



ZHONGCHENGJINYU POLYMER BUILDING SYSTEM SOLUTION



Company Profile

Hubei Zhongchengjinyu Waterproof Technology Co., Ltd.

Hubei Zhongchengjinyu Waterproof Technology Co., Ltd. was established in March 2018. The predecessor of the company was Jingzhou Jinyu Waterproof Material Co., Ltd., which was established in June 2004. We always pursue high-quality and stable development, and extends our business from our main waterproof field to the related industrial chains. After nearly 20 years of intensive market development , we successively established Jingmen polymer synthesis series production base, coating series production base, spunbond polyester mat production base, Jinyu Scientific Research Center, Waterproof Engineering Limited Company., Wuhan Operation Center, etc.,which formed a high-tech group integrating R&D, production, sales, design and construction. And we focus on the promotion of polymer (TPO, HDPE) synthetic waterproof material series , various types of waterproof coatings for mechanized operations, high-quality modified bitumen waterproofing membrane series (SBS, APP, polymer, etc.), self-adhesive waterproofing membrane series, etc.; Our all product series are suitable for rail transit, water conservancy and hydropower, industrial and civil use Construction, municipal construction, petrochemical and other fields. After years of endeavor, we have established long-term friendly and stable strategic cooperative relations with many central and state-owned enterprises. Regarding the foreign trade, we have established close cooperation with more than 20 suppliers in the Middle East, Europe and Asia. We always adhere to competing by quality and developing by reputation. Through technological innovation and service upgrades, we have contributed the greatest value to building energy-saving, beautiful, safe and durable buildings.

Advanced polymer production line, comparable to international polymer membrane roofing systems

Hubei Zhongchengjinyu Waterproof Technology Co., Ltd., currently provides professional system services for the middle and high-end markets in the field of roof waterproofing as a leading enterprise of polymer waterproof materials in China.



Match GB standard



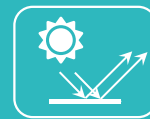
Suitable for solar energy



Match ASTM standard



Reroof and maintenance



High reflection



Excellent UV resistance



Accelerated aging test



High puncture resistance



Superior welding quality



High resistance to wind



Excellent overlap strength



High cost performance



Domestic top first-class production line

The extruder can achieve high speed (up to 1800rpm), and the high-torque configuration realizes a small machine with a large output, shortening the refueling time for customers, less maintenance difficulty, and lower labor intensity for workers; The small model with small screw capacity has less material loss, less water and electricity consumption; At the same time, the self-cleaning ability of the equipment is stronger, the washing machine material used for cleaning equipment can be saved by 75%, and the time of downtime for refueling can be saved by 80%; When the user purchases spare parts, the spare parts charges and maintenance costs borne by the user are less.

Screw clearance can be customized according to material characteristics

The design of equal clearance and screw clearance equal to the value of W&P solves the problems of uneven residence time, leakage and backflow of materials in the barrel for customers, realizes uniform distribution of material residence time, and ensures product quality. Stability and consistency make precise extrusion and stable extrusion possible; The smaller screw gap is subject to the gearbox, which is our biggest advantage over other domestic models.

The groove depth is wider than the value range

We have the ability to provide wider groove depth ratio D/d ; 1.33~2.0.

Diversification of screw components

The various functional components and mixed dispersing components independently developed by our company provide greater processing flexibility for various materials and processing techniques.

Unique barrel design and higher machining accuracy

With larger barrel shape, the surface area is larger, the volume is larger, the heating power is larger, and the enthalpy is larger. It can meet the heat required by high-yield materials, and the water channel design is also larger than that of ordinary extruders, the heating and cooling of the barrel is faster, and the material performance and quality are better guaranteed. For users who make transparent materials such as light diffusing PC, our barrel can be used as a mirrorless seamless barrel, the surface finish of the barrel is Ra0.2, the verticality between the inner holes of the barrel is $\leq 0.015\text{mm}$; 10 barrels are straight $\leq 0.05\text{mm}$;

Imported steel ball coupling

Using German origin steel ball coupling and torque limiter, when the extrusion system reaches the limit torque, the machine will automatically jump to protect the motor and transmission system from running within the specified load, and the quick reset system can reset immediately after the machine jumps. However most other domestic manufacturers are equipped with shear pin couplings. After the machine is tripped, the damaged shear pins need to be removed and replaced before the machine can be turned on. The downtime is long and the torque limit is inaccurate.

High rigidity frame

Different from other domestic extruders, the domestic extruder frame is welded with segmented steel plates. We are welded with integral steel plates. The rigidity of the frame is higher, which provides a higher guarantee for the stable operation of the equipment.

Adopting the most advanced double-sided gear symmetrical drive transmission technology in the world, it cooperates with first-line brand manufacturers in Germany and Japan (such as Corperi-on zsk series and STS series, Berstorff, Leicester, Leistritz, Toshiba, JSW, etc.) that use the the same transmission structure, the biggest advantage of this structure is to provide a long-term stable output guarantee of high precision and high torque, and its life span > 72000 hours; Compared with other domestic extruder manufacturers (including Henschel and Zhang Beiluo imported gearboxes) that use single-side drive parallel three-shaft transmission form, the output shaft runout of the double-side drive transmission structure will not change, and the output accuracy will not be attenuated, consistent output accuracy is guaranteed throughout the life cycle. The life of the parallel three-axis gearbox is about 20,000 hours, and the continuous wear caused by the force on one side always exists. With the increase of use time, the bearing wear becomes larger and larger, which leads to the continuous decline of the running accuracy of the output shaft, so that the screw is in the barrel. On the one hand, the service life is short, on the other hand, the running accuracy is gradually reduced, and the barrel wear is gradually increased. The advanced gearbox structure determines the service life and operational stability.

