



**BIG SPAN**  
STRUCTURES

## ABOUT US

Big Span Structures offers concept-to-completion, highly customized: design, engineering, manufacturing, fabrication, and installation solutions for: tensile cable, frame supported, and air supported fabric-clad structures with a customer-focused service model. Big Span's Executive Management Team brings over a century of combined, highly-specialized knowledge & experience to the table. With a diverse skill set and collaborative, service-driven management style, Big Span Structures is uniquely positioned to outpace its competitors in the design and development of lightweight spanning structures, from the most basic to the highest levels of complexity.

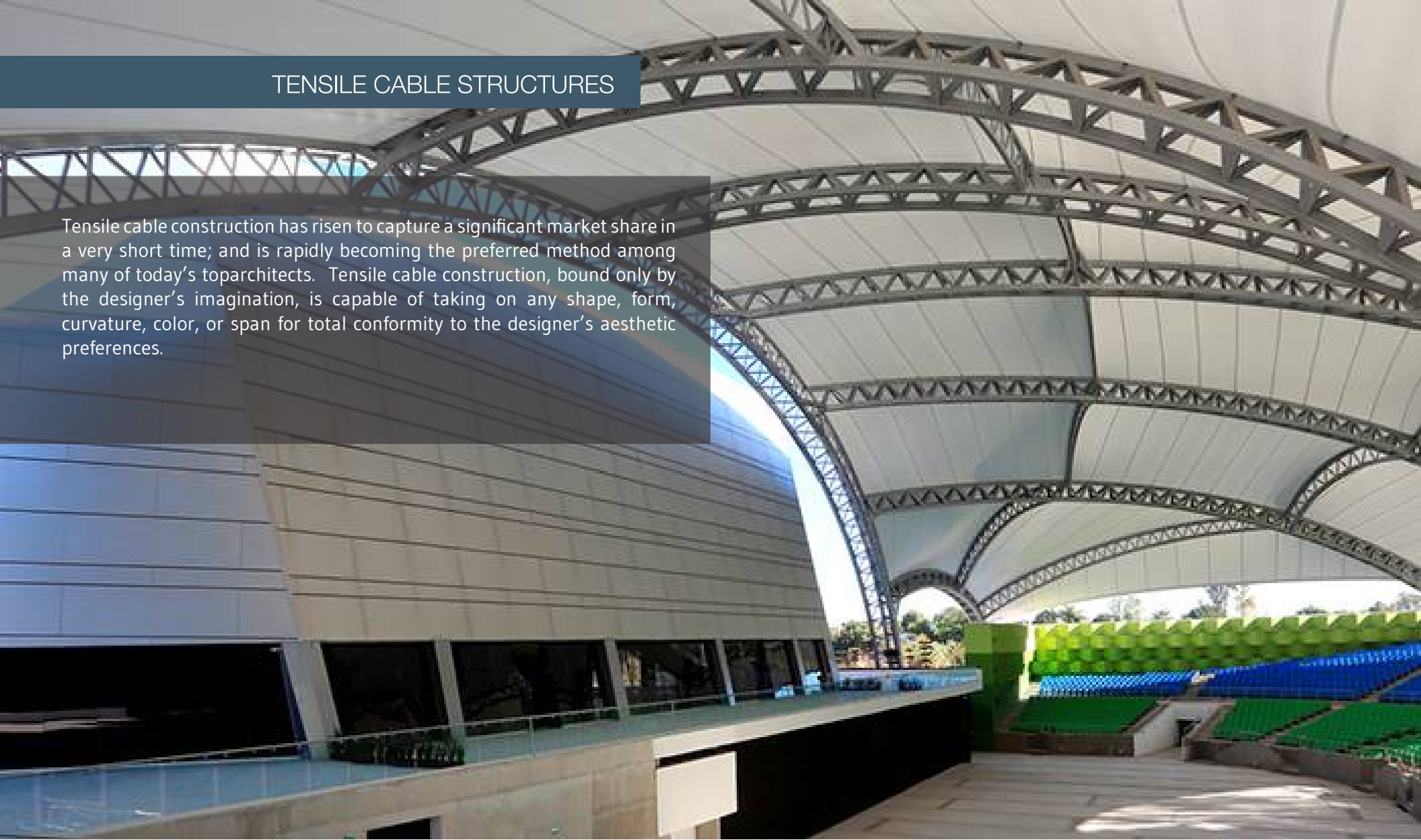
In our 40-year history, Big Span has successfully installed over 500,000,000 ft<sup>2</sup> of structures globally. These range from sports complexes and stadiums to: cultural venues, hangars, amphitheaters, containment facilities, industrial complexes, shopping centers, hotels, commercial buildings, and a wide variety of architectural accents and upgrades such as facades, umbrellas, and walkways.

