www.yexinggms.com



### Shenzhen Yexing Membrane Structural engineering Co., Ltd

• Talent oriented • Customer first • Outstanding advantages • Integrate resources







### Membrane structure introduction

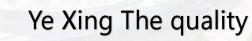
Ye Xing group introduction



04

05

Project performance



Customer testimonials





### What is membrane structure?

Membrane structure, also known as tensioned membrane structure, is the most representative architectural form in the 21st century. It breaks the model of pure linear architectural style, with its unique beautiful curved surface shape, the perfect combination of simplicity, clarity, rigidity and softness, strength and beauty, and at the same time provides architects with greater imagination and creative space.



Where are membrane structures used?

Stadium, industry, business, landscape, transportation, landmark, individual...



How to choose a membrane structure company?

Please see the follow pages for more details.





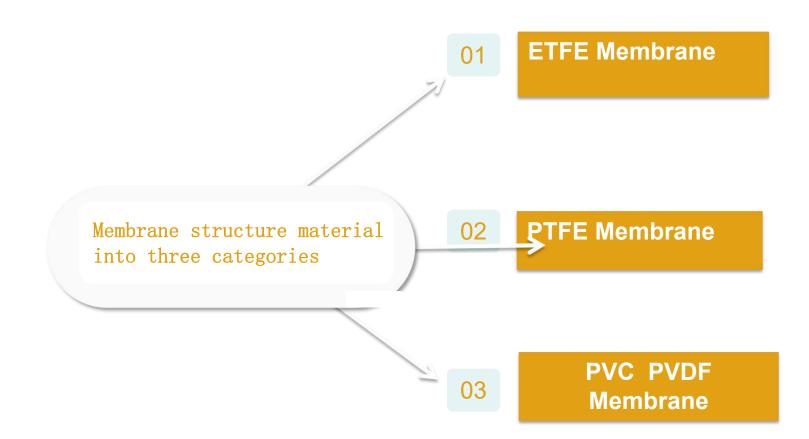
### What is membrane structure?



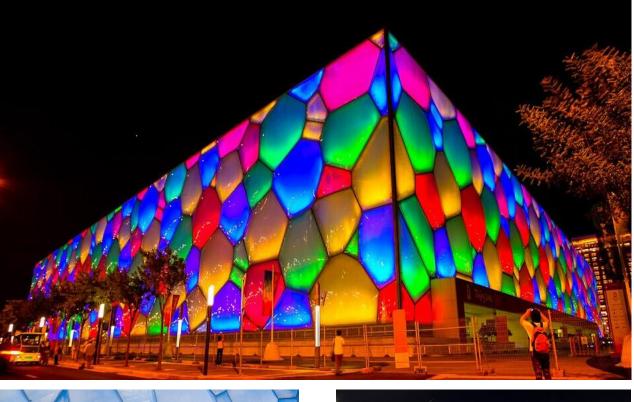
Membrane structure is a structural system that combines architecture and structure. It uses high-strength flexible film materials and auxiliary structures to generate a certain pre-tensioning stress inside and form a certain spatial shape under stress control as a covering structure. or the main body of a building, and has sufficient rigidity to resist the action of external loads of a narrow type of structure.

Membrane structure is a new type of building structure developed in the middle of the 20th century. It breaks the model of pure linear architectural style. It is a refreshing feeling, and at the same time provides architects with a greater space for imagination and creation. Membrane structure has a strong sense of the times and representativeness. It is a multi-disciplinary cross-application project integrating architecture, structural mechanics, fine chemical industry, material science, computer technology, etc. It has high technical content and artistic appeal. It can be changed arbitrarily according to the architect's design needs. Combined with the overall environment, an iconic image project is built, with strong practicability and wide application fields. It can be applied to large-scale public facilities, such as roof systems of stadiums, airport halls, exhibition centers, shopping centers, parking lots, platform facilities, etc. It can also be used in leisure facilities, industrial facilities, etc.

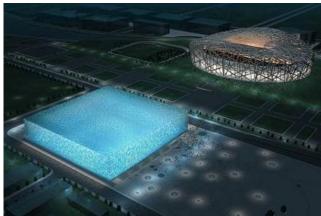


















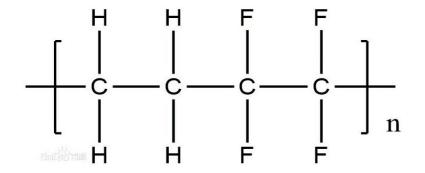
ETFE membrane material

YE XING GROUP

The composition is ethylene-tetrafluoroethylene copolymer, which is a transparent film material without fabric substrate, and its elongation rate can reach  $420\% \sim 440\%$ .

In recent years, the application of ETFE membrane can replace other products in many aspects, showing strong advantages and market prospects. This film material has particularly good light transmittance, so-called "soft glass", good toughness, high tensile strength, not easy to be torn, ductility greater than 400%; strong weather resistance and chemical corrosion resistance, melting temperature up to 200 °C; It can effectively use natural light and save energy. The self-cleaning function makes the surface less prone to contamination, and a small amount of contamination can be taken away by rainwater flushing. In addition, ETFE membranes can be prefabricated into thin-film bubbles on-the-fly for easy construction and maintenance. With the construction of large gymnasiums, tourist venues, waiting halls, etc., ETFE highlights its advantages.





## 华兴集团 YE XING GROUP What is PTFE membrane structure?





Membrane structure of the main stadium of Chongzuo Sports Center

The Chongzuo Sports Center project is a major project constructed by Guangxi Zhuang Autonomous Region to welcome the 14th Guangxi Traditional Minority Sports Games in 2018.

The main stadium with membrane structure is a Grade B sports building, which can accommodate 38,000 people at the same time. The roof membrane structure of the main stadium covers an area of 56,000 square meters, all of which are made of white Dukan PTFE membrane materials imported from Germany. In order to ensure the consistency of the appearance of the stadium after completion, the PTFE materials used this time are all custom-made from the original German factory

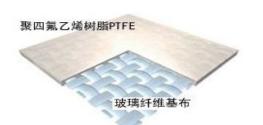


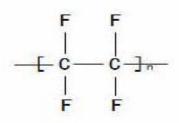
**PTFE membrane** is a material made of ultra-fine glass fiber fabric coated with polytetrafluoroethylene resin. The biggest feature of **PTFE membrane** is its high durability, fire resistance and antifouling; it is not easy to fold, and requires high precision in cutting and production. **PTFE projects** must have special tools and construction techniques. Its characteristics are as follows:

A. Durability: **The PTFE** of the coating material is very stable to chemicals such as acids and alkalis and ultraviolet rays, and is not prone to discoloration or cracking.Glass fiber will not cause strength deterioration or tension reduction after long-term use. The color of the film material is generally white, with high light transmittance and durability of more than 25 years.

B. Antifouling: Because the coating material is **PTFE resin**, the surface friction coefficient is low, so it is not easy to be polluted and can be washed by rainwater.

C. Fire resistance: **PTFE membrane** meets the characteristics of fireproof material test in nearly all countries, and can replace other roofing materials for the same purpose.











### Shanping Qianbei Flower Sea Stage

Shanping AAAA Scenic Spot Oianbei Flower Sea is a 4A ecological garden-style health resort scenic spot built in the southwest. The total development area is about 3,000 mu, and the total area for flowers is 1,500 mu. It is 4.5 kilometers away from Tongzi County, and the traffic is very convenient. Also known as Shanping Flower Sea, it is one of the few four-season flower seas in Guizhou Province and the largest flower sea in Zunyi. Huahai covers an area of more than 1,500 mu. The types of flowers are all those that like sunshine, have a long flowering period, and are heat- and droughttolerant

Cherry blossoms, lavenders, sunflowers, cosmos, lilies, crape myrtle, verbena and other flower species are equipped with ornamental and entertainment items such as forest gardens, crape myrtle love promenade, colorful grass slide playground, etc.

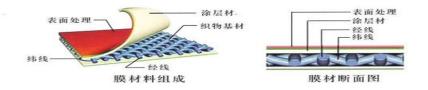


**PVC film material:** PVC film material is made of polyester fiber fabric and PVC coating (polyvinyl chloride). Generally, the film material used in construction is coated with a thickness of several microns on the surface treatment of the PVC coating material. Acrylic for improved stain resistance. Advantages of PVC membrane material: cheap material and processing cost, soft material, easy construction, various shapes.

Disadvantages of PVC film: poor in self-cleaning, strength, durability, fire resistance and other properties.

**PVDF membrane material:** It is a kind of film material with good strength and flexibility. It is made of fibers woven into a fabric base material, and the two sides of the base material are processed and fixed with resin as a coating material. The central fabric base material Divided into polyester fiber and glass fiber, the material coated with PVDF resin on the surface of PVC membrane is called PVDF membrane. Compared with ordinary PVC membranes, PVDF membranes have improved durability to about 7 to 10 years. Mechanically, the fabric substrate and the coating material have functional properties that affect the following, respectively.

Fabric Substrates - Tensile Strength, Tear Strength, Heat Resistance, Durability, Fire Resistance. Coating material - weather resistance, antifouling, processability, water resistance, product resistance, light transmission.





## Membrane structure Application Range























## **Membrane Structure Characteristic**



#### Freer architectural form shaping

The ever-changing support structure and flexible membrane materials make the building more diverse, novel and beautiful, while reflecting the beauty of the structure. With rich colors, it can create a more free architectural form and a richer architectural language.





#### Better economic benefits

The weight of membrane building roofs is only 1/30 of that of conventional steel roofs, which reduces the cost of walls and foundations. At the same time, the unique shape and nightscape effect of membrane architecture have obvious "architectural recognition" and commercial effects, with higher cost-effectiveness ratio. The membrane material has good self-cleaning performance, long maintenance cycle, and convenient cleaning.



#### Shorter construction period

In the construction of membrane building projects, all processing and production can be completed in the factory, and only installation operations are carried out on site. The construction cycle is twice as fast as traditional buildings.









#### Lower energy consumption

The membrane material has high reflectivity and low light absorption, as well as low thermal conductivity, which greatly prevents solar energy from entering the room. In addition, the semi transparency of the membrane material ensures appropriate natural diffuse light entering the room.

#### Larger span building space

Due to its lightweight, membrane buildings can cover a large span of space without the need for internal support, allowing people to design and use building spaces more flexibly and creatively.

#### Higher security

The membrane material is a non self igniting material that does not self ignite. It immediately extinguishes after leaving the ignition source, does not drip, and will not shatter due to self explosion, resulting in higher safety.







# Shenzhen YeXing Membrane Structure Co., Ltd. (hereinafter referred to as YeXing) )

YeXing was founded in 2008, headquartered in Shenzhen, with a registered capital of 50 million RMB and nearly 100 management personnel. YeXing is a professional membrane structure engineering service provider, which integrating design, production, construction and installation. Since the establishment, Yexing has provided professional and sustainable services to nearly one thousand customers all over the world. Our business scope covers many professional fields such as large-scale municipal sports construction, transportation hubs, commercial real estate, etc... And we also maintain a leading position in the various special fields of membrane structure ETFE\ PTFE and PVDF, we also have won a number of awards and honorary titles such as "Honoring Contracts and Keeping Promises".

For more than nineteen years, our company have taken "Building an excellent living space for human beings" as our mission, adhering to the concept of "Because of Concentration, So Professional; Because of Pragmatism, So Efficient; Because of Integrity, So Keeping long-term" concept, adhering spirit of "Quality is the foundation, Art is the pursuit" continuously creating value for customers. Looking forward to the future, we will maintain a responsible attitude towards the society, industry, enterprise, and employees, and keeping unremitting pursuit, innovation, and sustainable development to enhance the global market competitiveness of China's membrane structures, and making the world fall in love with Made in China.



烨兴发展历程

ETFE膜结构项目……

| • 2000  | •2004   | • 2008   | • 2009  |
|---|---|--|---|
| 进入钢构<br>金属屋面<br>幕墙空间建筑行业。   | 组建膜结构施工队,专注<br>膜结构专业设计,技术研<br>发和安装施工。   | 成立烨兴公司,同年承建<br>马来西亚历史博物馆,与<br>高标准国际工程对标。   | 荣获中国膜结构设计和建<br>筑双一级企业资质,<br>同年建造叙利亚大马士革<br>大学体育看台。                                  |
| • 2013  | •2012   | • 2011   | •2010   |
| 设立贵州办事处,同年建<br>造柳州九洲国际停机坪钢<br>结构平台。   | 设立广西办事处,同年建<br>造北海起亚4S店钢结构幕<br>墙项目。   | 成立香港烨兴集团,同年<br>建造六钦高速全线收费站<br>膜结构工程。   | 承建埃及沙姆沙叶赫商业<br>中心屋面工程。  |
| • 2014  | •2015   | • 2016   | •2017   |
| 完成贵阳飞机坝ETFE气枕<br>膜等44个工程项目,提升<br>ETFE设计安装技术水平。  | 承建江西省运会主场馆昌<br>南体育中心膜结构工程<br>等。   | 完成西宁唐道ETFE商业街<br>项目和连云港科普生态园<br>ETFE项目,烨兴膜结构在<br>建筑艺术美学和高难度施<br>工技术取得新的突破。             | 承建港珠澳大桥膜结构3<br>程,同年获得幕墙和装幀<br>二级资质企业,建造云沟<br>六祖禅宗圣域膜结构工<br>程,烨兴的技术实力得到<br>进一步认可与验证。 |
| • 2021  | • 2020  | • 2019   | •2018   |
| 承建亚洲杯足球比赛场地<br>青岛青春足球赛事中心项<br>目、广州铁路枢纽白云站<br>膜结构项目、淮北市气象<br>塔膜结构项目、英吉沙鲁<br>翻达瓦孜非遗演艺中心场<br>馆项目、佳兆业国际乐园<br>海洋馆膜结构项目、华彩<br>海口湾广场膜结构项目、<br>贵州安顺冷库膜结构厂房<br>项目、黄山花山迷窟 | 承建上海浦东足球馆屋面<br>内膜项目、乐山奥体中心<br>膜结构工程、京山国际网<br>球赛事中心膜结构工程、<br>深圳湾口岸配套查验设施<br>完善工程 | 承建东莞市民中心屋面改造ETFE项目、广西省重点项目贵港高铁站ETFE膜结构,烨兴已经成为大型市政工程,体育工程,交通工程,商业工程,景观工程的膜结构行业领先级专业服务商。 | 完成了广西区运会主场馆<br>崇左体育中心膜结构工<br>程,并获得内防漏ETFE肌<br>材密封连接结构等五项建<br>筑设计专利。                 |



## YeXing Processing Factory

182 518 199









烨兴膜结构厂家采用先进的设备,优质的焊接。 保证产品质量,去除工件表面的污物、锈、氧化皮、焊接熔粒、焊接氧化层、及对喷 涂表面的粗化处理,满足产品质量、安全使用及钢构件的要求。

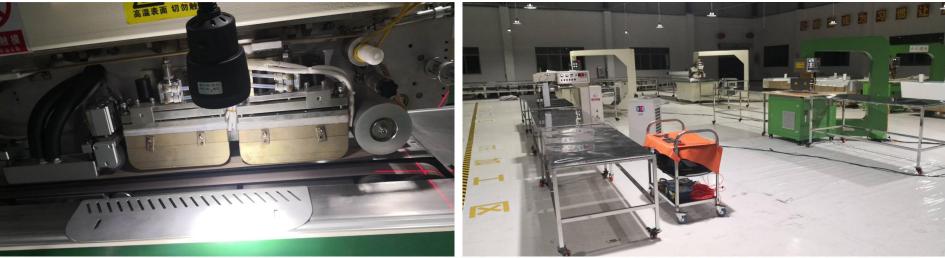
涂表面的粗化处理,满足产品质量、安全使用及钢构件的要求。





烨兴ETFE专项是唯一获得行业巨头德国泰克斯隆技术支持的厂家,拥有自主研发的自动化焊接技术,全球最大的ETFE膜材焊接设备,专业、高效的膜材加工能力是烨兴建设完美工程的重要保障。







烨兴的PTFE膜结构加工工厂拥有全套的自动化膜材检测、裁剪及焊接设备,每一卷膜材在加工使用之前都要经 过严格的检测工序,剔除瑕疵,加上精确的裁剪及优质的焊接技术,能极大地提高膜材的使用寿命。



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烨兴的PTFE膜结构加工工厂拥有全套的自动化膜材检测、裁剪及焊接设备,每一卷膜材在加工使用之前都要经 过严格的检测工序,剔除瑕疵,加上精确的裁剪及优质的焊接技术,能极大地提高膜材的使用寿命。























全国建筑市场监管公共服务平台查询网址: http://jzsc.mohurd.gov.cn 广东省建设行业数据开放平台查询网址: http://data.gdcic.net/dop



























# 烨兴部分专利展示1

TOX ONY 证书号第5576086号 发明专利证书 发 明 名 称; 一种 ETFE 膜材内防漏使用的密封连接结构 发 明 人: 王维强: 赖华娟:张远强: 赖华海 专利号: ZL 2022 1 0629907.9 专利申请日: 2022年06月06日 专利权人:深圳市烨兴膜结构工程有限公司 址: 518000 广东省深圳市竞争区大浪街道同胜社区谭罗新二 村 56 号安宏基大厦 1103、1105 授权公告日; 2022年11月10日 授权公告号; CN 114908879 B 国家知识产权局依照中华人民共和国专利法进行审查、决定投予专利权、领发发明专利 证书并在专利登祝华上予以登记、专利权自投权公告之日起生效、专利权期限为二十年,自 中请日起算。 专利证书记载专利权登记时的法律状况。专利权的转移、质押、无效、终止、恢复和专 利权人的故名成名称、国務、地址交更等事项记载在专利登记簿上。 局长 5 17 申长雨 第1至(男2) 兰他事项表见经百 a torner and the 证书号第12864684号 实用新型专利证书 实用新型名称:一种 ETFE 膜结构铝型材焊接节点防漏水装置 发 明 人:王维强:赖华娟 专利号: 21. 2020 2 0705546.8 专利申请日: 2020年04月30日 专利权人: 深圳市烨兴膜结构工程有限公司 址: 518109 广东省深圳市龙华区大浪街道同胜社区谭罗新二 地 村 56 号安宏基大厦 1103、1100 授权公告日: 2021年04月06日 授权公告号: CN 212889291 国家知识卢权局依照中华人民美和国专利法担注初步审查。决定校予专利权、颁发实用 新型专利证书并虚专利登记簿上予以登记。专利权自校权公告之日起生处。专利权期限为十 年,自申请日起算。 1.1 11-10-10-10-10 专利征书记载专利权登记封的法律权况。专利权的转移、度押、无效、终止、恢复和专 利权人的姓名成名称、国籍、地址交更等事项记载在专利登记簿上。 局长 由长雨 第1页(共2页)

其他事项参见结页





其他事项参见续页



# 烨兴部分专利展示2





# 烨兴部分专利展示3

















# **Yexing Vision**



Endow architecture with technology and beauty To be the most competitive membrane structure building brand in the world

NZNZNZNZNZNZNZNZNZN



# Yexing Mission



Building a good living space for human beings



# Yexing's philosophy of serving customers





**Because of Efficient, So Pragmatism** 





# Yexing Slogan



Yexing made intelligently, only for extraordinary architectural dreams











#### Lianyungang Science Exhibition Center ETFE Air Pillow Film Venue





#### Lianyungang Science Exhibition Center ETFE Air Pillow Film Venue

Lianyungang Science Exhibition Hall is the first large-scale ecological greenhouse project built with ETFE three-layer air pillow film system in China. It is the "Eden" of the East. The first phase of the membrane structure covers an area of 15,416 square meters. The main body adopts a large-scale pipe truss structure. The maximum span of a single greenhouse is 78 meters and the height is 29 meters. All imported ETFE membrane materials are used.









