



A New Chapter In Aviation

A Home For Your

eVTOL

HISTORY

Sprung Structures Ltd.

Sprung Structures started in 1887 when they began designing and producing custom canvas products. From one decade to the next, the Sprung family name has become synonymous with “innovative structures” and has emerged as the world-class leader of tensioned fabric structure technologies and solutions.

Today, Sprung is best known for delivering faster and better building solutions through its patented, tensioned membrane structures. Sprung structures are engineered to adapt to almost any climate, design requirement, and budget.

Currently, Sprung structures are used in hundreds of different applications, in over 100 countries, for some of the world's leading organizations.

Sprung has manufacturing and distribution centers in North America and the Middle East, and regional offices around the world providing face to face solutions that online distributors cannot offer.

With over 13,000 structures built to date, Sprung remains dedicated to following through with innovative building solutions that consistently deliver the Sprung Advantage: rapid construction capabilities, total design flexibility, exceptional durability and performance, and lower overall costs.



SPACE SHIP TO MARS

Assembled In A Sprung Structure

SpaceX was founded to revolutionize space technology towards making life multi-planetary. They are the world's leading provider of launch services and are proud to be the first private company to have delivered astronauts to and from the International Space Station (ISS), and the first and only company to complete an all-civilian crewed mission to orbit.

SpaceX is deeply committed to maintaining a safe orbital environment, protecting human spaceflight, and ensuring the environment is kept sustainable for future missions. There is a space race for the first company to design and manufacture a reusable rocket system. Speed of delivery and construction are paramount when it comes to aerospace manufacturing. Stay focused on your fast-moving core business while we provide:

- Rapid construction
- Design flexibility
- Performance & durability
- Lower overall costs

SpaceX currently utilizes four Sprung Structures in their manufacturing of spacecraft. There is no greater satisfaction, then loyal customers. Especially knowing that SpaceX considers safety and quality as a top priority, without any compromise.

Our engineered structures can be erected from ground breaking to completion faster than other building solutions. With the design and speed your team needs, Sprung delivers the right cost-effective solution.



SPACEX



WE KNOW AVIATION

Aircraft Hangars And Airport Facilities

Sprung's tensioned fabric structures are an ideal fit for aircraft hangars and other airport building applications because they can be installed immediately, are fully and easily relocatable, and can be leased or purchased for short or long terms.

With minimal foundation requirements and a design that's engineered for portability, Sprung airport buildings have ultimate flexibility to be moved for multiple applications and changing needs. Our hangar door options and a long-lasting architectural membrane further ensure long-term flexibility and reliability.

Many of those in the aviation industry have already chosen Sprung as their airport building solution. Sprung structures are in use as permanent and temporary aircraft hangars and aircraft repair facilities all over the world including:

- Marshall Aerospace in England
- Federal Express at Oakland International Airport
- Denver International Airport
- NASA Orbiter Protection Enclosure

With an almost indefinite lifespan, a Sprung hangar offers all-weather protection from the elements and a virtually maintenance-free aluminum substructure that is durable enough for a 50-year guarantee.



