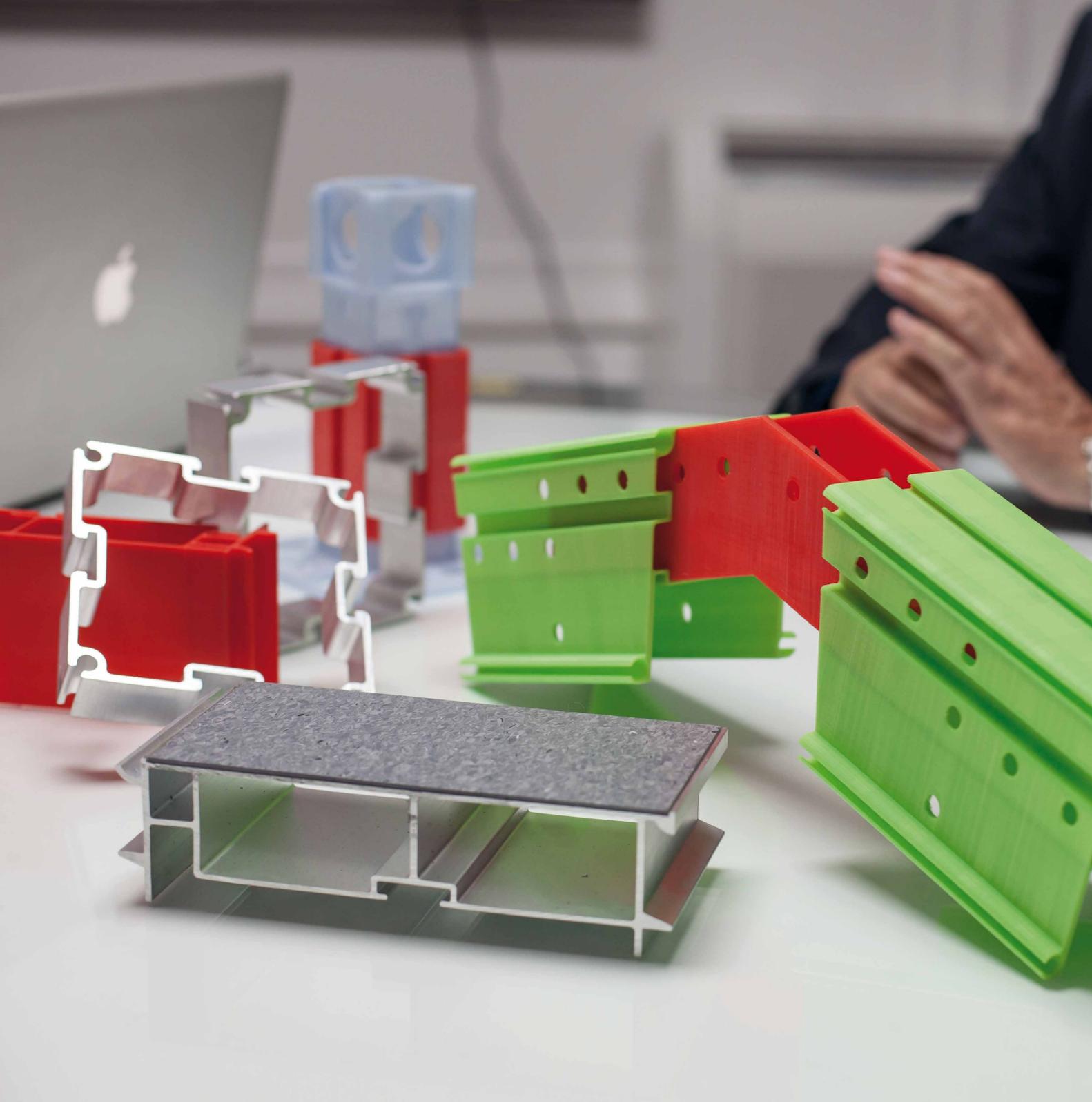


Offices attached to Hangars
Location: Zaragoza (Spain)
Surface: 30,838 ft² / 2.865 m²
Execution time: 14 weeks



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.



HIGH QUALITY TECHNOLOGY AND PROJECT CUSTOMIZATION

The Gaptex 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 compliant 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 Gaptex system allows you to customize the design of your projects.



Maintenance Hangar for the A400M
Location: Zaragoza (Spain)
Surface: 54,250 ft² / 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.” *