Batching equipment:

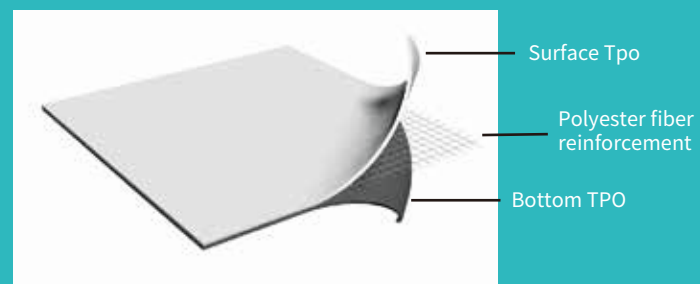
1. The output of the batching and feeding equipment covers a wide range, and can be configured within the range of 10KG/H-1500KG/H
2. There are many kinds of compounding materials, which can realize the compounding of 2-8 components
3. High precision of continuous feeding, 0.5% measurement accuracy can be achieved under stable operation
4. Special program design can realize batch automatic measurement compensation
5. Stable structure design to reduce the precision influence of host vibration
6. It can integrate its own conveying device to realize independent control process
7. Bridging problems that are not easy to occur with powder and elastomer pellets
8. Daige weightless scale adopts Siemens servo motor, which has wider feeding width and higher precision

Centralized feeding equipment

1. A wide range of applicable materials, including granules and powders can be used
2. Centralized management of materials to reduce problems such as manual material handling and pollution
3. Rich technical accumulation, providing super cost-effective European standard equipment
4. Perfect solutions, which can provide complete solutions for special problems such as moisture absorption and carding
5. The closed management system improves the overall environment of the factory, meets the requirements of various management systems, and enhances the company's image

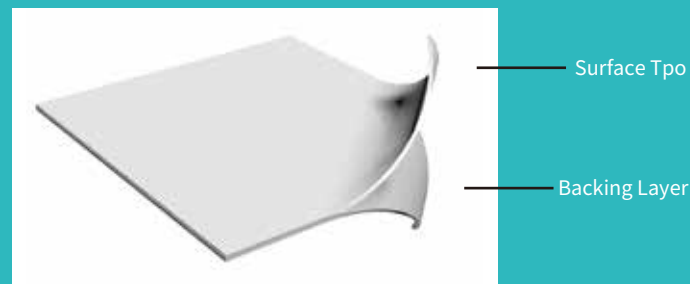


◆ P Type



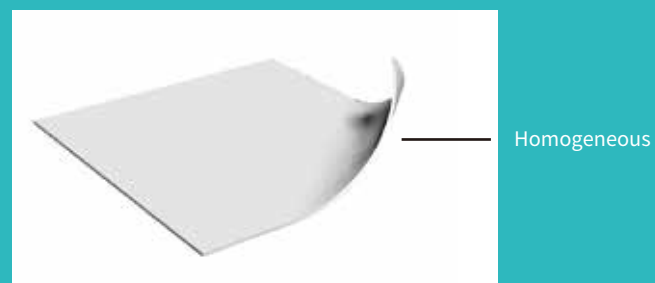
Reinforced P-type TPO waterproof membrane in the fabric, which is processed by 2-layer TPO sheet and polyester warp knitted fabric through extrusion and calendaring process. Mainly used in the waterproof layer of mechanically fixed TPO single-layer roof system.

◆ L Type



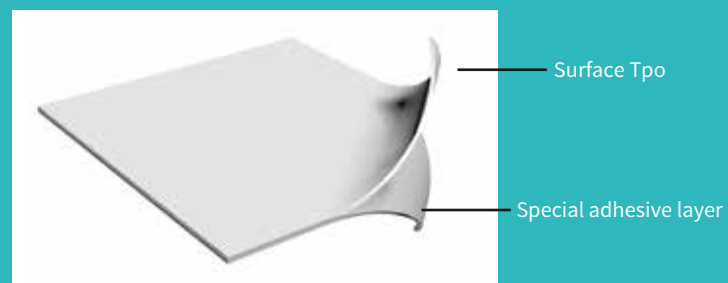
The L-type TPO waterproofing membrane with fiber backing is a thermoplastic polyolefin TPO waterproofing membrane which is compounded with a layer of polyester non-woven fabric on the back of the TPO sheet. Mainly used in TPO full adhesive roof system.

◆ H Type



Type H TPO waterproofing membrane is made of single-layer TPO sheet through extrusion and calendaring process. Mainly used in the detailed node construction of various TPO roofs.

◆ Repair self-adhesive type



The maintenance-specific TPO waterproofing membrane is specially developed for the maintenance of color steel roofs or concrete roofs. It is composed of TPO and a layer of special adhesive layer.

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PRODUCT DESCRIPTION

TPO WATERPROOFING MEMBRANE

TPO waterproofing membrane is a thermoplastic polyolefin waterproofing membrane made by polymerizing ethylene-propylene rubber and polypropylene through special blending technology, and adding antioxidant, anti-aging agent and softener. It combines the advantages of rubber and plastic polymer membranes.

