

CASE HISTORY

MRO aircraft hangar Teruel Airport

Innovation and Efficiency Take Climate Solutions to New Heights

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MRO Aircraft Hangar - Teruel Airport, Spain (MRO = Maintenance Repair Overhaul)

From **SPANTECH INTERNATIONAL SA** - Belgium, specialized in the Design and Construction of large modular structures, for **TARMAC AEROSAVE - HQ** France, specialized in the Maintenance, Repair and Overhaul of aircraft.

**Impresind: Climate Comfort Solutions
Tailored for Aerospace Hangars**





 **TARMAC**
AEROSAVE

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- over 8.000 m2 of surface area;
- 95 meters long; 85 meters wide; 34 meters high.

To meet the growing demand for aircraft maintenance, **TARMAC AEROSAVE**, a European leader in aircraft lifecycle management, has commissioned the construction of an innovative hangar at **Teruel Airport**, Spain.

The hangar, **the largest metal-textile in the world**, is designed to accommodate up to one Airbus A380 or four A320s at the same time.

Designed and built in just nine months by SPANTECH INTERNATIONAL, the project represents an engineering milestone in terms of innovation, flexibility and sustainability.



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THE CHALLENGE

The hangar presented **significant technical challenges** related to its structural characteristics (*95 meters long, 85 meters wide and 34 meters high*):

- **Thermal destratification:** preventing the accumulation of hot air in the high areas to reduce energy consumption.
- **Operating comfort:** maintaining uniform temperatures to improve working conditions in all areas of the hangar, including the highest points.

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THE SOLUTION

Thanks to the collaboration with SPANTECH, IMPRESIND has supplied **52 ELITURBO units**, strategically positioned to meet the specific needs of the structure, without interfering with the activities and transforming the largest metal-textile hangar into a sustainable and highly functional environment:

ENERGY EFFICIENCY

by eliminating thermal stratification, energy costs for heating are **reduced by up to 30%** in environments of this size.

OPTIMAL OPERATING COMFORT

uniform temperatures make the working environment more comfortable, contributing to the productivity of the team.



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The Teruel hangar is a true engineering masterpiece. An innovative design, completely dismantlable and reusable.

Built with a steel and aluminium structure, totally recyclable at the end of its life cycle, it also demonstrates the commitment of **TARMAC AEROSAVE**, and the project partners **SPANTECH INTERNATIONAL** and **IMPRESIND**, in the search for efficient solutions for sustainability and intelligent management of resources, as well as an unprecedented achievement in managing the challenges in the design of large industrial environments.

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TARMAC AEROSAVE - France

Sector: Maintenance, repair and overhaul of aircraft (MRO)

Main partners: Airbus, Safran Aircraft Engines, SUEZ

www.tarmacaerosave.aero

TARMAC AEROSAVE is a European leader in aircraft lifecycle management, offering cutting-edge solutions for maintenance, storage and ecological recycling.

With over 1,700 aircraft received and managed, and a constant commitment to sustainability, the company stands out for optimising resources and reducing its environmental impact.

Sustainability and innovation to extend the lifecycle of aircraft, with advanced facilities and comprehensive services.



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SPANTECH INTERNATIONAL - Belgium

Sector: Design and Construction of Modular Structures

www.span-tech.com

SPANTECH INTERNATIONAL is a leading company in the design and construction of **custom modular structures**.

With an innovative engineering approach, the company provides fast, efficient and highly customizable solutions, suitable for sectors such as aviation, sports and industry.

Rapid execution, innovative design and attention to sustainability, with demountable and reusable structures.



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impresind - Italy

Sector: Sustainable heating, cooling and ventilation systems

www.impresind.com

IMPRESIND is a point of reference in sustainable industrial climate control, with exclusive solutions and patents for cooling, heating and advanced ventilation systems.

A long experience that makes the company a reliable partner with proven quality for the energy efficiency and climate comfort management needs of the industrial sector.

Efficient and sustainable technology, aimed at reducing energy consumption and improving operational comfort.



Looking to optimize energy costs
and enjoy the perfect temperature?

**Discover Impresind solutions for uncompromising climate comfort
and guaranteed energy savings – all year round!**

www.impresind.com

