

# TENSIONED FABRIC STRUCTURES

*Design-Build Solutions for Tensile Membrane Architecture*







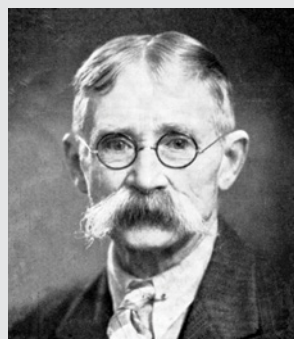
## QUALITY SINCE 1938

When Stan Eide started his awning business in the 1930s, he immediately understood that low-cost products were more expensive in the long run. The Eide family built their reputation on the design and manufacturing of premium awnings using state-of-the-art fabrics for customers who appreciated the long-term value of quality.

Eide Industries is currently made up of multiple product divisions including Tension Structures. With more than 20 years of experience designing and building fabric structures, Tension Structures continues to grow its project portfolio serving clients with signature and iconic tensile membrane structures domestically and internationally.



Stan Eide



Oscar Eide



Jack Eide



Jim Eide

## DISCOVER NEW SOLUTIONS TO CONVENTIONAL DESIGN CHALLENGES

Today Eide's experience in high-quality tensioned fabric structures are second to none. Whether your projects starts on a napkin, CAD or virtual platform, our integration of engineering, fabrication, and installation is your guarantee that our products are built to last.

## TENSION FABRIC STRUCTURE BENEFITS

- Beautifully Diffused Daylighting
- Flexible Design Aesthetics
- Longstanding Durability & Sustainability
- Lightweight in Nature
- Minimal Maintenance
- Cost Efficient
- Ability to Span Long Distances
- Variety of Fabric Selection

## PRODUCTS AND SERVICES

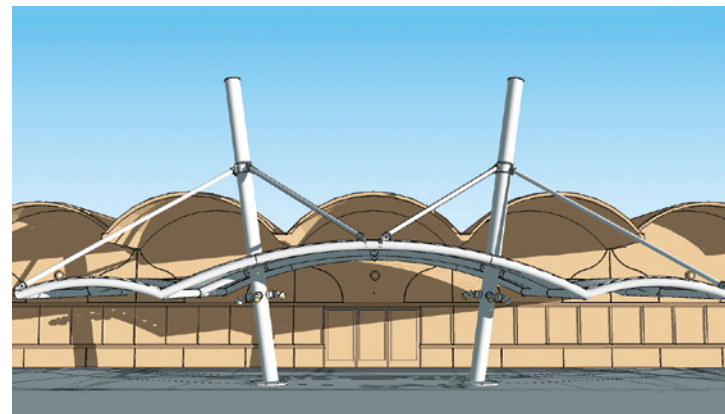
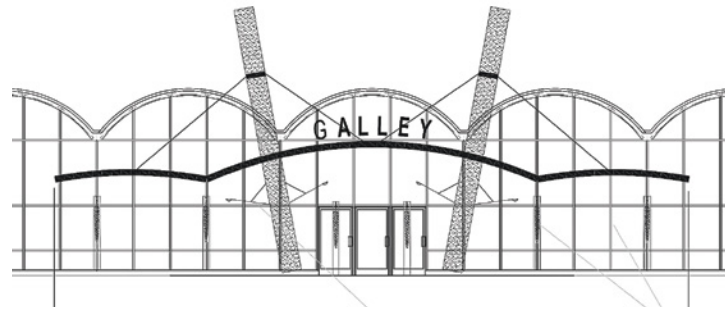
- Design-Assist/Rendering Capabilities
- Engineering Analysis/Stamped Shop Drawings
- Manufacturing/Fabrication of PTFE and PVC Membranes, Structural Steel
- Installation/Construction Planning & Execution





## DESIGN SERVICES

Offering design-assist services working with architects and owners, Eide Industries' experience and rendering capabilities will help bring your tensioned fabric structure to life. It all starts with your idea, plan or concept. With your imagination and Eide's expertise, we will work together to configure the most efficient and economical design.

