



Sprung Instant Structures nfo@sprung.com Customers worldwide have discovered the Sprung Advantage



EPSA Caserones Project - 4,200 meters (13,779.5 feet) above sea level in the Chilean Andes.

Proven quality and durability at remote sites around the globe have made Sprung Structures the world's leading tensioned membrane structure manufacturer for the mining industry



High Performance Building Solutions

Tensioned Membrane Structures Available Immediately From Inventory

ABOUT THE SPRUNG COMPANY

- In business since 1887 directed by four generations of the Sprung family.
- Inventor of the tensioned membrane structure.
- Innovative structure system is continuously evolving through ongoing research and development programs.
- Over 2,000,000 square feet of inventory available for immediate delivery.
- State of the art ISO manufacturing facilities.
- Proven technology with over 12,000 structures erected in 90 countries worldwide.
- Unmatched worldwide reputation in the mining industry.











Donald Allen Sprung Philip Davis Sprung





illip Donald Sprung imothy Ernest Sprung





Aluminum Substructure



Our Aluminum Substructure Outperforms Steel

While conventional construction is still relying on steel as its substructure material, your Sprung structure offers greater versatility and performance with an extruded aluminum substructure that arrives on site prefabricated and ready to assemble.

Aluminum is...

Rustproof

Unlike steel and wood, aluminum performs extremely well in humid environmental conditions.

Lightweight

Aluminum is about 1/3 the weight of steel.

Strong

Aluminum meets or exceeds building codes.

• Versatile

The substructure can be extruded into virtually any shape. Connections are butted, not welded.

Easy-to-Ship

The ratio of strength-to-weight equals more value for less weight.

- **Long-lasting** With an indefinite life expectancy, aluminum actually gets stronger with age.
- Environmentally Friendly

Aluminum is 100% recyclable, with no loss of quality.



Premium Insulation



Premium Insulation Offers Ideal Heating and Cooling Efficiency

Constant research, testing and development have led to a Sprung structure that provides naturally better climate control.

Unlike a metal building that compresses insulation at many locations within the finished product and lowers the R-value (the measure of thermal resistance), a Sprung structure keeps the insulation much closer to its maximum thickness for maximum performance and comfort. It also reduces your climate-control costs and absorbs sound for better acoustics.

The structure is ideally suited to almost any climate imaginable, from -50° C to $+50^{\circ}$ C.

When you build a Sprung structure with insulation, you also get our high-strength, rip-stop interior membrane. This membrane is more durable than drywall and offers exceptional fire-retardant capability.

Five reasons insulation performs better in a Sprung building

- 1. Our highly tensioned exterior architectural membrane provides a significantly better **airtight building envelope**.
- 2. There is no differentiation between wall and roof of a Sprung structure, which provides a more **consistent R-value** rating throughout the entire building envelope.
- 3. Up to **9-inch-thick (R-30)** layer of Johns Manville formaldehyde-free fiberglass blanket insulation means better performing insulation.
- 4. A double vapor barrier system helps reduce mold and mildew.
- 5. A reflective foil backing doubles both as a vapor barrier and to retain and **reflect radiant heat**, adding to the overall energy efficiency.

Why We Use the Johns Manville Formaldehyde-Free Fiberglass Blanket

- It is the only formaldehyde-free fiberglass product of its kind in the world.
- The aluminum foil backing increases overall efficiency, retaining or reflecting radiant energy.
- The blanket is eight or nine inches thick, **exceeding building code requirements**.
- The **<u>R-25</u>** or **<u>R-30</u>** rating of the fiberglass blanket contributes to an extremely energy-efficient system.
- The fiberglass is certified by Scientific Certification Systems (SCS) to have a minimum recycled content of 25%, comprised of 20% post-consumer bottle glass and 5% post-industrial glass.



