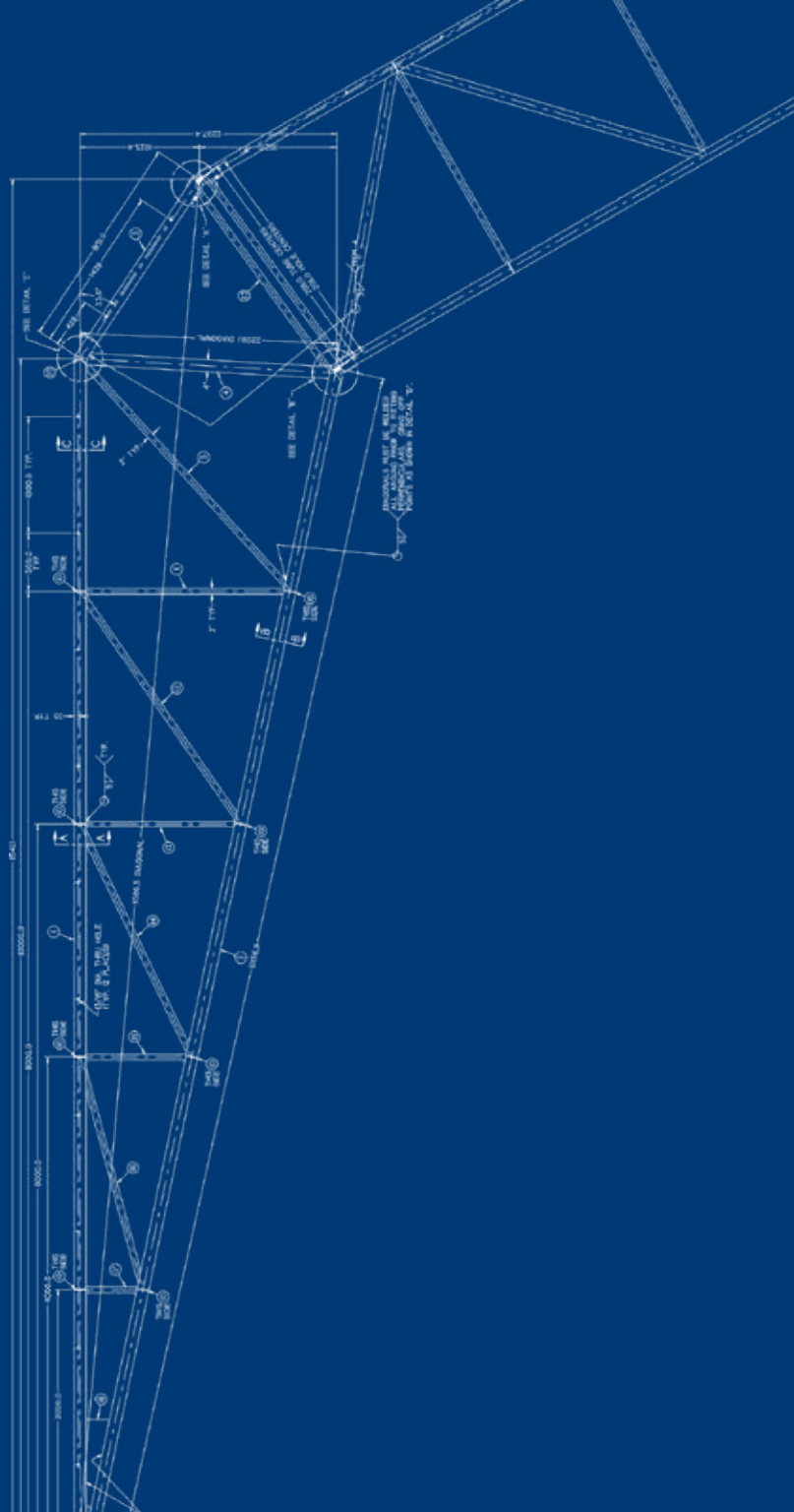
RUBB
BUILDING SYSTEMS

Excellence in engineering



info@rubbusa.com
207-324-2877
www.rubbusa.com

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Excellence in engineering

01.