### Qingdao Asian Cup Football Stadium

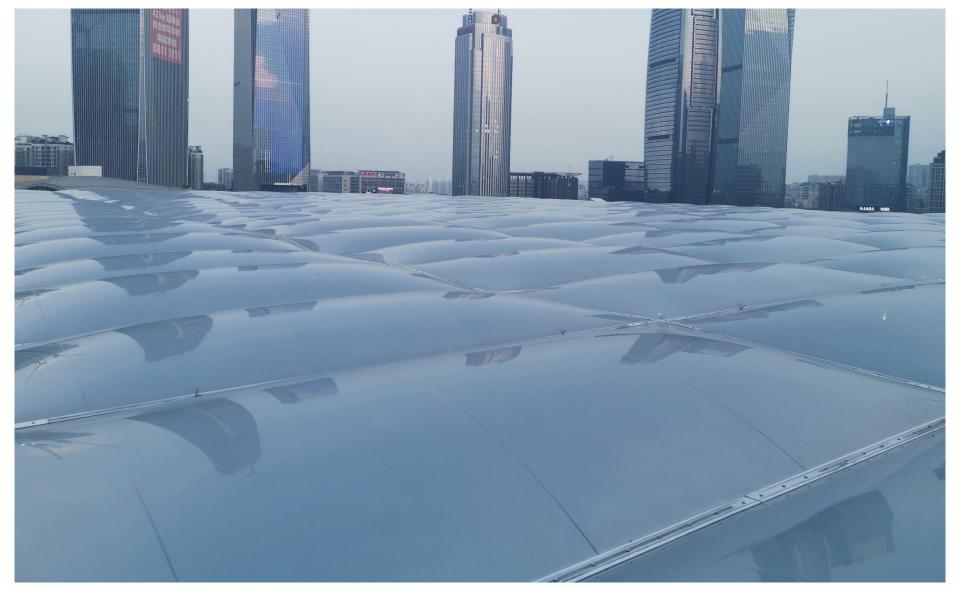








## Dongguan Citizen Service Center ETFE Air Pillow



# **烨兴集团** Dongguan Citizen Service Center ETFE Air Pillow

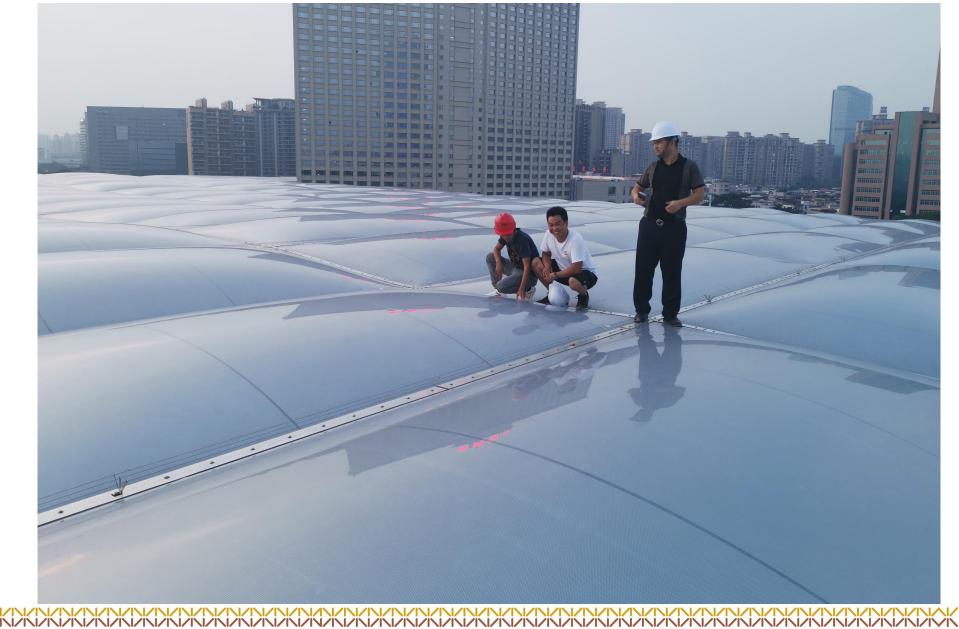


The Dongguan Citizen Service Center has set up 270 service windows. Citizens do not need to run long to do things here, and truly realize "entering one door and doing everything". Dongguan Citizen Service Center is upgraded and renovated on the basis of the original Dongguan International Convention and Exhibition Center. It is located between the administrative center area and the core business district. It is designed with underground passages and Dongguan Metro No. 2.

It is connected to Hongfu Road Station on the Line, and the traffic extends in all directions. There is also a large underground parking lot, which will greatly facilitate Dongguan citizens to choose different means of transportation to handle various matters. The roof of the Citizen Service Center is equipped with three layers of ETFE inflatable membranes to increase the lighting of the building.



### Dongguan Citizen Service Center ETFE Air Pillow Film







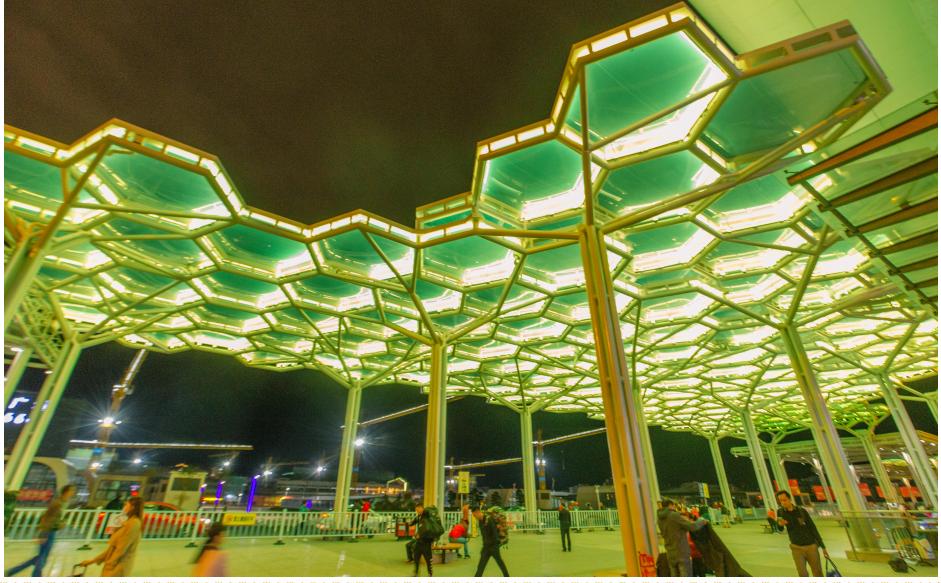
Guigang High Speed Rail Station ETFE Memb Structure

The first "Water Cube" in Guangxi -ETFE membrane structure canopy in the square in front of the Guigang high-speed railway station, all made of steel structure combined with new material ETFE membrane material, composed of regular hexagonal transparent bubbles of equal shape and size, shaped like multiple "water cubes" . Under the circumstance of ensuring sufficient light and good air circulation, the history of passengers entering and leaving the high-speed rail station being exposed to the wind and the sun will be ended, and the journey will become more comfortable. The project fills the gap in Guangxi in the application of ETFE membrane structure building technology and becomes a landmark building in Guigang.





Night view of ETFE membrane structure in the square in front of Guigang high-speed railway station





Details of ETFE membrane structure in front of Guigang High Speed Rail Station Square



2019.06.12 09:36



### Xining Tangdao Jinzuo Commercial Center ETFE Project



# **烨兴集团** Xining Tangdao Jinzuo Commercial Center ETFE Project

For the ETFE membrane structure project of Xining Tangdao Jinzuo Real Estate, the main steel structure adopts a square thick tube steel frame, and then the ETFE membrane structure roof of nearly 16,000 square meters of Tyson polygons is divided into 566 colorless and transparent air pillow films. The biggest feature of this ETFE air pillow film structure is that it is clean and transparent during the day, which can not only provide a lot of lighting, but also keep heat and heat insulation; at night, the solid color film bubble can perfectly render the color released by the LED

lights, which is gorgeous and extraordinary.





### Xining Tangdao Jinzuo Commercial Center ETFE Project

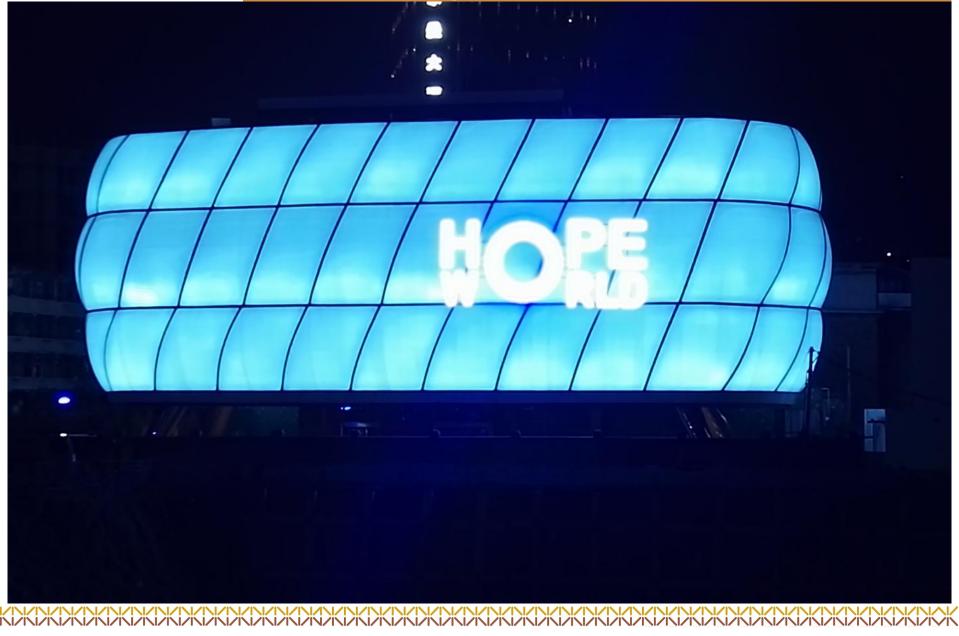








# Guiyang Feijiba~ Eye of the World ETFE Membrane Structure Building







### Hangzhou Hubin Yintai Plaza ETFE Sky Curtain

The newly added ETFE ceiling reflects the cultural characteristics of the West Lake by the West Lake, where the millennium culture has accumulated. It is necessary to combine the single-layer ETEF organically, and the construction difficulty is doubled. In order to make this project more perfect, in the construction plan, we rereinforced the basic support structure of the site: in terms of materials, the membrane material will be the ETFE pattern plated membrane material imported from Germany, and the aviationgrade aluminum profile will be combined fixing material, The main steel structure is all



## Hangzhou Hubin Yintai Plaza ETFE Sky Curtain



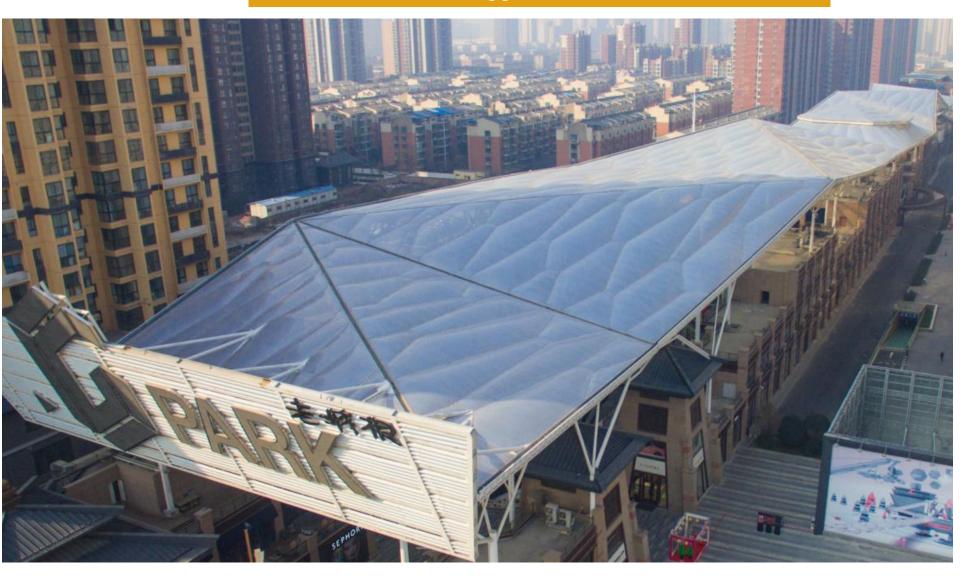


## Hangzhou Hubin Yintai Plaza ETFE Roof





### Xi'an Laochenggen Commercial Street





### The Interior Effect of Xi'an Laochenggen Commercial Street



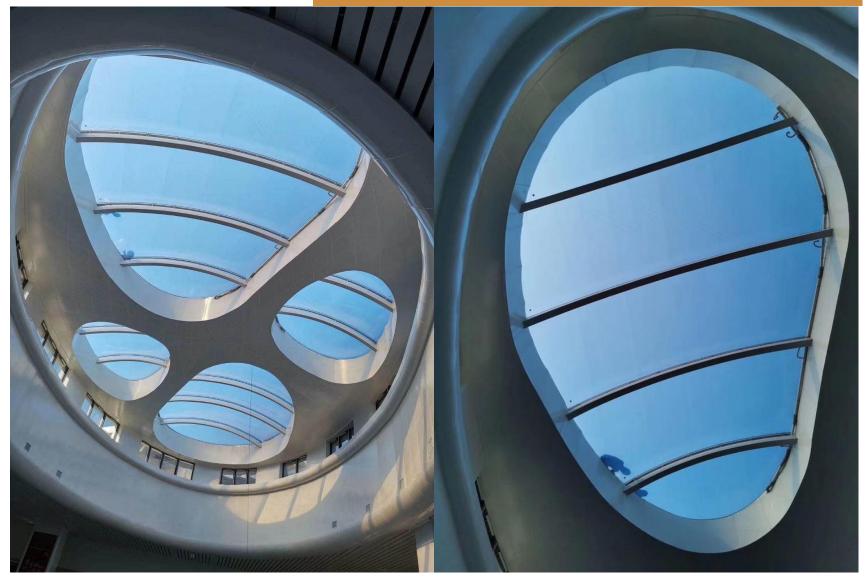


### The Partial Effect of Xi'an Laochenggen Commercial Street





ETFE Project Indoor Case of Weifang Highspeed Railway Station

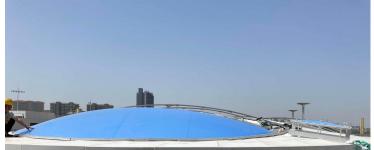




### Weifang High-speed Railway Station ETFE Project Construction Process













### Anhui Huashan Mystery Cave Bubble House





## Guangzhou Tianhuan Plaza ETFE Roof





#### **Guangzhou Tianhuan Plaza ETFE Roof**





## Shenzhen Yantian Double Fish Pavilion ETFE Project





#### **Shenzhen Yantian Double Fish Pavilion ETFE Project**





#### Haikou π. Restaurant&Live House Project " Rendering





#### Haikou π. Restaurant&Live House Project " Rendering



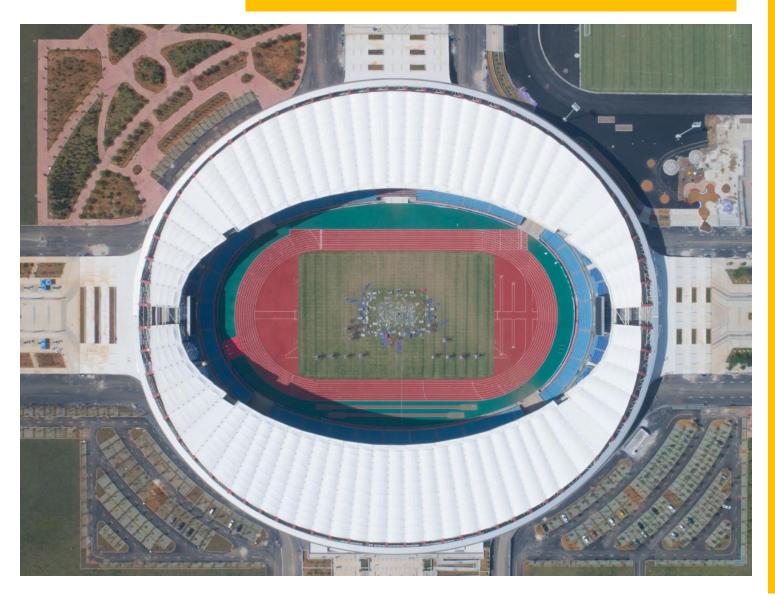


182 210 199

## Stadium-type stadium



#### Membrane structure of the main stadium of Chongzuo Sports Center



structure is a Grade B Standard track, standard stadium covers an area of materials used this time white and beautiful for a



#### **Chongzuo Sports Center Sports Meeting Scene**





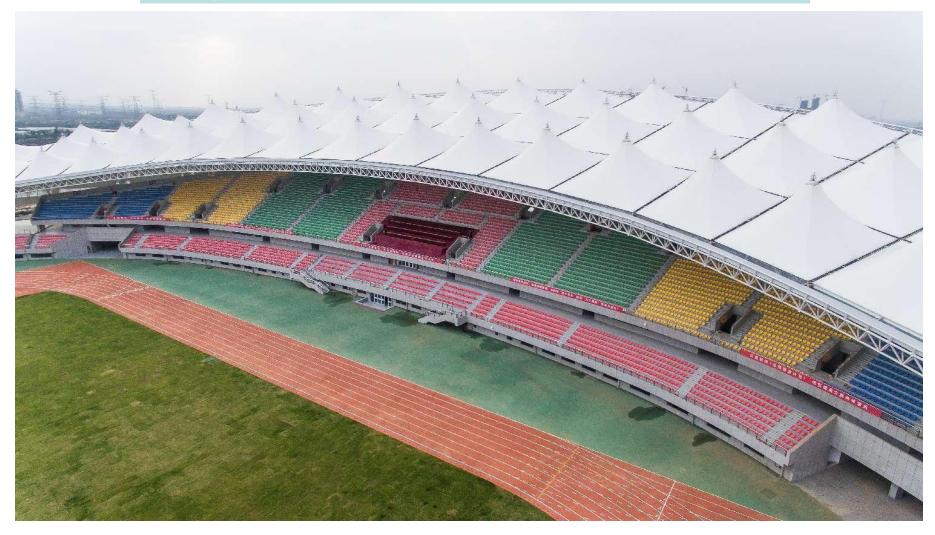
#### Changnan Sport Center



about 400 acres. It swimming pool (can total construction area of the frame is 1,700 tons. membrane with an area of 180 davs. for the whole people.