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Performance Architectural Membrane

Polyurethane Architectural Membrane

- Blackout design prevents solar gain and manages climate control
- Weighs approximately 18 oz. per square yard
- High strength, rip-stop
- Exceptional fire-retardant capability
- 12-year pro-rata guarantee
- Opaque for maximum longevity and energy efficiency
- Available in white, grey or tan
- Rain Kleen® finish prolongs life of the fabric and is easy to clean

LTA

Low Temperature Arctic Membrane Designed for extreme cold weather installations (below -5°C, or 23°F)

- Blackout design prevents solar gain and manages climate control
- Weighs approximately 25 oz. per square yard
- Specialized low-temperature cold crack characteristics to -60°F
- High strength, rip-stop
- Exceptional fire-retardant capability
- Available in white or tan
- 15-year pro-rata guarantee

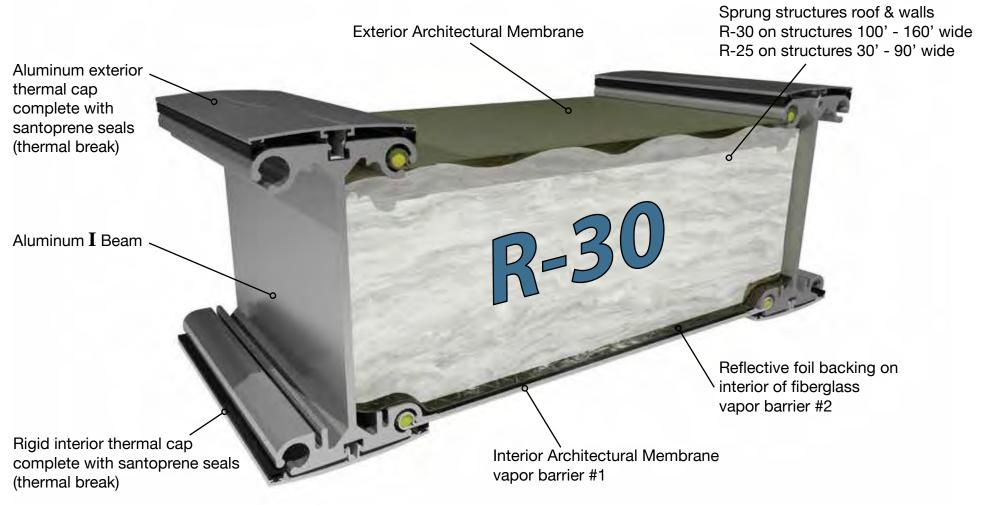
Kynar[®] and Tedlar[®]

Designed for permanent or long-term applications

- Simply the longest-lasting fabric of its type in the world
- Blackout design prevents solar gain and manages climate control
- Weighs approximately 24 oz. per square yard
- Guards against UV and airborne contaminants
- Dramatically extends membrane life
- High strength, rip-stop design
- Exceptional fire-retardant capability
- Available in large selection of colors (custom colors available)
- 20-year pro-rata guarantee



HIGH PERFORMANCE INSULATION SYSTEM



Johns Manville

Johns Manville Formaldehyde Free Insulation



PARTIAL CUSTOMER LIST





CAT

High Performance Building Solutions Tensioned Membrane Structures Available Immediately From Inventory

Finning - Canada

Vehicle Maintenance



High Performance Building Solutions

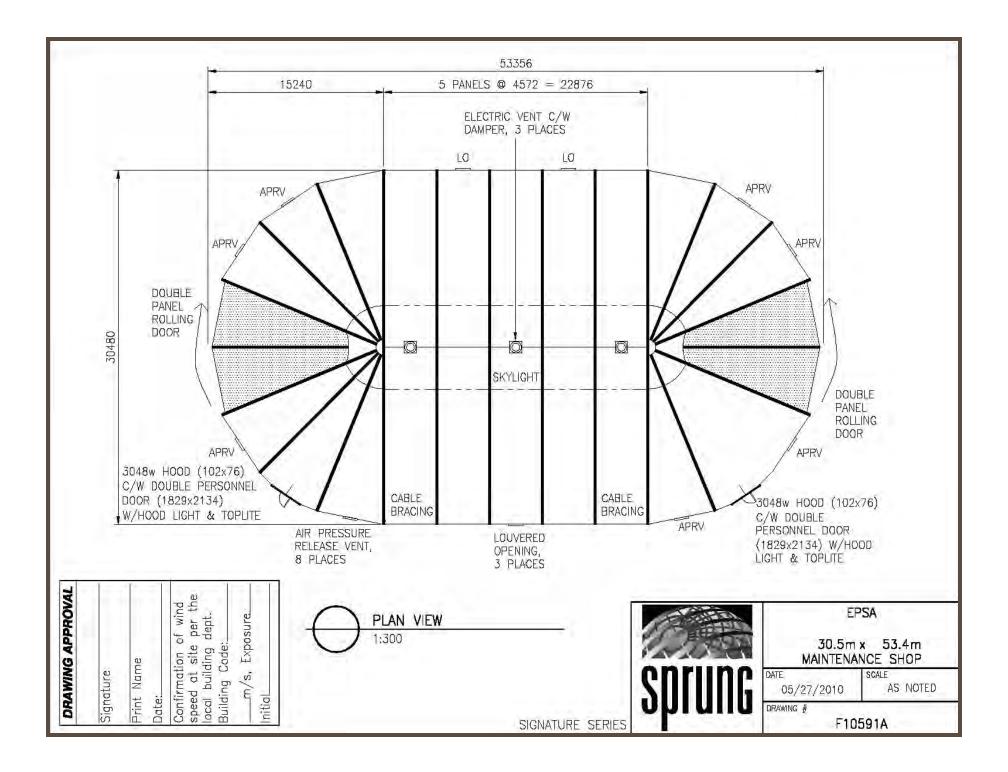
Tensioned Membrane Structures Available Immediately From Inventory