Who we are

Born in Norway, Made in USA

History

The Rubb name hails from a small village on the west coast of Norway: Rubbestadnesset. In 1903, Haldor Haldorsen of Rubbestadnesset developed Norway's first combustion engine, known as the Rubb motor.

Haldor's son, Finn Haldorsen, carried the Rubb name forward and established Rubb Motor AS in 1966.

Finn's company started manufacturing tarps and bags from PVC fabric, and it made the first Rubb building in 1968. To symbolize the coastal environment and the connection to marine construction, Rubb chose the trident of Neptune as the company logo. The trident represents Rubb's strength in the face of harsh coastal environments and harsh elements around the globe.

Given Maine's history of expert metal fabrication and shipbuilding, Finn saw an opportunity to bring Rubb buildings to the New England coast.

He founded Rubb USA in the state of Maine and hired a young Cornell engineering graduate, David Nickerson, to lead his American division.

Forty years later, David Nickerson remains the president and CEO of Rubb USA. David has established Rubb USA as a leader in the design, manufacturing, and construction of fabric buildings throughout North America. Thanks to his stewardship and the steadily increasing demand for clear-span, code-compliant, relocatable, fabric-clad buildings, Rubb USA continues to grow every year. The Rubb product has evolved from a durable coastal solution into a highly sought-after and affordable building technology that is used by the US military and renowned companies around the world.

Norway, 1968

Meet our team

DAVID NICKERSON
President and CEO

MATT GAGNON
General Manager

BJØRN HØYDAHL
Chief Operating Officer

COBY MORIN
VP Sales

SEAN HICKEY
VP Sales

JIM CHADBOURNE
Executive Vice President

Meet our team

GARY SUTRYN PE
Chief Engineer

GLEN JACKSON
Information Systems

KARLI GAGNE
Project Development Manager

KEITH LORD
Service Manager

PRESTON POUSSARD
Sales

ASHLEY MORIN
Sales Coordinator

By the numbers

40+	years of experience
1,300+	projects
668	military projects
0	structural failures
38	countries worldwide
300'+	clearspan capability
173+	recovers completed
70%	business from repeat customers