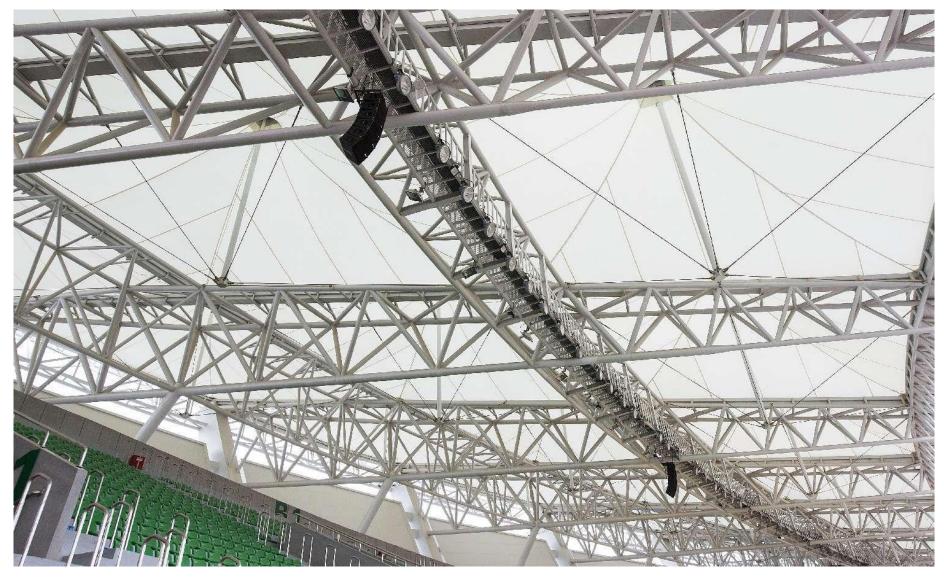


#### **Changnan Sport enter**



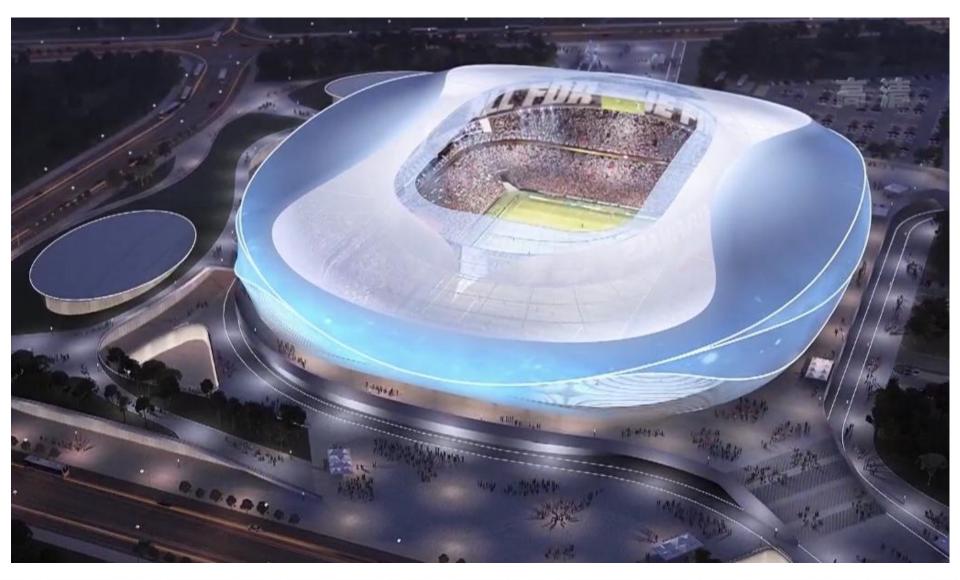


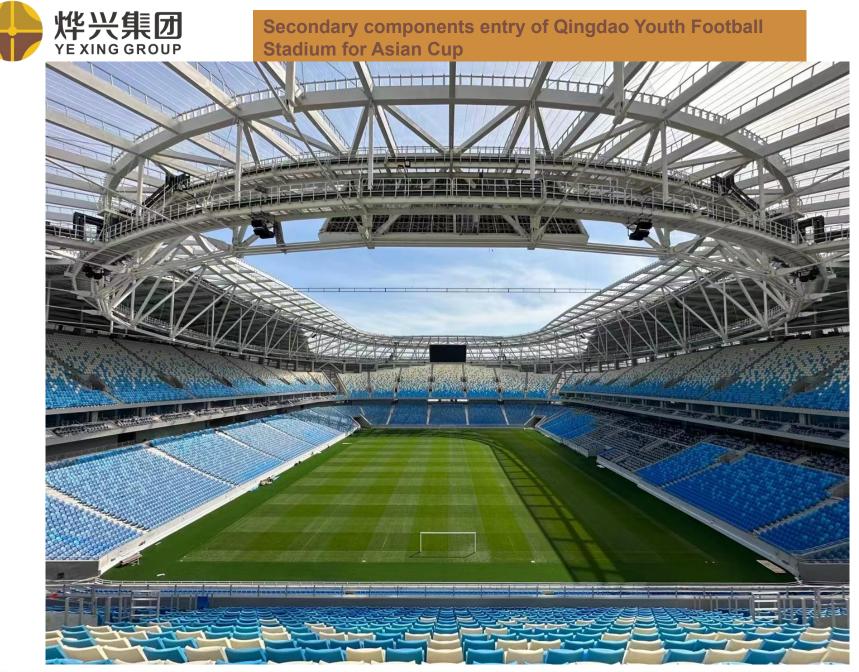
#### Changnan Sport Center





#### Qingdao Asian Cup Football Stadium









#### Yunfu Lotus Membrane Structure Stage Theater

Yunfu Lotus PTFE Membrane Structure Stage Theater is the core project of the "Zen Domain Town", a 5A-level scenic spot in Xinxing County, Guangdong Province. In order to express the legendary life of the sixth patriarch, Huineng, enlightenment and propaganda, the stage is designed as a giant white lotus platform with petals., the dome, the inner surface, etc. are all made of membrane structure materials. The lotus platform can be rotated 360 degrees freely, and the petals can be freely controlled to open and close. The total membrane structure project of the whole project is 15,280 square meters. It is the first domestic performance stage and auditorium to be perfectly integrated Large-scale membrane structure real stage.



#### Yunfu Lotus Membrane Structure Stage Theater





#### Shanghai Pudong Football Stadium



#### Shanghai Pudong Football Stadium

Positioned as a professional football field that can meet the requirements of FIFA international A-level matches. The fixed seating capacity of the stadium is 33765, of which the total seating capacity of the first floor stands (including private outdoor stands) is 19229.

Pudong Football Stadium is used as the main venue for Shanghai Shanggang (SIPGFC)

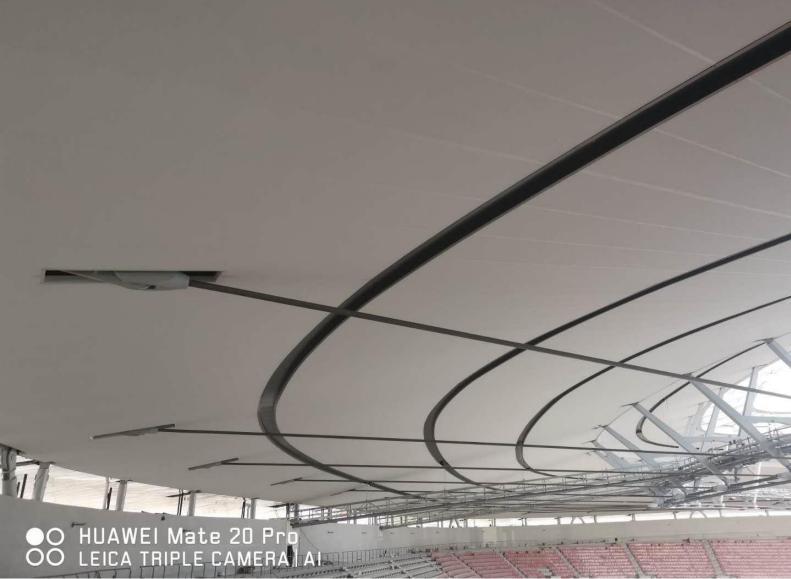


# Shanghai Pudong Football Stadium under construction



created a number Football field with 1 main and 2 as a safe area to

1





- Steel structural members have large spans and high installation accuracy requirements
- Adopt flexible suspension cable structure system
- The height difference between the high point and the low point of the large roof
- ➢ Belongs to a new structural system
- $\succ$  The construction process is complicated

## Leshan Olympics Center Leshan Olympics Center stadium





#### Leshan Olypics center Stadium





Leshan Olypics center Stadium





#### Xiamen new stadium project is under construction





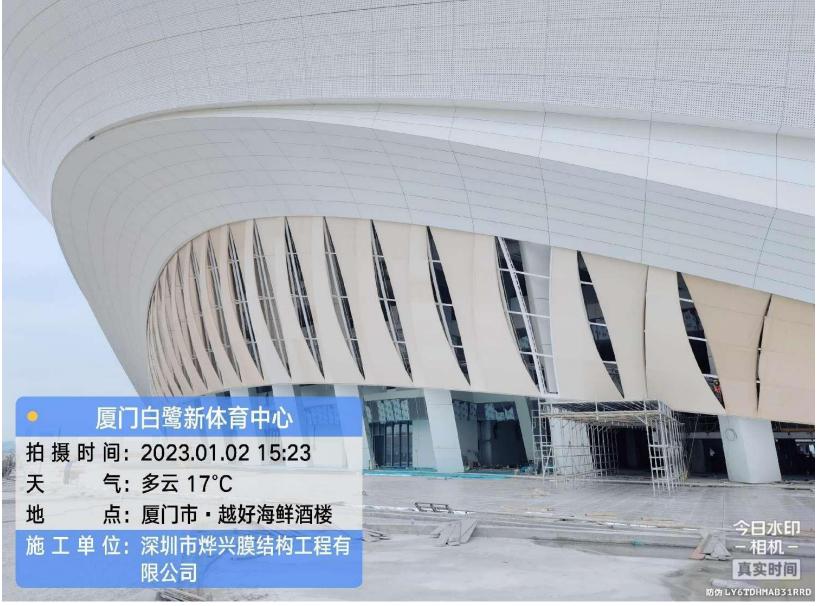
#### Xiamen Xiangan Stadium



今日水印



#### Xiamen xiangan staduim





#### Xinjiang dawazi performance center





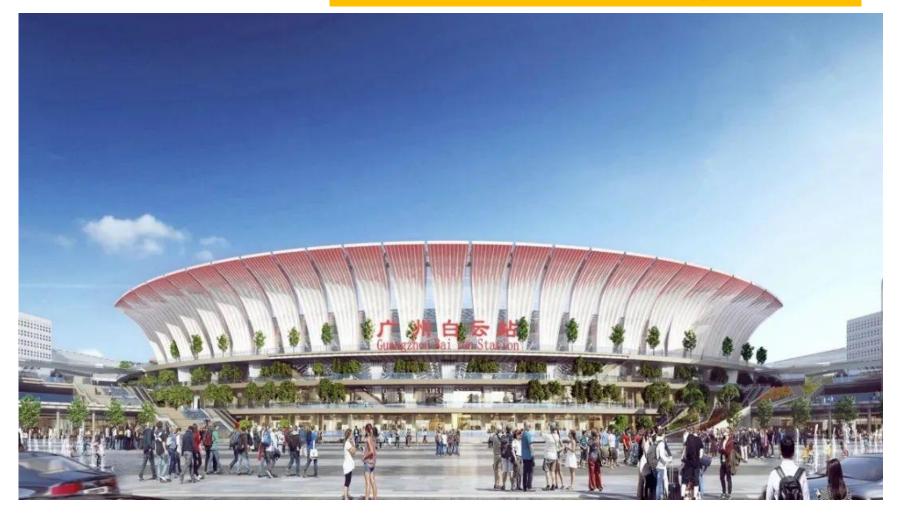
#### Xinjiang dawazi performance center





## 1. Brief Review

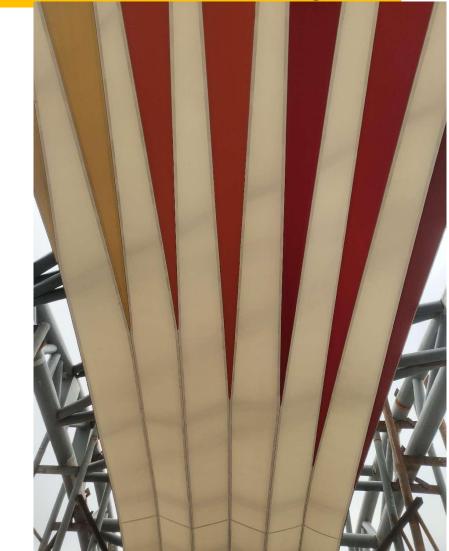
Guangzhou Baiyun High Speed Railway Station Membrane Structure Project





## 1. Brief Review

Guangzhou Baiyun High Speed Railway Station Membrane Structure Project





#### **Hubei Jingshan International Tennis Center**





#### Hubei Jingshan International Tennis Center









#### Huaibei Tower Membrane Structure Curtain Wall Project Steel Structure Construction





Huaibei Tower Membrane Structure Curtain Wall Project Steel Structure Construction



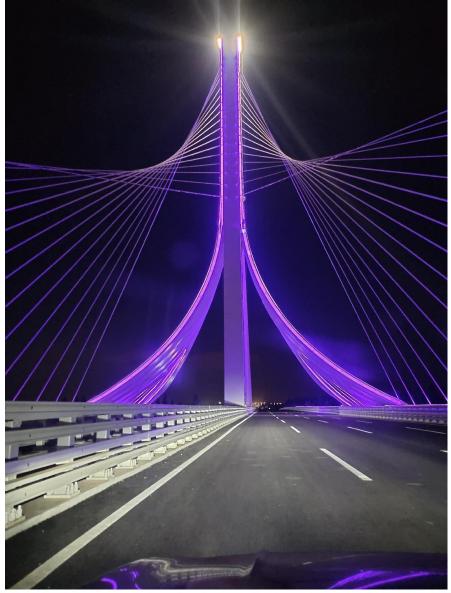


### Langfang Linkongte Bridge





#### Langfang Linkongte Bridge







Double Hall Project of the Sanya Yasha Sports Meeting is under construction

NZINIZINIZINIZINIZI











#### Guizhou Tourism Development Conference Main Venue



Shanping AAAA Scenic Spot Qianbei Flower Sea is a 4A ecological garden-style health resort scenic spot built in the southwest. The total development area is about 3,000 mu, and the total area for flowers is 1,500 mu.

It is 4.5 kilometers away from Tongzi County, and the traffic is very convenient. Also known as Shanping Flower Sea, it is one of the few four-season flower seas in Guizhou Province and the largest flower sea in Zunyi. Huahai covers an area of more than 1,500 mu. The types of flowers are all varieties that like sunshine, long flowering period, heat and drought tolerance, mainly plant azalea, four-season cherry, lavender, sunflower, cosmos, lily, crape myrtle, verbena and other flower species. It is equipped with ornamental and entertainment items such as the Underwood Garden, the Crape Myrtle Love Corridor, and the Colorful Grass Skating Playground.

The project covers an area of 2,800 square meters, all of which are made of PTFE membrane materials imported from Germany with a quality guarantee of 20 years, and the design life of the steel structure is 50 years.



## Guizhou Tourism Development Conference Main Venue







### Brunei Royal Garden

The PTFE membrane structure project of Brunei Royal Crystal Park is one of the many overseas projects of Yexing Group, covering an area of 13,500 square meters.







# Guiyang Cigarette Factory Parking Lot

The PTFE membrane structure carport of Guiyang Cigarette Factory is currently the largest PTFE glass fiber membrane structure carport in the world, with an area of 15,500 square meters, which can park nearly 1,000 cars at the same time. The project uses imported PTFE permanent membrane material, with a 20-year warranty and a 50-year steel structure design life.

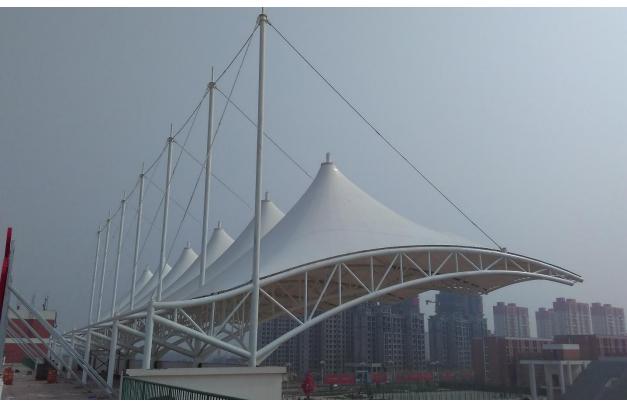


Aerial photography effect of the study room on Mount Tai's Jiunvfeng Peak











Project Name:

Hejian Middle School Stadium Membrane Structure

Project Location: Hejian City, Hebei

Construction Area: 3700 Square meters Membrane Material: PVDF imported from Germany

Completion Time: 2013

Warranty period:15 years



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# **Projects Under Construction**

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# Asian Cup Qingdao Youth Football Stadium ETFE Roof





# Construction of Qingdao Youth Football Stadium for Asian Cup



# **Construction of Qingdao Youth Football Stadium for Asian**





# Yongding River Bridge Project in Airport Area



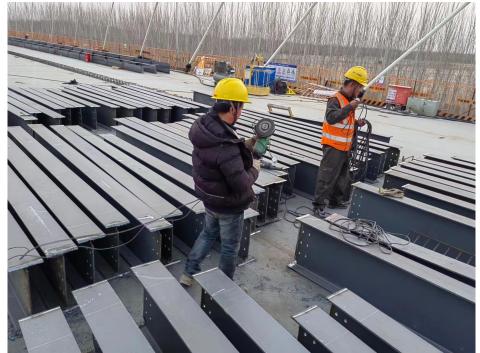


# Yongding River Bridge Project in Airport Area



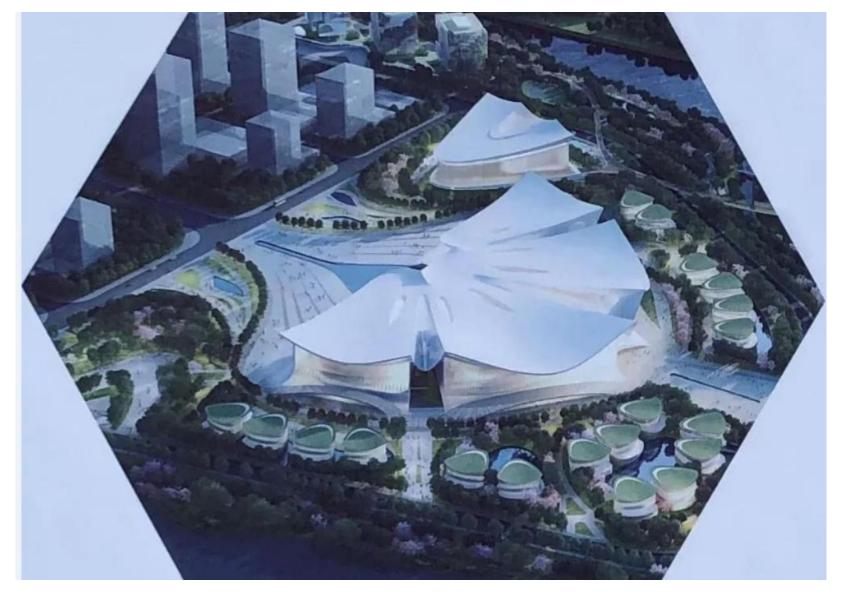








## Permanent venue of the International Financial Forum (IFF)



# **烨兴集团** Permanent venue of the International Financial Forum (IFF)





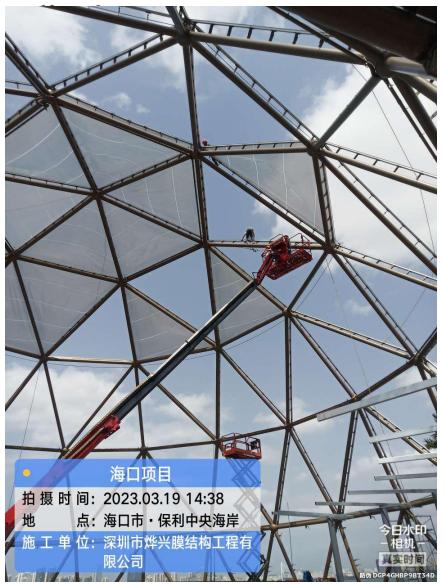
# Haikou π. Restaurant&Live House Project " Rendering





Haikou π. Restaurant&Live House Project under contruction







### Xinyang Nanwan Lake Tea Expo Venue





### Xinyang Nanwan Lake Tea Expo Venue





Xinyang Nanwan Lake Tea Expo Venue





## **Guangzhou Baiyun Station Construction**



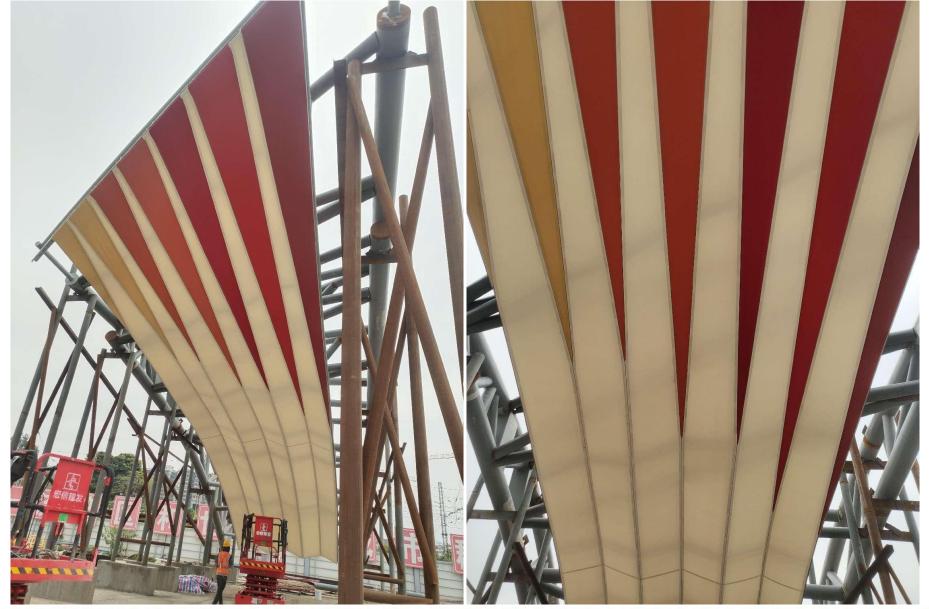


# The steel structure of Guangzhou Baiyun Station is being assembled





# The membrane materials of Guangzhou Baiyun Station is bein assembled





Jiangxi Ji'an Sports Membrane Structure Stand Steel Structure Construction





# 2. 重点

### Projects under construction in 2023

- ◆ Guangzhou Nansha International Financial Center Project
- ◆ Nanjing Wanhui City PTFE and ETFE Commercial Complex
- ◆ Haikou π. Restaurant&Live House Project
- ◆ Guangzhou Baiyun railway station Project
- ◆ Roof of Algerian Capital Bus Station
- ◆ Sanya Yasha Games, Gymnasium and Natatorium
- ◆ Xinyang Nanwan Lake Loufanyi Station Membrane Structure Project