EPSA Caserones Project - Chile



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CATERPILLAR





EPSA Caserones Project - Chile

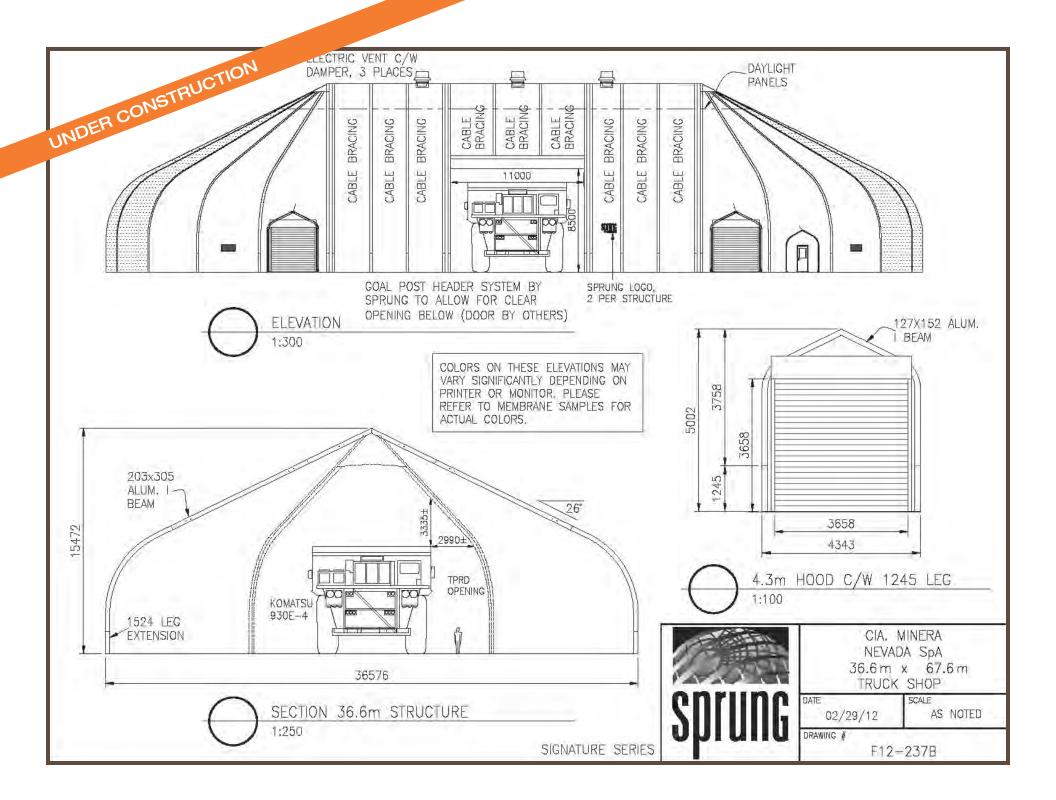


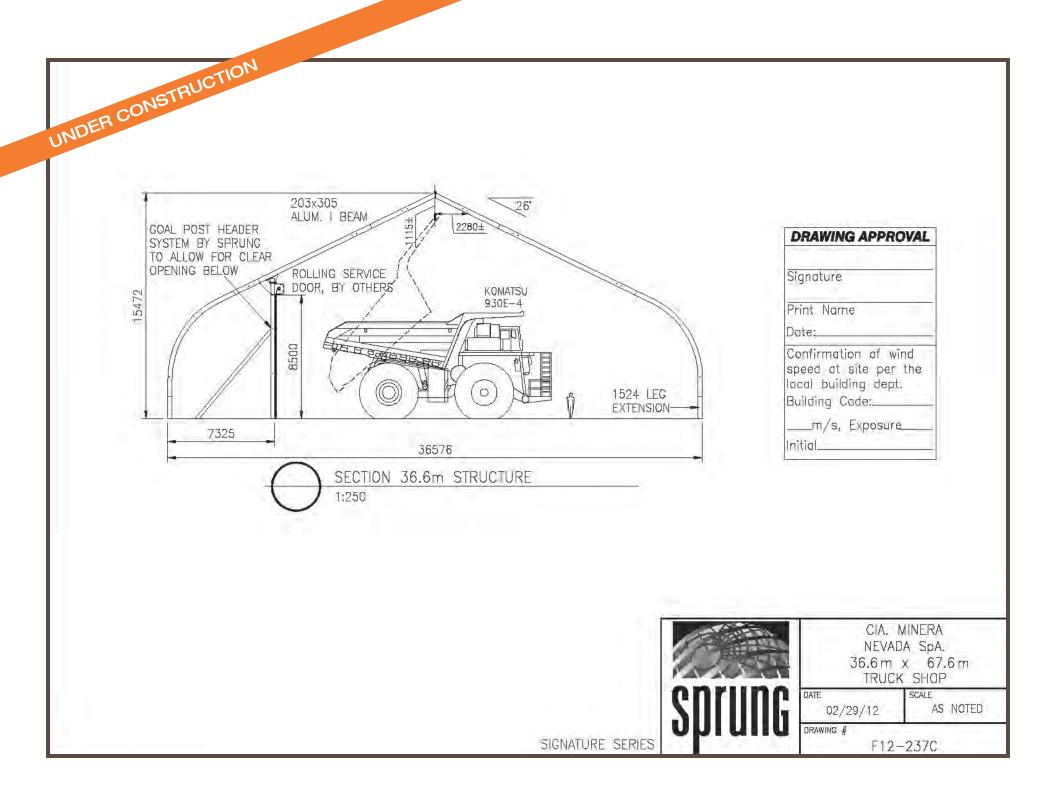


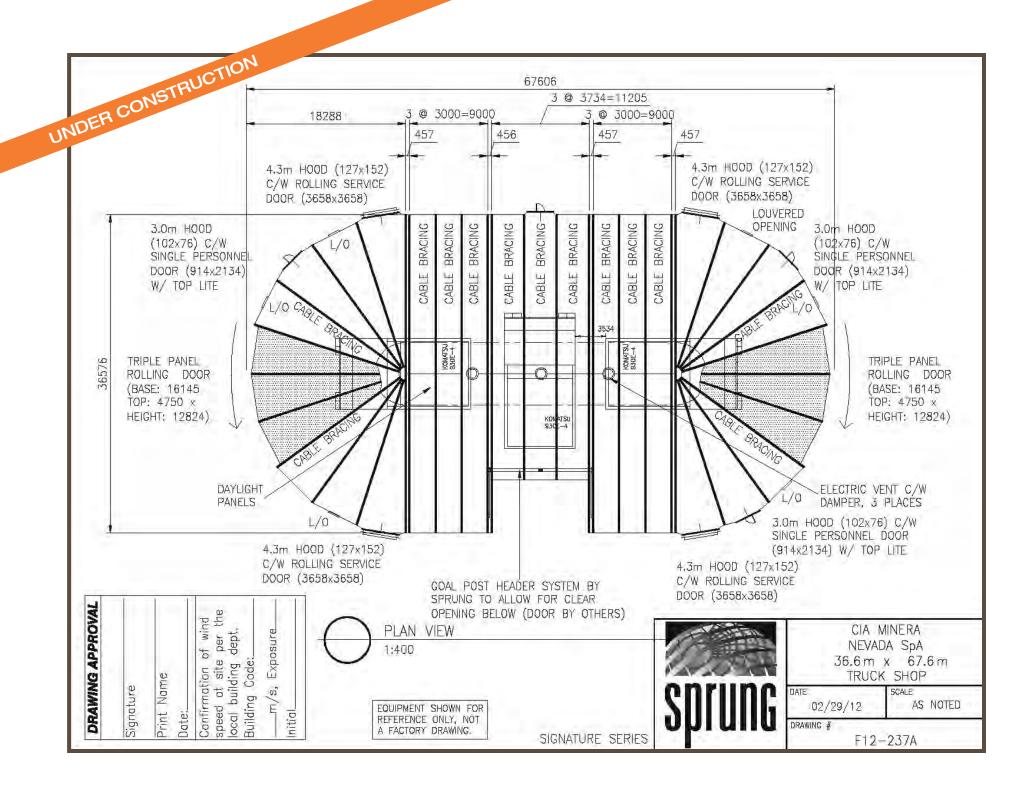


FMG, Solomon Mines Leighton - Western Australia











Joy Global (P&H MinePro Services)





Joy Global (P&H MinePro Services) - Virginia, MN





