BoLin®



Product brochure

GUANGZHOU BOLIN TENT CO., LTD

CATALOGUE

BUSINESS SCOPE: ETFE Membrane Structure, PTFE Membrane Structure, PVDF Structure, Tent, Canopy

1. SPORTS FACILITIES:

Stadium grandstand, swimming pool, tennis court, training center,Fitness center, golf course, gateball court

2. COMMERCIAL FACILITIES:

Plaza membrane structure, shopping center membrane structure, hotel membrane structure, Membrane structure of restaurant, membrane structure of store, membrane structure of pedestrian street

3. TRANSPORTATION FACILITIES:

Airport membrane structure, railway station membrane structure, bus station membrane structure,Toll station, wharf, gas station, parking lot

4. INDUSTRIAL FACILITIES:

Greenhouse membrane structure, logistics center membrane structure, industrial area membrane structure,Membrane structure for gate entrance

5. LANDSCAPE FACILITIES:

Park leisure landscape membrane structure, iconic membrane structure,Membrane structure for community garden

6. CULTURAL FACILITIES:

Convention and exhibition centers, theaters, conference halls, museums, botanical gardens, Aquarium, Scenic Area, Vacation Villa, Walking Street, Music Square

7. INFLATABLE MEMBRANE FACILITIES:

coal sheds, indoor stadiums, military industries, scientific research institutions, etc.

8、ETFE MEMBRANE STRUCTURE FIELD:

Single-layer, multi-layer, air pillow membrane structure

9、TENT

Tents, hotel tents, electric retractable shelters, etc.

10、ENGINEERING CASES:



Company Profile

Located in Panyu District, Guangzhou Bolin Tent Co., Ltd.has a plant area of 30000 m^2 and a professional serviceteam of 100+ people. It is a professional manufacturerof hotel tents focusing on campsite planning, R&D, design, manufacturing, installation and after-sales service.With open-minded designers, innovative R&D staff,skilled installation team and efficient sales team,we offer hotel tent products to meet every customer' srequirements.



Honors and Qualifications







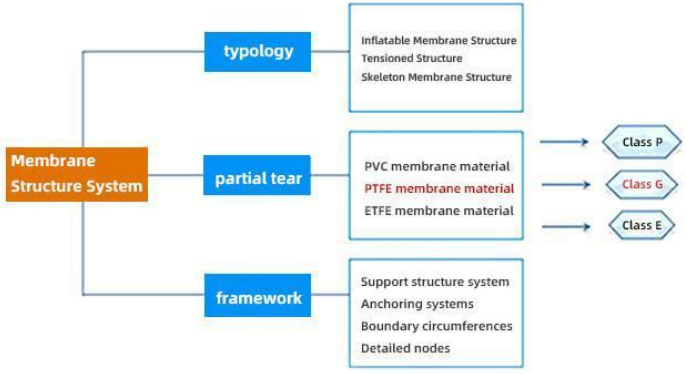






Membrane Structure Analysis

Membrane Structure System

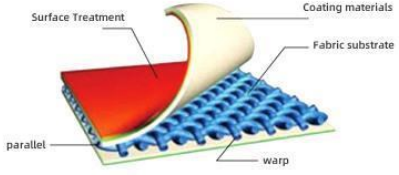


Membrane Structure System

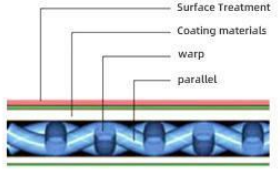
BASE FABRIC: High strength fabric woven from glass fibers or polycarbonate fibers.

COATING: A polymer layer applied to the substrate to protect it.

SURFACE LAYER: An additional layer on the surface that protects the film material fromUV erosion and gives the film material self-cleaning function.