Nanjing Oriental Wanhui City Project
 Shenzhen Bay Science and Technology Competition School
 Philippine Stage
 Xiaomeisha Beach Park



部分客户 SOME CUSTOMERS























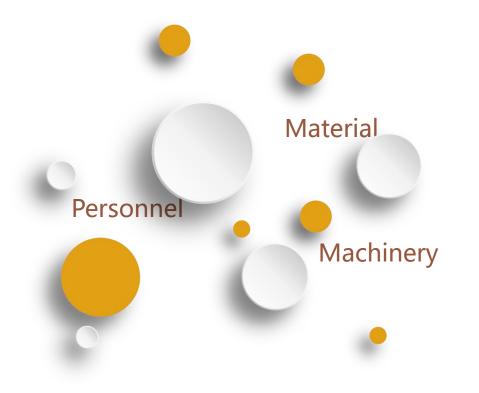


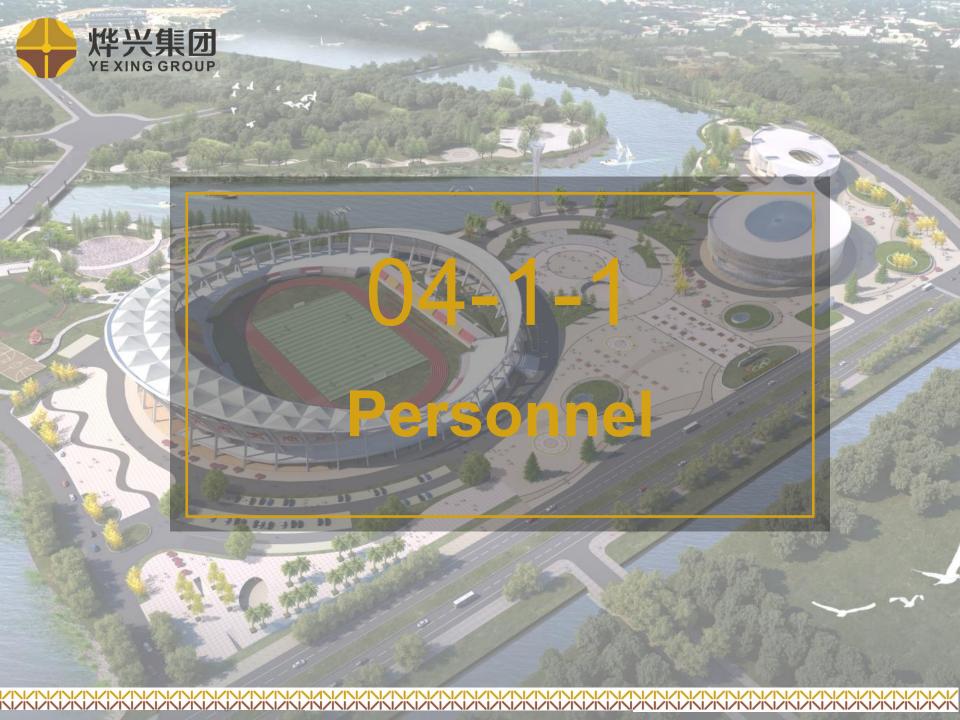




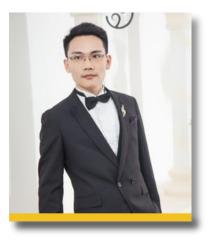


# **Project Implementation Control**









#### **Design Director**

#### Weigang Wang

Engaged in the design of membrane structures and steel structures for 13 years and has design experience in more than 500 large and small membrane structure projects. Participated in the design of Changnan PTFE membrane structure gymnasium, Lianyungang Qiangwei Lake ETEF membrane structure tropical botanical garden, Guangxi Chongzuo PTFE membrane structure sports center and other large-scale projects.





### Membrane structure senior designer Membrane structure senior design

#### Huahai lai

Engaged in membrane structure and dry structure design for 12 years, and has strong commercial application design of ETFE membrane structure. Representative works include Guangzhou Hongcheng Plaza ETFE Membrane Structure Project, Aircraft Dam ETFE Membrane Structure Sales Center, Xining Jinzuo Real Estate ETFE Membrane Structure Commercial Hollow, Xi'an Old Town ETFE Membrane Structure Commercial Corridor, etc.

#### Baoshan Liu

Engaged in membrane structure design for 10 years He has a unique understanding of the design of membrane structure modeling. He has created hundreds of classic shapes that are highly appreciated by customers and are deeply loved by customers. The more classic modeling cases include the membrane structure project of the Hong Kong-Zhuhai-Macao Bridge Zhuhai Port Passenger Inspection Area A, the membrane structure of Zhuhai Jinshan Park, and the series of membrane structures of Guiyang Future Ark Commercial Street.





### **Vice President of Engineering**

Chao Tian

ngaged in project management for 13 years, mainly engaged in curtain wall structure

Participated in the management and construction of large-scale complex projects such as Chengdu Zhujiang New Town International, Chengdu Baiyue Hilton, Wuxi Magnolia Garden, Chengdu World Financial Center, Guiyang International Trade Center (Twin Towers), Dolphin Plaza, Shanghai Center,



### **Chief technical engineer**

Xiufeng Zhang

Graduated from Industrial and Civil Construction, steel structure engineer, first-class registered construction engineer He has rich experience in the management of large-scale steel structure projects, and has participated in the management of large-scale steel structure projects such as Taiyuan Heavy Industry and Taiyuan Iron and Steel Structure Plant.



### **Supply Chain Management**

#### lin Zhang

Engaged in the supply of steel membrane structure raw materials for 6 years, with a large number of high-quality and stable supply channels at home and abroad.

Participated in the material supply of many large-scale projects such as Chongzuo Stadium PTFE membrane structure project and Dongguan Civic Center roof assembly system ETFE membrane structure project.





### **Director of Human Resources**

#### Youfa Peng

16 years of experience in human resources management in large stateowned enterprises and private enterprises, familiar with the six major modules of human resources management, combined with internal and external conditions of the enterprise, committed to the construction of front-end sales and project operation delivery service systems.



### **Finance Manager**

Hongxia Liu

Engaged in financial work for more than 20 years, intermediate accountant, and head of the financial department for nearly 10 years, with experience in financial management and cost control in various industries. Organized and completed the launch of the company's Kingdee ERP, standardized the company's financial processes and systems, and made the company's accounting clear and accurate. Provide data support and effective suggestions for the company's business decisions.



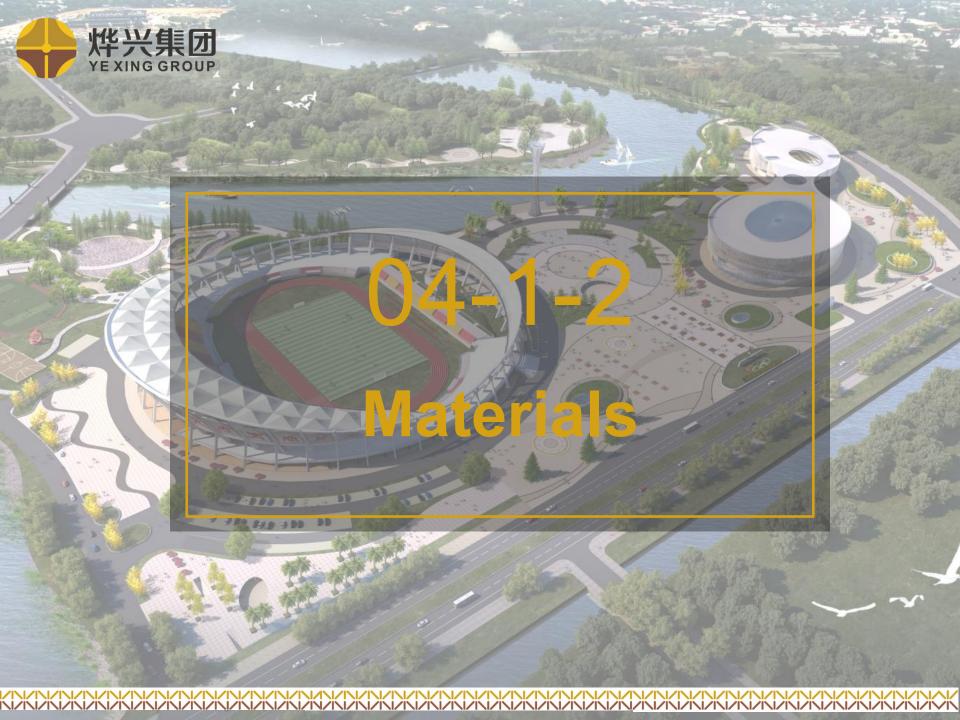


### **Finance Manager**

Yuejun Dong

Engaged in membrane structure processing and construction for 20 years

With processing experience of more than 700 large and small membrane structure projects, he has participated in Changnan PTFE membrane structure gymnasium, Lianyungang Qiangwei Lake ETEF membrane structure tropical botanical garden, Guangxi Chongzuo **PTFE membrane structure sports** center, Dongguan civic service center **ETFE roof, Guigang high-speed** railway station ETFE rain Processing work for large-scale projects such as sheds.











#### **Re-check, Inspection**







# Steel Material Report

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A-197.A:<br/>Control (L2)20-2008-2001-4-97.A-197.A:<br/>Control (L2)2002-2008-2001-4-97.A:<br/>Control (L2)2002-2008-2001-4-97.A:<br/>Control (L2)2002-2008-2001-4-97.A:<br/>Control (L2)2002-2008-2001-4-97.A:<br/>Control (L2)2002-2008-2001-4-97.A:<br/>Control (L2)2002-2008-2007.C:<br/>Control (L2)2002-2008-2007.C:<br/>Control (L2)2002-2008-2007.C:<br/>Control (L2)2002-2008-2007.C:<br/>Control (L2)2002-2008-2007.C:<br/>Control (L2)2002-2008-2007.C:<br/>Control (L2)2002-2008-2007.C:<br/>Control (L2)2002-2008-2007.C:<br/>Control (L2)2002-2008-2007.C:<br/>Control (L2)2002-2007.C:<br/>Control (L2)2002-2007.C</td><td>Control of the second s</td><td>Control (12) 20-2008-0001-セデビ、ヘデド、ヘド<br/>Control (12) 20-2008-0001-セデビ、ヘデビ、<br/>Control (12) 20-2008-0001-セデビ、ヘデビ・<br/>Control (12) 20-2008-0001-セデビ、ヘデビ・<br/>Control (12) 20-2008-0001-セデビ、ヘデビ・<br/>Control (12) 20-2008-0001-セデビ・<br/>Control (12) 20-2008-0001-0001-0000-0000-0000-0000-00</td><td>Contract of the state of t</td><td>100     ПОЛУ В STEEL COMPANY LIMITED     СЕЛУГГІСАТЕ OF PRODUCT QUALITY     PD32 : 430083       1729 Ф.С.     CERVIFICATE OF PRODUCT QUALITY     POST CODE:430683       1729 Ф.С.    </td></td> | 日本         1 | 103         103 </td <td>中国人工 (1995)         中国人工 (1995)</td> <td>CRVIFICATE OF PRODUCT QUALITY     TRON &amp; STEEL COMPANY LIMITED     PAGA      PAGA     CRVIFICATE OF PRODUCT QUALITY     CRVIF      CRVIF      CRVIFICATE OF PRODUCT QUALITY     CRVIFICATE     C</td> <td>Control (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)</td> <td>Control (L2)200-2008-2001-4-97. A-197.A:<br/>Control (L2)20-2008-2001-4-97. A-197.A:<br/>Control (L2)20-2008-2001-4-97.A-197.A:<br/>Control (L2)2002-2008-2001-4-97.A:<br/>Control (L2)2002-2008-2001-4-97.A:<br/>Control (L2)2002-2008-2001-4-97.A:<br/>Control (L2)2002-2008-2001-4-97.A:<br/>Control (L2)2002-2008-2001-4-97.A:<br/>Control (L2)2002-2008-2007.C:<br/>Control (L2)2002-2008-2007.C:<br/>Control (L2)2002-2008-2007.C:<br/>Control (L2)2002-2008-2007.C:<br/>Control (L2)2002-2008-2007.C:<br/>Control (L2)2002-2008-2007.C:<br/>Control (L2)2002-2008-2007.C:<br/>Control (L2)2002-2008-2007.C:<br/>Control (L2)2002-2008-2007.C:<br/>Control (L2)2002-2007.C:<br/>Control (L2)2002-2007.C</td> <td>Control of the second s</td> <td>Control (12) 20-2008-0001-セデビ、ヘデド、ヘド<br/>Control (12) 20-2008-0001-セデビ、ヘデビ、<br/>Control (12) 20-2008-0001-セデビ、ヘデビ・<br/>Control (12) 20-2008-0001-セデビ、ヘデビ・<br/>Control (12) 20-2008-0001-セデビ、ヘデビ・<br/>Control (12) 20-2008-0001-セデビ・<br/>Control (12) 20-2008-0001-0001-0000-0000-0000-0000-00</td> <td>Contract of the state of t</td> <td>100     ПОЛУ В STEEL COMPANY LIMITED     СЕЛУГГІСАТЕ OF PRODUCT QUALITY     PD32 : 430083       1729 Ф.С.     CERVIFICATE OF PRODUCT QUALITY     POST CODE:430683       1729 Ф.С.    </td> | 中国人工 (1995)         中国人工 (1995) | CRVIFICATE OF PRODUCT QUALITY     TRON & STEEL COMPANY LIMITED     PAGA      PAGA     CRVIFICATE OF PRODUCT QUALITY     CRVIF      CRVIF      CRVIFICATE OF PRODUCT QUALITY     CRVIFICATE     C | Control (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) | Control (L2)200-2008-2001-4-97. A-197.A:<br>Control (L2)20-2008-2001-4-97. 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CERVIFICATE OF PRODUCT QUALITY     POST CODE:430683       1729 Ф.С. |



### Third-party Test Report

| 账号:<br>见更无<br>起<br>在<br>号<br>並<br>在<br>号<br>单<br>名<br>地<br>定<br>号<br>笔<br>人<br>号<br>笔<br>人<br>号<br>笔<br>人<br>号<br>笔<br>人<br>子<br>之<br>石<br>子<br>告<br>名<br>二<br>四<br>男<br>名<br>二<br>四<br>男<br>名<br>二<br>四<br>男<br>名<br>二<br>四<br>男<br>名<br>二<br>四<br>四<br>四<br>四<br>四<br>四<br>四<br>四<br>四<br>四<br>四<br>四<br>四<br>四<br>四<br>四<br>四<br>四 | 称 <u>连云</u><br>远云<br>梁圳<br>(B/T2 | 8<br>港蔷薇湖生<br>港蔷薇湖科<br>港蔷薇湖<br>市烨兴膜结 | 普展贸<br>构工程<br>金属材 | 原开发不<br>包馆上音<br>是有限公<br>料 拉何 | 8结构工程<br>23             | !<br>                       |                   | 委 托<br>建设!<br>监理!                         | 注人 三<br>单位 支<br>单位 支<br>706-20 | 生云港蔷<br>生云港市<br>08《热虹 | 薇湖生<br>正方建<br>型钢》 | 委托检测态资          | 日期二               | 人<br>2017-06-(<br>2017-06-(<br>定有限公司<br>良公司 | 5 00 达不<br>05<br>06至2017 | 1 1 | 报告编<br>委检指<br>超<br>形<br>級<br>一<br>術<br>術<br>系<br>一<br>物<br>一<br>術 | 共1页<br>工程质量型<br>含量61至102150<br>号 2017-001至6<br>别。强速委託<br>流 可检<br>境 室温24℃<br>况 | 000 6 |   |
|---|----------------------------------|--------------------------------------|-------------------|------------------------------|-------------------------|-----------------------------|-------------------|---|--------------------------------|-----------------------|-------------------|-----------------|-------------------|---|--------------------------|-----|---|---|-------|---|
| 样品编号  | 牌号<br>级别                         | 种类                                   | 规格<br>(mm)        | 面积<br>(mm²)                  | 实测照服强<br>度与屈服强<br>度特征值比 | 拉<br>实测抗拉强<br>度与实测屈<br>服强度比 | 屈服<br>强度<br>(MPa) | 伸<br>抗拉<br>强度<br>(MPa)                    | 断后伸<br>长率A<br>(%)              | 最大力下<br>总伸长率<br>(%)   | 弯曲<br>试验          | 重量<br>偏差<br>(%) | 代表<br>数量<br>(吨)   | 生产厂家/<br>炉号批号                               | 结构<br>部位                 |     | 检测  | 结论  | 备     | 注 |
| gj17-<br>00494  | Q235<br>B                        | 热轧型钢<br>钢管                           | 14                | 440. 1                       |                         |                             | 325               | 395<br>                                   | 31.0                           |                       |                   |                 | 40. 5             | 鑫鹏源智能<br>装备集团有<br>限公司<br>B17030348          | 主体结构                     |     |   | 伸性能符合GB/T<br>》标准规定的要求。  | -     |   |
|   |                                  |                                      |                   | 以<br>·                       | <del>آ</del>            | 空                           |                   | 自<br>———————————————————————————————————— |                                |                       |                   |                 |                   |   |                          |     |   |   |       |   |
|   | 发: 人                             | 1. 若对报告有<br>2. 送样检测,<br>子子           | 仅对来               | 祥检测                          | <sub>负责。3</sub><br>核: ろ | . 未加盖本                      | 公司检               | 测专用                                       | 章,报                            | 告无效。                  | 4. 省              | 厅资周             | <b>村报告</b><br>使中无 | 重量偏差项<br>报告                                 | 日期:2<br>1单位:3<br>址:3     |     | 建工程   | 型山<br>重章检测有限2<br>百方北路55号<br>邮编:22   |       |   |