In appreciation of the fact that the best business investments are made in human capital and capabilities, Big Span employs a mixed staff of full-time employees and independent contractors, about 200 strong, with backgrounds, educations, and experiences from a multitude of different fields. We understand that experts must also be perpetual students in our field, therefore Big Span's concept and design team are constantly researching the latest market trends and familiarizing ourselves with cutting-edge techniques. As a result, Big Span's creative capability and state-of-the-art materials and techniques assure that we are completely unbound by conventional rules of geometry for self-supporting structures. What this means for Big Span's customers is that, as we often say, "If you can imagine it, we can bring it to life."



## TENSILE CABLE STRUCTURES


Tensile cable construction has risen to capture a significant market share in a very short time; and is rapidly becoming the preferred method among many of today's top architects. Tensile cable construction, bound only by the designer's imagination, is capable of taking on any shape, form, curvature, color, or span for total conformity to the designer's aesthetic preferences.






## FRAME SUPPORTED BUILDINGS

Frame Supported structures are the most robust, and offer the highest degrees of resistance to the elements of any of our commercial structures. This product is capable of enduring the harshest environmental punishment, and can readily conform to the most extreme engineering requirements you may have.




### Amphitheaters

Big Span has had great success in providing concept-to-completion solutions for the new construction, refurbishment, and replacement of Amphitheater structures in both the private and public sectors. Having developed and honed a vast proprietary arsenal of fully-customizable designs, materials, and techniques specifically for the amphitheater market space, Big Span is uniquely qualified to deliver comprehensive results exclusively tailored to your individual architectural tastes, acoustic preferences, and structural design requirements. Contact us today to experience a deeper understanding of harmonious collaboration as Big Span's amphitheater design team works with you to bring your imagination to life.



### Hangars

Hangars Big Span's adept team of design principals and project managers have successfully designed, engineered, fabricated, and installed multiple aircraft hangars of varying styles and material compositions for applications from large commercial and passenger jets to light-weight, deployable, radar-ablative hangars for military aircraft to temporary and permanent wing / tail maintenance enclosures.



### Optimized Installations

Big Span designs and fabricates all of our rigid space frame systems utilizing highly specialized engineering techniques to optimize efficiency in terms of the time, manpower, and equipment required to complete the bolt-up installation process. Whether your design requirements call for a standard planar space frame or a dramatic, visually-striking rolled arched showpiece, Big Span's world-class designers and engineers are uniquely equipped to deliver streamlined solutions that are ready to use in as little time, with the smallest expenditure of resources possible.



# AIR SUPPORTED STRUCTURES

Air-supported structures offer significant cost savings and drastic reductions in production and installation periods versus traditional construction methods. Far from "tents," these amazing buildings can be engineered to meet or exceed any wind or snow loads required by U.S. code. Additional flexibility in the air-supported design is found in its ability to be made into either permanent or movable / re-deployable structures. Big Span's proprietary technology in this sector allows us to produce air-supported structures in less time, with superior structural capabilities than our competitors.

## Exhibition Halls and Conventions

Big Span air-supported structures are a natural fit for mobile or permanent exhibition, trade, and convention center facilities. There truly is no more cost-effective or time-efficient means of enclosing a large area and keeping hundreds or even thousands of people comfortable and engaged than a Big Span air-supported structure.

## Sports Facilities

The first installation of an air supported multi-sports facility took place at Harvard University in 1968. The size of the structure demanded the incorporation of a basic stress-relief strap system to add strength and flexibility to both the fabric and membrane. Polyester straps were eventually replaced with steel aircraft cables; and the configuration was re-designed into various degrees of bias grid patterns. This provides total encapsulation of the fabric membrane, eliminates the potential for tear propagation, and exponentially increases load-bearing capacity. With these and many other design advancements, the groundwork was set for air-supported structures as we know them today. Currently, Big Span utilizes state-of-the-art materials and mechanical components for levels of safety and structural integrity that are unmatched by any of our competitors.