HOW WE BUILD

Sprung Structures Components

ALUMINUM SUBSTRUCTURE

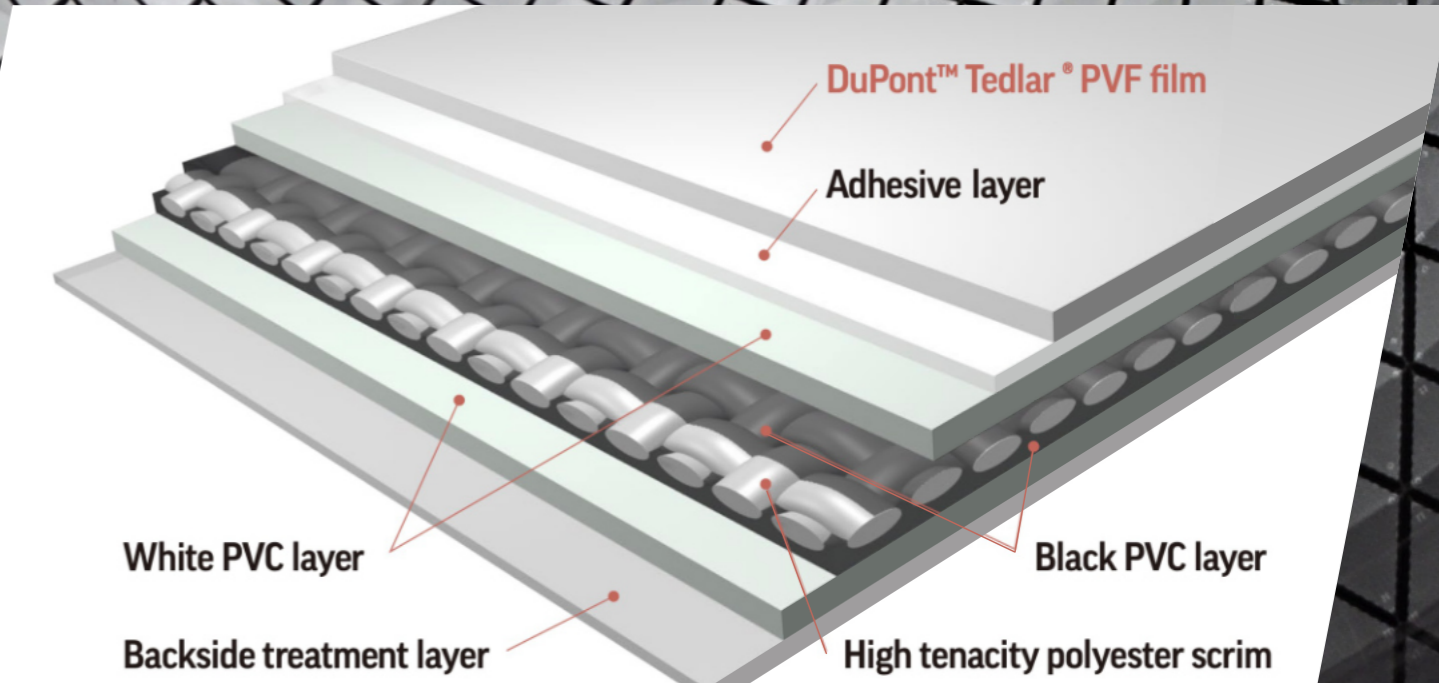
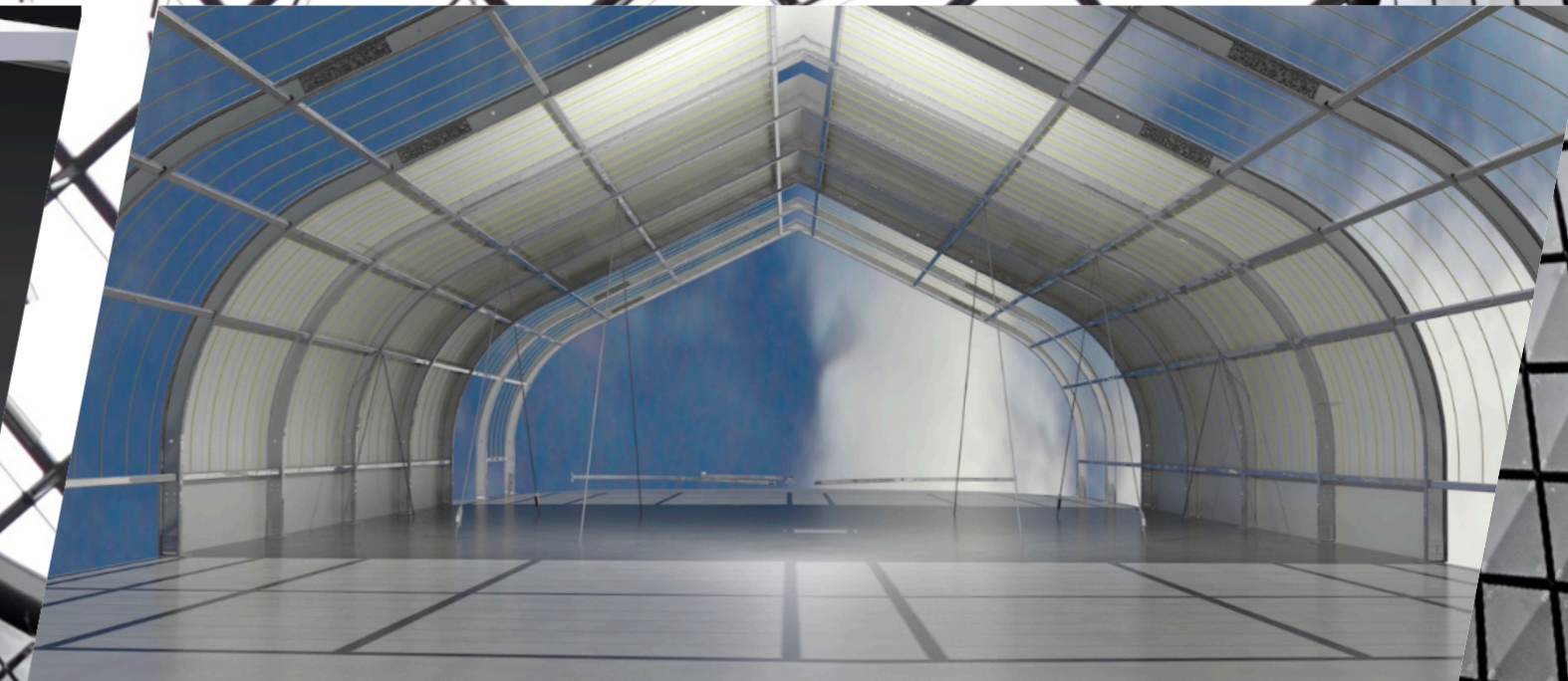
Sprung utilizes an extruded military-grade aluminum substructure which provides superior performance, durability, and longevity. The Sprung aluminum substructure has an indefinite life expectancy and comes with a 50-year pro-rata guarantee. Our one-piece extruded aluminum I-beam with membrane retainer is engineered to endure extreme weather and environmental conditions.

PERFORMANCE ARCHITECTURAL MEMBRANE

Sprung's performance architectural membrane is as tough, durable, and colorful as conventional building materials, but it also offers real cost advantages. There are many reasons to construct a membrane building – it's safe, energy efficient, climate controlled, cost-effective, and quicker to build. This unique material is engineered for your comfort and convenience.