Who we are

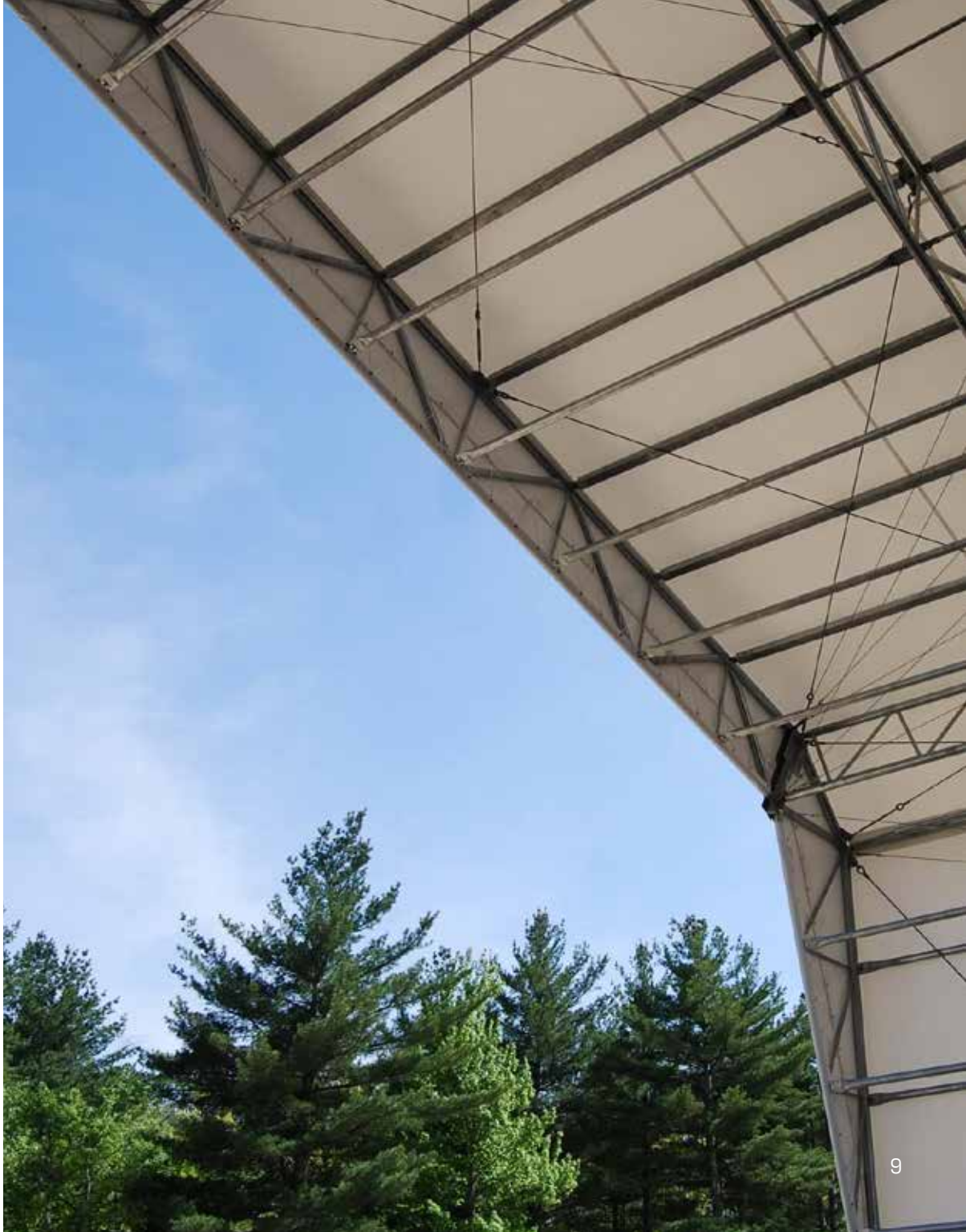
Made in Maine

We design and fabricate our structures in the great state of Maine. Our team consists of over 60 experienced engineers, drafters, fabricators and business professionals.

We're proud of our Maine roots. We've supplied over 300 buildings across Maine, and we are proud to have received Maine's Governor's Award for Business Excellence.

American Galvanizers Association Excellence in Hot-Dip Galvanizing, 2017

State of Maine Governor's Award for Business Excellence, 2008



02.

How we design

How we design

We set the standard

We design our products right. We follow the codes, and we ensure that our customers and their assets are safe. We know that some of our clients place hundred-million-dollar airplanes inside our building systems, and we take a tremendous amount of pride in meeting this responsibility. In snowy Arctic conditions or in harsh desert winds, Rubb buildings stand tall through hard use, hard environments, and the ravages of time. We are proud of the fact that in 40 years, we have had zero structural failures. And we continue to have zero tolerance for shortcuts.

Whatever you need, we can build.

For all elements

Build beyond spec

In every region, extensive research, experience, and expertise are required to build a structure that will endure. We work with local code, international experts, and our internal team of engineers to build beyond explicit specifications. We build in a way that takes into account the special considerations of your unique structure — so that it will last.

Rubb design accounts for:

Ground Snow Load

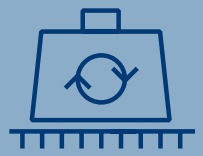
Upwards of 100 psf

Wind Speed Per Local Building Code

Up to 180 mph

All Seismic Design Categories

Categories A-D



Collateral Load

Negative pressure, HVAC, fire suppression, and more

Excellent Fire Properties

Buildings self-vent and do not support combustion. Class 1 flame-spread rating means materials contribute negligibly to spreading of flames in the event of a fire.

Safety and code compliance

Engineered for life

We engineer to building code or beyond — for the safety and durability of your structure and the assets you need to protect. PE stamped drawings are Rubb standard, with structural calculations available by request.

ASTM A123 (Steel Galvanization Standard)

American Institute of Steel Construction (AISC)

International Building Code (IBC)

National Building Code of Canada (NBC)

American Society for Testing and Materials (ASTM)

- AST E84: Standard method for assessing the burning characteristics of the surfaces of building products to determine how the material may contribute to the spread of flames in the event of a fire.