Transwest Mining Systems











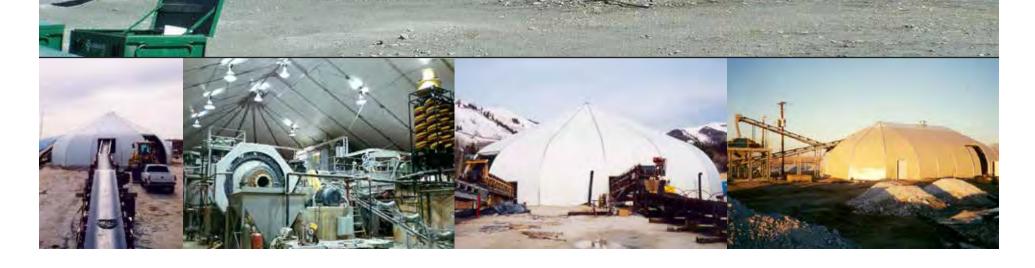
Resolution Copper Mining

Winch Housing



San Gold, Rio Tinto

Processing





San Gold

Conveyor Enclosures





Yukon Zinc, Atcon

Warehousing





Encana, Ekati, Rio Tinto





Liberty Mine





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High Performance Building Solutions Tensioned Membrane Structures Available Immediately From Inventory