PERFORMANCE INSULATION

Sprung manufactures highly insulated structures engineered to provide better climate control with optimal heating and cooling efficiency. This virtually airtight system, combined with a fully lofted layer of fiberglass blanket insulation and tensioned interior membrane, contribute to a highly efficient insulated building solution.



eVTOL AVIATION

Maintenance And Airport Facilities

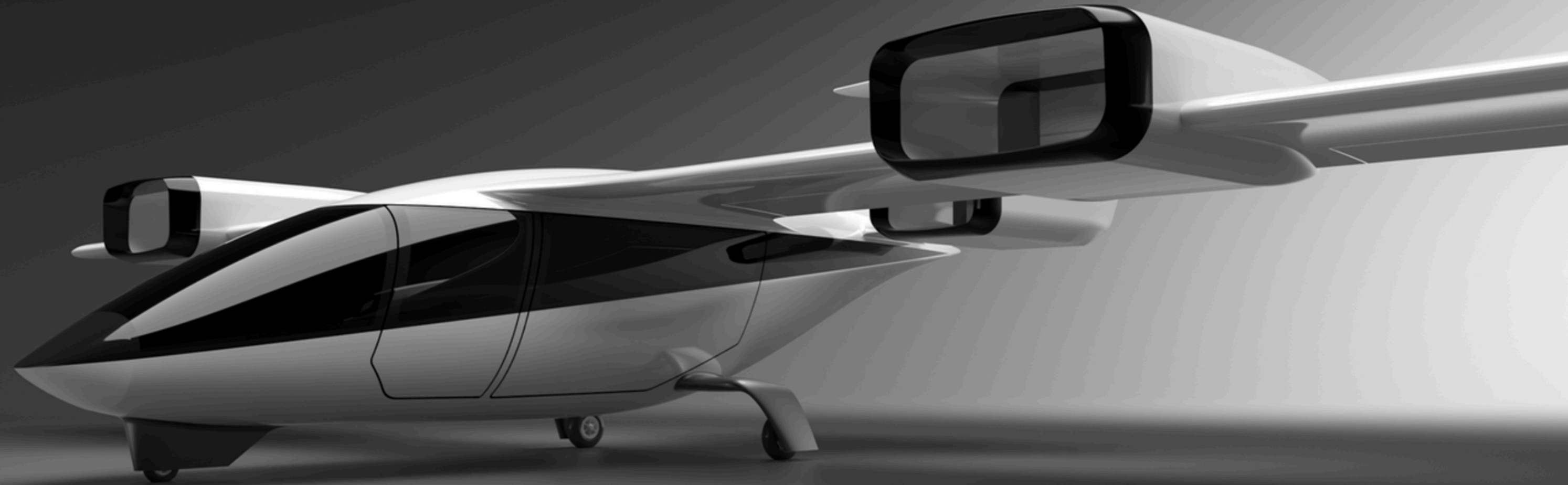
Urban air mobility is a completely new field of aviation and has therefore a unique opportunity to develop a set of infrastructure requirements from scratch.

As urban mobility vehicles, will not be dependant on classical airport infrastructure. Also considering environmental and noise restrictions, eVTOL aircrafts are more suitable for an urban environment than conventional airport and heliport operations.

Maintenance and operation facilities can be located off airports and out of downtown areas resulting in:

- Cheaper building land
- Lower construction and operating cost
- Easier access by road for third party suppliers

Sprung designs and builds high-performance tension fabric buildings that take only days to customize and weeks to build. Sprung's innovative fabric membrane structures are engineered for total design flexibility, all-weather performance and strength, long-term quality, and cost-effectiveness.



Hangar Facility

Thanks to the flexibility of a Sprung structure, a hangar can be configured to fit the operational requirements. This includes providing a hangar door that can accommodate standard aircraft with vertical stabilizers or more cost-effective doors for specific clearances.