TEL:0755-29164095 http://www.shzhyx.com 地址:深圳市龙华新区大浪布龙路石龙大道56号安宏基大厦1103、1105室















### **Rigging Material Report**

\//\//\//\//\//\//\//\//\//\//

| 12   | 1号 Report No.3<br>死年位<br>rosmil to |                                   | 全局基有限公司                                     | 使托方地址<br>Address                                   | 广东南东党市建筑和   | (理社区传播版 15号  | 立戸丁家<br>Manufactured by  | 52.82.92    |
|------|------------------------------------|-----------------------------------|---|--|---|--|--|-------------|
| 44   | A 名称<br>A 名称<br>Old Same           | 65                                | R.  | 総時間号<br>Madel                                      |   | 28.  | 80-JL-Str.12<br>Surrole countily   | 1           |
| 11   | 9528년<br>fatarial                  | 26150                             | Cr1No                                       | 工程名称<br>Project range                              |   |  | 超校日期<br>Preserved date   | 2015-05-12  |
| 14   | 10.05-79<br>constition             | (8/7.2                            | 28.227                                      | な設約2世<br>Ten standard                              | 5 SMT 22  | 1.1-2010   | 松利日和<br>Texting date   | 2015-05-12  |
| - 50 | all specific<br>of margine         | 1                                 | 6   | PHASE<br>Product mediand                           |   | 后来   | 完成日期<br>Completion date  | 2015-05-12  |
| 19   | HERE SPACE                         | 10 9 (E-9<br>Let/Person<br>sumber | Elizit ff(4)<br>Original distante<br>(from) | 抗臣:張度<br>Azti-izution<br>leterally<br>Rm≥ 9862MPa) | 経営担任日本の<br>Paul steept, plans<br>contine<br>Ru0.2 产118040-0 | W12590-30.46<br>The promuciles rate when<br>breaking<br>A 2012(56) | 新聞改程車<br>Betties strikkaps<br>又是25(%)  | 利定<br>Viela |
| 1    | STY: 503320                        |                                   | 10.00                                       | 826  | 529   | 16.5   | 48   | 会格          |
|      | 151.                               |                                   | 'F.   |  |   |  | 8  |             |
|      |                                    |                                   | 18. K. M.                                   |  |   |  |  |             |
|      |                                    |                                   | (may service)                               |  |   |  |  |             |
|      | NO                                 |                                   |   | 1  |   |  | Guitt  | 200         |
|      | A Approval by<br>position S10      |                                   | is all the task contain                     | HAL Checked by                                     | 3.施少  | 1  | Estable Main Senare  | 教授          |
|      | +0-5223                            | THE OTHER                         | 10 (0.223000))                              | CONTRACTOR AND                                     | +LANKANICA A  | RENAMANARI   | anterior en la del a la constante del face del constante d | 1500.       |

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# Membrane Material Customs Declaration

| 中华      | 人民共和国海关                                   | 重要提示                                  |
|---------|---|---------------------------------------|
| 报关      | 单位注册登记证书                                  | 报关单位应当在每年6月30日前向海关                    |
|         |   | 提交《报关单位注册信息年度报告》,不再另行通知。              |
|         | 18  | 即有解                                   |
| 海关注册编码: | 4403161EB6                                | S 首 9 封 2107                          |
| 组织机构代码: | 678589672                                 | 网络第二日本                                |
| 企业名称:   | 深圳市烨兴膜结构工程有限公司                            | ************************************* |
| 企业住所:   | 深圳市龙华新区大浪街道同胜社区谭罗新二村<br>56号安宏基大厦1103、1105 |                                       |
| 企业经营类别; | 进出口货物收发货人                                 | 7/ MAN 19 14                          |
| 注册登记日期: | 2017年6月5日                                 | A address of the                      |
| 法定代表人:  | 赖华娟                                       |                                       |
| 有效期:    | 长期  |                                       |
|         | 注册海关: 深关现场新<br>核发日期: 注册2017年6月5日          | 中华人民共和国海关总署监制                         |



### Import Customs Declaration Record Form For Film Materials

| VERSE       | IDAG      |
|-------------|-----------|
| COATING AND | COMPOSITE |

| uras | kin® | 杜肯 |
|------|------|----|
|      |      |    |

ISO 9001 / ISO 14001

#### PTFE 膜材供销合同

#### SALES CONTRACT OF PTFE MEMBRANE

合同号(Contract No.):VS- YEXIN- 2017-001 日期(Date): 2017-9-28

d

#### 买方: 深圳市烨兴膜结构工程有限公司

#### Buyer: Shenzhen Ye Xing Membrane Structure Engineering CO., Ltd.

Address: Room 1103-1105, Anhongji Building, No.56, Tanluo Xin Er village Tongsheng Community; Dalang Street; Longhua New District, Shenzhen City, Guangdong, P.R.China. Post Code: 518109 Contact person: Mr. Wang Wei Qiang Mobile: 0086-137 6021 0896 Fax: 0086-755-29164066

#### 

SELLER: VERSEIDAG-INDUTEX GMBH

Address: INDUSTRIESTRASSE 56, 47803 KREFELD, GERMANY

#### Contact person: Mr. Murat Devecioglu

Tel: 0049 -2151-876238

Fax: 0049-2151-876291

3天卖双方经过协商,自愿平等订立本合同,本合同膜材用于广西崇左体育场。

And after friendly discussions, based on the principle of willingness and equality, the Seller agrees to sell and the Buyer agrees to buy the following goods for Chongzuo stadium of Guangxi province.



| H | 国工商银行     |  |
|---|-----------|--|
|   | 山上间 1121」 |  |

网上银行电子回单(补打)

电子回单号码: 0016-9998-3655-1100

打印日期: 2017年10月19日

第2次补打

| 付款  | 户            | 名   | 深圳市炸兴膜结构工程有         | 有限公司 收         | 户    | 名   | VERSEIDAG-INDUTEX GMBH<br>INDUSTRIESTRASSE 56 47803<br>KREFELD GER |
|-----|--------------|-----|---------------------|----------------|------|-----|--|
| 人   | 账            | 号   | 4000026619203201328 | 7              | 账    | 号   | DE02320800100701747900   |
|     | 开户           | 口银行 | 工行深圳市分行龙华支行         | Ĵ              | 开户   | 银行  |  |
| -   | 金            | 額   | EUR782, 100.00      |                | 金額(大 | 写)  | 欧元 柒拾捌万贰仟壹佰元整  |
|     | 摘            | 要   | TT1710090266090800  | NK.            | 务(产品 | )种药 | <b>丝</b> 转账  |
|     | 用            | 途   |                     |                |      |     |  |
| 交   | で易流          | 水号  | 41671000            |                | 时间   | 民   | 2017-10-10-14. 27. 41. 757926                                      |
| ( = | · 4個工<br>电子回 | 可单  | 备注:                 |                |      |     |  |
| -   | _            | /   | 验证码: 0zNgW8o3iaHgf  | 4+gkvTFBgn9w5M | =    |     |  |
| ia: | 账网点          | i.  | 0260                | 记账柜员 00        | 168  |     | 记账日期 2017年10月10]   |

重要提示:

1. 如果您是收款方,请到工行网站www.icbc.com.cn电子回单验证处进行回单验证。2. 本回单不作为收款方发货依据,并请 勿重复记账。3. 您可以选择发送邮件,将此电子回单发送给指定的接收人。



#### Import Customs Declaration Record Form For Membrane Materials

#### $\star$ 0 0 0 0 0 0 0 0 1 3 8 9 1 6 9 4 8 9 $\star$

#### \*161006299\*

中华人民共和国海关进口货物报关单

| 收发优人 (4403161EB6) (91440<br>深圳市烨兴腹结构工程有限公司         | 300678589672X)    | 进口口岸(53<br>大鹏海关                            | 316)   | 进口日期<br>20171223 |               |               | 接日期<br>018012     | 2                 |
|--|-------------------|--|--|------------------|---------------|---------------|-------------------|-------------------|
| 消费使用单位(4403161EB6) (91440<br>深圳市烨兴膜结构工程有限公司        | 300678589672X)    | 运输方式(2)<br>水路运输                            | 运输工具名称<br>UN9762338/FW   | 747E             | 提运单·<br>96295 |               |                   |                   |
| 申报单位 (4403161EB6) (91440<br>深圳市海格联合运输有限公司          | 300678589672X)    | 监管方式<br>一般贸易                               | (0110)   | 征免性质(10<br>一般征税  | )1)           | 备案号           | 16                |                   |
| 貿易国(地区) (304)<br>徳国                                | 启运国(地区)<br>荷兰     | (309)                                      |  | 309)             |               | 深圳特           | 的地(4<br>1区        | 4031)             |
| 许可证号   | 成交方式(1)<br>CIF    | 运费   | 114 million - 11   | 保費               |               | 杂费            |                   |                   |
| 合同协议号<br>VS-YEXIN-2017-001                         | <b> 件</b> 敗<br>11 | 包装种类(7)<br>其它                              |  | 毛重(千克)<br>26850  |               | 净重(千<br>17852 |                   |                   |
| 単装箱号<br>ℓRKU5474829 ★ 1(2)                         | 随用单证              |  |  | 344              |               |               |                   |                   |
| 项号 商品编号 商品名称、<br>1 39219090.90 PTFE膜材<br>4 3 玻璃纤维+ |                   | <u>数量及单位</u><br>17852.72 <sup>-</sup><br>昆 |  | ) 单价<br>的国:中国    | <i>.</i> #    | ነፅን           | 币制<br>(300)<br>欧元 | 征免<br>照章征形<br>(1) |
| 与其他材料合用  | 1]泡沫塑料 工程         |  |  | 104.3            | 2800          | 1618853.      | 15                |                   |
| 与其他材料合布  |                   |  |  |                  | 2800 :        | 1618853.      | 15                |                   |
|  |                   | 15524.1¥7                                  | 54<br>30<br>1000   | 104.3            |               |               |                   |                   |
| 特殊交系确认, 芬  | 1 池沫颤料 工程         | 15524.1平2<br>(他都有限以,否                      | 方来<br>   | 104.:            | v<br>使用费支     |               | 15                |                   |
|  | 1 池沫颤料 工程         | 15524.1平2<br>(他都有限以,否                      | 方来<br>30.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.000000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.0000<br>10.00000<br>10.00000<br>10.00000<br>10.00000000 | 104.:            | v<br>使用费支     |               |                   |                   |

|   |       |   |  |                           | Invoice<br>Invoice-No.<br>Customor-N                      |   | 146430<br>1083641   |                                   |     |
|---|-------|---|--|---------------------------|---|---|---|-----------------------------------|-----|
|   |       | Vana-dag Mewax Graat Industries   |  |                           | Date:<br>Page:  |   | 21,11.2017  |                                   |     |
|   |       | Shenzhen Ye Xing M<br>Engineering Co., Ltd<br>Room 1103-1105, An<br>Tanluo Xin Er Village<br>Dalang Street, Longh   | hongji Build<br>Tongsheng<br>ua New Disi | No.56<br>Comm.<br>trict   | Department<br>Contact:<br>Phone:<br>Fax:<br>Your Order:   |   |   | 6 227<br>6 271<br>-YEXIN-2017-001 |     |
|   |       | 518109 Shenzhen Cit<br>CHINA  | y, Guangdoi                              | ng                        | Order-No.:<br>Shipping ag                                 |   | 162320 (AA: 00  |                                   |     |
|   |       |   |  |                           | Terms of De   |   | CIF YANTIAN P<br>cost,insurance,f   | ORT SHENZHEN                      |     |
|   |       |   |  |                           | Engineering<br>Room 1103-<br>Tantuo Xin E<br>Dalang Stree | e Xing Men<br>Co., Ltd.<br>1105, Anho<br>ir Village To<br>II, Longhua | brane Structure<br>ngji Build, No.56<br>ngaheng Consm.<br>New District<br>Ry, Guangdong |                                   |     |
| P | 05    | Quality   | Article No.                              | Width/C<br>Quan           |   | Price   | per unit  | Value of item                     |     |
| 0 | Vrder | -Pos.No. 10   |  | Goan                      | uty   |   |   |                                   |     |
|   |       | and the state Property  | B18059                                   | /470,00/1                 | 43/143  |   |   |                                   |     |
| 1 | 1     | architecture PTIFE<br>article descr.: GF-7000<br>variant: 16  |  |                           | 3   |   |   |                                   |     |
| 1 | 1     | article descr.: GF-7000   | 2017 / 185.727                           |                           |   |   |   |                                   |     |
| 1 | 1     | article descr.: GF-7000<br>variant: 16<br>quality status: I   | 2017 / 185.727                           | 960,00 M (4.              | ,<br>512.00 M2)   |   | EUR / 1,00 M2<br>611,36 EUR   |                                   | 570 |
|   |       | article descr.: GF-7000<br>variant: 16<br>quality status: I   | 2017 / 185.727                           | 960,00 M (4.              | 512,00 M2)  |   |   | 470.511.36 EUR                    | 570 |
|   | rder  | article descr.: GF-7000<br>variant: 18<br>quality status: I<br>date of dispatch/no: 21.11.  | 8017 / 185.727<br>B18059                 | 960,00 M (4.<br>/470,00/1 |   |   |   | 470.511,36 EUR                    | 570 |
| 0 | rder  | article descr.: GF-7000<br>variant: 16<br>quality status: 1<br>date of dispatch/no: 21.11.:<br>-Pos No. 20<br>architecture PTFE<br>article descr.: GF-7000              | B18059                                   |                           |   |   |   | 470.511,36 EUR                    | 570 |
| 0 | rder  | article descr.: GF-7000<br>veriant: 18<br>evally status: 1<br>date of dispatch/re: 21.11.<br>-Pos No. 20<br>architecture P1FE<br>article descr.: GF-7000<br>variant: 16 | B18059                                   |                           | 43/143  | 470   | 511,36 EUR<br>EUR / 1 00 M2<br>241,79 FUR   | 470.511.36 EUR<br>148.341.70 EUR  | 570 |
| 0 | rder  | article descr.: GF-7000<br>veriant: 18<br>evally status: 1<br>date of dispatch/re: 21.11.<br>-Pos No. 20<br>architecture P1FE<br>article descr.: GF-7000<br>variant: 16 | B18059                                   | /470.00/1                 | 43/143  | 470   | 511,36 EUR<br>EUR / 1 00 M2<br>241.79 EUR<br>1  |                                   |     |

×/----

NZNZNZNZNZNZNZNZNZ

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#### Import customs declaration record form for film materials



Customers witnessed the whole process of importing membrane materials from Shenzhen Yantian Customs



Open the container seal

On-site sampling



### PTFE Membrane Storage And Placement





### PTFE Membrane Materials

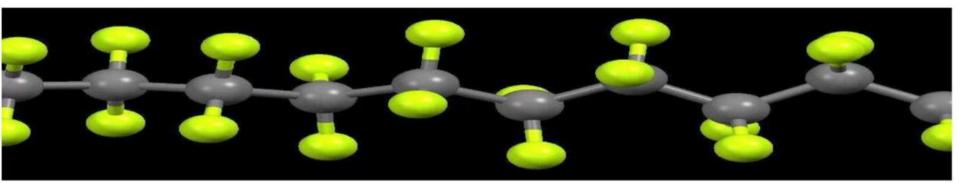
Different Brand Different Type Membrane Sample

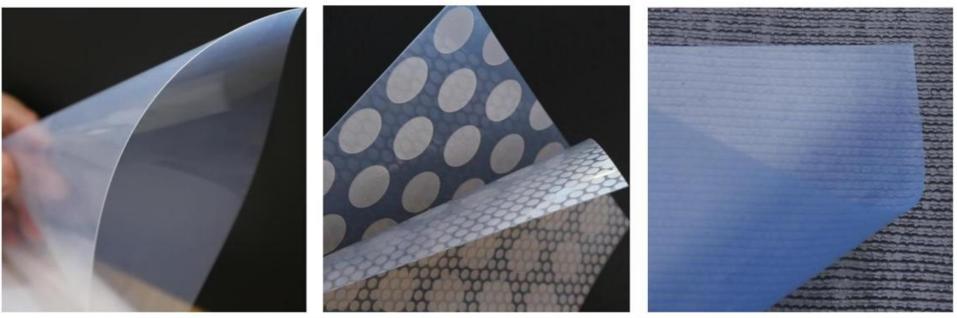




#### ETFE Membrane

#### ETFE膜材

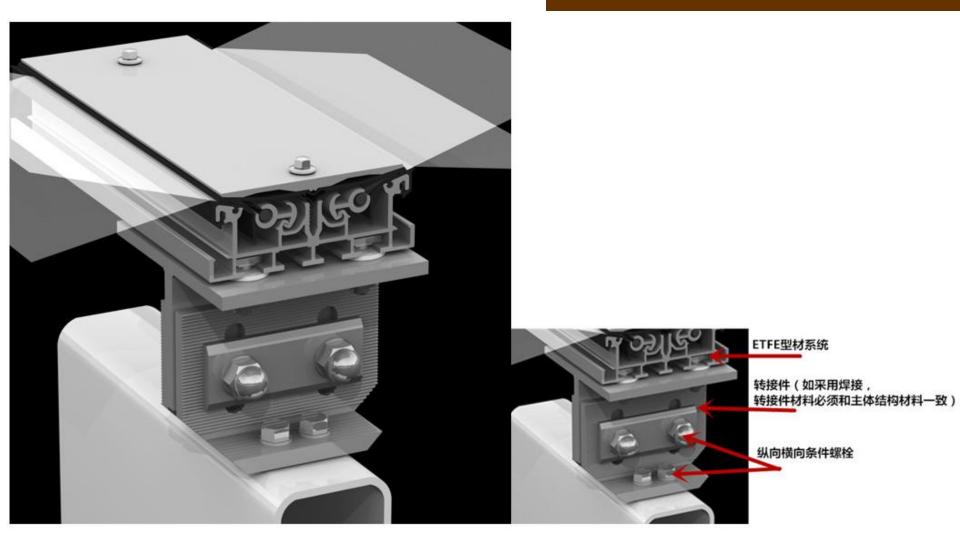








# Aluminum profile





#### Aluminum materials

All parts of the aluminum materials in contact with the membrane structure are polished



#### Aluminum Materials Test Report

|       | 铝构件出厂合格证                   |             | 资料编号      | CN-HLJ05 | 22-1     |
|-------|----------------------------|-------------|-----------|----------|----------|
| 工程名称  | 杭州湖滨银泰in77B区小              | 广场增设雨棚工程    | 合格证编号     | 0522-    | 1        |
| 委托单位  | 深圳市烨兴膜结构                   | 工程有限公司      | 使用标准      | GB5237.1 | -2008    |
| 铝材料   | 6063-T6                    | 加工日期        | 2019/8/25 | 出厂日期     | 2019/9/4 |
| 序号    | 构件                         | 表面处理        | 数量        | 箱号       |          |
| L     | UD UR CD CR KE             | 毛料          | 494       | Box A2   | -1       |
| 2     | UT UX UF UY<br>CT CX CF CY | 工作科         | 94        | Box A2   | -2       |
| Total | ( tale ?                   |             | 588       |          |          |
| 备注:   |                            | 111         |           |          |          |
| 供应单   | 单位技术负责人                    | 填表人         |           | (all     | ~        |
|       | 邱永忠                        | <b>黄群凤</b>  |           |          | 100      |
| 填表日期  | 2019年                      | E9月3日 星期二 🌙 | 识易有人      | (AB)     |          |

#### 广东江晟铝业有限公司

GUANGDONG JIANGSHENG ALUMINIUM CO.,LTD

材质证明(Material Certificate)

|             |                    |              | 表格编号: QOR-QC-23 |
|-------------|--------------------|--------------|-----------------|
|             | Reference No.证书编码: | JS19033023   |                 |
| Color色号:    | MILL.              | Date测试日期:    | 2019年3月30日      |
| section 型号: | JH3319             | Standards标准: | GB5237.1-2017   |
| Alloy合金状态:  | 6063-T6            | Order订单号,    |                 |
| Client 客户:  | 金炅                 | Contract合约号: |                 |
| Alloy合金状态;  | 6063-T6            | Order订单号;    |                 |

|  |                          | t Result测试        | and the loss                               |                                |  |  |
|--|--------------------------|-------------------|--|--------------------------------|--|--|
| Test ltems 测试项目                            |                          | Unit单位            | Spees要求                                    | Result结果                       |  |  |
| Chemical Analysis<br>化学成份                  | 硅 (Si)                   | %                 | 0.20-0.60                                  | 0.399                          |  |  |
|  | 镁 (Mg)                   | %                 | 0.45-0.90                                  | 0.510                          |  |  |
|  | 铁 (Fe)                   | %                 | ≤0.35                                      | 0.102                          |  |  |
|  | 铜 (Cu)                   | %                 | ≤0,10                                      | 0.003                          |  |  |
|  | 锰 (Mn)                   | %                 | ≤0.10                                      | 0.003                          |  |  |
|  | 锌 (Zn)                   | %                 | ≤0,10                                      | < 0.010                        |  |  |
|  | 铬 (Cr)                   | N= %              | ≤0,10                                      | < 0.001                        |  |  |
|  | 钛(Ti)                    | %                 | s0.10                                      | 0.013                          |  |  |
|  | 镍(Ni)                    | %                 | and the second                             |                                |  |  |
|  | 销 (Pb)                   | %                 |  |                                |  |  |
|  | 够(Bi)                    | %                 |  |                                |  |  |
|  | 佔 (Zr)                   | %                 |  |                                |  |  |
|  | 铝 (AI)                   | %                 | 余量<br>(Rest of<br>Composition)             | 余量<br>(Rest of<br>Composition) |  |  |
| Mechanical<br>Properties.<br>力学性能          | Tensile Strength<br>抗拉强度 | N/mm <sup>2</sup> | ≥215                                       | 233.1                          |  |  |
|  | Yield Strength<br>屈服强度   | N/mm <sup>2</sup> | ≥170                                       | 190.4                          |  |  |
|  | Elongation<br>發伸率        | %                 | ≥8   | 12.8                           |  |  |
| Rigidity 硬度                                |                          | ≥13               |  | 14                             |  |  |
| Conclusion<br>检验结论                         | Qualified 合格             |                   |  |                                |  |  |
| Client 客户:                                 |                          |                   |  |                                |  |  |
| 此报告仅对本批产品<br>The result for th<br>质检员:QC02 |                          | ld for the s      | specific phiduet a<br>核准:<br>Approved by版目 | bove only.                     |  |  |

