excellence in engineering

Aviation Hangars & Cargo Facilities
“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
Manager, Maintenance Operations
United Airlines
Logan International Airport

“We have had no issues and are very happy with the structure.”

Phillip Deal
Lead Plant Maintenance Mechanic
Southwest Airlines Maintenance Hangar
Hartsfield-Jackson Atlanta International Airport
We understand the unique needs of aviation clients

With nearly 50 years of global experience, Rubb is a leading manufacturer of temporary and permanent aircraft hangars, air cargo facilities, storage warehouses, and maintenance, repair and overhaul facilities.

The entire Rubb system—from design to fabrication, delivery and installation—is engineered to be reliable, adaptable, and easy to implement in the whole range of demanding aviation environments.

Our hangars and cargo facilities feature a well-engineered, corrosion-resistant structural steel frame system. They have long life spans, and we have equally long-lasting customer service, before and after the sale. We also offer leasing and financing options.

Insulate your hangar with THERMOHALL®

Rubb’s patented insulation system offers major advantages over other insulating systems. THERMOHALL® is highly resistant to tearing, stretching and movement under load in harsh weather conditions. It is securely fastened to the outside of the galvanized building frame and virtually eliminates thermal bridging and air infiltration through the building envelope.

For more details, please see the Rubb THERMOHALL® brochure.
Rubb aviation facilities provide airlines and air forces worldwide with major competitive advantages: design and planning flexibility, speed of construction, and durable, cost-effective operation.

**Extremely Low Maintenance**
Our high-quality membrane materials and post-production galvanized welded frames deliver durability over time, making the average daily cost of a Rubb building more economical than conventional metal structures.

**Energy-Efficient Roof Membranes**
Translucent membranes allow natural daylight for a bright workspace, and the heat reflectivity of the white roof surface keeps the building cooler. Optional THERMOHALL® insulation minimizes heat transfer, prevents condensation and virtually eliminates thermal bridging and air infiltration.

**Proven Fire Safety Performance**
Rubb buildings offer significant fire safety advantages over other building types, including lower risk of combustion, flashover and structural failure even in severe fires.

**Flexible and Cost-Efficient Foundation Systems**
Smaller-span Rubb hangars typically can be installed with relocatable foundations. Where concrete is required, the structural capability of the Rubb system usually allows for lower foundation costs than with other building types.

**Rapid Construction, Installation and Relocation**
Hangars can be quickly erected, dismantled and relocated due to pre-engineering and pre-fabrication. Many hangars are air transportable for quick deployment. Relocatability means that these structures can often be classified as equipment.

**Comprehensive Long-Term Service**
Rubb’s commitment to customer service continues after project completion and forms the basis for long-term customer satisfaction.

**Reduced Time On-Site**
Our established supply chain streamlines coordination of delivery and installation. Pre-fabricated elements and the ability to construct our buildings in a variety of weather conditions reduce chances of delays.

**Powerful and Customizable Features**
Rubb buildings are designed for full code-compliance with respect to wind, snow and seismic loads with minimal deflection under load. They can efficiently interface with all types of door, ventilation and other systems and safely support high loads imposed by overhead cranes, ceiling-mounted HVAC and fire-suppression systems, fall-protection equipment and other superimposed loads.
High-Quality Membrane
Rubb uses high-strength, heavy-weight coated architectural membranes from proven suppliers. Many structures are still in use 30 years later.

Suitable for Difficult Sites
The flexible membrane and steel frame design of a Rubb building allows installation on uneven or sloping sites. The buildings also accept moderate differential settlement common on airports with filled land—often without pilings.

Efficient Space Utilization
Rubb’s truss frame system allows for cost-effective clear-span space and high vertical walls to suit customer needs. We offer a variety of span profile shapes and door system options.

Complete Environmental Control
The membrane cladding of a Rubb building is continuously sealed to provide a weather-tight shell. The buildings can be insulated, heated or air-conditioned as required. Rubb structures are uniquely suited for use as dehumidified facilities.

Unique Fire Safety Features
PVC-coated polyester membrane will not propagate flame or sustain combustion when exposed to a fire. The structure is self-venting, allowing heat and smoke to escape.
Scheduled for completion in early 2016, the 200,000 ft², state-of-the-art maintenance, repair and overhaul (MRO) facility at Chicago Rockford International Airport proves Rubb’s capability to meet the most difficult aviation project challenges.

The project includes two insulated membrane-clad hangars that measure 300 ft long with a 300 ft clear span. They feature 40 ft sidewalls and a center height of 100 ft.

Each structure has a five-panel, vertical-lift Megadoor, with pivoting mullions that allow the structure to comfortably house aircraft as large as the Airbus A380. The hot-dip galvanized steel frame is clad with two-inch-thick THERMOHALL® insulated fabric.

This is the largest structural project in Rubb’s history, a testament to the company’s position as the market leader for providing quality, cost-effective and versatile structures to the aviation industry.

“RFD is looking forward to the expanded services this will bring to the airport. These mammoth hangars are changing the landscape of not only the airport ground, but the region as well.”

Ken Ryan
Director of Business Development and Cargo
Chicago Rockford International Airport
When Hawaiian Airlines, the State of Hawaii and Honolulu International Airport (HNL) looked to vastly expand their hangar and air cargo capacity, they turned to Rubb for solutions. Because of space and growth constraints, the project required a unique design.

Considering Hawaii’s challenging natural conditions, a corrosive marine environment with strong winds, rain and high UV exposure, we provided a solid solution: a corrosion-resistant structural framework with a high-quality, non-corrosive PVC cladding, which allows natural light to enter while reflecting solar load.

Due to a shallow coral base at the site, the foundation requirements for the building had to be flexible. At 150,000 ft², the new facility consolidates existing cargo operations, aircraft maintenance, loading docks and customer service operations into an integrated facility.

Rubb’s technology offers long-term benefits superior to traditional construction. As HNL continues to grow, the Rubb air cargo facility may be expanded by adding trusses and extending the fabric roof. Rubb structures provide excellent adaptability for dynamic environments.

“It’s always a challenge to do major improvements to an active airport. The program was designed in a sequence to keep operations running 24/7.”

Carolyn Sluyter
Public Information Officer
State of Hawaii
BUILDING SYSTEMS

Proven and respected engineering combining efficiency, durability and fire safety.

Contact us for more information.