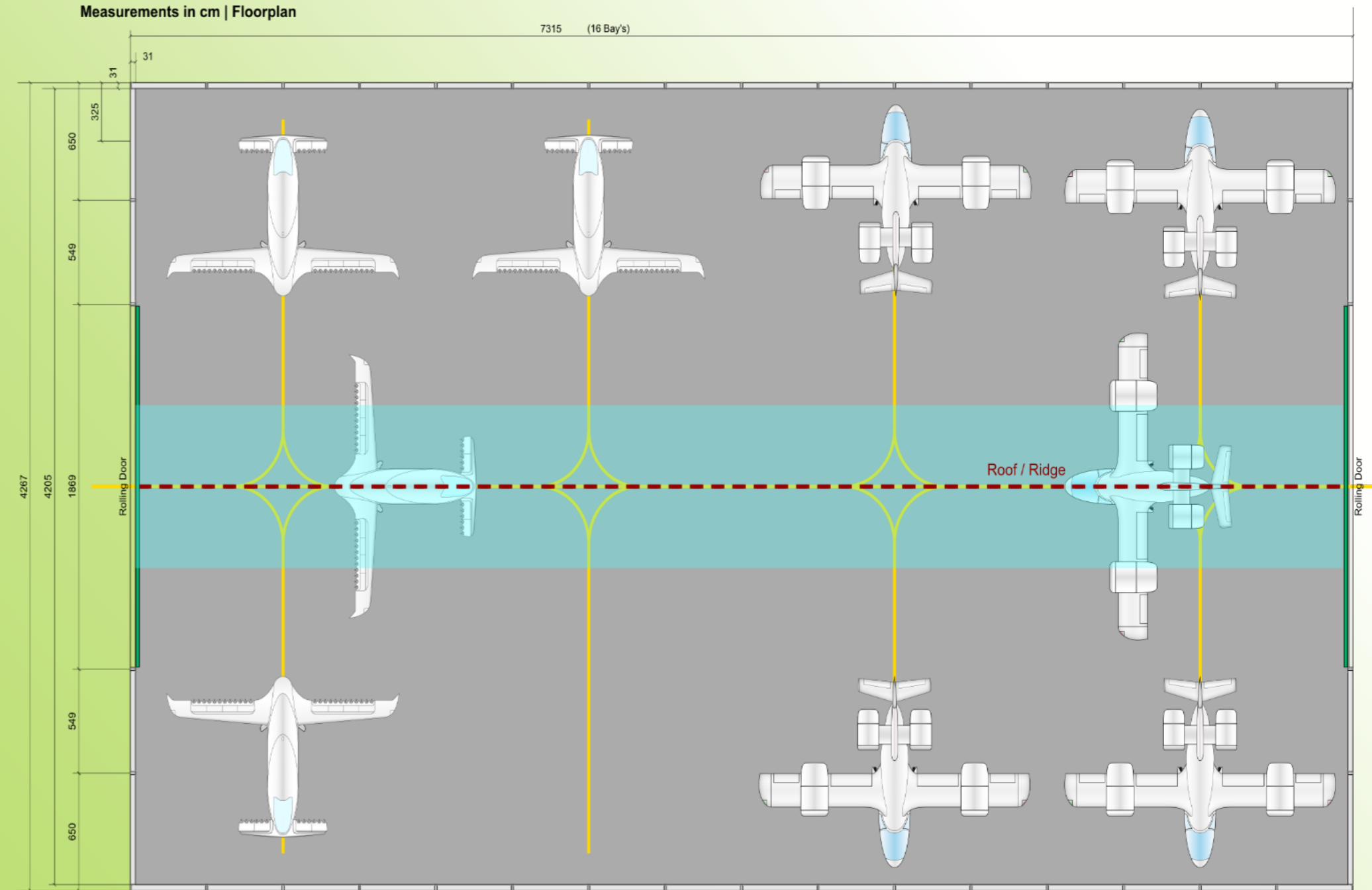
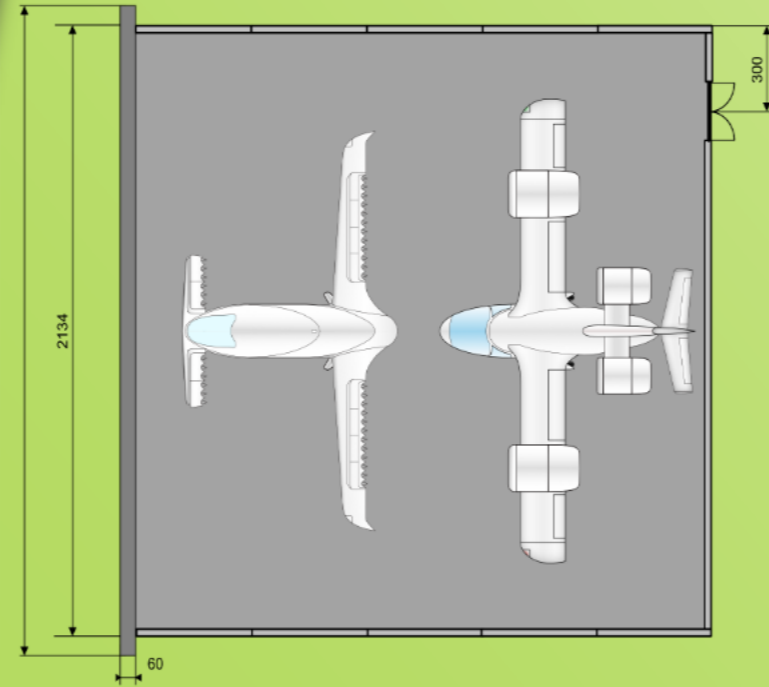
PERMANENT SOLUTION

A Sprung Structure can be as permanent as you need it to be. The Sprung aluminum substructure has an indefinite life expectancy and comes with a 50-year pro-rata guarantee. The structure's outer Tedlar or Kynar coated membrane comes with a 25-year pro-rata guarantee and a 30 to 35-year expected lifespan. At the end of the membrane's lifespan, it can be removed and a new membrane can be installed giving the structure a fresh pro-rata guarantee.

DESIGN FLEXIBILITY & RELOCATION

We are dedicated to empowering our customers with total design flexibility. Did you know that Sprung's relocatable shelters are constructed faster than conventional buildings and can be deployed anywhere? On top of this, they are still incredibly durable, even in hurricane zones! They're also highly insulated and energy-efficient.

So when would a Sprung hangar suit your organization? If you need rapid expansion space that is permanent while at the same time being flexible for relocation at a future date, then a Sprung structure is right for you. The Sprung structure is designed to meet any wind and snow loads on earth and is extremely robust for anything mother nature can throw at it!