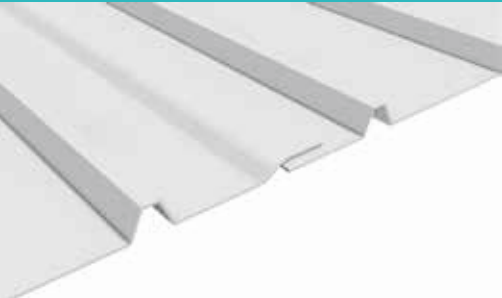


> Features of TPO Waterproofing Membrane:

	Excellent Aging Resistance
	High Sunlight Reflectivity
	Resistant to Root Puncture
	Excellent Weldability
	Adapt to the shape of the structure
	Excellent Low Temperature Flexibility
	Dimensional Stability
	Chemical Resistance
	Energy Saving and Environmental Protection

STEEL-PLASTIC COMPOSITE BOARD

The steel-plastic composite board is made of exposed TPO waterproofing membrane through special processing technology and galvanized steel sheet.

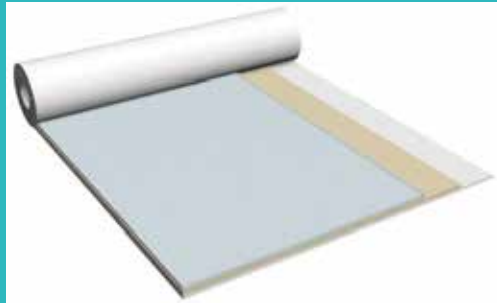


> Features of Steel-plastic Composite Board:

	Long Service Life
	Hardness with Softness
	Detailing Flexibility
	Customized
	Easy to Construct
	High Sunlight Reflectivity
	Excellent Low Temperature Flexibility

POLYMER SELF-ADHESIVE MEMBRANE

This membrane is a waterproofing material specially developed for the second part of building waterproof pre-laying. The membrane is composed of polymer sheet, polymer self-adhesive film, and waterproof layer. It is a non-bitumen-based polymer pre-laid waterproofing membrane developed to realize the integration with the concrete structure.



> Features of Polymer Self-adhesive Membrane:









	Reliable Quality
	Reduction of Erection Time
	Simple System with Low Cost
	Safety and Environmental Protection

PRE-LAID TPO

Technical advantages: The surface coating can be controlled by sub-regional coating, and two kinds of pressure-sensitive adhesives and thicknesses with different prices can be realized on the surface of the finish adhesives, which reduces the production cost.



> features of pre-laid tpo:

	Cost-effective
	Reliable Quality
	Safety and Environmental Protection
	Excellent Weldability
	Adapt to Shape of Structure
	Excellent Low Temperature Flexibility
	Dimensional Stability
	Chemical Resistance

NEW ROOF SYSTEM

EXPOSED SYSTEM

"Exposed System" means a roofing system with no other structural layers or laminates above the roof waterproofing. This system is often used in large-scale light steel roofing projects such as industrial plants, passenger stations, and logistics warehouses.

- ☑ The excellent aging resistance of the polymer membrane greatly increases the service life of roof waterproofing
- ☑ The high sunlight reflectivity of the light-colored polymer membrane effectively reduces the energy consumption of the building and is more energy-saving and environmentally friendly.
- ☑ When waterproofing rolls are exposed to use, it is convenient for inspection, maintenance, and maintenance, and the cost is low.
- ☑ Roof waterproofing, thermal insulation, vapor insulation, sound insulation integrated system design and construction.

Exposed roof systems include mechanical fixing systems, full-bond systems, steel-plastic composite board system.



NON-EXPOSED SYSTEM

"Non-exposed system" refers to a roof waterproofing layer with a laminate or other structure on it. Build a layered roof system. The system is often used in large airports, stadiums, rooftops Garden, etc.

- ☑ It can reserve the texture of the metal roof can be preserved and the waterproof layer can be effectively protected.
- ☑ It has excellent waterproof performance of flexible polymer membrane.
- ☑ It has excellent physical root resistance performance.
- ☑ Roof gardens reduce the building heat island effect and increase the aesthetics of the building fruit.

Non-exposed roof systems include metal enclosure systems and planted roof systems.



REROOF SYSTEM

METAL REROOF SYSTEM

For metal reroof projects, the old reroof system using single-layer polymer membrane repair:

- ☑ Improve roof system function.
- ☑ Extend the life of the roof.
- ☑ Does not damage the original roof structure, does not affect normal production or use.
- ☑ Improve roof aesthetics.

Metal reroof systems include mechanical fixing systems, full-bond systems, and steel-plastic composite board systems.



CONCRETE REROOF SYSTEM

For concrete reroof projects, the old reroof system using single-layer polymer membrane repair:

- ☑ Improve roof system function.
- ☑ Reduce the demolition and garbage removal of the original roof.
- ☑ lower maintenance costs.
- ☑ Great effect after refurbishment.

Concrete reroof systems include mechanical fixing systems and full-bond systems.



UNDERGROUND WATERPROOFING SYSTEM

UNDERGROUND WATERPROOFING SYSTEM

For non-exposed use of industrial and civil building roofs, underground waterproofing projects and municipal infrastructure and other waterproofing projects:

- ☑ Excellent chemical resistance
- ☑ High sealing reliability
- ☑ Good construction performance
- ☑ Great Root puncture resistant
- ☑ Environmental friendly

Suitable for non-exposed use of industrial and civil building roofs, underground waterproofing projects and municipal infrastructure and other waterproofing projects.



CONCRETE REROOF SYSTEM

SOLARENERGY SYSTEM

This system is often used in human-shaped light steel roofing projects such as industrial plants, passenger stations, and logistics warehouses.