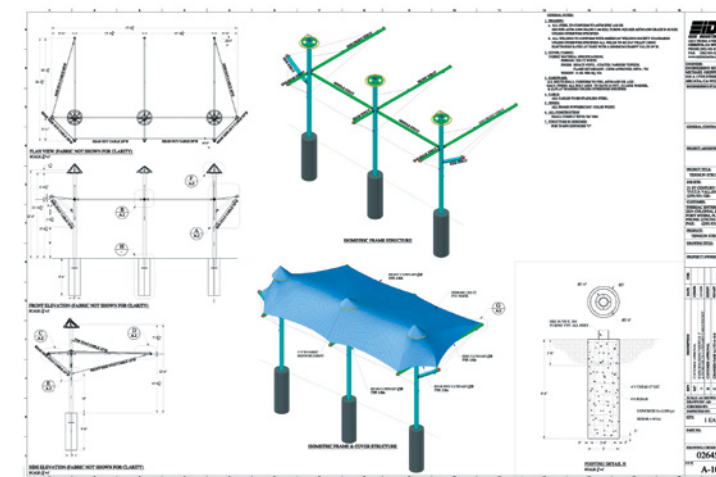
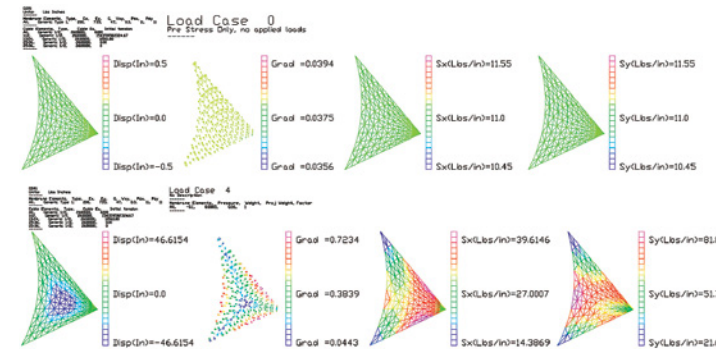
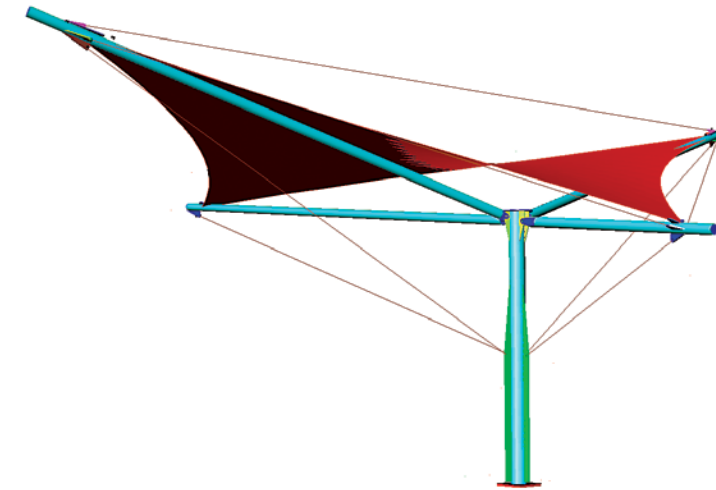


## DESIGN-ASSIST CAPABILITIES

- Feasibility Analysis
- ROM Budget Pricing
- Material Selection – PTFE or PVC
- Renderings & Shade Studies
- Custom Specifications – Section 133123 *Tensioned Fabric Structures*
- 3D Modeling
- Drawing Review
- Contract Documents

## ENGINEERING SERVICES

Eide Industries' engineering services include everything required to certify tension structures with permitting authorities for stress, wind, snow and/or seismic activities.