(長氏 (1911) + 0.000 円(約 5380.000 外音 (1994) + 1659, 0520 5388.80 単 5511 - 0.000 (1910) + 0.0000 (1910) + 0.000 (1910) + 0.0000 (1910) + 0.000 (1910) + 0





# German Imported yexing@custom Gas Supply System





# German Imported yexing@custom Gas Supply System





### German Imported yexing@custom Gas Supply System







### Silicone Strip yexing@

Silicone strips matched with aluminum profiles produced by special molds



#### Silicone Strips Test Report





样品名称 建筑门窗用密封条 (EPDM)

委托单位 江阴海达橡塑股份有限公司

检验类别 委托检验



liaida

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产品质量证书 QUALITY CERTIFICATE

| 深圳烨兴膜结构工程有限公司   |         |   |  |   |  |  |
|-----------------|---------|---|--|---|--|--|
| 硅橡胶胶条(灰色)       |         |   |  |   |  |  |
| 0403Q-YXM-01    |         |   |  |   |  |  |
| SZYX29164095    |         |   |  |   |  |  |
| 2000 m          |         |   |  |   |  |  |
| 2019-7-26       |         |   |  |   |  |  |
| 测项目             |         | 标准  | 实测   | 合格判定  |  |  |
|                 | MPa     | ≥7.5  | 8.8  | 合格  |  |  |
| 伸长率             |         | ≥300  | 310  | 合格  |  |  |
| 硬度              |         | 46-55   | 49   | 合格  |  |  |
| 压缩变形(100°C*22h) |         | ≤35   | 15   | 合格  |  |  |
| 压缩变形(-25℃*22h)  |         | ≤70   | 38   | 合格  |  |  |
|                 |         |   |  |   |  |  |
| 扯斷强度变化          |         | ≤-25  | -30  | 合格  |  |  |
| 伸长率变化           |         | ≤-50  | -60  | 合格  |  |  |
| 硬度变化            |         | -5~+10  | +3   | 合格  |  |  |
|                 |         | 无裂纹,等级0   | 0级   | 合格  |  |  |
|                 |         | 硅橡胶   | 硅橡胶  | 1   |  |  |
|                 | IKHD    | 无裂纹, 等级 0<br>硅橡胶<br>7863-1 2011 标准,   | 0级<br>硅橡胶<br>予以合格。   |   |  |  |
| 沈雅              | 审核员     | "善弟   | E T  | (量管理部<br>(盖章)。  |  |  |
|                 | 产品经检验、试 | 福井       () <td>硅橡胶胶条 (灰色.)         0403Q-YXM-01         SZYX29164095         2000 m         2019-7-26         湖项目       标准         MPa       ≥7.5         第       ≥300         IRHD       46-55         %       ≤35         %       ≤35         %       ≤70         %       ≤-25         %       ≤-50         IRHD       -5~+10         无裂纹, 等级 0          在橡胶          於       4&amp; 50         於       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50</td> <td>硅橡胶胶条 (灰色.)         0403Q-YXM-01         SZYX29164095         2000 m         2019-7-26         湖项目       标准       实测         潮项目       标准       实测         第       ≥7.5       8.8         第       ≥300       310         第       ≥300       310         1RHD       46-55       49         %       ≤35       15         %       ≤35       15         %       ≤70       38         %       ≤-25       -30         %       ≤-50       -60         1RHD       -5~+10       +3         %       ≤-50       0         %       ≤-50       0         %       ≤-50       0         %       ≤-50       0         %       ≤-50       0         %       ≤-50       0         %       ≤-50       0         %       ≤-50       0         %       ≤4kkt       4kkt         %       &lt;5~410</td> 1         %       <4kkt | 硅橡胶胶条 (灰色.)         0403Q-YXM-01         SZYX29164095         2000 m         2019-7-26         湖项目       标准         MPa       ≥7.5         第       ≥300         IRHD       46-55         %       ≤35         %       ≤35         %       ≤70         %       ≤-25         %       ≤-50         IRHD       -5~+10         无裂纹, 等级 0          在橡胶          於       4& 50         於       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50         %       ≤-50 | 硅橡胶胶条 (灰色.)         0403Q-YXM-01         SZYX29164095         2000 m         2019-7-26         湖项目       标准       实测         潮项目       标准       实测         第       ≥7.5       8.8         第       ≥300       310         第       ≥300       310         1RHD       46-55       49         %       ≤35       15         %       ≤35       15         %       ≤70       38         %       ≤-25       -30         %       ≤-50       -60         1RHD       -5~+10       +3         %       ≤-50       0         %       ≤-50       0         %       ≤-50       0         %       ≤-50       0         %       ≤-50       0         %       ≤-50       0         %       ≤-50       0         %       ≤-50       0         %       ≤4kkt       4kkt         %       <5~410 |  |  |

地址: 江苏省江阴市周庄镇云顾路585号 Add: #585 Yungu Road, Zhouzhuang Town, Jiangyin City, Jiangsu Province China 214424 Tel:(86)-510-68978867 Fax:(86)-510-86905215 http://www.haida.cn E-mail:hjuefang@haida.cn



182, 510 199

# **Process Control - Machinery**



# Intersecting Line Cutting









#### Sand Blasting and Shot Blasting Equipment

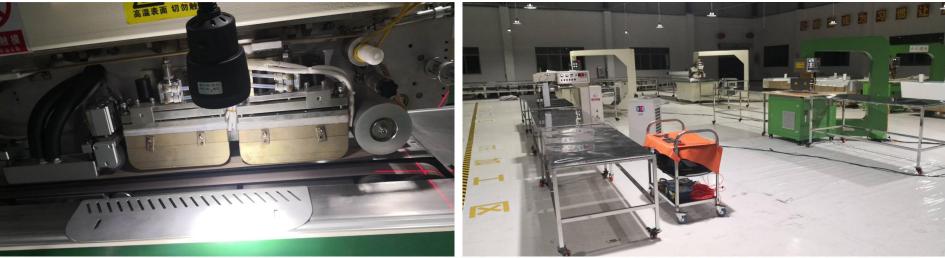






烨兴ETFE专项是唯一获得行业巨头德国泰克斯隆技术支持的厂家,拥有自主研发的自动化焊接技术,全球最大的ETFE膜材焊接设备,专业、高效的膜材加工能力是烨兴建设完美工程的重要保障。





#### 烨兴隽 YEXINGG Self-developed ETFE Automatic Cutting Equipment





### Self-developed ETFE Automatic Cutting Equipment





#### 烨兴集团 YEXING GROUP Self-developed automated welding equipment











烨兴的PTFE膜结构加工工厂拥有全套的自动化膜材检测、裁剪及焊接设备,每一卷膜材在加工使用之前都要经 过严格的检测工序,剔除瑕疵,加上精确的裁剪及优质的焊接技术,能极大地提高膜材的使用寿命。

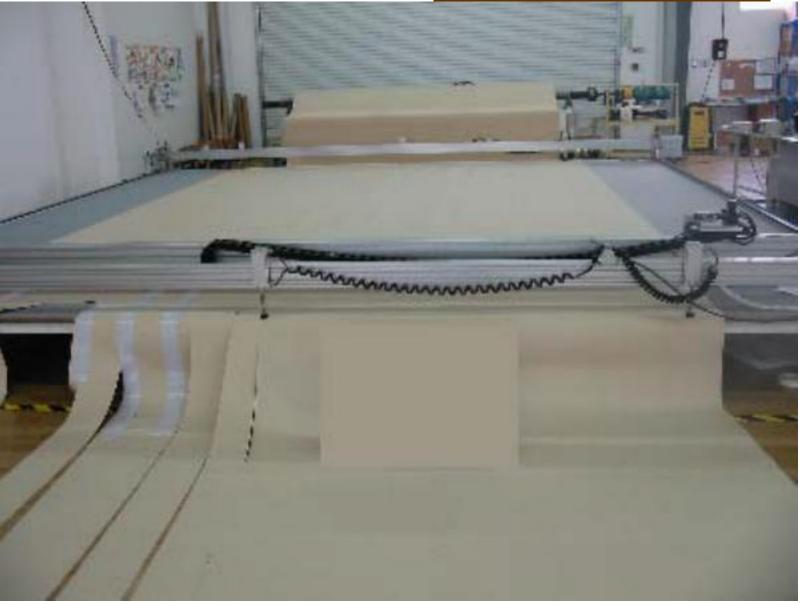








#### PVDF、 PTFE Self-developed automated welding equipment





## Membrane Defect Detection Equipment





#### PVDF Membrane Welding Machine





#### PVDF Membrane Welding Machine





### PTFE Membrane Welding Machine





### PTFE Membrane Welding Machine





### **Project Implementation Control**







### **Project Implementation**









## **Project Implementation - Safety**





# Safety Education





# **Safety Training**





# **Safety Training**

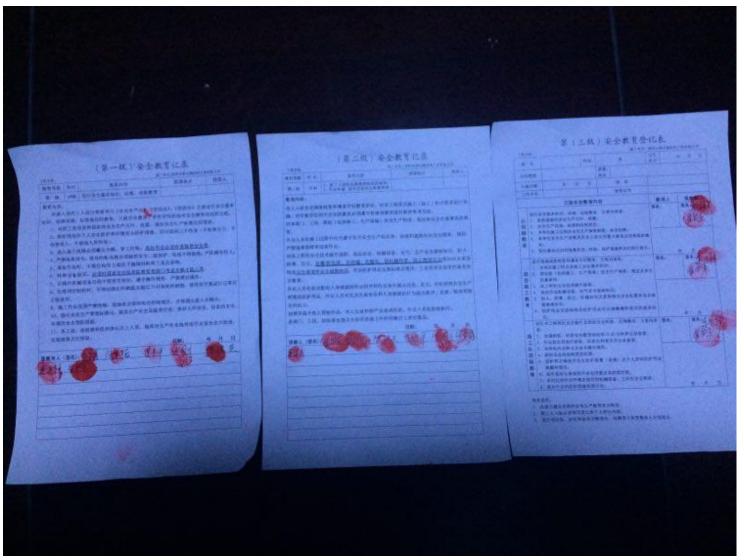




# **Safety Oath Ceremony**



#### **烨兴集团** YE XING GROUP Safe Tertiary Education Commitment





## Guigang High Speed Rail Station Safety Behavior Quarterly Award





## Guigang High Speed Rail Station Project Named Behavioral Safetv Star





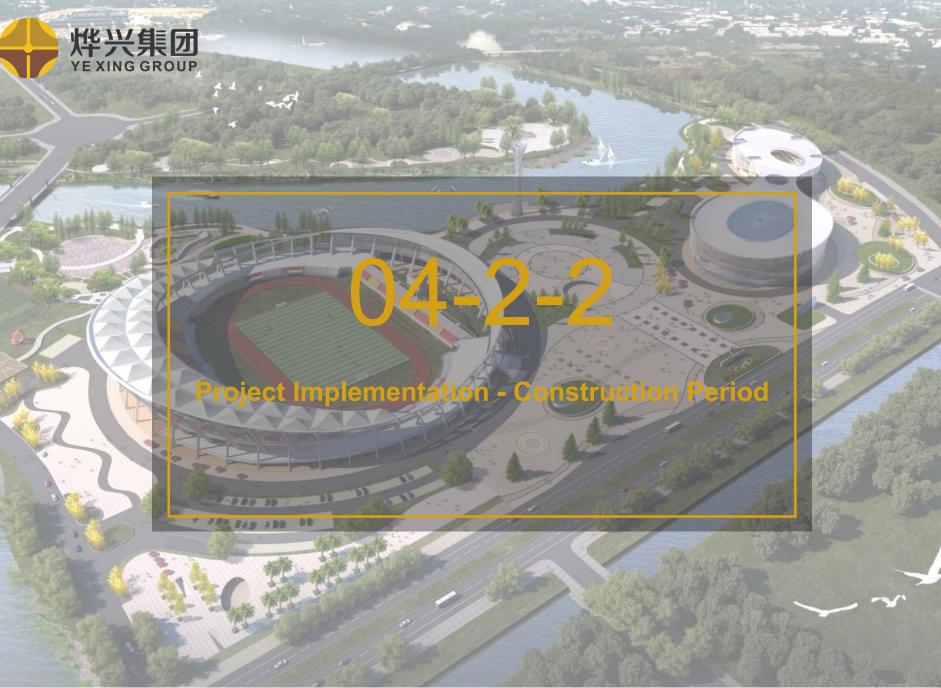
## Pre-production meeting





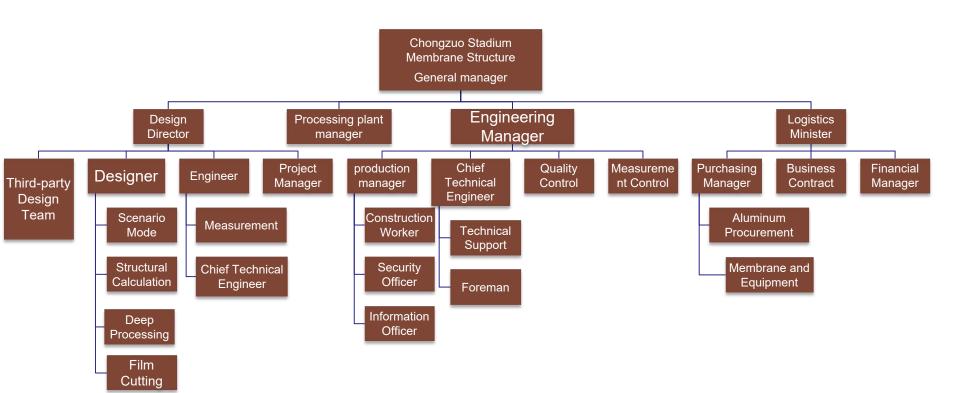
### Production Class Summary Meeting





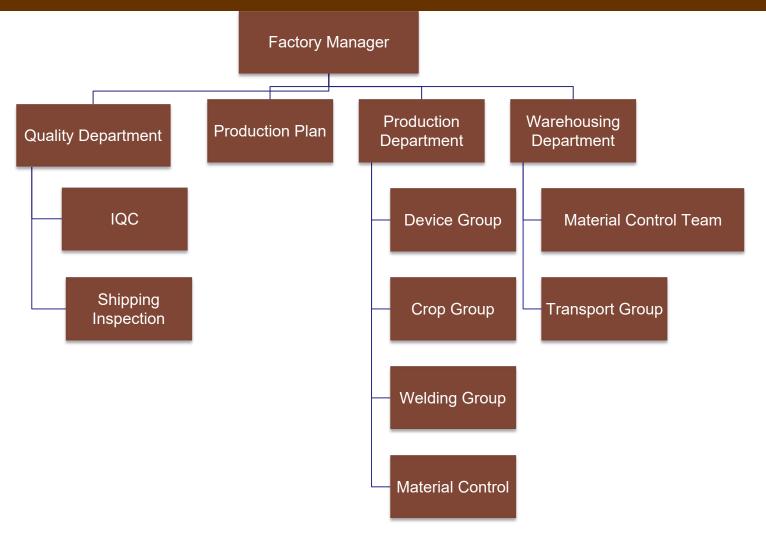


### Organization Chart of Chongzuo Project





## embrane Processing Factory Organizational Structure







## Project Manager WeChat Group



## Nanchang Project Design Scheme

#### 南昌县昌南体育中心工程体育场。 膜结构安装施工组织设计方案。

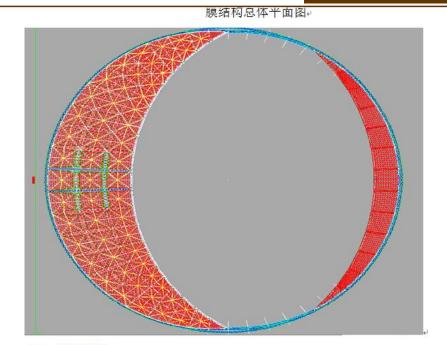
|            | 41      |                |
|------------|---------|----------------|
| 编制人: 张远强   | Ā       | 4 <sup>1</sup> |
|            | 4       |                |
| 审核人: 王维网   | ıj      |                |
|            | 4       |                |
| 审批人: 王维强   | 24      | ±1             |
|            | **      |                |
|            | 4       |                |
|            | *1      |                |
|            | 4       |                |
|            | 44 C    |                |
|            | e.      |                |
| 制单位: 深圳市烨兴 | 长膜结构工程有 | 限公司。           |
| 期:二0一五年    | 岸十一月↓   |                |
|            |         |                |

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|--------------------|--------------------|
| 2.1、总体概况           |                    |
| 2.2、专业概况           |                    |
| 三. 施工部署            |                    |
| 3.1 施工组织机构         |                    |
| 3.2 技术准备           | ىپ5                |
| 3.3 人员、材料、物资准备     |                    |
| 3.3.1、劳务层管理及分工     |                    |
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| 七、 施工现场质量管理规定      |                    |
| 九、 施工现场环境保护管理制度    |                    |
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| 十二、检验与验收           |                    |
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| 12.1.1 交工验收的主要依据   |                    |
| 12.1.2 交工验收组织机构    |                    |
|                    |                    |



## Nanchang Project Design Scheme



#### •三.施工部署。

本工程项目安装范围包括膜结构方案设计、膜结构安装、膜材料供应、施工现场平面布置图见附图。

#### • 3.1 施工组织机构-

总工程师: 王维强↩

专项施工负责人:张远强↔

技术员:王维刚、赖华海↩

• 3.2 技术准备

3.2.1 腹结构施工前,必须熟悉设计施工图、有关技术资料与施工验收规范的技术要求。编制施工
 预算、工程进度计划与施工方案,制定材料供应、机具配备与劳动力需求计划,确保工程顺利开工。+
 3.2.2 按设计施工图进行结构索、腹材预制工作,必须按照设计坐标、标高位置进行测量,固定牢

3.2.3 /7 休证膜安装正确, 须พ财与钢结构、工建、装潢施工单位的配合, 及时基握钢结构高度、 水平基准线、做好膜材的安装敷设,确保钢结构预留的坐标、标高符合验收规范。 3.2.4 工长结 合本施工方案,编制具有可操作性的技术交底,指导工人施工。施工人员须经过膜安装的技术培训。↔ 3.2.5 加工定货计划↔

各类主要材料、构件、成品、半成品、机器加工定货计划和分阶段进场时间应满足施工进度需求。 按照施工计划及时与甲方、监理看货定货,进场材料要有相应检测报告(尤其有关环境保护、环境 污染方面),应检验的必须及时送检。施工中主要材料及主要设备按进度计划及时进场。具体进场日期 详见附表一一主要材料加工定货计划表,时间节点表。↔

- 3.3 人员、材料、物资准备-
- 3.3.1、劳务层管理及分工+

#### ➡ 表 3-1+

| • | 100 C C C C C C C C C C C C C C C C C C |      |       |             |   |
|---|---|------|-------|-------------|---|
|   | 序号₽                                     | 姓 名₽ | 职 务₽  | 岗位职责₽       | 4 |
| Ĩ | 10                                      | 谢创奇↩ | 项目经理₽ | 施工现场总负责₽    | * |
|   | 2₽                                      | 王维刚↩ | 技术负责↔ | 负责施工中的技术协调↔ | + |
| 1 | 3₽                                      | 李天生↩ | 安全员₽  | 负责施工中的安全管理₽ | * |
|   |   |      |       |             |   |