- ☑ Fully integrated
- ☑ Fully compatible
- ☑ High impermeability
- ☑ Safety

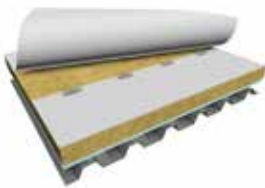
Make the most of roof space
Single-layer roof system with the same life as photovoltaic installations
Simple and reliable detail nodes
Complete waterproof system, together with photovoltaic panels to build a complete photovoltaic roof system



EXPOSED SYSTEM



Mechanical Fixing System



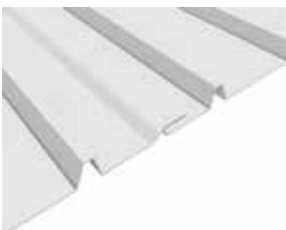
- ☑ The most feature-rich roofing system
- ☑ Easy to construct
- ☑ The inner reinforced rolls have excellent wind resistance
- ☑ Construction is less affected by weather

Full adhesive system



- ☑ Fits the original roof shape
- ☑ Flat and beautiful roof
- ☑ No damage on the original roof
- ☑ Fast construction

Steel-plastic Composite Panel System

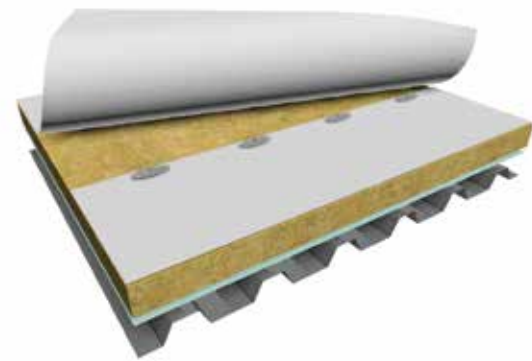


- ☑ Customized
- ☑ Construction is less affected by weather
- ☑ Simple and fast construction
- ☑ Improve the service life of metal roofing

Mechanical fastening system:

Using special fixing parts to fix the TPO waterproofing on the roof at the grass-roots level, using fixed parts and basic drawing force to resist wind load, coil complete waterproof layer, are formed by hot air welding and associated with thermal insulation layer, such as steam insulation layer structure roofing system composed of layers.

> metal roof plate base:



> system advantage:

- > Waterproofing membrane exposed to use with superior weather resistance
- > Waterproofing membrane has excellent flexibility at low temperature
- > Rapid and reliable construction, less affected by weather
- > Predictable, Controlled Construction Methods
- > Reasonable system design can effectively avoid the condensation and condensation phenomenon
- > Light-colored roof, more energy saving and environmental protection
- > Roof detailing is easy and reliable
- > Easy to repair and maintenance cost is low

> Material selection:

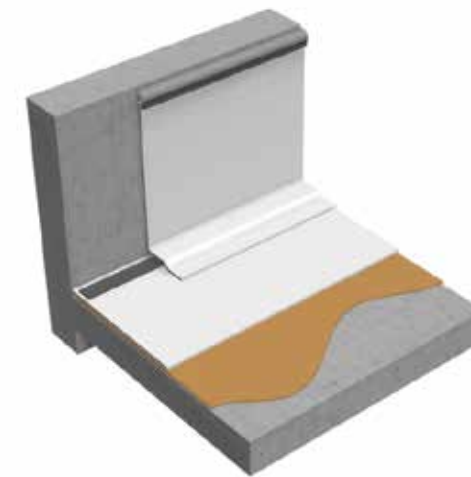
TPO P type waterproofing materials, fixed gasket, sleeve, screws, etc.

> Construction process:

Basic cleaning, positioning and put line → Vapor barrier laying, bonding → Heat preservation layer laying and fixing → Waterproof layer laying and fixing → fixed Details → self-checking → Completion acceptance → project handover

Full adhesive system:

The special adhesive TPO waterproofing membrane is fully adhered to the roof base layer, It utilizes the bond strength of the adhesive to resist wind loads. The waterproof layer of the waterproof membrane is completed by the hot air welding process, And with insulation, water barrier composed roof system.



> System Advantage:

- > Waterproofing membrane exposed to use with superior weather resistance
- > Waterproofing membrane has excellent flexibility at low temperature
- > Suitable for all kinds of roof shape
- > Light-colored roofing and high reflectivity
- > Roof detailing is easy and reliable
- > Easy to repair and maintenance cost is low

> Material Selection:

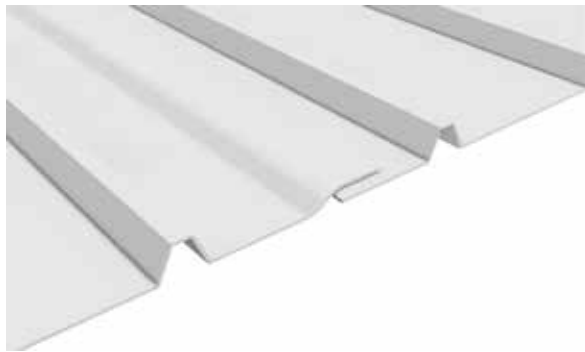
TPO L waterproofing materials, H waterproofing materials, adhesives, etc.

> Construction process:

Basic cleaning, positioning and put line → Pre-laid waterproofing membrane → brushing adhesive → bonding, welding → compaction → fixed Details → self-checking → Completion acceptance → project handover

Steel-plastic composite panel system:

Using steel-plastic composite panels used as roof plate exposure of roofing system.



> system advantage:

- > Compared with single-layer sheet metal roof, the service life is greatly improved
- > Roof Detail Treatment Flexibility
- > Effectively reduce the level of traditional single-layer roof structure
- > The size of the steel-plastic composite panel can be customized
- > No risk of leakage from rigid lap joints
- > Rapid and reliable construction
- > construction period is short

> material selection:

Steel-plastic composite panel (new construction), steel-plastic composite panel flat plate, TPOH waterproofing materials, fixed and so on.