## Construction Domes

Perhaps no one can better appreciate the costly nature of weather-related interruption and shutdowns on a working jobsite than a contractor. Whether pouring a residential concrete foundation or managing a large-scale commercial construction project, shut-downs erode profits quickly, create dissent among workers, contribute to late completion penalties, and are (thanks to Big Span's air-supported structures) completely unnecessary and 100% avoidable now and for the future. Perhaps no one can better appreciate the costly nature of weather-related interruption and shutdowns on a working jobsite than a contractor.

Our air supported structures have become the product of choice and preferred solution for a growing number of construction and project management companies in a host of different countries. The savings generated by continuous operation more than off-set the investment in a Big Span construction dome, usually by the end of the first project.





TENSILE FABRIC FACADES

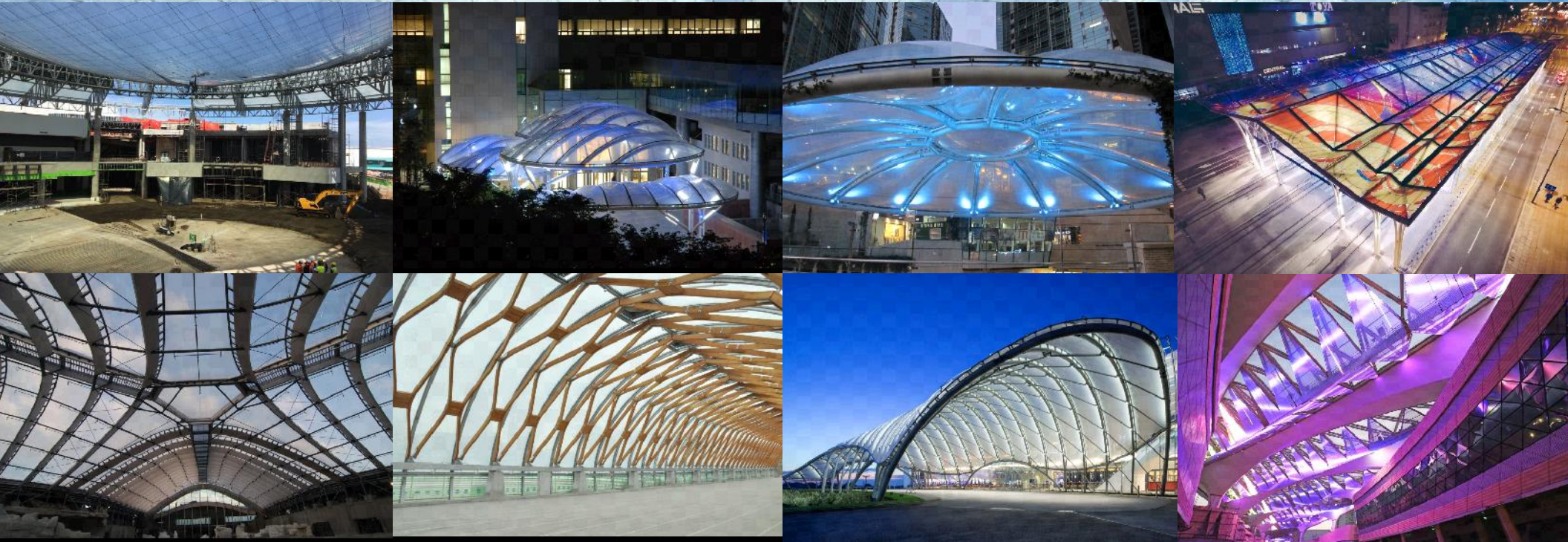




## ETFE STRUCTURES

ETFE (Ethylene Tetrafluoroethylene) film is durable, highly transparent and very lightweight in comparison to glass structures. ETFE is being considered the material of choice for traditional skylight applications to long span structures and building facades. Few building materials can match ETFE for its impact or presence when you want a structure that stands out from the crowd.

The raw granulate is extruded into sheets called foil or film with a density of 1.012 oz. per cubic inch. ETFE is one of the most lightweight and transparent cladding materials. Due to low coefficient of friction of its surface, dust or dirt will not stick onto the film. As the film is UV transparent, it will not discolor or structurally weaken over time. ETFE can also be recycled.





## OUR FABRIC WORKSHOP





## OUR STEEL WORKSHOP







**BIG SPAN**  
STRUCTURES

Big Span Structures LLC.  
1566 N. Meadowcrest Blvd  
Crystal River, FL. 34429

(352) 419 4890  
[www.bigspans.com](http://www.bigspans.com)