American Welding Society (AWS)

- AWS D1.1: Structural Welding - Steel Certification

American Society of Civil Engineers (ASCE)

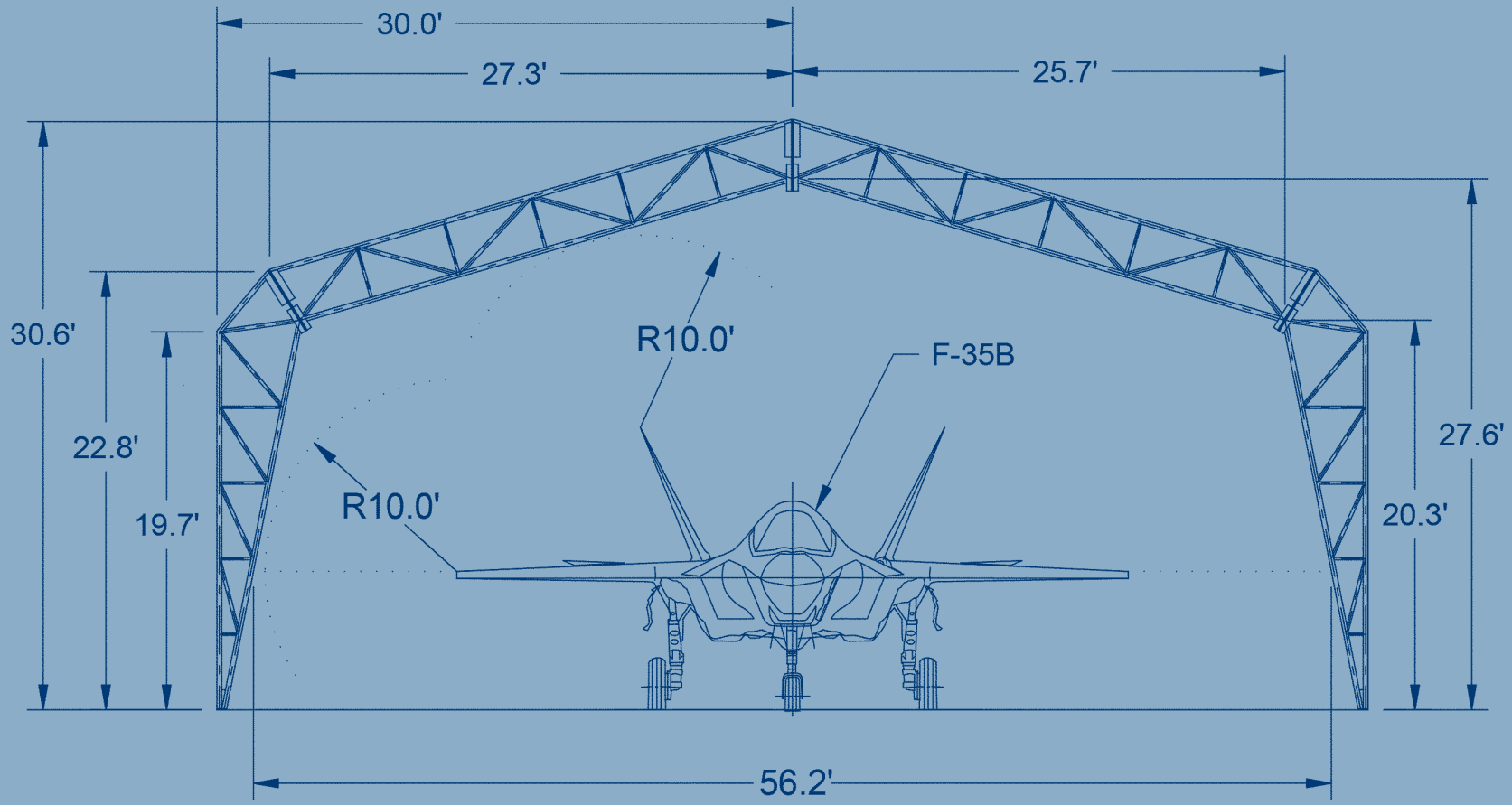
- ASCE 7: Minimum Design Loads for Buildings and Other Structures
- ASCE-19: Structural Applications of Steel Cables and Buildings
- ASCE 55: Tensile Membrane Structures

National Fire Protection Association (NFPA)

- NFPA 701: Standard Methods of Fire Tests for Flame Propagation of Textiles and Films
- NFPA 409: Standard on Aircraft Hangars

We care about the details

With 40 years of experience, we are proud to engineer and build the world's toughest fabric structures. We ensure we meet the requirements of every project — right down to the millimeter.