Composition of membrane materials



Cross section diagram of membrane material

BoLin®

MEMBRANE PERFORMANCE COMPARISON

Index	ETFE membrane	PTFE membrane	PVDF membrane	Environmental engineering membrane materials	Acrylic film material
Usage environment	Terminal building and waiting hall	Buildings with high requirements, such as airport terminals, sports venues, etc	Buildings with low requirements or special requirements, such as air membranes	Sealing of sewage tanks and contaminated soil	Obsolete product
Base fabric material	Ethyl tetracyanoethylene	Glass fibre	Polyester fiber (PVC)	Polyester fiber (PVC)	Polyester fiber (PVC)
Coating	not have	PTFE coating	PVDF coating	Anti aging and anti-corrosion coating	Acrylic
Whitewashing function	Good	Very good	Good	Good	Range
Transmittance	95%	6-15%	5-20%	5-15%	
Service life	Over 20 years	Over 30 years	15-25 years	15-25 years	3-5 years
Tensile strength	1000-1500N	4000-9000N	3000-8000N	3000-8000N	
Fire rating	B1	A2	B1	B1	B1
Mode of transport	Unfold	Unfold	Foldable	Foldable	Foldable
Processing difficulty	Difficult	Difficult	easily	easily	easily
Installation method	Air pillow type	Secondary tensioning type	One tensioning	One tensioning	One tensioning
Price	higher	tall	same as	same as	10-20% of PVDF

Material Display

Outer membrane series







Color film series



grid structure

Product Display



MEMBRANE COLOR

Color diversity





Print point diversity





BoLin®

PVDF MEMBRANE

What is PVDF?

PVDF (Polyvinylidene Fluoride) polyvinylidene fluoride abbreviation, refers to polyvinylidene fluoride (VDF) homopolymer or VDF and a small number of other fluorine-containing ethylene monomer copolymer.PVDF's complex crystalline structure, mainly by the α, β, γ three crystalline composition, the melting point range of 160 ℃~175 ℃, the beginning of thermal decomposition temperature higher than 340 ℃, long-term use temperature range of -40 ℃ ~ 150 ℃, has self -extinguishing. The melting point ranges from 160℃ to 175℃, the initial thermal decomposition temperature is higher than 340℃, the long-term use temperature ranges from -40℃ to 150℃, and it has self-extinguishing property.

From the molecular structure of PVDF, due to the carbon chain of polypropylene hydrocarbon molecules is serrated, its hydrogen atoms are electro-negative fluorine atoms replaced by the larger, and the neighboring fluorine atoms are mutually exclusive, thus making the fluorine atoms are not in the same plane, and along the carbon chain for the helical distribution of the carbon chain is surrounded by the nature of the stability of the fluorine atom surrounded by the carbon chain. This almost gapless space barrier makes any atom or group can not enter its structure and destroy the carbon chain, thus showing very high chemical stability, thermal stability and excellent resistance to external mechanical deformation, high toughness and other characteristics. Therefore, PVDF is not easy to be corroded by acids, strong oxidizing agents and halogens at room temperature, insoluble in aliphatic hydrocarbons, alcohols, aldehydes and other organic solvents, soluble only in individual strong polar solvents.

The covalent bond of fluorine organic compounds on PVDF can prevent the entry of photons in the visible-ultraviolet wavelengths that play a destructive role in organic matter.Functional coatings with PVDF resin as the main film-forming material have the advantages of superior weather resistance, corrosion resistance, stain resistance, heat resistance and impact resistance, etc., and can be used outdoors for more than 20 years without any change in the appearance of the coating.







PTFE MEMBRANE

PTFE Building Membrane Material:

It refers to the composite material formed by coating PTFE (polytetrafluoroethylene) resin on the base cloth woven by very fine glass fibers (3μm), PTFE building membrane material is the mainstream membrane structure building material in today's world.

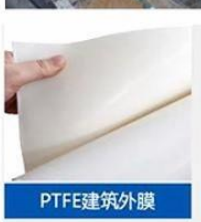
(1) PTFE membrane material is characterized by high strength, medium strength PTFE membrane thickness of only 0.8mm, but its tensile strength has reached the level of steel; and low modulus of elasticity, which is conducive to the formation of complex curved surface modeling of the membrane material;

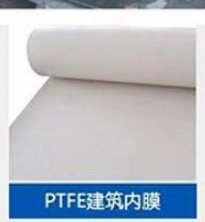
(2) a wide range of use temperature, can be used in the temperature range of -70 ℃ ~ 230 ℃; (3) has a unique optical properties, the daytime incident light Become a natural warm light, to prevent glare, no shadows, light distribution; almost no ultraviolet transmission, preventing the fading of the internal decorative materials and equipment; high reflective performance at night so that the room has excellent lighting effects, reduce power consumption, and can set off the night sky in the building's brilliance;

(4) good self-cleaning, rain can wash away the surface of the adhesion;

(5) High light transmittance, light transmittance is 13%, heat reflectivity 73%, heat absorption is very little;

(6) Service life is more than 25 years.


