



TENSILE MEMBRANE FACADES

WORLDWIDE DIVERSITY IN TENSILE MEMBRANE ARCHITECTURE





TRANSFORM THE APPEARANCE OF YOUR BUILDING WITH A TENSILE FACADE SYSTEM BY BIG SPAN

Tensile Membrane Facades by Big Span Structures are an excellent answer for any building owner looking to create a building envelope system that's not only eye-catching but also durable and cost effective compared to traditional building products. Due to the lightweight flexible nature of membrane, a tensile fabric facade can span long distances while reducing the need for a lot of structural steel support framing making it an affordable and innovative solution.

Such fabrics like PTFE or PVC membrane are ideal on parking garages, office buildings, large stadiums using the same technology as tensile fabric overhead roofing canopies, or, with transparent ETFE cushions or a single layer ETFE system. PTFE and PVC membranes are both available in a solid or mesh format. The life expectancy for PVC membranes ranges anywhere from 10 - 20 years and 30+ years for PTFE-coated fiberglass membrane and ETFE film.



ADVANTAGES OF TENSILE MEMBRANE FACADES

- › DECREASE SOLAR HEAT GAIN
- › FLEXIBLE DESIGN AESTHETICS
- › DURABLE & SUSTAINABLE
- › COST-EFFECTIVE SOLUTIONS
- › LONG-SPAN CAPABILITIES
- › RETROFIT EXISTING BUILDINGS
- › NATURAL LIGHT TRANSLUCENCY
- › AIR VENTILATION
(MESH FABRICS)
- › 100% RECYCLABLE
(MEMBRANE SPECIFIC)
- › NON-COMBUSTIBLE FABRICS
- › OUTWARD VISIBILITY FROM INSIDE
(MESH OR CLEAR FABRICS)





TENSILE FACADES BY BIG SPAN STRUCTURES OFFERS FULL-SERVICE DESIGN-BUILD SOLUTIONS

› 40+ YEARS EXPERIENCE IN THE TENSILE MEMBRANE STRUCTURES INDUSTRY



CREATIVE OPTIONS TO ENHANCE YOUR BUILDING

- › DIGITAL PRINTED GRAPHICS (PVC MEMBRANES OR ETFE FILM)
- › CUSTOM COLORS
- › LED LIGHTING



DELIVERING HIGH-QUALITY STRUCTURES, OUR TURN-KEY SERVICES INCLUDE:

- › DESIGN ASSIST & COST BUDGETING
- › PRODUCT RECOMMENDATIONS
- › ENGINEERING
- › STEEL FABRICATION
- › MEMBRANE FABRICATION
- › INSTALLATION / CONSTRUCTION
- › MAINTENANCE





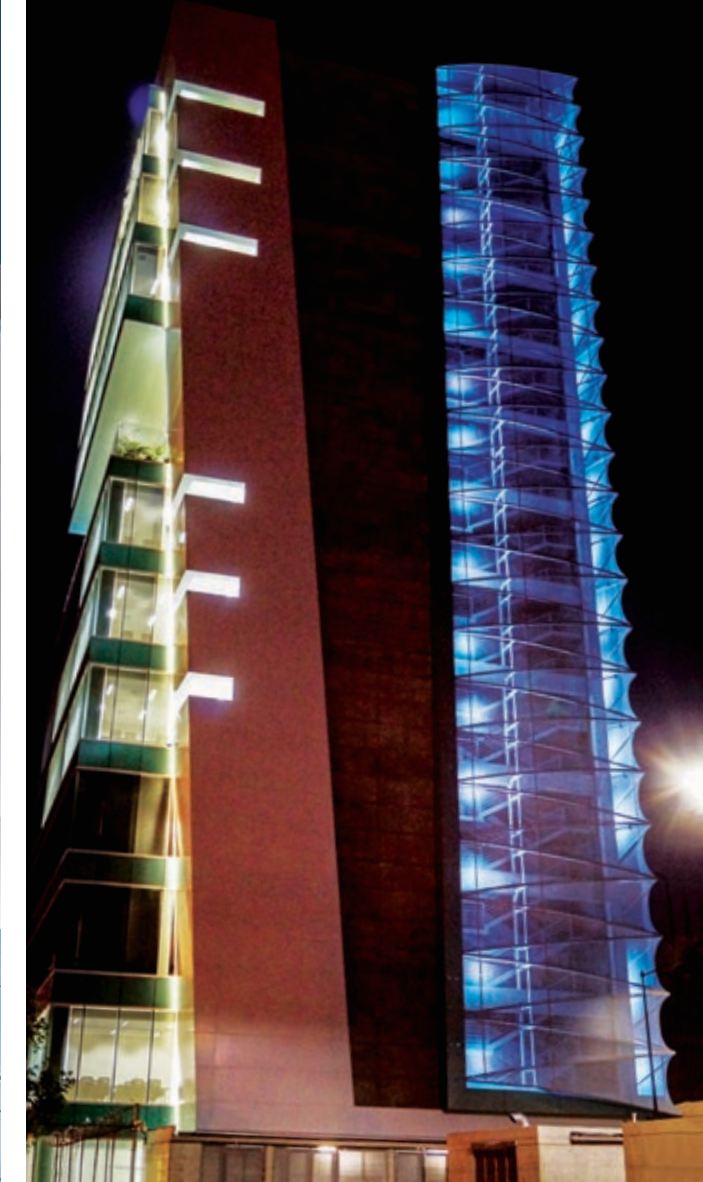
BIG SPAN STEEL & MEMBRANE FABRICATION FOR TENSILE FACADES

Big Span is committed to manufacturing high quality steel and membrane fabrication for our design-build tensile facade systems. With in-house manufacturing facilities located in North America, Big Span offers over 70,000 sq. ft. combined capacity allowing to meet accelerated schedules and regulate production quality. As a full-service specialty contractor, these fabrication capabilities separates Big Span Structures from other U.S. based companies.