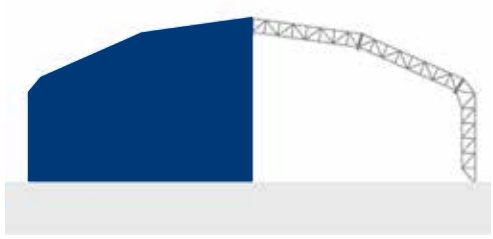
03.

What we build

Most popular structures

BVR

This structure features rectangular leg and roof sections which maximizes interior volume and is a popular choice for buildings <60' in span.



BVE

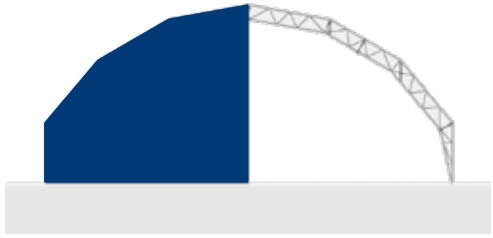
This structure maximizes interior clearance and is a popular choice in aviation and sports.

AVC

This structure allows for exceptional clearance with vertical lattice-frame sidewalls and lattice-roof pitches. It is ideal for aviation hangars and sports buildings.

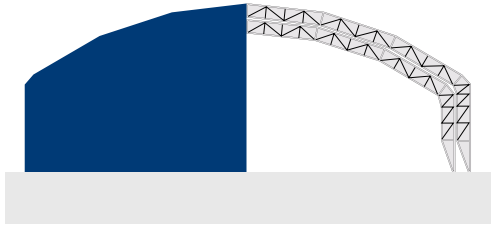
AVS

This structure is designed with a single-pitch roof and lattice-leg roof sections.



NV

This structure, developed in Norway, is designed with a high apex to enable maximum storage space.



CUSTOM

Custom arrangements include nested moveable options (shown), crane-liftable, cantilevers, and more.

Steel Frame

Every Rubb structure is custom designed and fabricated.

- Steel components are hot-dip galvanized after welding has been completed in accordance with the ASTM A123 standard.
- ASTM A123 ensures all interior and exterior surfaces are protected, resulting in a steel frame that is impervious to rust and that has an indefinite life span.
- Steel welds are always checked by a certified welding inspector.
- Spans are assembled, bolted, and measured prior to shipment to ensure conformance to spec.
- Trusses and beams are properly braced.
- Main wind cables are engineered correctly and properly transfer loads to the foundation.
- Entire steel frame is independent of cladding and is self-supported, making a Rubb frame inherently stronger and safer than pre-engineered metal buildings which brace the frame with metal cladding.

What we build

Fabric Cladding

We believe in PVC.

- We use high performance fabrics that are strong, durable, and fully compliant with a 20+ year lifespan.
- Notice of Acceptance in Miami-Dade county, with signed P.E. approvals on the following rigorous tests: missile impact in a wind-borne debris region, accelerated weathering, and uniform static pressure.
- Fabric cladding is an option anywhere in the world, able to withstand wind speeds of more than 180 mph.
- Single-skin, non-insulated fabrics are translucent and provide bright, natural lighting, which helps reduce electricity costs.
- Warrantied both by Rubb and the fabric manufacturer with replacement options available. Easy to repair and field weld-friendly.
- Easy integration with other cladding options including metal, masonry, glass, and more.
- Wide variety of colors and adhesive logo integration upon request.
- NFPA 701–compliant.

What we build

Doors Systems

We custom-design structural steel supports and headers that support several different door options, including vertical lifting fabric, roller shuttering, bottom rolling, custom fabric, and access doors.