PTFE建筑外膜


PTFE建筑内膜


PTFE建筑网格膜


高透光建筑膜材


定制化产品

ETFE Membrane

ETFE Membrane: It refers to the ETFE film made of ethylene and tetrafluoroethylene copolymer, the thickness of ETFE film is generally less than 0.20mm, it is a kind of transparent film. The film can be obtained by melting ETFE particles at high temperature and then kneading and molding, and its thickness is generally 80-300μm when used for building roof or wall materials. As we all know, ETFE membrane structure membrane has been widely used in all kinds of buildings, and is loved by the majority of customers because of its unique way and excellent quality.

So, what are the specific advantages of ETFE membrane structure membrane material ETFE membrane structure membrane material advantages:

Translated with www.DeepL.com/Translator (free version)

1. It has better anti-cracking and tear strength.
2. The strength of length direction and vertical direction is more balanced, and the uniformity of the membrane is good. 3. High light transmittance, can be more than 95%.
4. Good self-cleaning, dust-proof, weather-resistant, artificial cleaning intervals far better than PVC, PTFE membrane.
5. Excellent anti-aging ability, the service life of more than 25 years.
6. Excellent chemical corrosion resistance, can be used in special environments,can resist most of the acids and alkalis.
7. Excellent climate adaptation function, can be directly exposed to -200C ~ 1500C temperature.
8. Good impact and abrasion resistance, applicable to outdoor environment such as flying sand and hail.
9. Good flame retardant, good insulation function, fire rating to B1.
10. Recyclability, the membrane can be fused by heat and then reused.