## ENGINEERING CAPABILITIES

- Finite Element Analysis (FEA) determines reaction forces of the structure under simulated loads such as wind, gravity and pretension of cables.
- Engineering calculations to ensure the structure is suitable for the loads in your city, whether it's 115 mph Santa Ana winds in California, 180 mph hurricane winds in Florida or 50 lb snow loads in Syracuse, New York.
- Design and calculation of appropriate concrete footing sizes.
- Optimization of frame structure member sizing and anchoring.
- Precise fabric patterning of the tension structure membranes to ensure a tight and wrinkle-free fit.
- Certified Engineering drawings and calculations suitable for state and local permitting authorities.
- Detailed and approved shop drawings for manufacturing.



## STEEL MANUFACTURING

Operating from a 41,000 square foot manufacturing facility with over 80 years of experience, our steel shop has the ability to fabricate and build for various sizes and complexities of tensile structures.



### FRAME WELDING CAPABILITIES

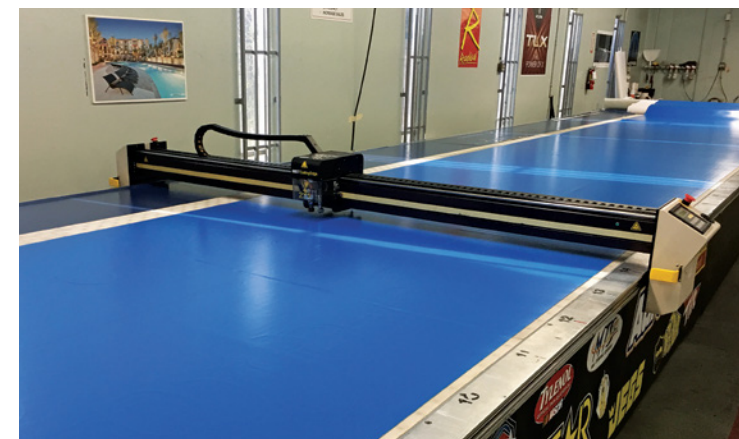
- Carbon steel
- Aluminum
- Stainless steel

### WELDING CERTIFICATIONS

- Los Angeles Approved Type 1 Metal Fabricator #1716

## MEMBRANE FABRICATION

During the fabrication phase, prestress PTFE or PVC fabric membrane is cut and welded to create final panel sizes to be installed in the field. Once the manufacturing of the membrane and steel members are finished, packaging of the materials are carefully handled for shipping and unpacking at the job site.



### MEMBRANE FABRICATION SERVICES

- High-temperature PTFE (Polytetrafluoroethylene) heat sealing machine to weld fabric membranes.
- Two 35-foot long RF (Radio Frequency) Heat Sealing Machines to weld PVC (Polyvinyl Chloride) and other high-frequency textile fabrics.
- Large format rolled ink, vinyl adhesive, eradication, cut and radio frequency sealed graphics, cold and heat transfers and digital applications.
- Industrial sewn membrane covers with HDPE (High Density Polyethylene) mesh or solid acrylic fabrics.
- Custom full-size fabric pattern plotting, cutting, scanning and digitizing services for engineered precision fittings.



## INSTALLATION SERVICES

Our installation department is certified to construct the most elaborate tensioned fabric structures and help make your dreams a reality. As a design-build specialty contractor, Eide Industries dedicates long hours of planning and attention to detail creating an installation procedure utilizing necessary equipment and manpower for each custom PTFE or PVC project.

Typical equipment that may be operated to assist in tension structure installations includes:

- Cranes
- Booms
- Zoomers
- Scissor Lifts
- Construction Forklifts
- Hydraulic Jacks



## CONTRACTOR LICENSES

- California Contractor #211771  
B, C10, C61, D03
- Los Angeles City Approved  
Type 1 Fabricator # 1716  
(also recognized in Las Vegas)
- Arizona Contractor #133892  
Class L-3 Commercial
- Arizona Contractor #133893  
Class C-3 Residential
- Hawaii Contractor #C 33409,  
C-44B Awnings & Patio Covers
- Nevada Contractor #68052  
B-5 Prefabricated Steel Structures  
(\$1,000,000 Limit)
- Nevada Contractor #68053  
C14H Awnings & Louvers  
(\$1,000,000 Limit)
- Washington State Contractors License  
EIDEIII893QW Awnings, Canopies,  
Patio Covers, Exterior Screens