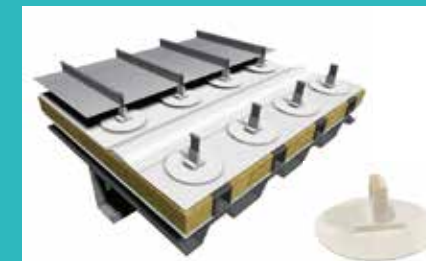
> material selection:

Steel wire mesh installation → Steel-plastic board layout, positioning → Heat preservation layer laying and fixing → Steel-plastic plate fixing → waterproofing membrane welding of lap joints → Ventilation, lighting equipment installation → fixed Details → self-checking → Completion acceptance → project handover

NON-EXPOSED SYSTEM



Metal enclosure system:



- ☑ Retains the shape and texture of the metal roof
- ☑ The waterproof layer of the polymer membrane is good, and the overall waterproof performance reduces the leakage risk of metal roof nodes

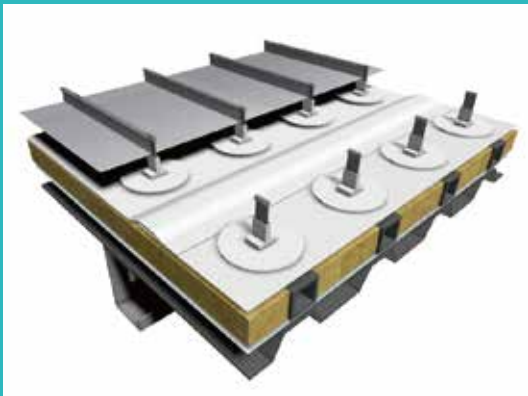
Planting system:



- ☑ Improve the urban greening rate and enhance the aesthetics of buildings
- ☑ The physical root resistance type of the polymer membrane can effectively solve the problem of root puncture

Metal Fence System:

Top Waterproofing Membrane is a waterproofing system installed between the metal roof panel and the roof support structure



> System advantage:

- > Retain the texture of metal roof
- > Excellent waterproof performance of flexible polymer membrane
- > Integrate the advantages of metal rigid roofing and flexible membrane roofing
- > Solved the problem of leakage of metal roof joints

> Material selection:

TPO P class, L class, H class waterproof membrane, U-shaped bead, closing bead, etc.

> Construction process:

Inner laminated metal plate installation → vapour barrier laying, bonding, layout, fixing → Heat preservation layer laying→Waterproof layer laying → Bracket fixation→Detailed treatment→Self-inspection → sub-item acceptance→Outer laminated metal plate installation→Completion acceptance → project handover

Planting system:

As a root puncture-resistant waterproof layer, TPO waterproofing membrane is laid empty on the ordinary waterproof layer below, and then forms a system with related structural layers such as the upper drainage (storage) layer, filter layer, planting soil layer, and vegetation layer.



> System advantages:

- >Excellent physical root resistance performance
- >Easy to identify and use
- >Improve urban green coverage
- > Slow down the "heat island effect"
- >Reduce air pollution
- > Save energy
- >Retain rainwater
- >Extend the life of the building
- >Improve the ecological environment and beautify the urban landscape

> Material selection:

TPO H type/self-adhesive waterproofing membrane (root blocking type), TPO H type waterproofing membrane, U-shaped bead, closing bead, etc.

> Construction process:

Base cleaning→Construction of ordinary waterproof layer→Detailed treatment→Self-inspection →Laying and welding of root puncture-resistant waterproof layer→Detailed treatment →Self-inspection →water storage test → laying of protective layer → laying drainage (storage) water board → Laying of filter layer→ filling with planting soil →vegetation planting

METAL REROOF SYSTEM

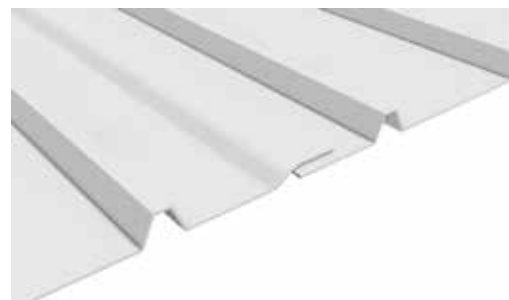


Metal Reroof
full adhesive system



- ☑ Can be closely fitted with the original roof shape
- ☑ Do not destroy the original roof structure level

Metal Reroof
Steel-plastic composite panel system



- ☑ Convenient and fast construction
- ☑ Less affected by weather conditions

Metal Roof Refurbishment full adhesive System

On the old roofing metal plate, the TPO waterproofing membrane is fully adhered to the original old roofing metal plate with special adhesive, and the adhesive force of the adhesive is used to resist the wind load, and the roll is welded by hot air to form a complete waterproofing layer roofing system .



> System advantages:

- >Excellent weatherability for exposed coil use
- >Do not damage the original roofing metal sheet
- >Roof detailing is simple and reliable
- >Light-colored roof, high reflectivity
- >Suitable for all kinds of roof shapes
- >Smooth and beautiful surface

> Material selection:

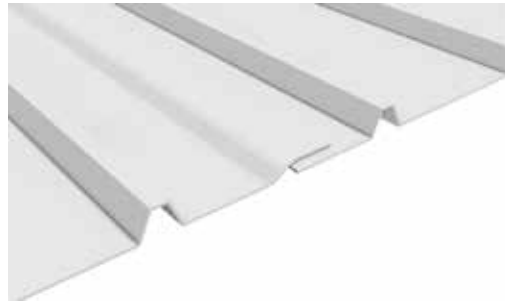
TPO L type waterproofing membrane, TPO H waterproofing membrane, adhesive, etc.

