

**ADAS®
TENSILE MEMBRANE**



ADAS® Tensile Membrane refers to high quality lightweight structures using PTFE-coated glass fiber or PVDF-coated PVC fabrics. The strength, durability and light weight of these materials enable you to have flexibility and freedom in architectural expression across large spans with a multitude of possibilities. Customisable translucency and shading levels offer soft, diffused natural light, and can also be completely opaque.

To further cater to project requirements, our structural systems, such as ADAS® Architectural Steel, ADAS® TensiNet or ADAS® Spaceframe can be designed with various forms and colours. Being lightweight, ADAS® Tensile Membrane systems are proven to be a cost effective and aesthetically pleasing alternative to conventional building materials.



ADAS Group
Singapore Office

50 Bukit Batok Street 23 #05-15,
Midview Building Singapore 659578.

Tel
(65) 6765 6288

Email
mepl@me.com.sg

Website
www.me.com.sg

Malaysia Office

Contact Person : Mr Que Rosdin
Tel (60) 13 439 7055
Email adas_hightex@live.com

USA Office

Contact Person : Mr Bernd Rennebeck
Tel 305-815 8808
Email bernd@spstin.com

Tensile Membrane





Since 1988

- Design and build Archi-Engineering firm
- Over 30 years experience with more than 650 projects worldwide
- Lightweight long span structure specialists
- Low risk with tested & proven design details
- High level of Prefabrication:
 - Fast Erection on Site
 - Precise Fabrication
 - Good Quality Control
- Low Maintenance with non-stick roof surface



Structural geometries consisting of aesthetic curves and forms are achievable.

LONG SPAN & LIGHTWEIGHT STRUCTURES



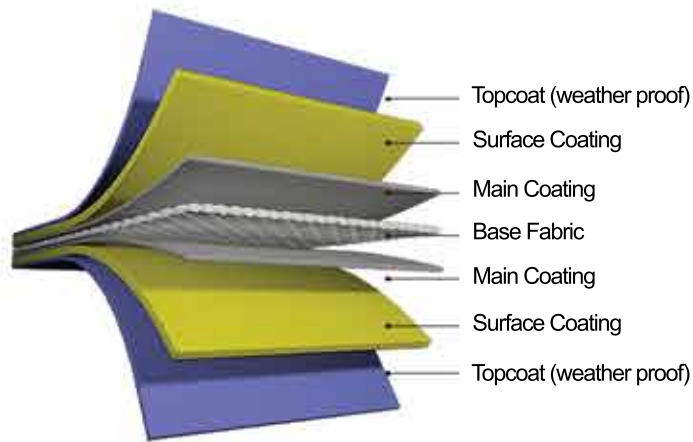
Our membranes allow for large coverage suspended at great heights.

TRANSLUCENCY AND SHADING LEVEL CONTROL



Due to its ingenious textile properties, our membranes can provide shading for both indoor and outdoor coverage.

ADAS® Tensile Membrane



TEFLON-COATED GLASS FIBER FABRIC

Woven fiberglass coated with PTFE (also known as Teflon®) is widely used due to its higher tensile strength as well as more durable coating. The fiberglass has a high ultimate tensile strength, behaves elastically and does not undergo significant stress relaxation or creep. The PTFE coating is chemically inert, immune to UV radiation and can be cleaned with water.

PTFE-coated fiberglass is available with as much as 25% translucency, providing diffused interior light. Its ability to provide natural day-time lighting and its highly reflective surface for efficient nighttime interior lighting can reduce energy consumption.

PVDF COATED PVC FABRIC

PVDF Coated PVC is the most frequently used fabric because of its strength, durability, and cost. These are generally the least expensive options for longer-term tensile structures. These fabrics are pre-processed to be flame-retardant in accordance with international standards, treated with short-term and long-term fungicides, and varnished on both sides. PVDF coating on the surface provides effective protection against atmospheric pollution, soiling and climatic aggressions.

A variety of colors are available.