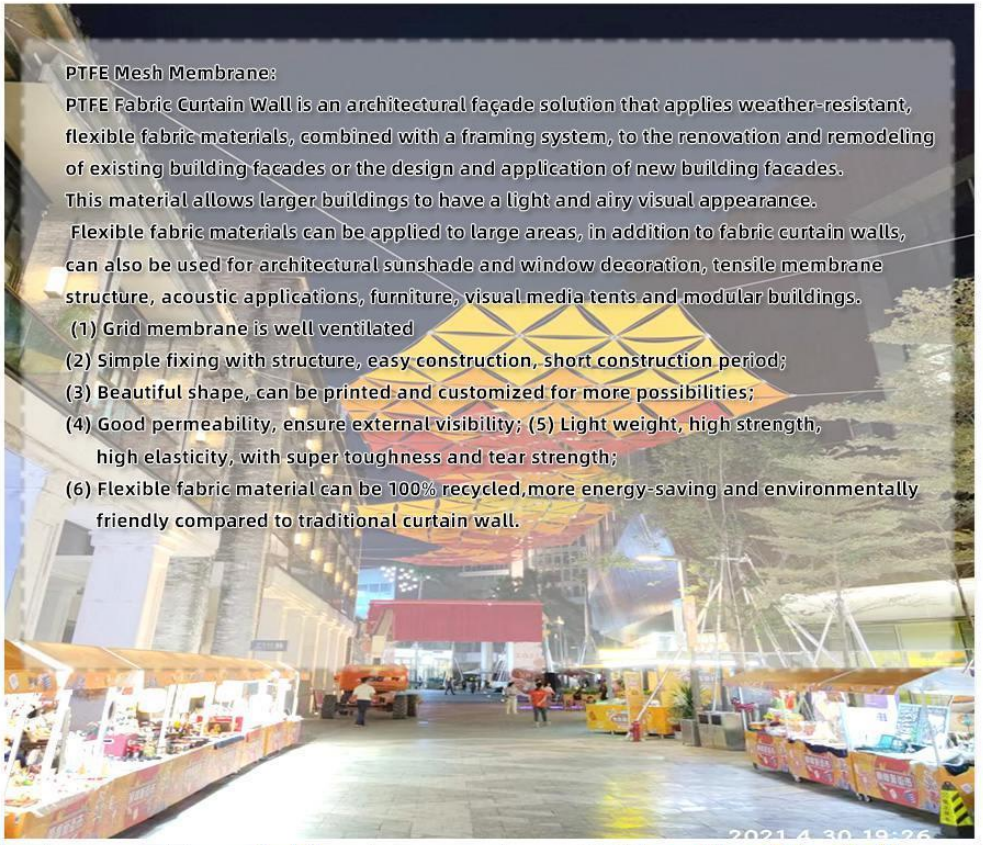
PTFE Mesh Membrane

PTFE Mesh Membrane:

PTFE Fabric Curtain Wall is an architectural façade solution that applies weather-resistant, flexible fabric materials, combined with a framing system, to the renovation and remodeling of existing building facades or the design and application of new building facades. This material allows larger buildings to have a light and airy visual appearance.

Flexible fabric materials can be applied to large areas, in addition to fabric curtain walls, can also be used for architectural sunshade and window decoration, tensile membrane structure, acoustic applications, furniture, visual media tents and modular buildings.

(1) Grid membrane is well ventilated
(2) Simple fixing with structure, easy construction, short construction period;
(3) Beautiful shape, can be printed and customized for more possibilities;
(4) Good permeability, ensure external visibility; (5) Light weight, high strength, high elasticity, with super toughness and tear strength;
(6) Flexible fabric material can be 100% recycled,more energy-saving and environmentally friendly compared to traditional curtain wall.