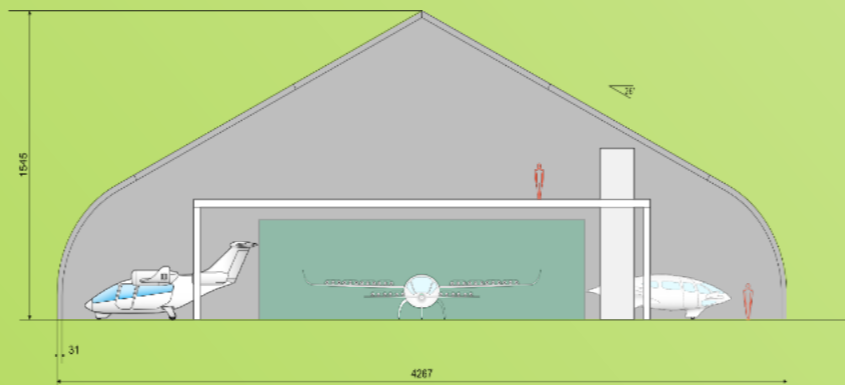
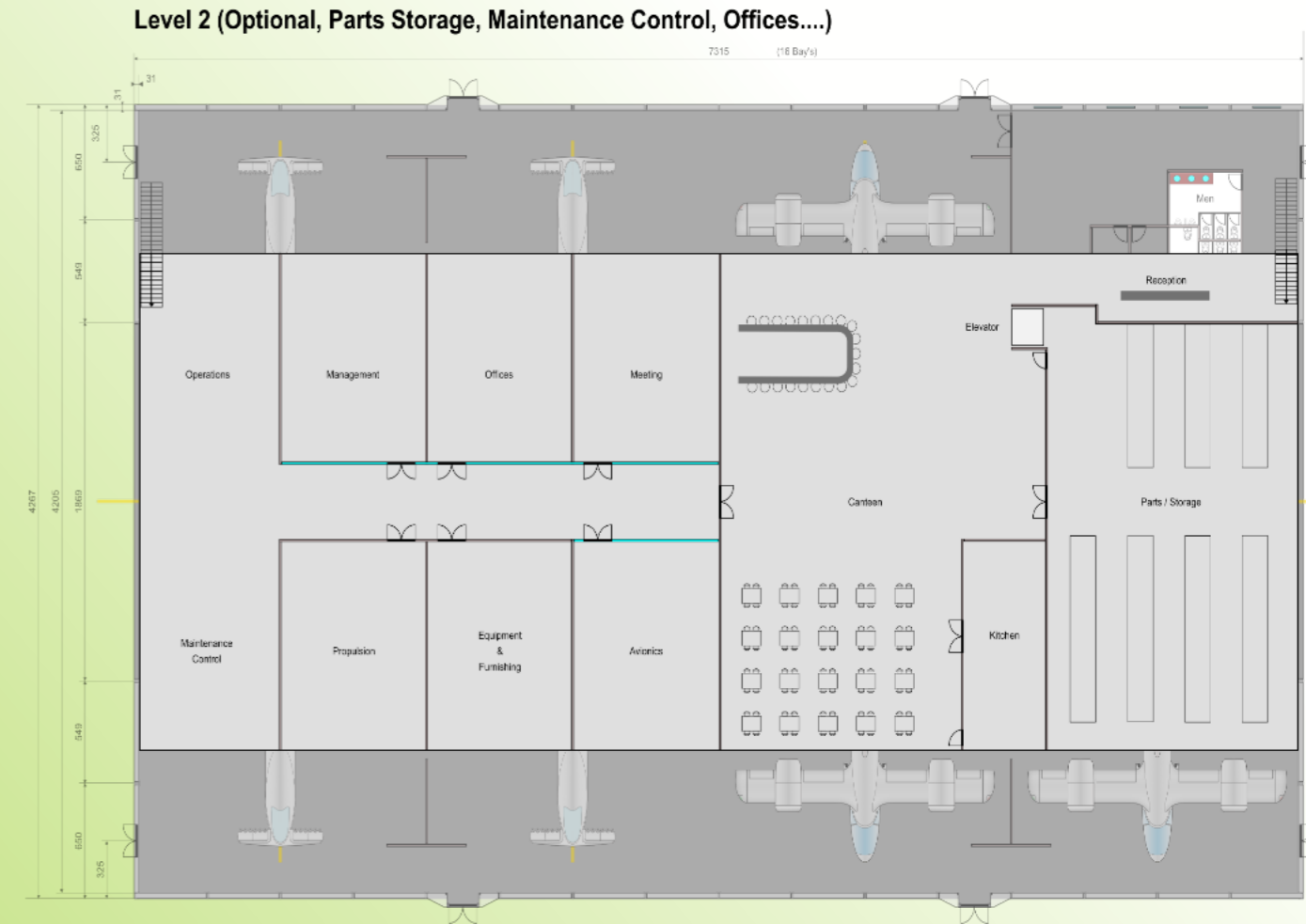
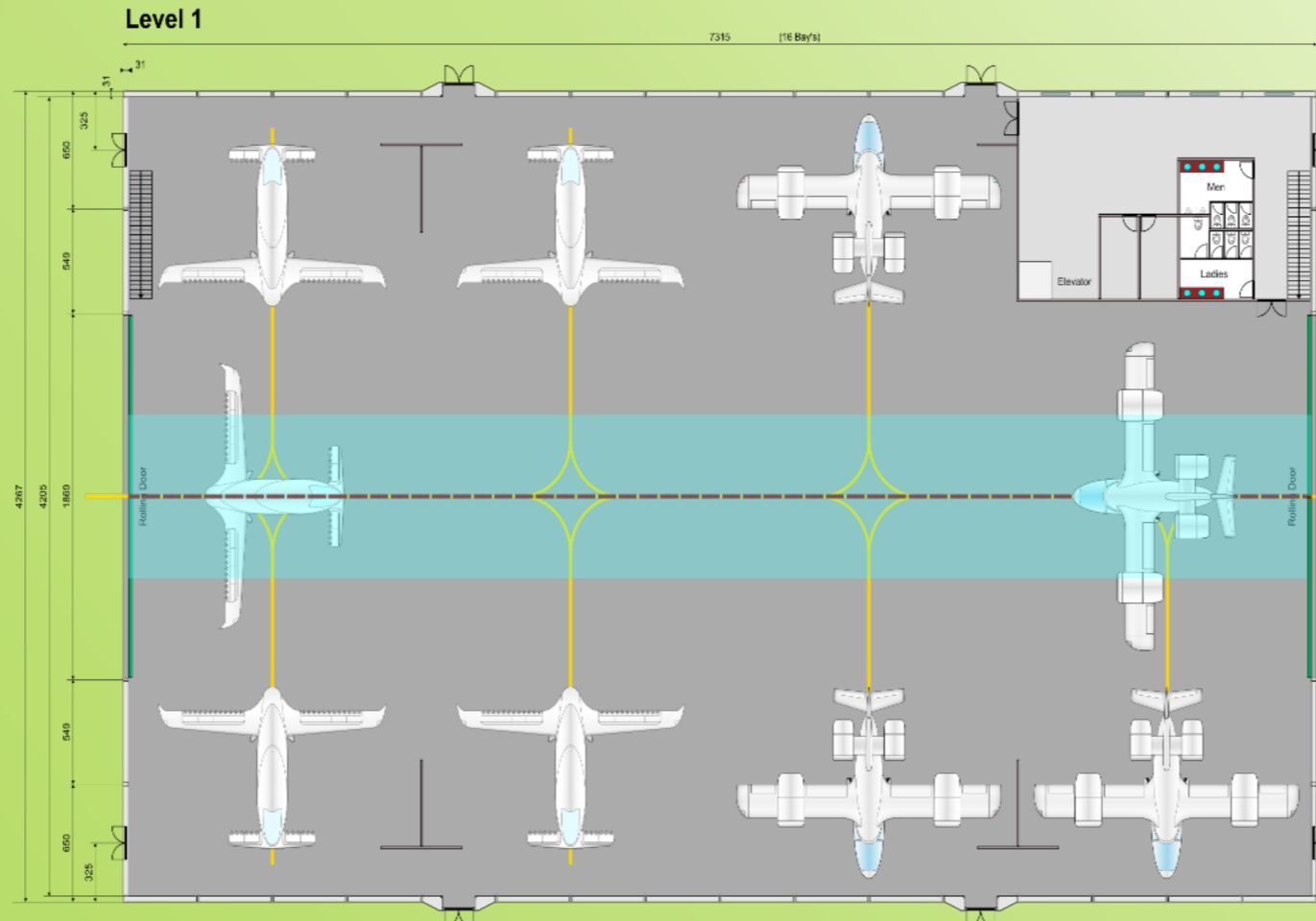
eVTOL AVIATION