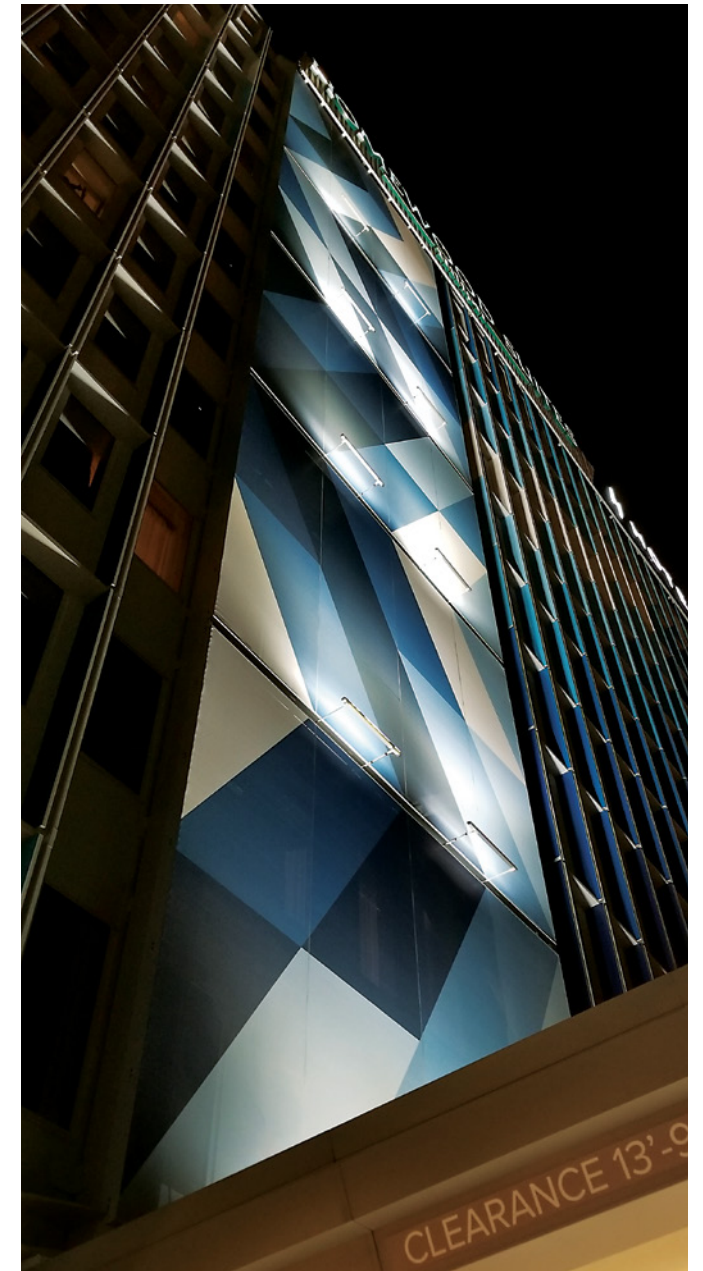
## YOU DESIGN. WE BUILD.

Whether it's architecturally innovative forms of tension fabric structures or fashionable tensile membrane building facade systems, Tension Structures by Eide Industries can help you bring your next project from concept to reality.



## TENSILE MEMBRANE FACADES

Looking to transform the outside of a building economically and efficiently all while performing as a screening device and minimizing solar heat gain? Tensile Facade systems allow for you to customize the exterior of a structure with the use of flexible fabric membranes that can span long distances, reducing the need of structural steel support frames making it an ideal cladding solution.







TENSION  
Structures



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