BoLin®

ADVANCED PRODUCTION WORKSHOP

ADVANCED PRODUCTION WORKSHOP









BoLin®

ADVANCED PRODUCTION EQUIPMENT

ADVANCED PRODUCTION EQUIPMENT



Germany Karl Mayer automatic high-speed warping machine



Dornier Wide Rapier Weaving Machine



Product Slitter



Precision impregnation machine



laser cutter



Laser Ink Printer

BoLin®

SPORTS FACILITY

SPORTS FACILITY

sports stand ▼





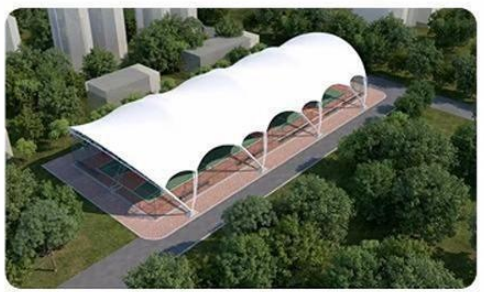




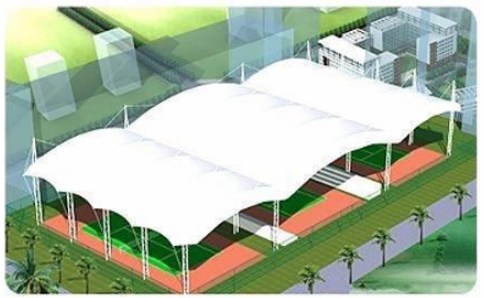


Courts, swimming pools ▼











BoLin®

SPORTS FACILITY

SPORTS FACILITY

sports stand





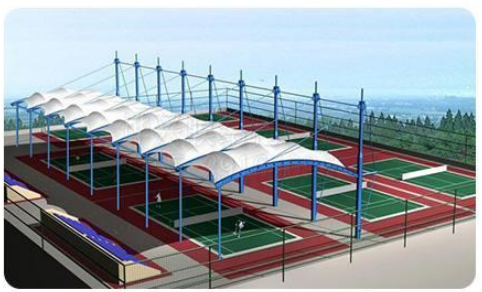






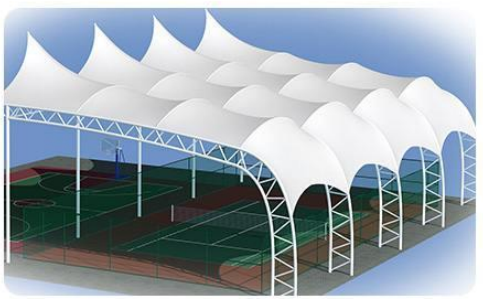
sports ground











COMMERCIAL FACILITY

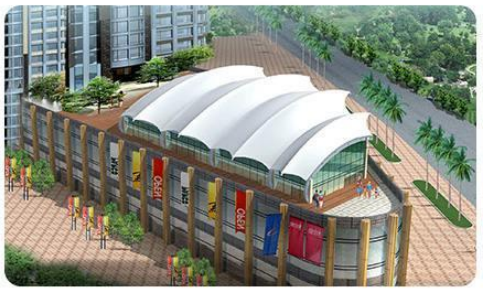
Shopping Center Membrane Structure