Maintenance And Operations Facility

More permanent structures can be constructed as a multi level layout with an internal structure.

As an example, an eVTOL hanger could be configured to house on a second floor a complete operational infrastructure.

- Parts & Storage
- Avionics & Propulsion Workshop
- Equipment & Furnishing Workshop
- Maintenance & Operational Control
- Office, Meeting & Management Infrastructure



BETTER WAY TO BUILD

Performance And Durability

Through invention, design and continued innovation, Sprung structures excel when it comes to performance, durability, strength, and sustainability.

WE BUILD IT RIGHT THE FIRST TIME

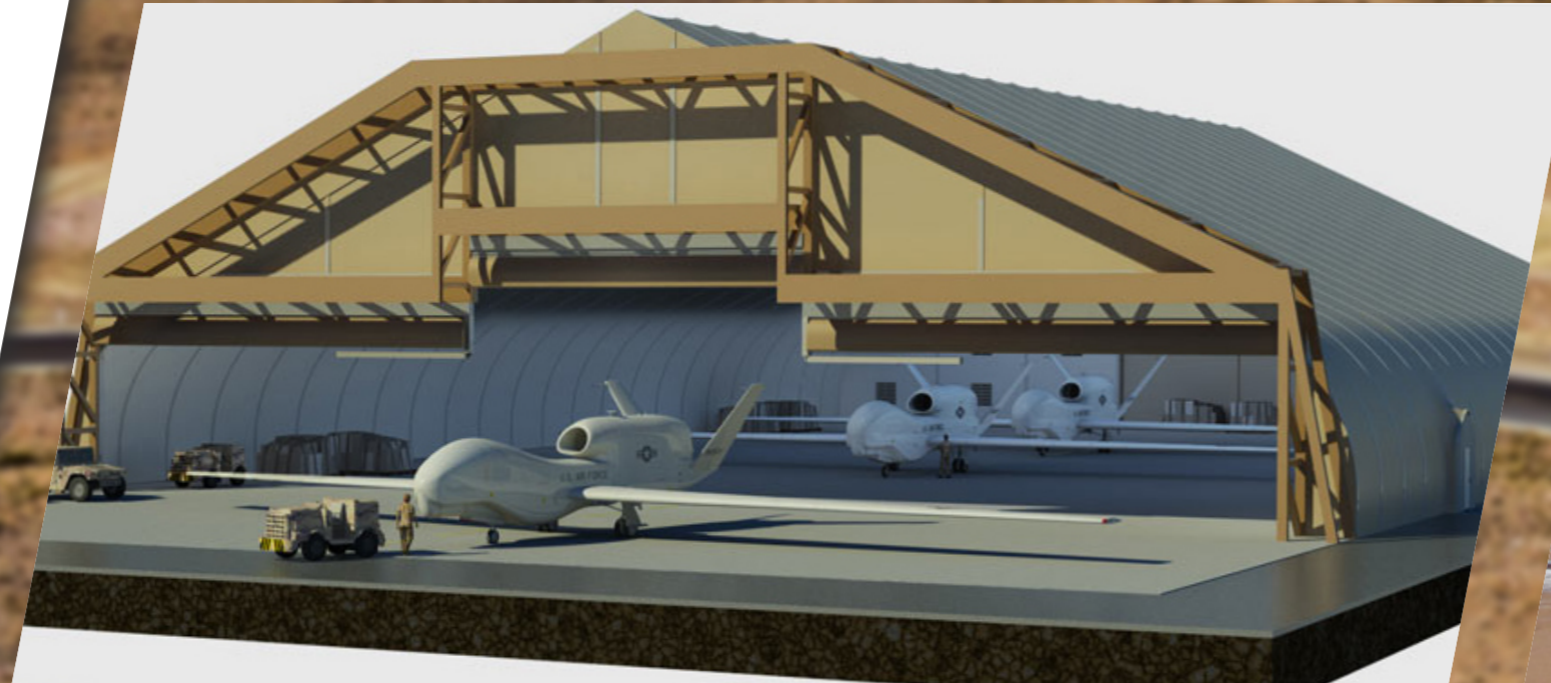
A Sprung technical consultant is on site throughout the assembly process to monitor every project, ensuring our top quality standards are never compromised.