What we build

Thermohall®

Our proprietary Thermohall insulation system is offered in a variety of thicknesses, each with its own associated R-value. Thermohall is tensioned outside of all steel and hardware components, eliminating condensation and thermal bridging. This insulation system is incorporated into our membrane at our factory and is vacuum-sealed and rolled to reduce shipping costs and expedite construction on site.

Custom

Rubb buildings are designed to support any project at any location.

Example custom features:

- Crane liftable with slings and hardware
- Ability to nest multiple buildings
- Moveable on tracks or hydraulic casters
- Support for fully integrated crane systems
- Ability to sustain internal temperatures of 170°F with 90% relative humidity

Benefits

Designed for confidence.

Properly designed and manufactured with safety in mind, using only high-quality materials.

A flawless track record.

40 years of experience with a flawless track record while primarily servicing repeat customers.

Flexibility of structure.

Highly customizable while remaining relocatable with minimal loss of materials.

Endless options.

Flat roof and wall planar surfaces support multiple cladding options.

Rapid and efficient.

Affordability through efficient design, rapid construction, and virtually no maintenance.

Made better by design.

Easy integration of custom doors, crane, track, HVAC, fire suppression, and other systems.

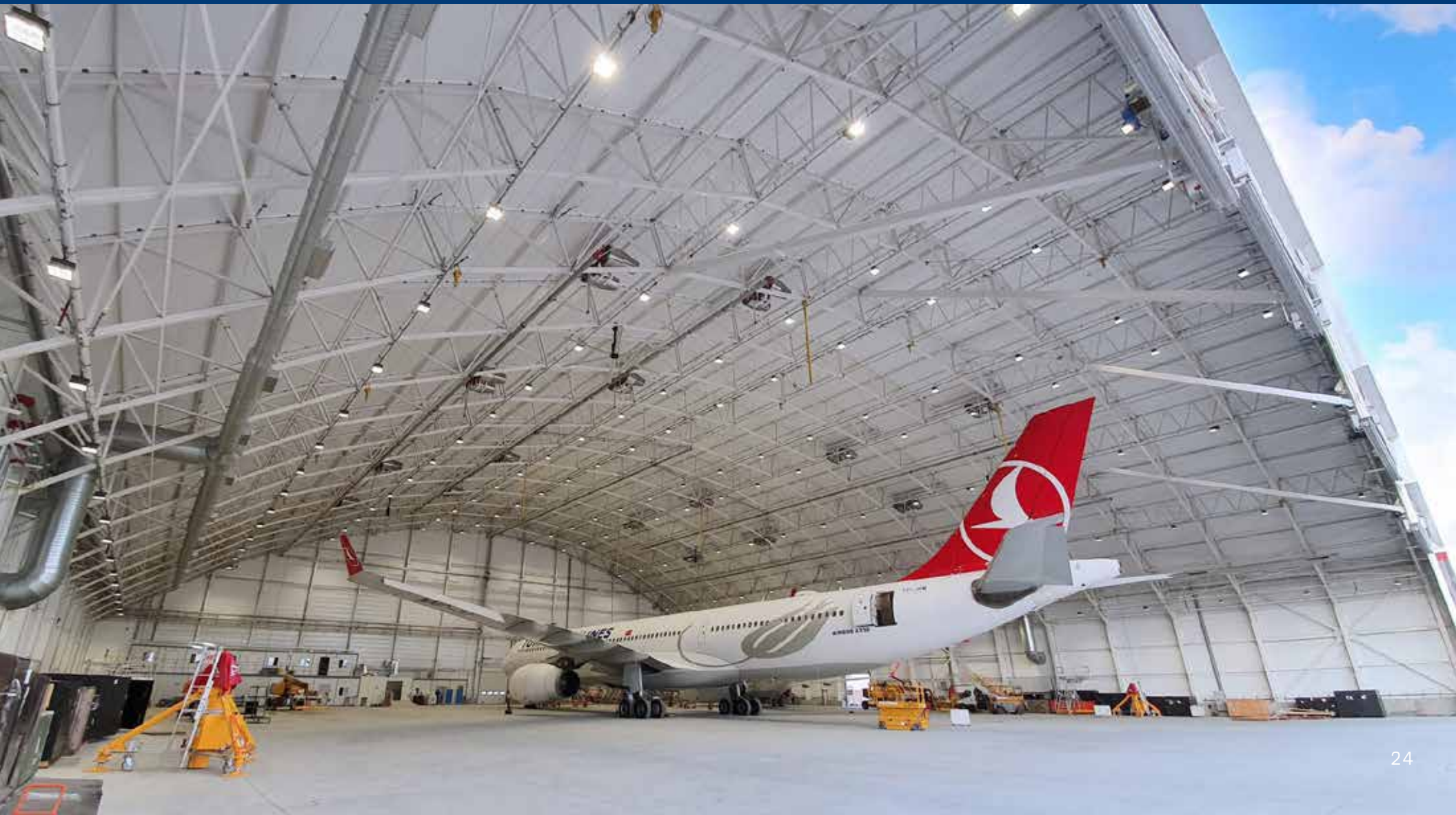
04.