Membrane Structure for Commercial Facilities




TRANSPORTATION FACILITIES

Membrane Structure for Transportation Facilities



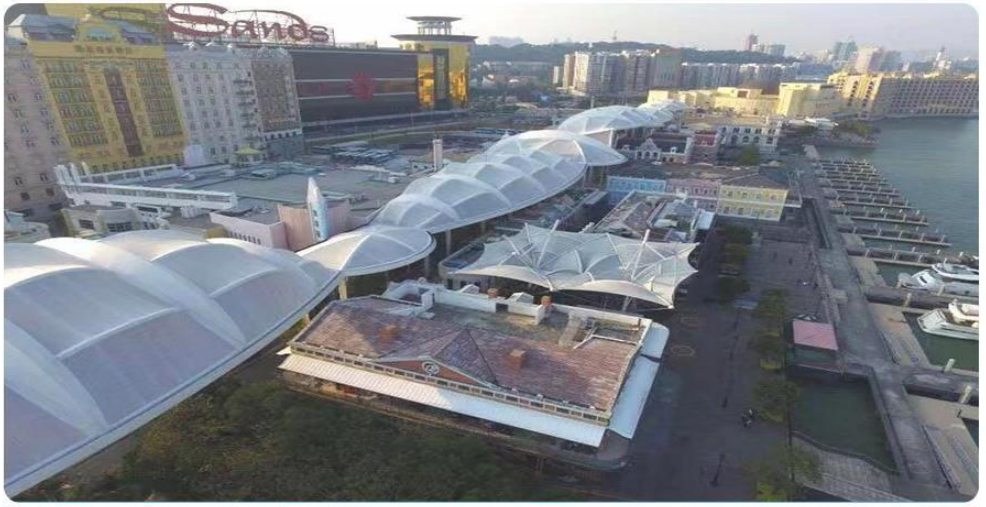








Membrane structures for piers, flyovers, stations











TRANSPORTATION FACILITIES

Gas station membrane structure











Parking lot membrane structure









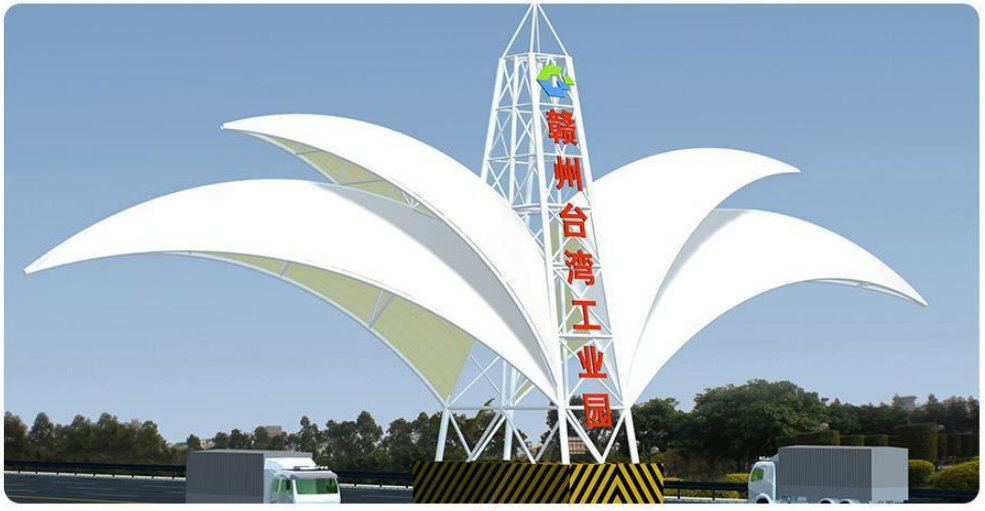


BoLin®

INDUSTRIAL FACILITIES

INDUSTRIAL FACILITIES

Industrial facility membrane structure ▼











Gate entrance membrane structure ▼











LANDSCAPE FACILITIES

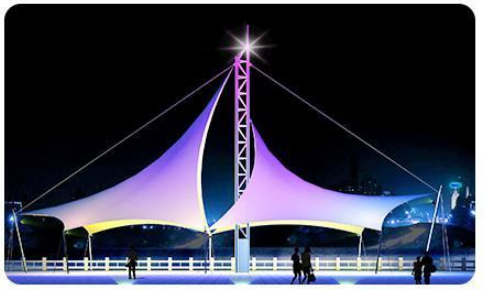
Park leisure landscape membrane structure







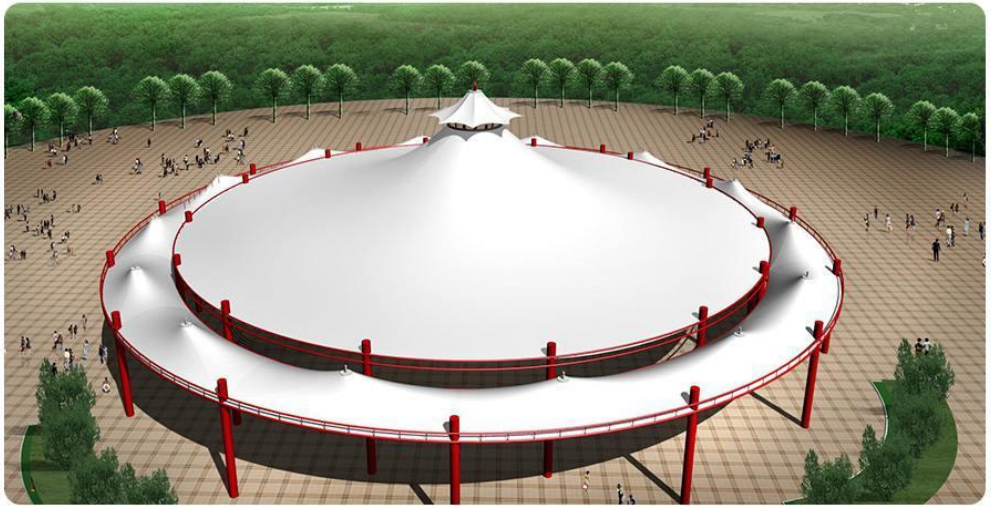
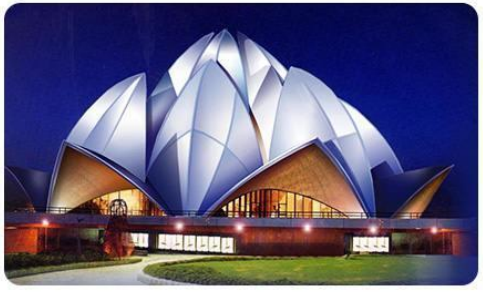
Landscape membrane structure