> Construction process:

Base cleaning and cleaning → treatment of raised parts such as nail heads → roof ridge treatment → removal of steel plate protruding from the gutter → pre-laying of waterproof layer → application of adhesive → waterproof layer bonding → compaction → welding → detailed treatment → self-inspection → completion acceptance → Project handover

Metal reroof steel-plastic composite panel system

This reroof system is to lay steel-plastic composite panels on the original roof purlins



> System advantages:

- > Detailed treatment flexibility, Simple structure and quick construction
- > Does not damage the original roofing metal sheet.
- > The Size of steel-plastic composite panel can be customized

> Material selection:

New Steel-plastic composite panel , steel-plastic composite panel flat plate, TPOH waterproof membrane, fixing parts etc.

> Construction process:

Determine the model of the steel-plastic plate according to the original metal plate → Mold and Make the steel-plastic composite panels → Clean and wash the ground → Do the treatment of raised parts such as nail heads → Do the treatment of Original roof panel → Original roof ridge plate treatment → Cut off the protruding part of the gutter → Lay on the steel-plastic composite panels → Fix and weld the major surface → Nail head covering treatment → Detailed treatment of gutter, rhino ridge, etc → inspection → Completion → Project handover

CONCRETE REROOF SYSTEM



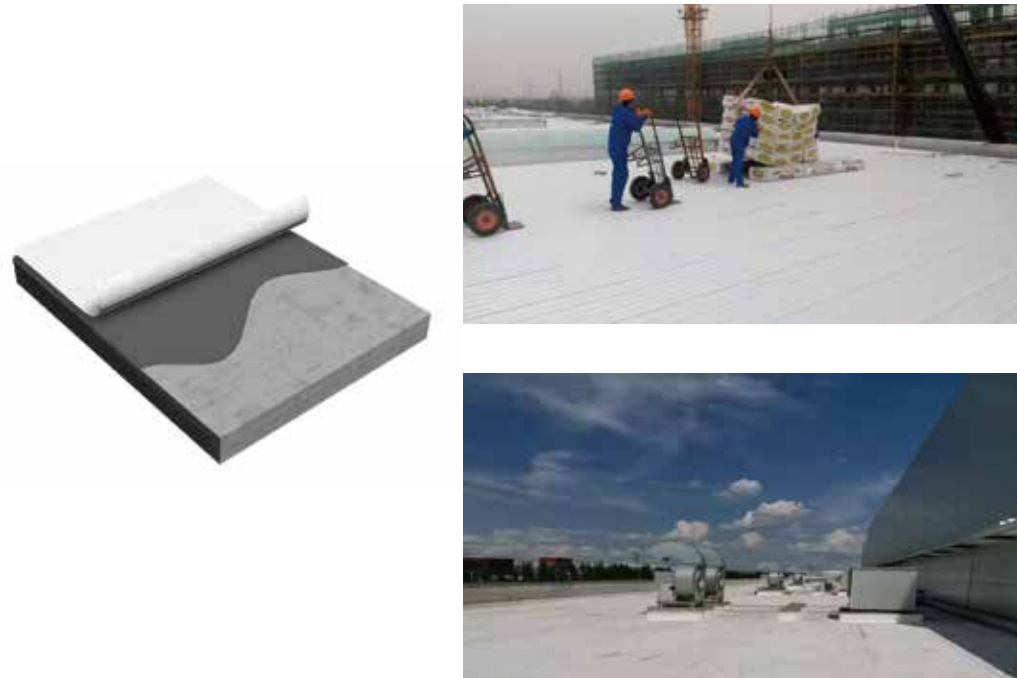
Concrete reroof full adhesive system



- ☑ It can closely fit with the original roof shape
- ☑ It does not destroy the original roof structure level

Concrete reroof full adhesive system

This system is to stick waterproofing membrane to the original roof base layer fully with special adhesive, and the adhesive force of the adhesive is used to resist the wind load, the self-adhesive waterproof membrane is welded by hot air to form a complete waterproof layer.



> System advantages:

- > Excellent weather resistance when the membrane exposed to Sunshine
- > The light colored-roof with high reflectivity of sunshine
- > The membrane has excellent performance of low temperature and flexibility.
- > Roof treatment is simple and reliable
- > Suitable for all kinds of roofing shapes
- > Smooth and beautiful surface

> Material selection:

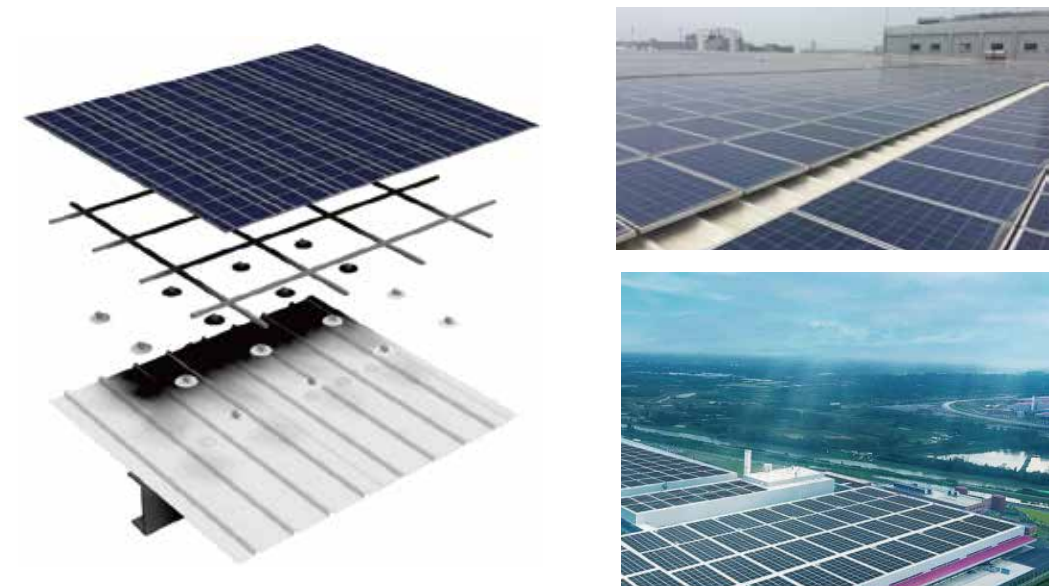
TPO L, self-adhesive waterproof coiled materials, adhesives, etc.