• 3.3.1、劳动力安排+

表 3-2

采用有相应资质的专业施工队伍进行施工,人数根据施工总进度计划的工期实际确定。4

| 人员准备↔ |  |
|-------|--|
|       |  |

| 工 种⊷ | 数 量↩            | 主要工作₽   | 进场时间↩      |
|------|-----------------|---------|------------|
| 测量↩  | 3₽              | 测量定位₽   | 2016.1.9+  |
| 吊车₽  | 4₽              | 吊车指导等↔  | 2016.1.9+  |
| 操作工₽ | 32₽             | 高空作业↔   | 2016.1.9+2 |
| 杂工₽  | 6+ <sup>2</sup> | 辅助地面工作↔ | 2016.1.9+2 |
| 电工⊷  | 1₽              | 协助现场接电₽ | 2016.1.90  |

3.3.2 现场机具准备--

+<sup>↓</sup> 表 3-3

施工机具设备一览表↔

| 序号₽ | 名 称↩          | 规格₽ | 数量₽       | 単位₽   | 备注₽  |
|-----|---------------|-----|-----------|-------|------|
| 10  | 电钻₽           | ¢.  | 140       | 台     | 交直流↩ |
| 2#  | 全站仪₽          | ą.  | 242       | 台     | ¢.   |
|     | 1000000000000 |     | 200 BANRS | 38055 |      |



### Nanchang project focus analysis

#### 2. 工程特点、重点分析及对策。

细致入微的服务意识、专业化的管理和良好的品牌形象,抓住工程的特点和重点部分,采用有的放矢的施工对策,提高工程的功能质量和环境质量,将本工程创建为精品工程,最大程度的为业主做好服务。根据招标文件、工程图纸、现场踏勘和我单位同类工程施工经验,对本工程特点、重点部分的认识和我单位拟采取的施工对策如下: ↩

#### 2.1 现场受结构限制多,要根据具体情况选择最佳的吊装方法。

现场受场地限制多,要根据具体情况选择最佳的吊装方法:在原有钢构上安装,钢构最高点 40.8 米,吊装膜材(飞柱和膜材)长度 15.6 米,吊车吊膜材不能低于 66.4 米,对于吊膜材吊装设备的选择是本工程施工中的又一个难点。+

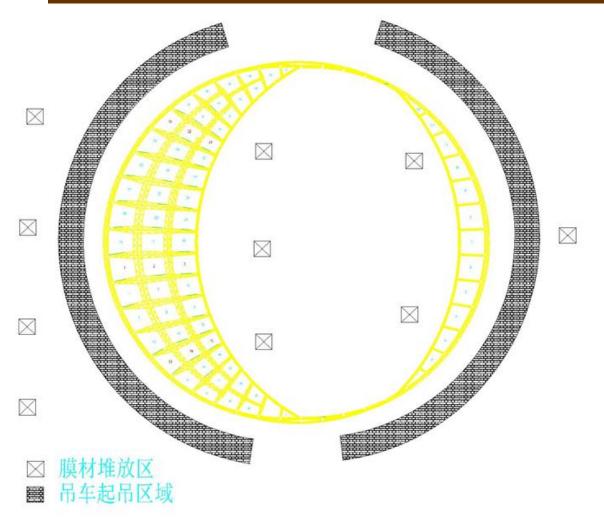
施工对策: ↩

(1)根据进入现场后的实际情况,对于大型吊车的布置与行走路线,同时充分考虑安全等因素,采取大型吊车 260 吨汽车吊方法 解决。→





## Nanchang Project Site Area Division Map



### 烨兴集团 YEXINGGR Nanchang project construction period plan and measure plan

#### 3. 工期计划及保证措施。

#### (钢结构1-1.1-4)膜结构安装时间节点表。

|                               | 工程。                   |           |                         |            |                            |                |           |             |     |
|-------------------------------|-----------------------|-----------|-------------------------|------------|----------------------------|----------------|-----------|-------------|-----|
| 施工单位:深圳市烨兴膜结                  | 构工程有限公司               | p         |                         |            | - 10                       |                | <i>1-</i> |             |     |
| 1-1 🗵 🖉                       | 测量时间(以邻               | 赌结构完成时间开始 | 出图,加工,                  | 运输时间↩      | 膜部                         | 安装时间₽          | 结构索定      | 2制到工地时间段。   | 备注₽ |
|                               | 计划完成↩                 | 实际完成↩     | 计划完成₽                   | 实际完成↩      | 计划完成↩                      | 实际完成↩          | 批次↩       | 到达时间₽       | ¢   |
| FZ1-7¢                        | 1.111.12+             | 1.20+     | 1.131.24                | 2.17¢      | 1.291.31+                  | 3.100          | 第一+       | 2.17¢       | 样板膜 |
| <mark>2.4.6.8.10.12</mark> 轴↩ | 3.123.16 <sub>2</sub> | 3.16₽     | 3.204.18¢               | 4.08-4.18¢ | <b>4</b> .15 <b>4</b> .26↔ | ę.             | 第二        | 4.144.220   | ę   |
| 2、95、93、91 轴↔                 | ę                     | <i>ن</i>  | ب<br>3.264.23           | <i>و</i>   | 4.265.03                   | ç.             | 第三₽       | Ģ           | ÷   |
| 91 至 73 轴 ↩<br>12 至 24 轴↩     | 3.304.28+             | (Jip)     | 4.24 <sup>-</sup> 5.25↔ | ¢          | 5.04-5.31+                 | с <sub>р</sub> | 第四₽       | <b>د</b> و. | ç   |
| 1-4 🗵 🕫                       | 测量时间(以铆               | N结构完成时间开始 | 出图,加工,                  | 运输时间∂      | 膜部                         | 安装时间↩          |           | 备注↩         | ą   |
| 轴线对应的膜结构框架↩                   | 计划完成₽                 | 实际完成₽     | 计划完成₀                   | 实际完成₽      | 计划完成₀                      | 实际完成₽          | 2         | ې           | ¢.  |
| 1-2.1-4.1-6.1-95.1-93.1-91 轴+ | 5.03—5.140            | ¢.        | 5.14-5.28e              | 42         | 6.01-6.10+3                | c,             |           | P.          | e.  |
| 剩下的膜₽                         | 5.15-5.22             | ¢.        | 5.29 <sup>-6.08</sup>   | ¢          | 6.11-6.15                  | ¢,             | 3         | ą           | Ģ   |

本工程总工期为164个日历天,开工日期为2016年1月11日,竣工日期为2016年6月22日。~

6月10日到6月22日,防水、清理、调整、自检;6月20日到6月22日,组织人员验收、转交甲方。↔ 备注:此时间表在对应钢结构完成后才能进行↔

1. 在正常时间条件下(天气,用电等),工期内完成的时间节点表。→



Project Management Sheet

| 1       1016.3.15.       7       41 $2^{O16.5.26}$ $ F-1 ^2$ 2       2016.4.11       13       42 $2^{I16.5.26}$ $ F-1 ^2$ 3       2016.4.113       8       43 $2^{I16.5.26}$ $ F-1 ^2$ 4       2016.4.118       9       445 $2^{I16.5.27}$ $ F-1 ^4$ 6       2016.4.118       9       445 $2^{I16.5.27}$ $ F-1 ^4$ 7       2016.4.118       11       47 $2^{I16.5.28}$ $ F-1 ^4$ 8       2016.4.117       11       47 $2^{I16.5.28}$ $ F-1 ^4$ 8       2016.4.18       17       49 $2016.5.24$ $215$ 9       2016.4.18       17       49 $2016.5.24$ $216$ 0       2016.4.18       17       49 $2016.5.24$ $216$ 1       14       50 $214.5.24$ $216$ $51$ 1       14       52 $816.5.212$ $217$ 12       2016.4.12       18       50 $214.5.5$ $217$ 13       2016.5.3       1       56 $2016.6.5.5$ $21$   | 時  | 安装时间   | 膜材编号  | 备注   | 序号   | 安装时间  | 膜材编号  | 备注  |
|--|----|--|-------|------|------|---|---|-----|
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| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  | 4  | 2016.4.14  | 14    |      | - 44 | 2-16.t.27   | 12-14   |     |
| 7       2016.4.17       11       47 $246.5.28$ $F2/3$ 8       2016.4.17       15       48       2016.5.24       215         9       2016.4.17       15       48       2016.5.24       215         9       2016.4.18       17       49       2016.5.24       215         9       2016.4.18       17       49       2016.5.24       215         11       2.14       92       2016.5.24       214         12       2016.4.21       6       51       2016.5.24       216         13       2016.4.24       2       53       2016.5.2       212         14       2016.4.24       2       53       2016.5.5       217         15       2016.5.3       1       56       2016.6.5       217         16       2016.5.3       1       56       2016.6.5       217         18       2016.5.4       F5       59       2016.6.5       217         18       2016.5.4       F5       59       216.6.7       77         21       2016.5.12       21       60       216.6.13       F2         22       2015.5.12       21       62                                     | 5  |  |       |      | 45   |   |   |     |
| 8 $2016.4.17$ $15$ $48$ $2016.5.24$ $215$ 9 $2016.4.18$ $17$ $49$ $2016.5.24$ $218$ 9 $2016.4.18$ $17$ $49$ $2016.5.24$ $218$ 9 $2016.4.18$ $18$ $50$ $2016.5.24$ $218$ 11 $2016.4.24$ $50$ $2016.5.29$ $219$ 12 $2016.4.24$ $50$ $2016.5.29$ $212$ 13 $2016.4.24$ $2$ $531$ $2016.5.5$ $217$ 13 $2016.5.7$ $1$ $55$ $2016.5.5$ $217$ 14 $2016.5.7$ $1$ $56$ $2016.5.5$ $217$ 15 $2016.5.7$ $1$ $56$ $2016.5.5$ $217$ 16 $2016.5.7$ $1$ $56$ $2016.5.5$ $217$ 16 $2016.5.4$ $F5$ $59$ $2166.5$ $217$ 17 $2016.5.10$ $F10$ $60$ $216.6.13$ $F2$ 20 $1015.5.10$ $F10$ $60$ $216.6.13$ <td></td> <td>2016.4.16</td> <td>16</td> <td></td> <td>46</td> <td>2016.5.28</td> <td>1F-11</td> <td></td>   |    | 2016.4.16  | 16    |      | 46   | 2016.5.28   | 1F-11   |     |
| 9       20/b. 4. 18       17       49       20/b. 5. 24       2.18         0       20/b. 4. 18       18       50       20/b. 5. 29       219         1       21/b. 4. 24       6       51       20/b. 5. 29       219         1       21/b. 4. 24       6       51       20/b. 5. 30       22×1         12       10/b. 4. 24       5       53       20/b. 5. 5       212         14       20/b. 4. 24       2       53       20/b. 5. 5       212         14       20/b. 5.       217       16       55       20/b. 5. 5       217         15       20/b. 5.       217       17       56       20/b. 5. 5       217         16       20/b. 5.       2.17       35       20/b. 5.       217         16       20/b. 5.       2.17       35       20/b. 5.       217         17       20/b. 5.       3       1       56       20/b. 5.       217         18       20/b. 5.       1       57       20/b. 5.       217       35         20       20/b. 5.       10       F10       60       21/b. 5.       17         21       20/b. 5.       12       22 |    |  | 11    | 1    | 47   | 2465-28   |   | _   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  |    | and the second se  |       | -    |      | 2016.5.29   | the second se | _   |
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| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  |    |  | 4     | -    |      | A REAL PROPERTY AND ADDRESS OF  | 210   | -   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  |    | The Real Property in the Real  |       | -    | _    | 2011 1 -  |   |     |
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| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  |    |  | 5     | -    |      | 1016.00   |   | -   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  | -  | K. H. Z. Y.  |       |      |      | - 16 put  | 22  | -   |
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| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  |    | 20/6.5.12  |       |      |      |   | 'F3'  |     |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  | 24 |  | 23    | -    | 64   | 2016.6.15   | FL  |     |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  |    |  | 24    |      | 65   | 2016.6.17   | 3it   | 200 |
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| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  | 36 | 20/6.5.22  |       |      |      |   |   |     |
| $\frac{38}{20} \frac{2016.3.24}{5.24} \xrightarrow{33}{33}$  |    |  |       | 1    | -    |   |   |     |
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| 40 12316 13 6 15 33  | -  |  | ₹3    |      |      |   |   |     |
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## Project Management Daily

| 出版         2016年5月19日         天木         項         温度         35℃         常央(18225)           第二日の         八素         1         一日期         2016年5月19日         大木         項         温度         35℃         常央(18225)           1         一月期         八素         1         一月期         人素         1         第二日本         第二日本         1         第二日本         1         第二日本         1         第二日本         第二日本         1         1         第二日本         1  | ₩兴集团<br>YE XING GROUP | 深坊  | 川市烨兴  | 、膜结构工程有限公司       | ]      |            | 1   |      |                   |            |
|--|-----------------------|-----|-------|------------------|--------|------------|-----|------|-------------------|------------|
| 序号         作业享项         人数         总量         中日子         成整         分数         原用子         成整         日か         日か <t< td=""><td>贵港高铁站前雨槽工程工作日报</td><td></td><td>日期。</td><td>2019年5月19日</td><td>天气</td><td>晴</td><td>温度</td><td>35°C</td><td></td><td>有风(1级左右)</td></t<>   | 贵港高铁站前雨槽工程工作日报        |     | 日期。   | 2019年5月19日       | 天气     | 晴          | 温度  | 35°C |                   | 有风(1级左右)   |
| 1       加焊滿足图纸要求。       1       1.00%       50%       100%       50%       100%       五百二       五五二       新克元       王宝坤       第       3       第       第       第       第       第       第       第       第       第       第       第       第       1  |                       | 序号  |       | 作业事项             | 人数     | 2 <b>5</b> |     | (或百分 | 親余量(或<br>百分比%)    | 备注         |
| 並一方案、除物、补漆、喷漆         100%         10%   |                       | 1   |       | 雨棚3的1/2加焊        | 5      | 100%       | 10% | 90%  | 10%               |            |
| 3       11室、惊惊、作像、吹漆       5       100%       10%       30%       70%       管航         4       柳雨棚3 (1/2) 树根       5       100%       10%       35%       65%       100%       10%       35%       65%       100%       10%       35%       65%       100%       10%       35%       65%       100%       10%       35%       65%       10%       10%       10%       10%       35%       65%       10%  |                       | 2   |       | 对口、拼接雨棚3 (1/2)   | 4      | 100%       | 50% | 100% | 0 <b>1</b> 000000 |            |
| 4       納雨棚3 (1/2) 树权       5       10%       10%       35%       65%         5       5       1       10%       35%       65%         算工程另       夏星控制       第日计划         1       加焊满足图纸要求。       1. 排续附权       1. 拼续加权         3. 油漆干膜厚度满足图纸要求,无流珠。       1. 拼续放在下面辅助起吊框架       3. 打耍、除锈、补漆       1. 新漆干膜厚度满足图纸要求,无流珠。       1. 打耍、除锈、补漆         工程日报照片       安全员 賢航         「       「       「         工程日报照片       安全员 賢航         「       「       「         人机料与工期的造       人机料与工期的造   |                       | 3   |       | 打層、除锈、补漆、喷漆      | 5      | 100%       | 10% | 30%  | 70%               |            |
| 施工任务         反量控制         明日计划           両棚3加焊         1.加焊满足图纸要求。         2.焊接满足图纸要求。         2.拼接立柱下面辅助起吊框架           1. 加厚、除锈、补漆         3.油漆干膜厚度满足图纸要求,无流珠。         3. 打磨、除锈、补漆           工程日报照片         安全员         質航         填表责任人         王桂峰  |                       | 4   |       | 铆雨棚3 (1/2) 树权    | 5      | 100%       | 10% | 35%  | 6.5%              |            |
| 雨棚3加焊       1.加煤满足图纸要求。         1.加煤满足图纸要求。       2.焊接满足图纸要求。         2.焊接满足图纸要求。       3.打磨、除锈、补漆         打磨、除锈、补漆       1.加煤满足图纸要求,无流珠。         工程日报照片       安全员 曽航         人机料与工期的造       4.加料与工期的造   |                       | 5   |       | ¥9               |        |            |     |      |                   |            |
| Image: Proceeding of the ima |                       | 蘆   | 工任务   |                  | 质量控制   |            |     |      |                   | 明日计划       |
| 打磨、除锅、补漆     ************************************  |                       | 雨   |       | 2.焊接满足图纸要求。      |        |            |     |      |                   | 立柱下面辅助起吊框架 |
| 人机料与工期的适   |                       | 打磨、 | 除锈、补漆 | 3. 油漆十膜厚度满足图纸要求, | 九流坼。   |            |     |      | 3.                | 打磨、除切、竹鹬   |
| 人机料与工期的适   |                       |     |       |                  |        |            |     |      |                   |            |
| 人机料与工期的造<br>置情況         需要公司解決的问题         材料计划完成情况   | 工程日报照片                | 安全员 | 曾航    |                  |        |            |     |      | 填表责任人             | 王桂峰        |
|  |                       |     |       | 需要               | 公司解决的问 |            |     |      | 材                 | 料计划完成情况    |
|  |                       |     |       |                  |        |            |     |      |                   |            |



# Factory Daily Report

| 项目名称: 广西士、              | 学网球馆铜钴构  | カロユ  |
|-------------------------|--|--|
|                         | 2HJ-24. 2HJ-25- 79H  |  |
|                         | +3. 165×5. 封板.16   |  |
|                         | 图纸要求   | 实测结果   |
| 管内壁厚度:                  | 21925 8923. 16525. #186.26   | 21975. 16575.8983. \$740.26                                      |
|                         | > 247-22-25. 18177<br>Tang-12.7927. 7445-14-16.7727                | 21+5-23-2818180.245-24.18179.2432<br>TGH5-12-7927. Tart3-16-7727 |
| 7GH7-14-16.8m<br>外观结果:  | ""花"   | 光泽   |
| 刀割口类型:相贯线机              | 北京禄禄   | 眼线、21分、8多镜、一边水图奥线  |
| 刀割口类型:相贯线机              | 刃割/人工切割74%-あ <sup>3241</sup><br>次年                                 | 国民代、217.8多德、一边水园民线   |
| 刀割口类型:相贯线机;<br>旱接结果:    | 刀割/人工切割了G15-2032年1   | 国民线、21方、3多绪、一边水园展线   |
| 刀割口类型:相贯线机†             | 刃割/人工切割74%-あ <sup>3241</sup><br>次年                                 | 图线、217.8多绪.一边次图恩线  |
| 7割口类型:相贯线机1<br>焊接结果: }法 | 刀割/人工切割でいた-あ <sup>2244</sup><br>火身<br>底漆厚度: E 咳 むを 漆<br>中间漆厚度: 未 咳 | 国民代、217.8多隆.一边水园景线   |
| 7割口类型:相贯线机1<br>焊接结果:    | 刃割/人工切割でいっあうやれ<br>火身<br>底漆厚度: E 咳 山を漆                              | 回要线、27方.8多绪.一边水园展线   |



贵港项目工程周报



| 工程名称 | 费港市高速铁路客运站站前广场 | 1/J-T 轴工程项目 | 报告周期 2019年 3月 25日—2019年 4月1 |      |         |
|------|----------------|-------------|-----------------------------|------|---------|
| 项目地点 | 费港高铁站          | 项目经理        | 王桂峰                         | 报告单位 | 贵港高铁项目部 |

#### 1. 工期/进度分析

|    | 上周计划内容 | 计划完成情况 | 实际完成情况 | 影响项目原因  | 纠偏措施      | 本周计划内容        |
|----|--------|--------|--------|---------|-----------|---------------|
|    | 雨棚一吊装  | 完成 1/2 | 完成 1/2 | 场地受安全限制 | 晚上11点之后吊装 | 吊装剩余1/2, 防火涂料 |
|    | 雨棚二吊装  | 完成 1/2 | 完成 1/2 |         | 晚上11点之后吊装 | 吊装剩余1/2,防火涂料  |
| 施工 | 雨棚三    | 加工、焊接  | 100%   | 雨天      | 晚上加班      | 拼接            |
| 现场 | 爾棚四    | 加工,焊接  | 100%   | 雨天      | 晚上加班      | 拼接            |
|    | 雨棚五    | 加工,焊接  | 100%   | 雨天      | 晚上加班      | 拼接            |
|    | 雨棚六    | 加工,焊接  | 100%   | 南天      | 晚上加班      | 拼技            |