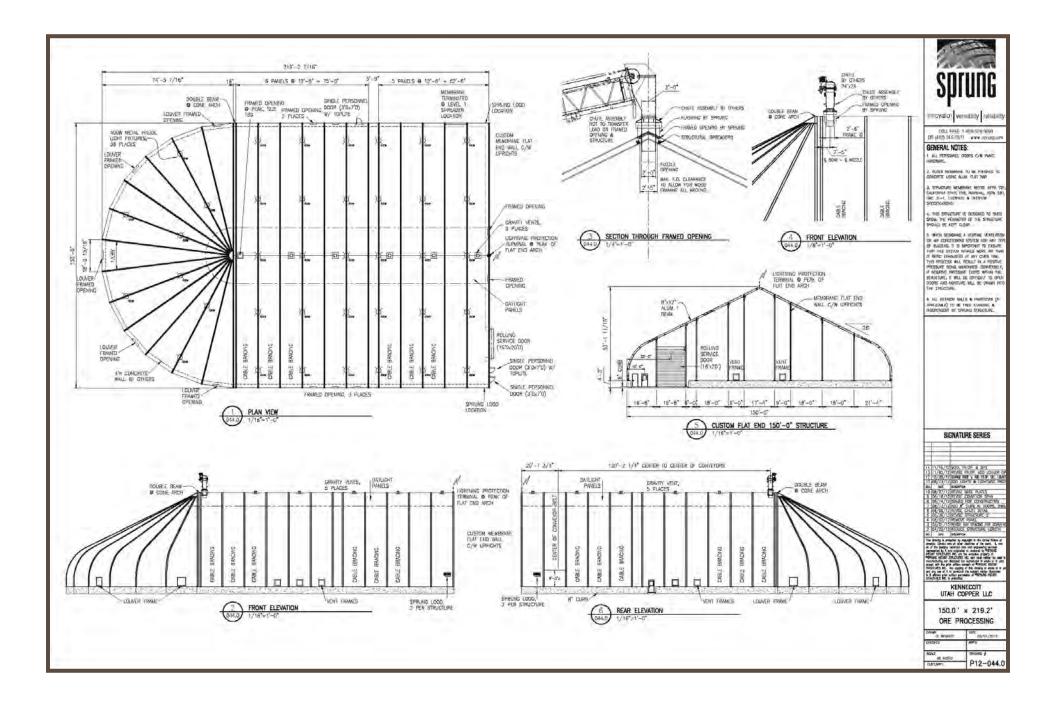
Bulk Storage





Kennecott Utah Copper MAP Project - Molybdenum Storage







Schlumberger - Russia

Training Facilities





Schlumberger - Canada





Sunoco, Conoco Phillips

Lunch and Safety Meeting

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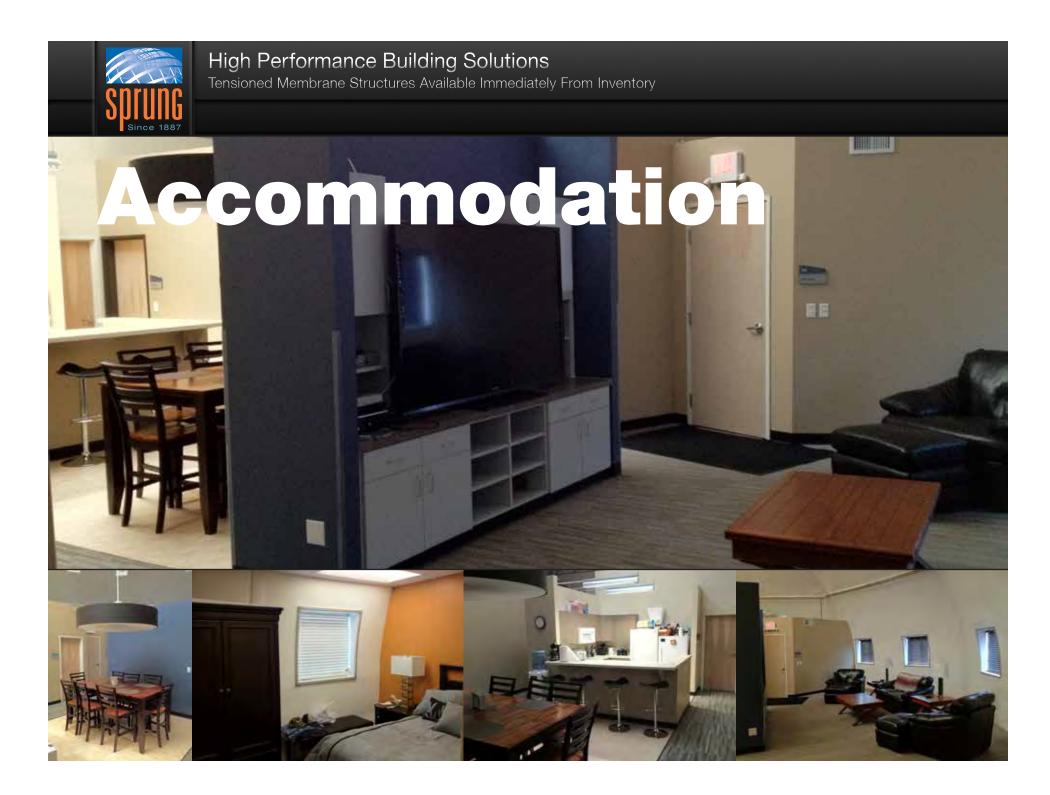


Conoco Phillips, Fluor











Pioneer Natural, Shell

Aircraft Hangars







Yukon Zinc, Kobe Steel

Crane lift-able









Pioneer Natural Resources, Baker Hughes, P&H MinePro Services, Shell

Superior Engineering

Rust proof aluminum substructure and patented membrane tensioning system provide a reliable building solution even in the harshest environmental conditions.

Speed of Construction

Over 2,000,000 square feet of inventory available for immediate delivery, a Sprung structure can be erected at a rate of up to 2000 sq ft per day.