> Construction process:

Clean and patch-up the base → pre-lay the membrane → adhesive coating → weld the seam → Compact → detail treatment → inspection → Completion → Project handover

PHOTOVOLTAIC ROOF SYSTEM

> BAPV



> System advantages:

Make the full use of roof space

The photovoltaic roof system can effectively use the roof space of the building and use solar photovoltaic technology to generate electricity to achieve the purpose of energy saving and emission reduction.

A single-layer surfaced system with the same lifetime as a photovoltaic device

The polymer membrane in the single-layer roof system has excellent aging resistance, which can match the overall service life of the roof with the service life of photovoltaic modules.

Reliable between detail nodes

The detailed nodes of the photovoltaic roofing system use special prefabricated parts, such as photovoltaic support prefabricated parts, bridge box support prefabricated parts, etc., which can be welded with Membrane by hot air to form a complete waterproof & photovoltaic roofing system.

> Construction process:

TPO P-type, TPO L-type, TPO H-type waterproof membrane, accessories, etc.

BIPV



- >Good surface flatness
- >Light weight with ventilation cooling system
- >25 years product warranty
- >Hot air welding or mechanical connection, no structural adhesive installation aging problem
- > Strong anti-hail ability

The 25-year waterproof service life of TPO polymer roofing membrane solves the problem and makes the overall solution more perfect.Many roofs that has been unable to install photovoltaic power generation due to aging, rust and water seepage and so on problems,now only needs to cover a layer of TPO waterproofing membrane on the roof to finish the installing work realizing non-stop production and non-stop stop work.The fully paved TPO membrane ensures a 25-year waterproof service life for the roof, and also provides an installation platform for photovoltaic power system.Directly use the self-contained TPO coil to weld it to the full roof. Hot air welding is a commonly used method for fixing polymer membrane roofs.This welding method has strong connection strength, durability, wind resistance and tear resistance are not a problem at all.

MAIN SYSTEM ACCESSORISE

VAPOR BARRIER

The vapor barrier layer refers to a layer of air-tight and water-tight protective material placed between the thermal insulation board and the base layer in order to prevent indoor water vapor penetrating into the thermal insulation layer.



PE vapor barrier Membrane

- The main components are polyethylene and polyene
- Low water vapor transmission
- Excellent tear resistance



Polypropylene vapor barrier Membrane



Asphalt self-adhesive vapor barrier Membrane

- The main components are polyethylene and polyene
- The main composition is polymer membrane, asphalt self-adhesive
- Low water vapor transmission
- Can be used on the base layer
- Sunscreen and anti-wrinkle, not easy to bulge and blister

INSULATING LAYER

For the materials that are placed on the roof and have the effect of thermal insulation inside the building, the parameters and specifications of the thermal insulation layer material must meet the relevant roof specifications and building energy-saving design requirements.



Rock wool board

- Basalt as the main raw material, after high temperature Melt process into inorganic fiberboard
- Combustion class A is non-combustible and has excellent fire resistance
- Large bulk volume and low thermal conductivity



XPS extruded polystyrene board

- Extruded hard quality foam board
- Combustion grade B1 is incombustible and has good fire resistance
- Small bulk density and low thermal conductivity
- High compressive strength

FIREPROOF BOARD

The non-combustible covering layer of B1 and B2 thermal insulation materials can effectively improve the smoke control performance of the roof system.



Glass magnesium fireproof board

- The main components are magnesium oxide, inorganic materials, etc.
- Excellent fire resistance, high strength, waterproof and moisture-proof



Cement pressure plate

- The main ingredients are natural fibers and cement
- Excellent fire resistance, high strength, waterproof and moisture-proof

FIXING PARTS

List and use of Fixing gaskets, Sleeves, Anchor Bolts, and Screws

Classification	material texture	Select use of Fixing Washers, Sleeves, Anchor Bolts, and Screws	
Screws			
insulating layer	soft texture	<div>Sleeves</div>	<div>square gasket</div>
	hard texture	<div>D60 Gasket</div>	<div>D40 Gasket</div>
Fireproof board	soft texture	<div>D40 Gasket</div>	<div>D60 Gasket</div>
	hard texture		
Waterproof layer	soft texture	<div>Zinc-plated toothed gasket</div>	<div>Membrane Sleeve</div>
	hard texture	<div>C-type gasket</div>	<div>Membrane Sleeve</div>
Non-perforated gasket	soft texture	<div>TPO gasket</div>	<div>PVC gasket</div>
	hard texture	<div>TPO gasket</div>	<div>PVC gasket</div>

OTHER ACCESSORIES

walkway board

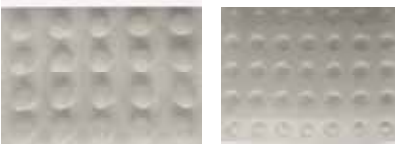
It is used for installation and maintenance of equipment on the roof.



- 1.Can be welded together with roofing membrane
- 2.Simple and convenient installation

Drain (storage) water board

A structural layer wich can drain excess water from the planting soil (or has certain water storage function).