STEEL FABRICATION CAPABILITIES:

- FULL IN-HOUSE STRUCTURAL FRAME FABRICATION
- CAD DRIVEN AUTOMATED CNC PLATE & 3D STEEL PIPE CUTTING
- AWS CERTIFIED WELDERS
- 3RD PARTY CERTIFIED WELD INSPECTION & REPORTS
- IN-HOUSE SAND BLASTING & PAINTING BOOTHS



TENSILE FACADE INSTALLATIONS BY BIG SPAN'S CONSTRUCTION TEAM

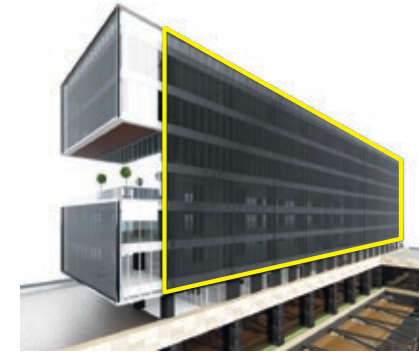
With over 40 years of designing and building customized tensile membrane solutions for our clients' unique construction requirements, our installation crew at Big Span Structures offers some of the most experienced, well-qualified and dedicated construction specialists in the business. For both the supporting structural steel framing as well as the fabric membrane, Big Span's construction team will develop construction methodologies, coordinate erection procedures and provide a detailed installation schedule for your next tensile membrane facade project.





SLEEK CONNECTION PROFILES OFFER A STREAMLINED TENSILE FACADE SYSTEM

We offer aluminum extrusions in a stick-build version which allows to directly attach the extrusions to the building facade or to a Big Span Structures supplied steel framing system, followed by the fabric installation.



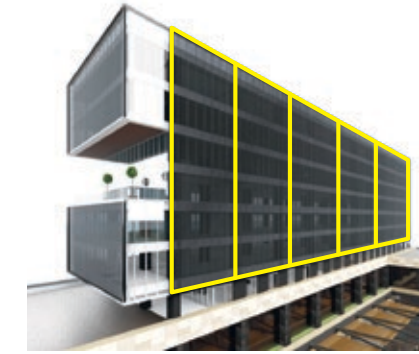
FABRIC COVER

Perimeter frame no joints,
with all RF welded seams



*Visible facade movement
on very windy day*

\$



FABRIC COMBINATION

Perimeter frame some joints,
and some RF welded seams



*Light visible facade
movement on very windy day*

\$\$



FABRIC CLADDING

Perimeter frame ALL joints,
and NO RF welded seams

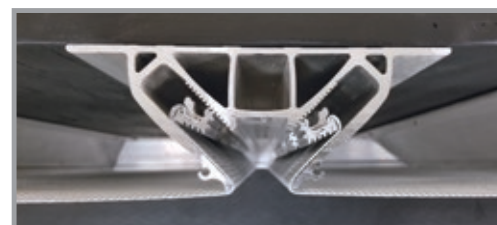


*Near motionless visible facade
movement on very windy day*

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FRAMED PERIMETER



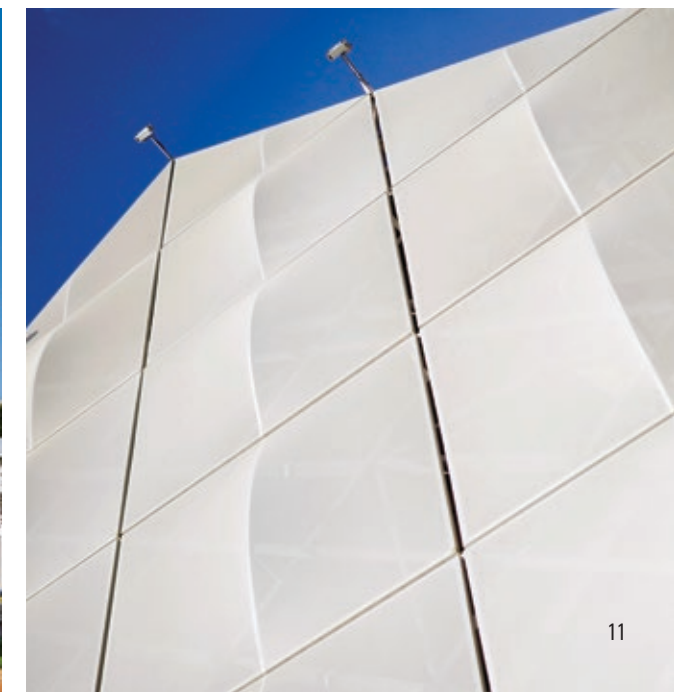
JOINT



INSIDE CORNER



OUTSIDE CORNER



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