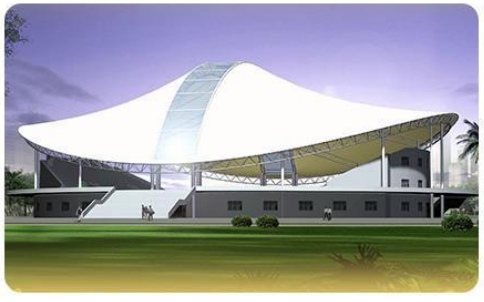






CULTURAL FACILITIES

Convention Center

stage





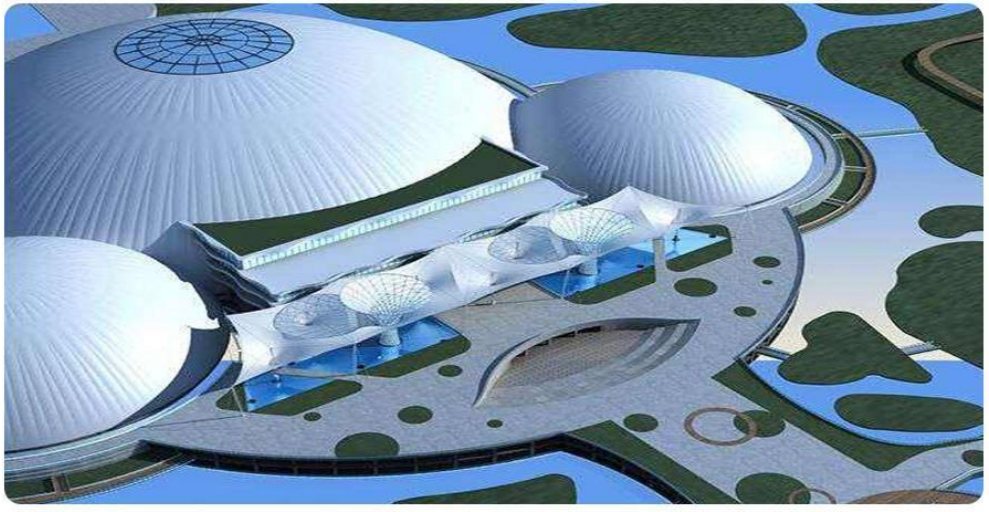


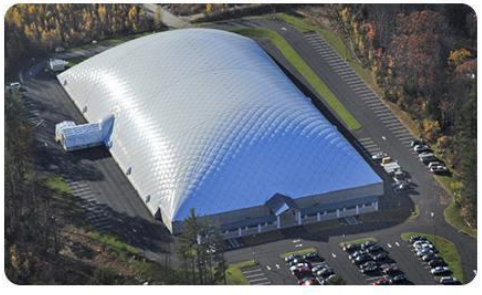
BoLin®

INFLATABLE MEMBRANE FACILITIES

INFLATABLE MEMBRANE FACILITIES

Inflatable membrane facility ▼





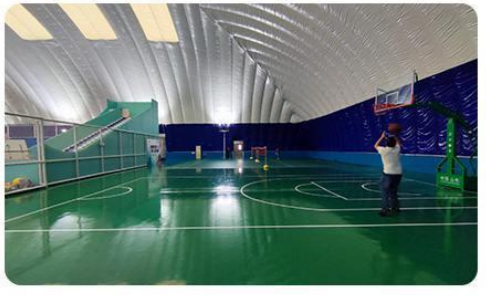






covered court ▼











BoLin®

ETFE MEMBRANE STRUCTURE FIELD

ETFE MEMBRANE STRUCTURE FIELD

ETFE membrane structure field ▼







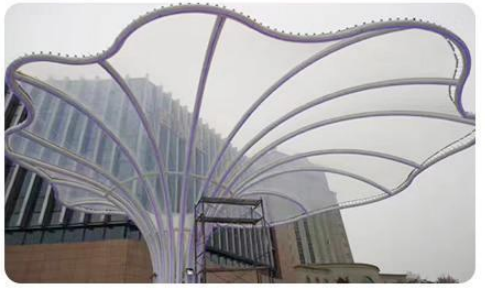


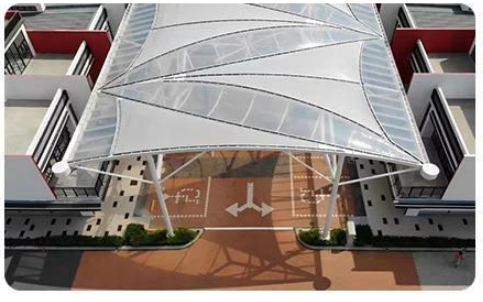


ETFE membrane structure field ▼









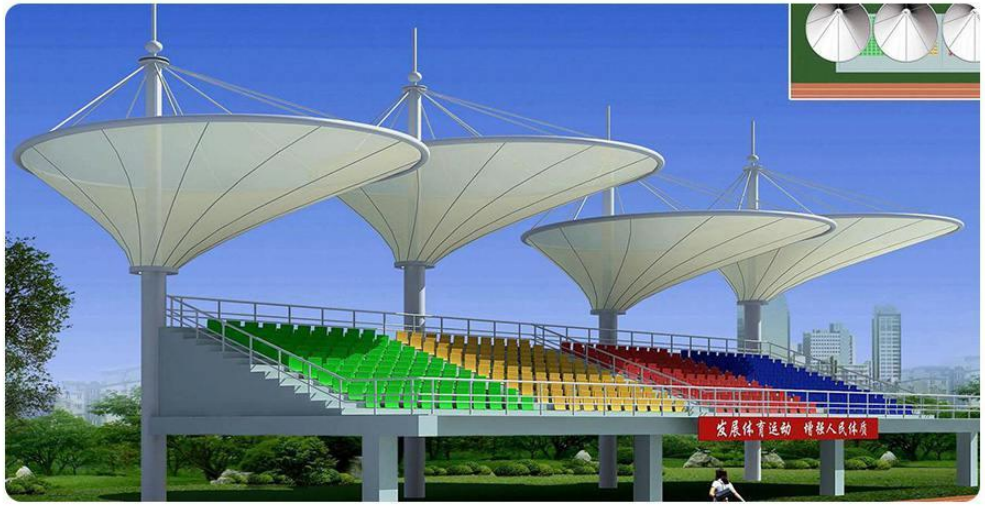


BoLin®

ENGINEERING CASE

ENGINEERING CASE

A case study of membrane structure stand in Shanghai circuit ▼



Beijing Normal University Olympic College Case ▼



Vietnam stage membrane structure case ▼