- 1.Generally used for planting roof drainage (storage) water layer
The drainage effect is obvious, and it has a certain waterproof and anti-plant root thorn effect

filter material

Materials that prevent loss of plant soil and facilitate water infiltration.



- 1.Generally used for planting roof filter layer
- 2.Polyester non-woven fabrics should be used

closing bead

Metal bead for fixing at the end of flat façade Membranes.



The material is generally aluminum alloy

welding wire

To prevent the upward load on the roof caused by the wind, point fixing
Fixed-line fixed dispersing rope with uniformly dispersing single nail load
The material is generally aluminum alloy



1. The material is PVC, TPO and can be welded with the coil
2. Use with U-shaped bead

adhesive tape

Material used for vapour barrier bonding or when the joints of Membranes ls are dense.



Butyl tape

- 1.Mainly used for the overlapping part of the vapor barrier film
- 2.High bonding strength and tensile strength



Polymer self-adhesive tape series

1. Excellent adhesive properties, including: initial adhesion, sticking bit sealed connection
2. The material is extremely soft, and it is easy to achieve in easily shaped-parts obedient and dense

U-shaped bead

The metal bead for fixing the coil at the periphery and the parts that need to be strengthened.



The material is generally galvanized steel plate

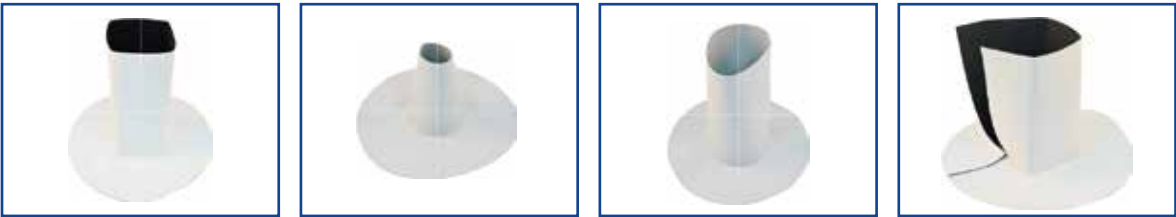
PREFAB

The coil components, which are processed and formed in the factory in advance, can be directly transported to the site for installation and welded with the coil.

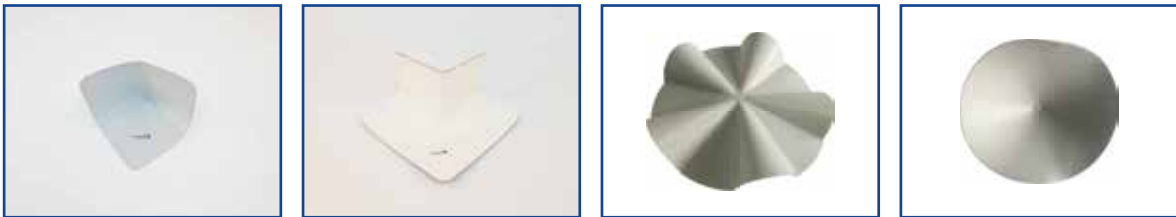
> Lightning strip prefabs



> Roofing through prefabricated parts



> Roofing through prefabricated parts



> Vent hole prefabs



> Downspout Prefabs



MAIN INSTALLATION TOOLS



Hand-held welding gun, pressure roller



Automatic crawling welder



Electromagnetic induction welding machine, cooling suppressor



Facade welding machine

REFERENCE CASES



Beijing AVIC engine plant PVC screen repair project



Dalian High Performance Rupture Disc Manufacturing Expansion Project



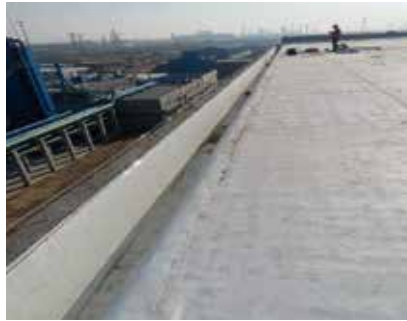
Shanghai Marine Crankshaft Plant Project



Yibin Paper Factory Project



Xi'an Changqing Oilfield Activity Center Project



Chongqing Free Trade Zone Exhibition Hall



Shenzhen Donghai Aviation Base Hangar Project



Huayang High Performance Rupture Disc Manufacturing Expansion Project



Shenyang BMW Automobile Supporting Plant Project



Guangzhou Kengkou Metro Project



Qingdao Jiaozhou Riverside China Resources Project



Yunnan Chuwei Pipe Gallery Project



Chongqing Junyi Hotel Project



Beijing Daxing Hospital Project



Shenyang RT-Mart Supermarket Changzhi Store Project



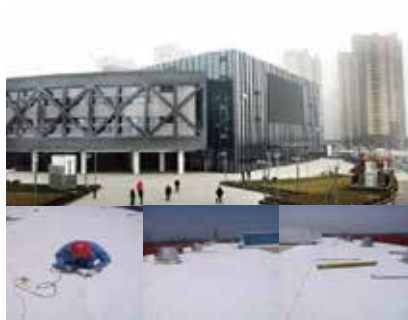
Fujian Jinfengshan Pipe Gallery Project



Dalian Zhoushuizi Railway Station



Shandong Tianlong Roof Maintenance



Shanghai Aviation Fuel Laboratory Project



Dalian Pingtian Chemical Co., Ltd. Project



Chongqing Third Military Hospital Project



Shenzhen University Town Roof Maintenance



Jilin Dunhua Cannonball Ditch Project



Xinjiang Dabancheng Wind Power Plant Roof Maintenance