Our substructures are made of aluminum - known for its high strength-to-weight ratio, superior malleability and excellent corrosion resistance.

EXTRAORDINARY ALL WEATHER DURABILITY

Combined with each Sprung structure's unique shape, the robust tension system is built to endure extreme conditions as:

- Extreme Cold
- Extreme Winds
- Extreme Snowfall
- Extreme Heat



BUILD WHAT YOU NEED

Modular Structure Design

The “Modular Sprung Building System“ allows for a incredible flexible planning of your structure. Almost anything is possible to cover your requirements.

STRUCTURE WIDTHS

Building widths from 9.1m to 54.9m are available. The building width increases by approximately 3m from one width to the next width.

STRUCTURE LENGTHS

As well the building length is flexible. Standard modules with a length of 4.572 m can be used. Custom lengths are also available.

STRUCTURE ENDS

The building end can be ordered as a “flat” end or as a “round” end, providing flexible design options.

ACCESSORIES

Beyond the flexibility of Sprung’s expandable modular design, one can add greater value and versatility by customizing the accessories (doors, windows, connecting corridors, graphic treatments, etc.).

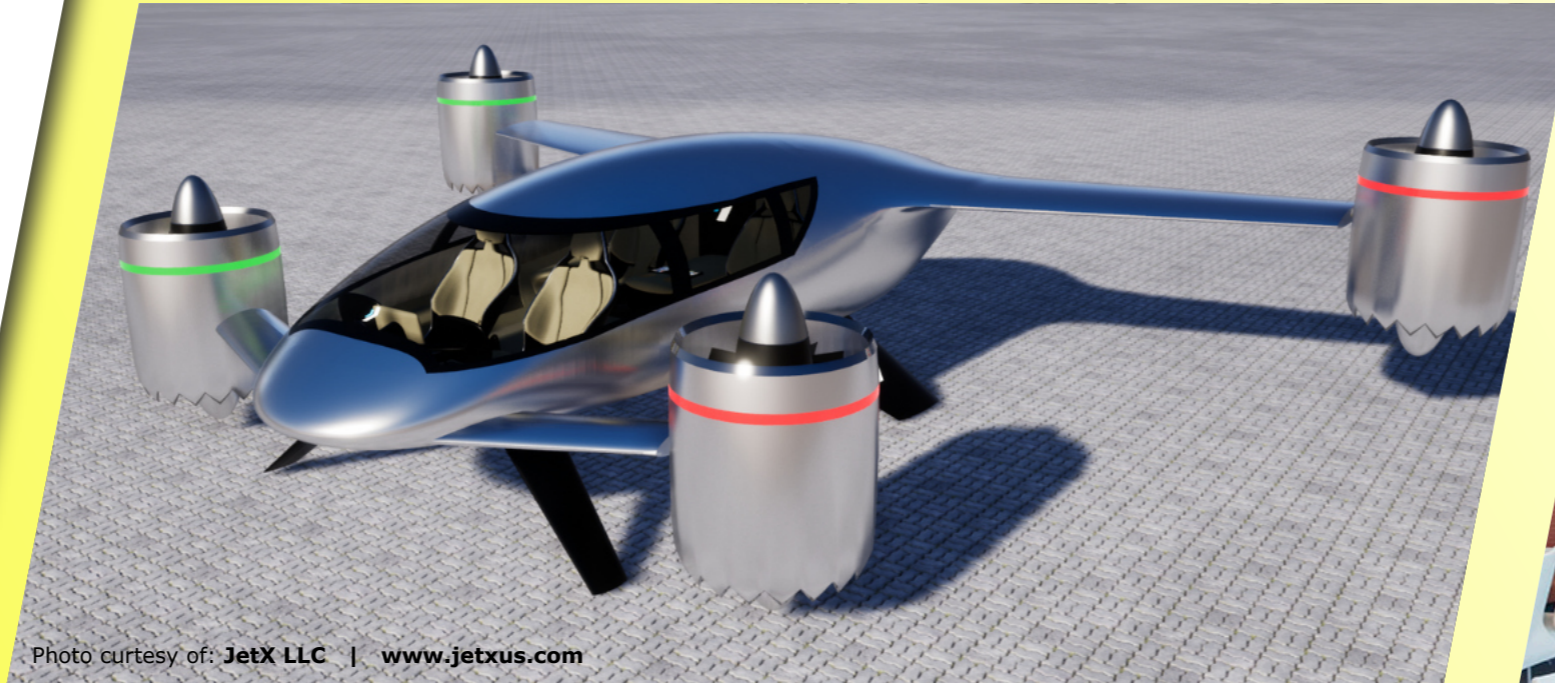
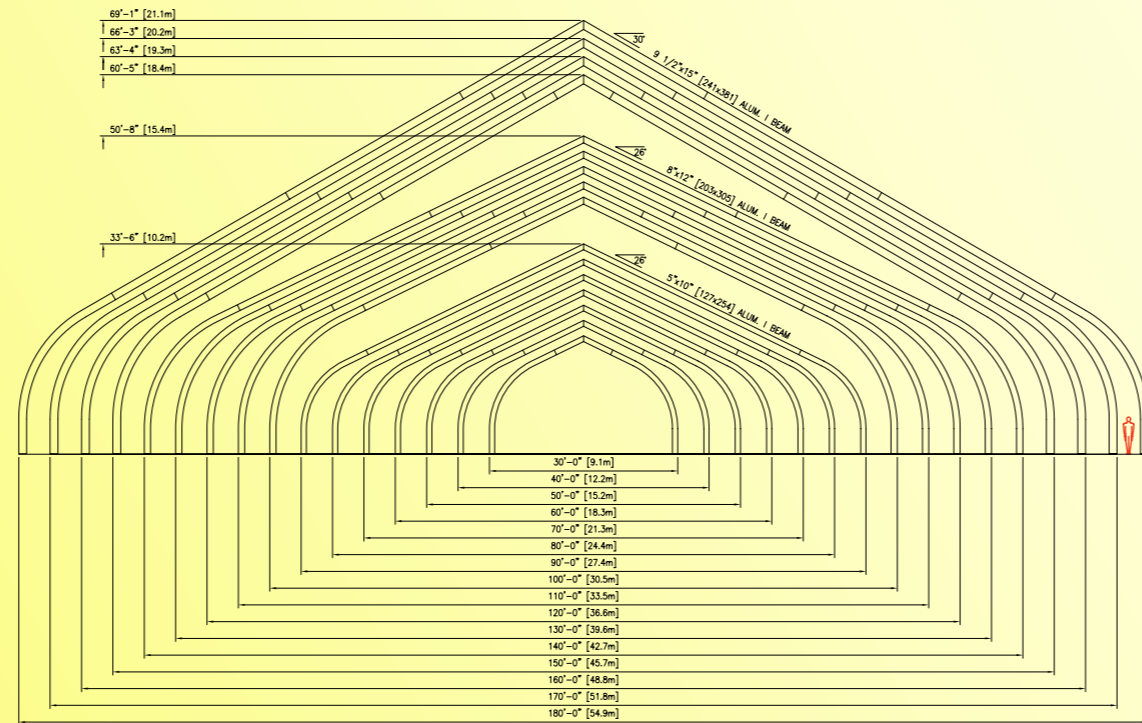
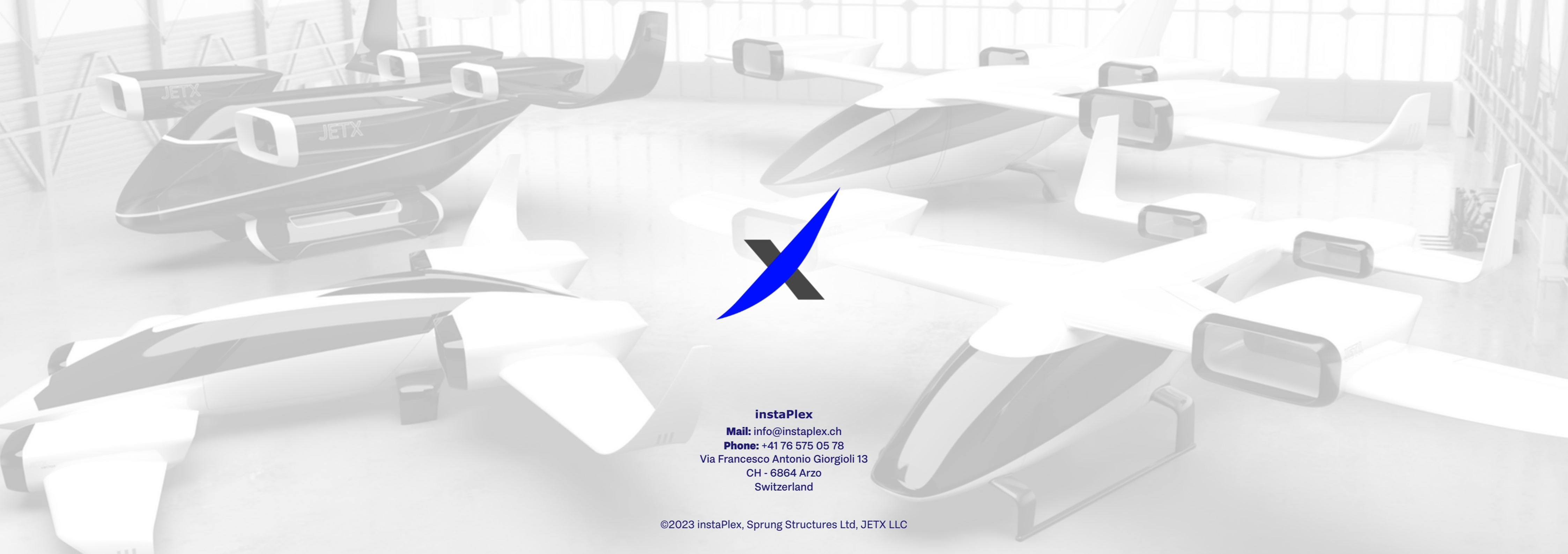


Photo courtesy of: JetX LLC | www.jetxus.com





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