Guangzhou University Town case ▼





BoLin®

ENGINEERING CASE

ENGINEERING CASE

Guangzhou Naval Academy case ▼

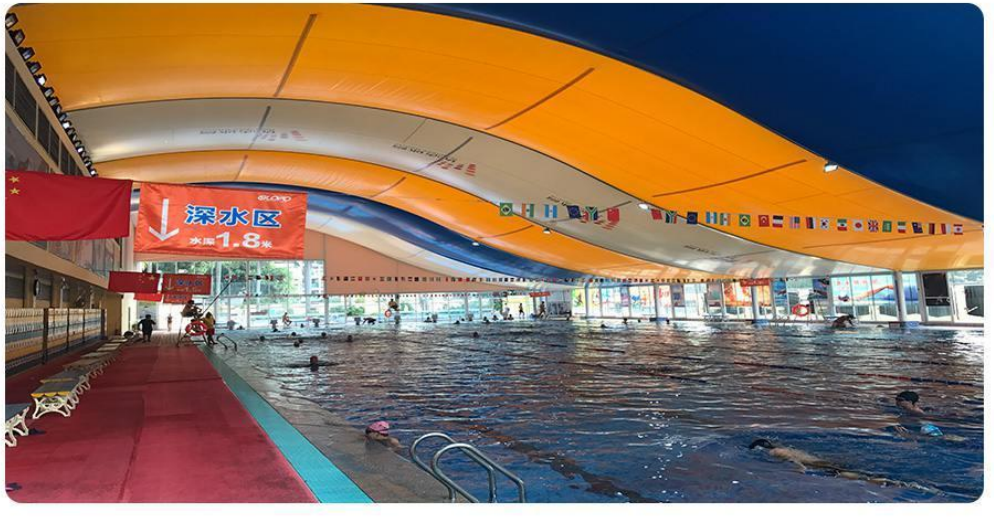


The case of color film of membrane structure landscape in Hainan Province ▼





Guangzhou Paper swimming pool case ▼



Hainan Boao Evergrande International Medical Center Project ▼





BoLin®

ENGINEERING CASE

ENGINEERING CASE

The case of Wanjia Haoting in Liuzhou, Guangxi ▼



The case of Xiangxi basketball court in Hainan ▼



Chongqing OCT Happy Valley ▼





Huanggang primary school stadium case ▼





GUANGZHOU BOLIN TENT CO.,LTD

TEL.
+86 185 7860 7406
+86 189 2247 3112

WEB & Mail
Web:bolintents. com
www.bolinstructure.com
Email:sales1@bolintents.com

Add.
Room 101, Building 1, No. 2, West 1st Lane,Shachong Hougang Industrial Zone,Dalong Street, Panyu District, Guangzhou City, Guangdong Province.