Who we serve

Who we serve

Aviation

Flexible and cost-effective solutions for all aircraft, air cargo, and support storage needs.



Military

The world's most demanding structures. We build for rapid and rugged deployment anywhere in the world.

Ports

Our warehouses offer clearspan storage solutions with custom designs to optimize product handling and throughput.

Bulk Storage

We provide a wide selection of warehouse and storage options to help companies achieve their full potential.

Environmental

Building solutions for remediation projects where control of internal environment is mission critical.

Who we serve

Sport

We offer various structural configurations and designs, ideal for both kids and adults to play safely year-round, in all environments.

Salt sheds

Our salt and sand sheds resist corrosion and provide a dry, safe, environmentally friendly way for your snow-removal team to operate in any weather.

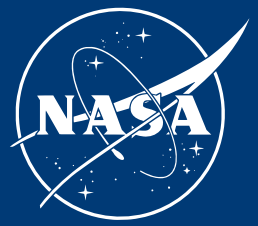
Custom

We partner with architectural and design firms to provide innovative and cost-effective solutions for our clients.

Who we've worked with

Clients

We are proud to build structures for the world's most prestigious companies. When you want the best, choose Rubb.



Testimonials

"I have worked with RUBB Building Systems over the past 19 years to construct 7 aircraft hangars and flightline shelters totaling 280,000 square feet.

These facilities support aircraft ranging from large business jets to DC10s. Within our Rubb portfolio, we have three wide-body retractable flightline shelters. Based on decades of experience, we have realized significant cost and schedule savings by using the Rubb solution. Our decisions are based on significant market analysis that evaluated structural design, material as well as galvanization processes. As part of our study, we hired an independent engineering team that specializes in hail testing, the process used up to a four-inch ice projectile at various velocities and angles of trajectory.

The result of these reviews proved the Rubb product to be of a quality and standard that provides best value while ensuring minimal risk to our assets.

Over the past two decades, we have realized minimal issues with the Rubb fabric; and when an issue arose, Rubb was always responsive and had a service team on site quickly. The Rubb team is a pleasure to do business with. They always follow through and stand behind their commitment."

DIRECTOR OF ENGINEERING & CONSTRUCTION MANAGEMENT
International Aviation Firm

Testimonials

"Rubb has been our go-to supplier for fabric structures for over 25 years. The service and quality have never disappointed."

DAVID PAQUETTE
Safety-Kleen Systems

"If I have a need for a high-quality relocatable structure, I think of Rubb first."

ROGER BREWER
Lockheed Martin

"With over 80 inches of snow, this winter broke records, and we saw sustained winds in excess of hurricane force. Through it all, we continued to perform our mission in the hangar. The building has performed admirably."

BOB BARNES
United Airlines
Logan International Airport

"Rubb offers superior quality — by far the most durable and flexible."

P.D. MERRILL
Merrill Industries

"Rubb structures allow us to work in ideal conditions in some of the most innovative structures of the type."

MICHAEL WHITE
United Airlines Air Cargo

"Rubb installed our new winter sand storage building with exceptional quality."