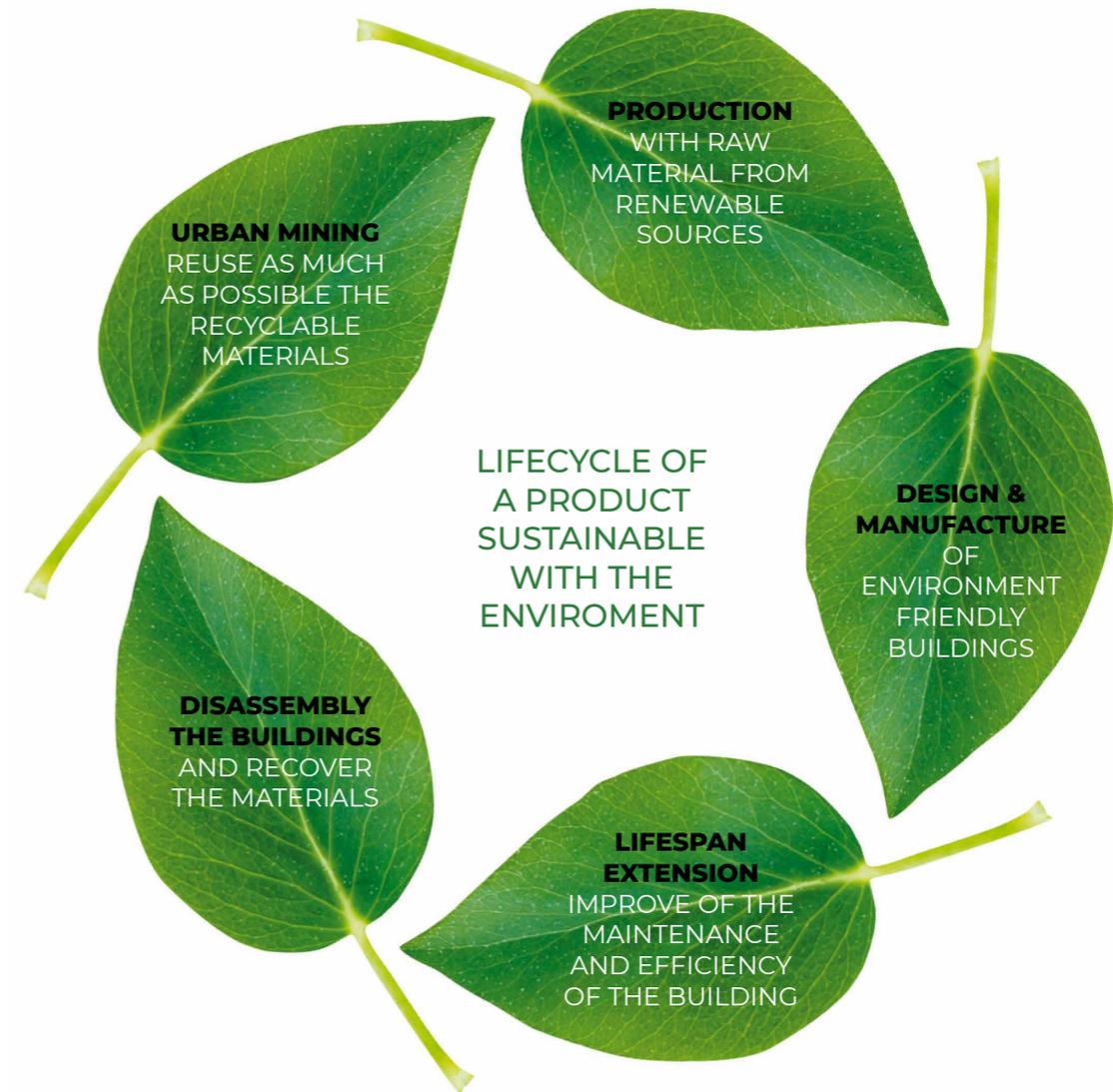
(*) https://ec.europa.eu/clima/policies/strategies/2050_en



CIRCULAR ECONOMY

Since its inception Gaptex 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 Gaptex 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.

Structural 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



THE GAPTEK SYSTEM

SHORT ASSEMBLY TIME

All constructive elements are assembled through clicking and/or screwing methods, simplifying the construction process.

LOW MAINTENANCE COSTS

Minimum maintenance requirements thanks to the aluminium structure, even in aggressive environments.

SUSTAINABILITY

Lower carbon footprint compared to traditional steel structures, reduced construction waste and increased recyclability in favor of the circular economy.

ENERGY EFFICIENCY

Passive systems incorporated for reduced operating costs, with the possibility to achieve green building certifications if required.

SCALABLE AND ADAPTABLE

Entirely customisable and expandable solutions due to the use of the flexible architecture principle.

REVERSIBLE AND RELOCATABLE

Easily demounted solutions, can be transported to new locations or repurposed on-site.

PREDEFINED QUALITY

All design and constructive elements comply with international building codes, CE markings and can be easily adapted to local regulations.

CONTINUOUS INNOVATION

Efficiency in the design and construction process is ensured through the use of state-of-the-art digital tools and BIM principles.

TURNKEY SOLUTION

Simplicity in the product offer under a single commissioning covering the design, manufacturing, construction and maintenance.

METODOLOGY





TECHNICAL CODES

Compliance with the International Building Code (IBC) and enabling organisations to comply with EASA/FAA Part-145 Certificate

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

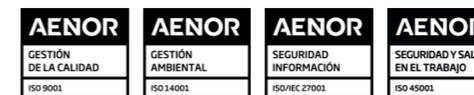
CE marking available on all materials

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



Fondo Europeo de Desarrollo Regional
"Una manera de hacer Europa"





Balmes 226, 3º 08006 Barcelona, Spain
+34 972 445 072 • +34 658 728 198
comercial@gaptek.es

www.gaptek.eu





Balmes 226, 3º 08006 Barcelona, Spain

+34 972 445 072 • +34 658 728 198

comercial@gaptek.es

www.gaptek.eu

GAPTEK IS CURRENTLY PRESENT WORLDWIDE

BARCELONA

- Spain -

ROTTERDAM

- The Netherlands -

DUBAI

- UAE -

AMMAN

- Jordan -

OKLAHOMA CITY

- USA -