#### 2. 人材机供应统计及计划

| 材料名称 | 使用部位 | 上周计划进场量 | 本周计划进场量 | 劳动力工种 | 人数 | 大型设备   | 数量 | 备注     |
|------|------|---------|---------|-------|----|--------|----|--------|
| 天沟   | 雨棚五  | 1车      |         | 铆工    | 2  | 25T 吊车 | 1  |        |
| 油漆   | 防火涂料 |         |         | 焊工    | 17 |        | 8  | 現场等待油漆 |
|      |      |         |         | 管理人员  | 4  |        |    |        |

#### 3. 质量控制/文明施工情况

| 上周质量控制情况及本周质量控制要点                       | 上周文明施工情况及本周文明施工要点                               |
|---|---|
| . 上周重点, 总包生产例会强调安全: 进行吊车指挥手势交底。         | 1.上肩重点。总包生产例会强调现场电缆必须摆放整齐,注意设备用电规范              |
| . 本周重点: 吊车在吊构件时, 注意构件倾斜角度, 尤其是构件在人行通道上空 | 整改通知单【2019改9】, 绝缘手套, 电线挂杆                       |
| 注意过往车辆及人员的安全                            | 2.本 <b>周重点</b> : 班组长必须随时巡查, 电缆摆放整齐, 按规范做到一闸一设备。 |

#### 4.内业及相关资料

| 基述                     | 整体按照总包要求报审相关资料 |                |  |  |  |
|------------------------|----------------|----------------|--|--|--|
| 上周送审材料                 | 完成情况           | 本周计划送审材料       |  |  |  |
| 1.焊接检验批                | 己报总包,完成报审      | 1. 【2019】改9回复单 |  |  |  |
| 2.整改通知单【2019 改<br>678】 | 按时回复           | 2.化学锚栓报审       |  |  |  |
| 3.安全资料                 | 按时报审           | 3.铜板报审         |  |  |  |
|                        |                | 4.天沟油漆报审       |  |  |  |

| 5. | F | 周 | 天 | 气 | 南 | 况 |  |
|----|---|---|---|---|---|---|--|
|    |   |   |   |   |   |   |  |

| 面港 | 2019-03-31(星旭日) | 大雨   | 东北风 3-4级       | 27°C | 中面      |
|----|-----------------|------|----------------|------|---------|
| 奥港 | 2019-03-30(星龍六) | - 10 | <b>东风 1-2级</b> | 28°C | 小雨      |
| 意港 | 2019-03-29      | 阵雨   | 东风 1-2级        | 27°C | 多亚      |
| 調液 | 2019-03-28      | \$Z  | 國风 1-2级        | 28°C | PH (11) |
| 實港 | 2019-03-27      | 10   | 南风 1-2级        | 25°C | 多亚      |
| 奧港 | 2019-03-26      | 的問   | 慮风 1-2级        | 21°C | 多云      |
| 意思 | 2019-03-25      | 82   | 北风 1-2级        | 19°C | *2      |

#### 需要公司协助事项

1. 天沟, 油漆

2. 备用金

#### 上周施工形象图



Project Management Weekly report



Project Management Monthly Report









#### Company leaders came to the scene to supervise





## Construction work of membrane material under scorching sun



### Rushing to work in the rain





2019年9月

03:05

#### Still rushing for work late at night

MS.CHIC

THE BRETE !!

19 10



182 518 192

### **Project Implementation - Quality**







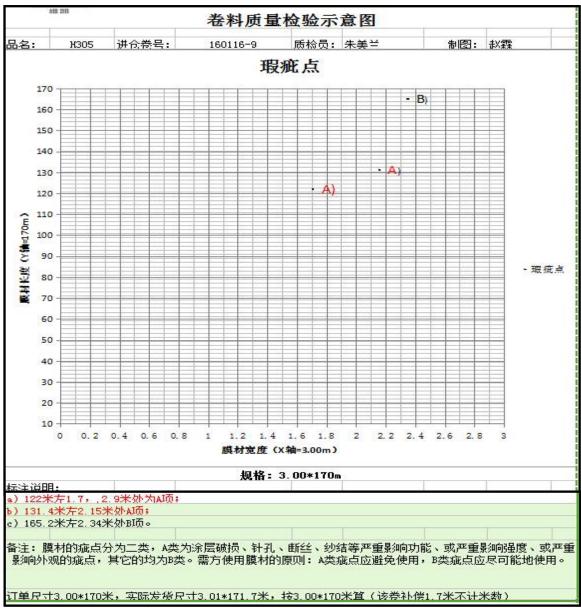






#### Membrane defect detection

#### **QA TESTING**









#### Membrane tensile test



### 膜材实验测试





#### Membrane tensile test

膜材抗拉力测试:

用专业的测试机检测膜材的抗拉力。

膜材 检测:

本项目膜材:

厚度: 0.65~1.0mm

经纬向抗拉强度:

6400/6000 N/5cm





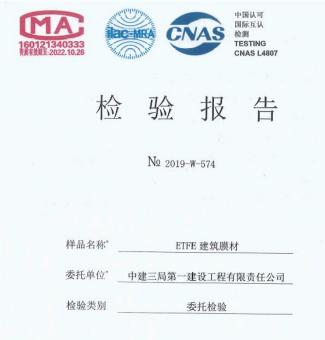


#### Membrane tensile test report

| Qualität<br>Baum Nr.<br>Farbe<br>Prüfer<br>Geschwindigkeit bis Prüfungse<br>Probenbreite | Prüfprotokoll<br>: B18059<br>: 1413255 A04<br>: 143<br>: Frau Schmitz/Frau Völkert<br>ande: 100 mm/min<br>: 50 mm | 28.11.2017  | Qualität       Baum Nr.       B18059         Baum Nr.       : 1413255 A04         Farbe       : 143         Prüfer       : Frau Schmitz/Frau Völkert         Geschwindigkeit bis Prüfungsende:       : 100 mm/min         Probenbreite       : 50 mm        | 28.11.2017   |
|--|---|---|---|--|
| Ergebnisse:  |   |   | Ergebnisse:   | (  |
| Legende  |   | weight with the second | Legende Nr R Fadenrichtung Bruchdehnun<br>1.1 7073,4 Kette 11,9   | %  |
|  | 1.1 8079,5 Schuß  | 6,8 Gewebe 3,96   | 1.1         7073,4         Kette         11,9           1.2         7172,1         Kette         12,0   | Gewebe 9,20<br>Gewebe 9,25                               |
|  | 1.2 8157,8 Schuß<br>1.3 8061,0 Schuß  | 6,7 Gewebe 3,94<br>6,7 Gewebe 3,98  | 1.3 7112,3 Kette 12,0   | Gewebe 9,25  |
| n = 3 N %<br>x 8032,8 6<br>s 63,1 0  | ehnung dL(2000 N)<br>5 %<br>7 3,96<br>0 0,02<br>7 3,93  | Verseidag-IndutextGmbH<br>10 ndtastriestr. 36<br>D-47803 Krefeld  | $\frac{1}{1000} + \frac{1}{1000} + \frac{1}{10000} + \frac{1}{10000000000000000000000000000000000$ | eidag-Indutex GmbH<br>ndustriestr. 56<br>1-47803 Krefeld |

烨兴集团 The owner and Yexing entrust a third-party inspection report

|               | 中国认可<br>国际互认<br>检测<br>TESTING<br>CNAS L4807 |  |  |  |  |
|---------------|---|--|--|--|--|
| 检             | 验报告   |  |  |  |  |
| Nº 2019-₩-571 |   |  |  |  |  |
| 样品名称"二        | ETFE 建筑膜材                                   |  |  |  |  |
| 委托单位"         | 委托单位" 深圳市烨兴膜结构工程有限公司                        |  |  |  |  |
| 检验类别 委托检验     |   |  |  |  |  |



北京市會









# ETFE Membrane structure aluminum profile processing





# ETFE membrane structure aluminum profile processing



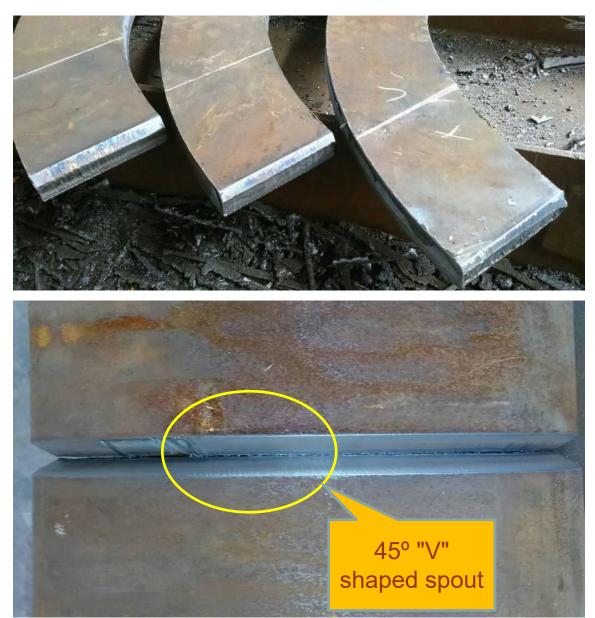




#### Intersecting line cutting section







#### Node Cut Criteria







## Processing standard of steel components





GL1-13

#### Processing standard of steel components





#### Processing standard of steel components

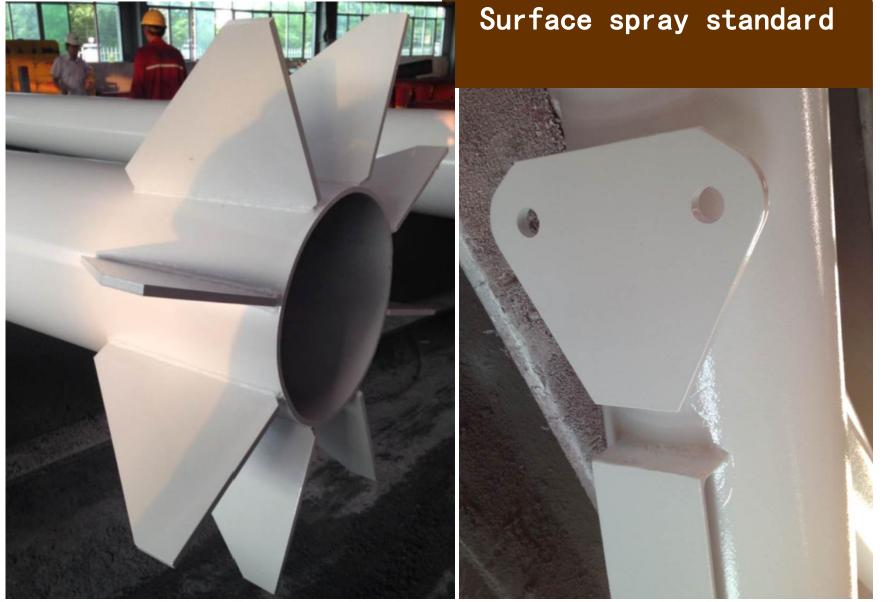




#### Sand blasting standard











#### Different Membrane Nodes







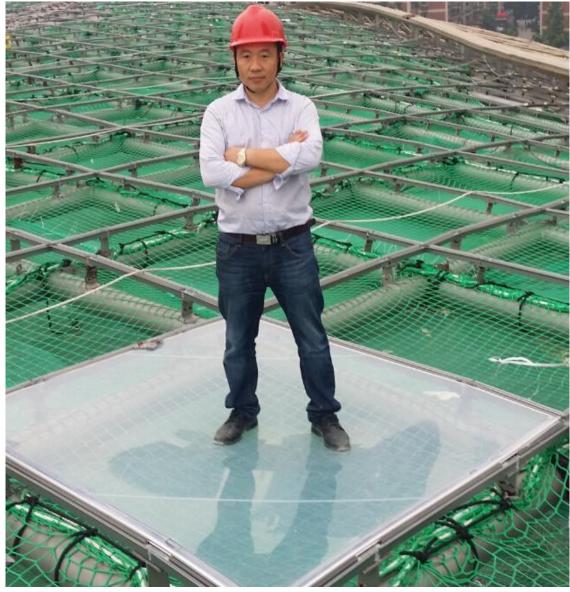
#### Different Membrane Nodes







# General Manager witnessed the film bearing













Invite German experts for technical exchange







#### Design Director Project Acceptance





#### **Internal Acceptance Results**

Project Name: Guiyang Cigarette Factory Membrane Structure Carport Project Area: 13500 Square meters Project Time: September, 2015~ March, 2016; Engineering Structure: tensioned cable-membrane structure; Engineering Steel: the combination of high-frequency welded pipe and seamless welded pipe of Q235B material specification, the service life is 50 years;

**Engineering Membrane Material: imported PTFE permanent membrane material, with a 20-year warranty.** 



182 518 192

### **05-Customer Testimonials**



## 表 扬 信

致深圳市烨兴膜结构工程有限公司:

由贵公司承接的上海浦东足球场膜结构项目,自开工以来,特别是抢节点期间,得到贵公司的高度重视和配合,在项目部全部人员的共同努力下,保质保量保安全地完成了节点目标。

在整个工程建设过程中,我司看到了贵司对本项目的全力投入,对安全生产的高度重视,项目经理和项目技术负责人对项目的严谨态度和工作热情,项目所有参建员工的拼搏精神。并为之感动。

在施工的关键时期,面对施工现场施工单位多,施工场地复杂,天气条件恶劣,吊装难度大,诸多不利条件,贵司领导多次亲临现场指导工作,协调各方面的资源,解决工程的各项困难,组织分配劳务资源。

贵司项目部在施工过程中,一直积极配合业主、我司、监理的安全管理监督 工作,在保证安全的前提下,全力推进工程进度并保证工程质量。保证无重大 安全事故和质量事故,是几家参建单位的标杆。

在此,我代表上海建工机施集团浦东足球场项目部对贵司浦东足球场项目管 理团队表示由衷的感谢。希望贵司一如既往地支持本工程建设,圆满完成后续 工作。

最后祝贵司事业蒸蒸日上,愿双方合作愉快。





信 表 初

致深圳市烨兴膜结构工程有限公司:

由贵司承建的贵港高铁站 ETFE 雨棚项目自开工以来,在贵司的高度重视和 配合,项目部全体人员的共同努力下,保质、保量、保安全地完成了节点目标。

在工程建设过程中,我方看到了贵司对本项目安全生产的高度重视。

在施工的关键时期,面对贵港高铁站进出口施工现场条件复杂、工期紧张、 施工难度大、周边环境复杂等诸多不利因素。贵司领导多次亲临现场指导工作, 积极协调各方、解决技术难题、组织分配劳务资源。

与此同时,贵司一直积极配合业主和我司的安全管理监督工作,在跟进进 度的同时严把质量安全关。不仅确保杜绝安全生产事故目标实现,也成为贵港 高铁项目有力保障,是参建单位的标杆。

在此,我代表中建三局一分公司公司对贵港高铁雨棚项目管理团队表示由 衷的感谢,希望贵司一如既往地大力支持本工程建设,继续发扬优良作风,圆 满完成后续工程。

最后祝贵司事业蒸蒸日上,愿双方合作愉快!





致深圳市烨兴膜结构工程有限公司:

5 2 1 1 2 2 9

在"中山公园门球场台风破坏修缮工程"项目的钢结构和膜结构 施工中,面对的工期紧张、场地受限、以及与其他班组交叉作业的问题,贵公司积极的应对,做出了合理的安排,和我方有效的沟通和协调,得到了很好的解决。

表扬信

在施工过程中保证了安全第一、严格把控施工质量关、按照我方 合同要求的施工工期、优质、高效、出色的完成了施工任务。得到了 业主和监理单位及我方的认可,且发扬了诚信履约的合同精神,在此, 予以表扬。

贵公司对我方工作的大力支持,在我方要求的时间节点内提前完
 工,为我方年前规划的施工任务赢得了宝贵的时间,我们深表感谢!
 希望贵司继续发扬优良专业的工作作风、诚信履约的合同精神。
 在此,特向贵公司各级领导、项目员工及全体施工人员表示衷心
 的感谢和真诚的问候。最后祝愿贵公司在新的一年更上一层楼、再接
 再厉、再创辉煌!





### 崇左市城市建设投资有限责任公司

崇城投函 [2018] 104 号

### 崇左市城市建设投资有限责任公司 关于广西壮族自治区第十四届少数民族传统 体育运动会成功举办的感谢函

深圳市烨兴膜结构工程有限公司:

广西壮族自治区第十四届少数民族传统体育运动会(以下简称"民运会")已于 2018 年 10 月 24 日在崇左市体育中心隆重开幕,10 月 30 日圆满闭幕。本次民运会是历届规模最大,参与人数最多的一届,也是崇左市成立地级市 15 年来举办自治区级别规模最大的一次盛会。在本届民运会开闭幕及比赛期间,体育中心各场馆及室外工程均经受住考验。供电、供水、照明、通风、建筑智能等重要设备系统均未出现重大故障,也未发生影响运动会进程的突发事件。这些成绩的取得,凝结了贵公司砥砺奋进、协力攻坚的心血和汗水。在此,我公司向贵公司的领导班子及员工表示衷心的感谢,您们辛苦了!

今年,正值我国改革开放40周年,广西壮族自治区成立60 周年,也是崇左市建市15周年。真诚期待各参建单位一如既往 地关心和支持崇左市体育中心项目的建设工作,我们将继续与贵 公司一起携手前行,力争完成各场馆的竣工、验收、交付等工作。



全力做好"两篇大文章",打好"四大攻坚战",奋力谱写崇左发 展新篇章。



崇左市城市建设投资有限责任公司办公室 2018年10月31日印发





### Customer of roof membrane structure in Sharm El Sheikh, Egypt

Comments: Yexing is an excellent onestop service of steel structure and membrane structure engineering design, production, construction, material and equipment procurement, and we are very satisfied with this cooperation. I hope Yexing company can have better development and updated design, and we will continue to cooperate in the future.





# Brunei Royal Clients

Comments: I am very happy to cooperate with Yexing Membrane Structure Co., Ltd. When I think about the first time I asked you to confirm cooperation, I was very worried and felt a great responsibility. I was afraid that our boss would not be satisfied. Now that the project is completed, everyone has responded very well, and the boss also Satisfied, I am relieved, thank Yexing Membrane Structure Co., Ltd.





### Ethiopian Saitan Construction Boss

Comments: We were introduced by a listed company in China, and then we found you. Of course, I also found other membrane structure companies in China, from Beijing to Shanghai, and then to Shenzhen. I feel that I am very sincere with you and do things very well. Practical, so I am very relieved to do this project for you, of course, this is just the beginning of our cooperation.....





# Mauritius customers

Comments: I am very grateful to Yexing for providing structural optimization for my spherical structure, which is more beautiful and effective in reducing steel consumption and installation. I am also happy to be a partner of Yexing to develop Mauritius, Nigeria and other West African markets.





#### Panama LANDSCAPE VISION Group

Comments: I am very grateful to Yexing for providing membrane materials and installation solutions for our stadium, which effectively reduces the cost and construction difficulty.



部分客户 SOME CUSTOMERS



























## General Manager's Vision

Yexing Membrane Structure---Started in 2007, it is a high-tech enterprise engaged in the research and development and design, processing and manufacturing, construction and installation, system maintenance, sales and service of membrane structures. Adhering to the technical and scientific management, coupled with the construction team and a rigorous style of work, so far, engineering projects have spread all over the world, and we are committed to improving the competitiveness of China's membrane structures in the world, making the world fall in love with China-made membranes.

In the years of common struggle, it was your support that enabled us to ride the wind and waves and develop at a high speed; in the magnificent market wave in the future, we still need your encouragement, and also need your opinions and support.



## Sincerely look forward to cooperation with you!



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