



AVIATION
APPLICATIONS



RIGID-FRAME TENSION FABRIC STRUCTURES

A FULLY OPTIMIZED SOLUTION
WITH UNBEATABLE DURABILITY
AND PERFORMANCE

CUSTOM ENGINEERED TENSION FABRIC STRUCTURES

Legacy Building Solutions combines the proven engineering, design flexibility and durability of structural steel buildings with the portability of fabric structures. And with custom engineering, we can provide a building solution that is fully optimized to meet each application and unique requirement – all within 1/3 of the time of traditional pre-engineered alternatives.

Our 100% in-house services include design, engineering, manufacturing, construction management and worldwide installation. This allows us to focus on building relationships and customer satisfaction by providing in-house services to control quality and timelines from start to finish. The Legacy proven engineering methods withstand the test of time, environmental conditions and building codes. Because of this, our fabric structures outlast harsh weather, corrosive environments and heavy equipment usage in locations across the globe.

➤ FABRIC APPLICATIONS FOR AVIATION

HANGARS	SHADE + DE-ICING SHELTERS	CARGO + BAGGAGE FACILITIES
MRO BUILDINGS	OPERATIONS + LOGISTICS SUPPORT	GROUND SUPPORT EQUIPMENT COVERAGE (GSE)
GENERAL WAREHOUSING	STAGING AREAS	AIRCRAFT TEARDOWN + RECYCLING FACILITY

THE LEGACY ADVANTAGE



Customizable **DESIGN**

- Engineered for site-specific requirements
- 100% in-house design and engineering services
- Clearspan widths of 300+ feet, peak height and slope to meet specifications
- Accommodate any size vehicle or cargo door



Proven **ENGINEERING**

- Meets or exceeds building code requirements
- Multiple foundation options available
- Solid steel I-beams allowing flexibility of design
- ISO 9001 accredited manufacturing facility



Full-Service **INSTALL**

- Fabric installed in a fraction of the time of traditional construction options
- Bonded and insured
- Worldwide installation services
- Fast track installation for faster ROI
- Designed for faster and safer installation
- Safety specifications: OSHA and MSHA



Maximize **ROI**

- NFPA 408 Group IV structure - lower fire-suppression requirements
- Energy efficient
- Built as permanent but portable as needed without loss of quality
- Nearly maintenance free
- Ideal for off-grid use



Natural **LIGHT**

- Fabric membrane provides an abundance of natural light
- Uninsulated fabric has up to 12% translucency
- Flame-retardant building material
- Consistently reported energy cost savings



DHL EXPRESS AIR CARGO LOGISTICS, (CVG)

ERLANGER, KENTUCKY

237,800 SQ FT TOTAL

- Two mirrored structures each 205' x 580'
- PVC fabric membrane with acrylic topcoat – gray, white and yellow
- All framing members factory finished with white primer
- Pavilion structures with one wall fully enclosed
- 8 jack beam openings 39' wide x 14' high in facing sidewalls
- 2' differential frame lengths to accommodate wide door header and site slope
- Delivered and installed on a critical time path to allow for continuous operations of the DHL Hub
- 20 psf ground snow load, 125 mph wind speed



SOLAR SHIP OFF-GRID HANGAR

BRANTFORD, ONTARIO

40,597 SQ FT

- 176' x 230' 8" hangar
- 60' eave clearance, 82' high at peak
- Primed gray steel frame with blue and white fabric
- 164' x 59' bi-parting hangar door on endwall
- Solar panels on roof for off-grid operation of solar-powered aircraft
- Legacy provided design assist and project manager services
- 24.6 psf roof rain-on-snow load, 8.8 psf wind load, partially enclosed, fully exposed, standard occupancy





SPIRIT AEROSYSTEMS

KANSAS

96,000 SQ FT

- 160' x 600' structure
- Two 20' x 20' Megadoors plus 30' x 25' removable door panel for large components
- Interior peak height of 46' 2"
- Heated for year-round use
- 8' gutters and downspouts for drainage control
- 12' 4" interior sidewall clearance
- Primed steel components
- 15 lb. snow load, 90 mph wind speed, seismic B, normal occupancy



AIRPORT VEHICLE MAINTENANCE

FORT McMURRAY, ALBERTA

4,540 SQ FT

- Tool shed 40' x 56', garage 46' x 50'
- Blue and white fabric
- R-30 insulation with interior fabric liner
- 18" eaves with soffit ventilation
- Attached CO and NOx monitors and communication siren
- Commercial grade overhead doors with electronic openers
- Legacy acted as construction manager, including removing and reinstalling concrete
- 31.3 psf Ss, 2.1 psf Sr, 7.3 psf wind load, open exposure, partially enclosed, low occupancy, 2 lbs collateral load





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