Short Term Leasing

Our in house leasing provides a cost effective solution for short temporary applications.

Relocatable Design

Ideal for multi use applications

Lower Overall Costs

Sprung structures are engineered to accelerate construction, lower project costs and reduce operating expenses.

Limited Foundations

Foundations not required on structures up to 160' wide. Saves time and money.

Energy efficient Insulation Optional R30 insulation package

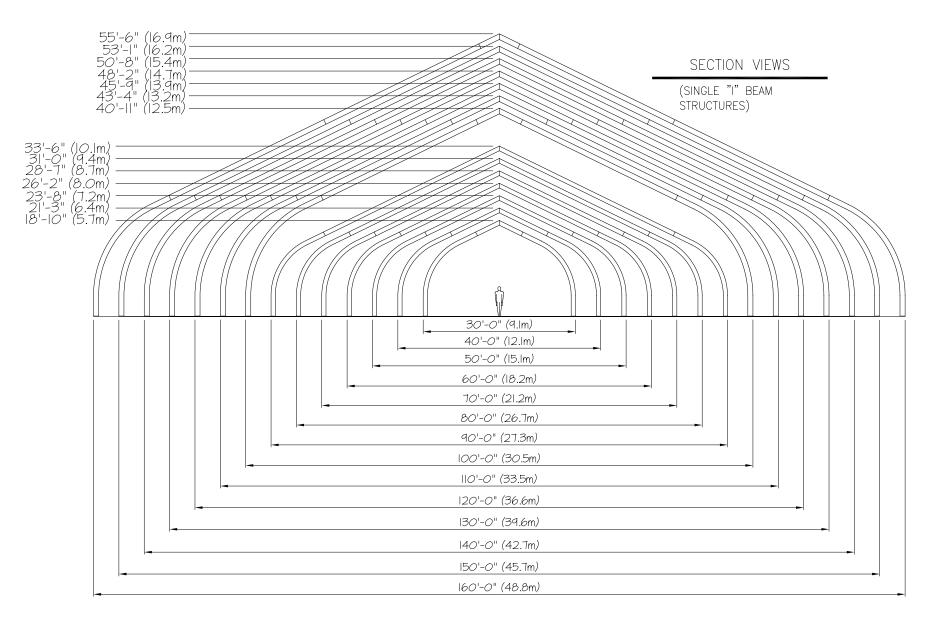
provides optimum climate control.



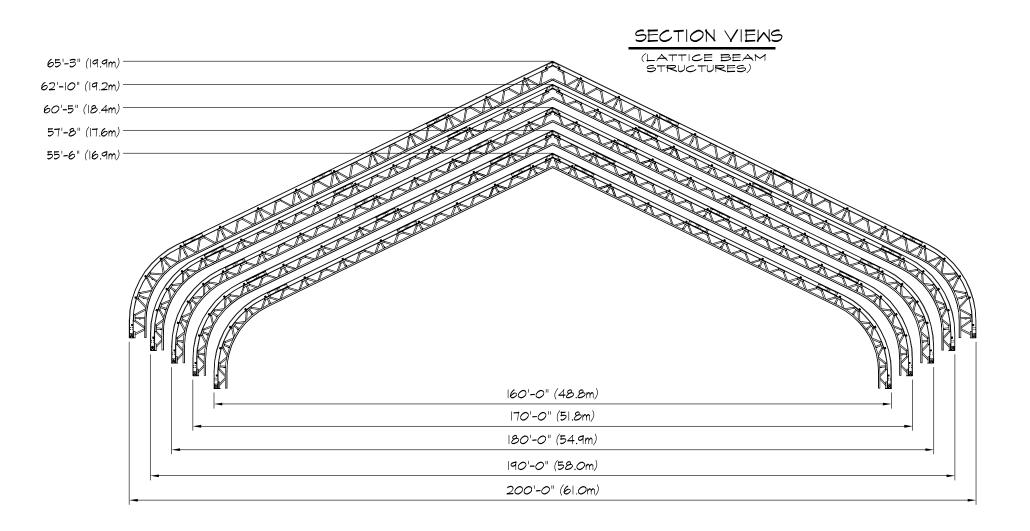
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30' to 160' wide by any length









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A Better Way to Build

North American Toll Free: 1 800 528 9899



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