PAUL J. MOYNIHAN
City of Laconia, NH

Certifications and Affiliations

Industrial Fabrics Association International

Structural Engineers Association of Maine

ISO 9001

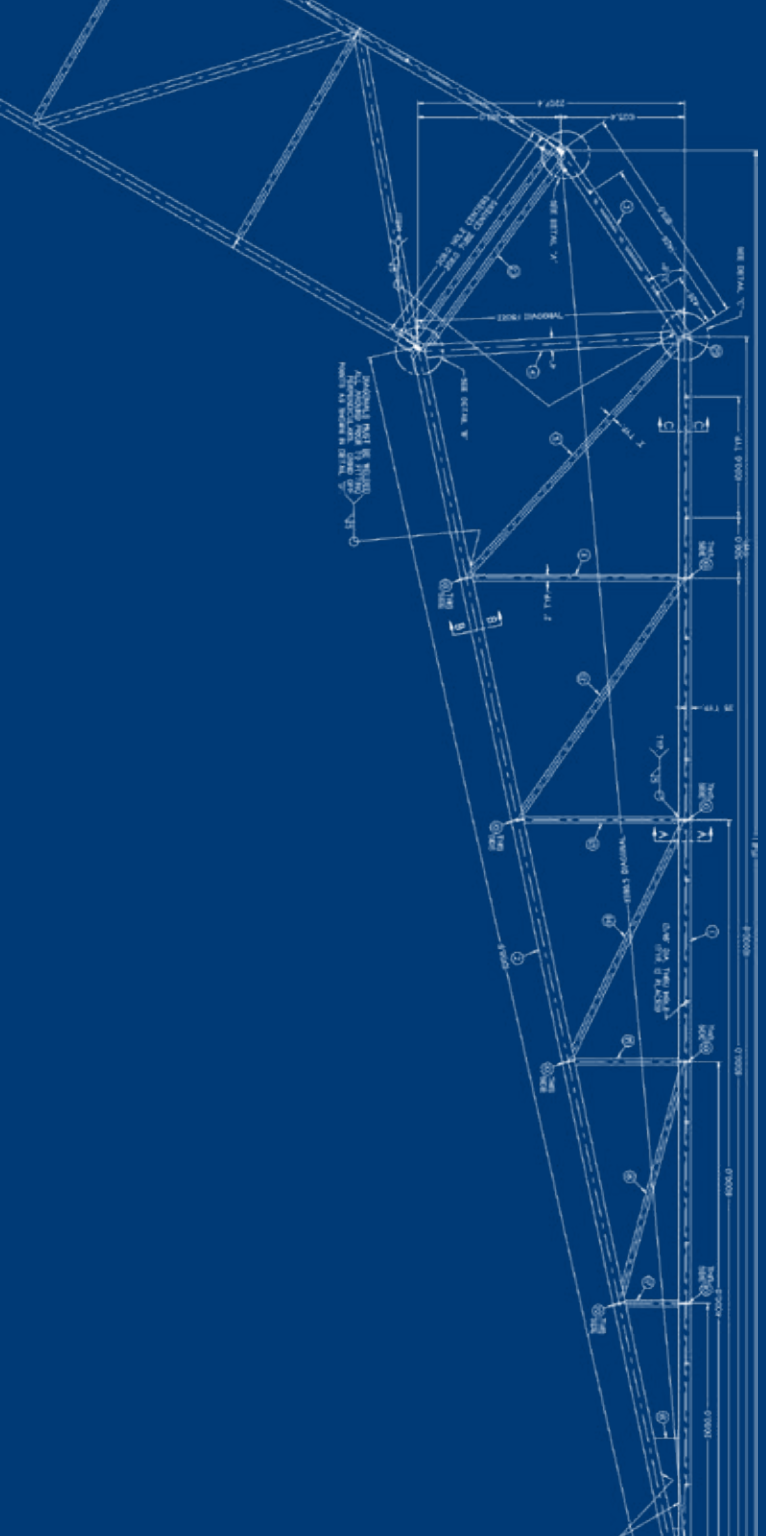
Canadian Welding Bureau

American Institute of Architects (AIA), CES Provider

Sourcewell

Miami-Dade County Notice of Acceptance

LA Fabricators License



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