

河北固得

环保设备有限公司

**Hebei GuDe Enviromental
Protection Equipment Co., LTD.**

FRP TANK

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FRP PIPE

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FRP TOWER

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FRP PROFILES

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FRP GRATING

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FRP Products for Sewage treatment Flue and
Gas Treatment Equipment



Hebei GuDe Enviromental Co., LTD.
www.jzgude.net



FRP Grating 玻璃钢格栅



FRP grating has become an ideal substitute for traditional metal gratings due to its excellent corrosion resistance, high strength, light weight and long life. As a professional FRP grating manufacturer, we provide a variety of specifications and customized services, suitable for chemical, electric power, shipbuilding, construction and other fields. If you need to know more about the price, model and installation method of FRP grating, please consult!

Choose thickness according to load-bearing requirements: light load (25mm), medium load (38mm), heavy load (50mm).

Consider the corrosive environment: choose a resin type that is resistant to acid, alkali and salt spray.

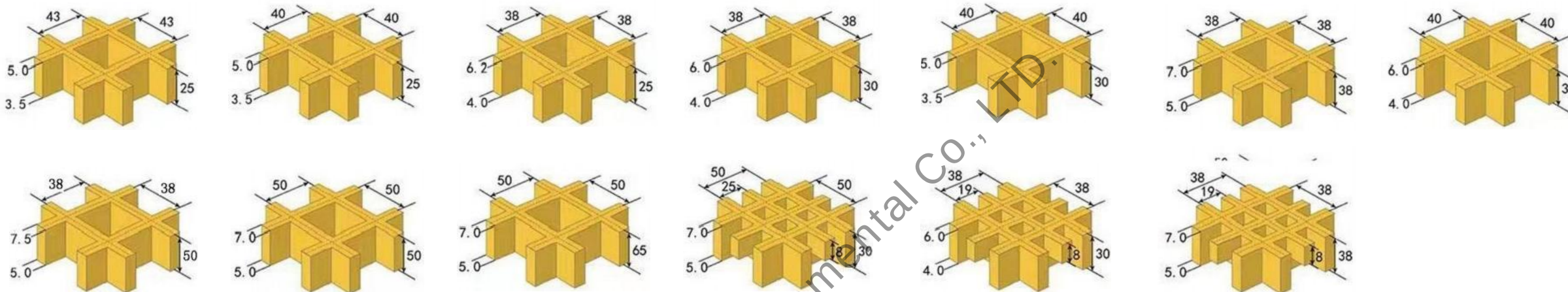
Anti-slip requirements: choose a sand surface or patterned surface treatment.

Color and aesthetics: choose the right color according to the use environment.



Product Size and Parameters of FRP Grating

玻璃钢产品尺寸及参数



Product specifications and services of FRP grating

1. Common specifications

Grate size: common 1220×3660mm, 1000×4000mm, etc., can be customized.

Grate thickness: 25mm, 30mm, 38mm, 50mm, etc., optional for different load-bearing requirements.

Grid size: 19×19mm, 38×38mm, 50×50mm, etc., affecting drainage and anti-slip performance.

Color selection: yellow, green, gray, red, etc., corporate colors can be customized.

2. Customized service

Provide special-shaped cutting, punching, edging and other processing services.

Support special resin formulas (such as high temperature resistance, flame retardant, UV resistance, etc.).

Provide installation guidance and after-sales maintenance support.

Thickness (mm)	Single Grid Size (mm*mm)	Length*Width (mm*mm)
25	43*43	1001*4036
25	40*40	1007*3007
25	38*38	1220*3660
30	38*38	1220*3660
30	40*40	1220*4025
38	38*38	1220*3660
38	40*40	1007*3007
50	38*38	1220*4000
50	50*50	1220*3660



Whole board concentrated load uniform load data table 整板集中负载均布负载数据表

Grid Size 40*40*40mm Plate Size 1007*3007mm

Support distance(mm)	Center load KGS width 90cm	Deformation(mm)	Uniform load KG/SQM
1000	558	6	860
900	690	6	1172
600	2137	8	5830

Grid Size 40*40*25mm Plate Size 1007*3007mm

Support distance(mm)	Load under 1% deformation of the whole plate center load (KGS)	Uniformly distributed load at two points with 1% deformation (KGS/SQM)
250		
500	830	5200
750	460	1270
1000	305	492

Grid Size 38*38*38mm Plate Size 1220*3660mm

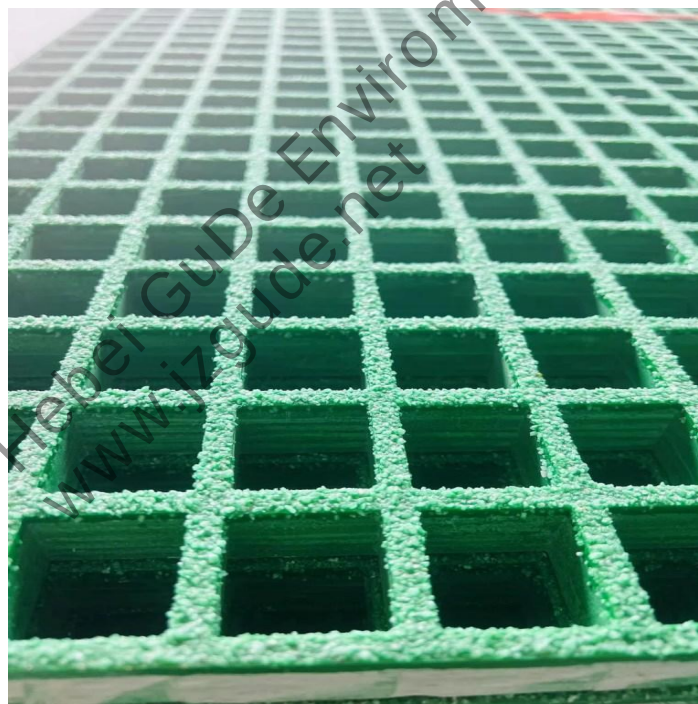
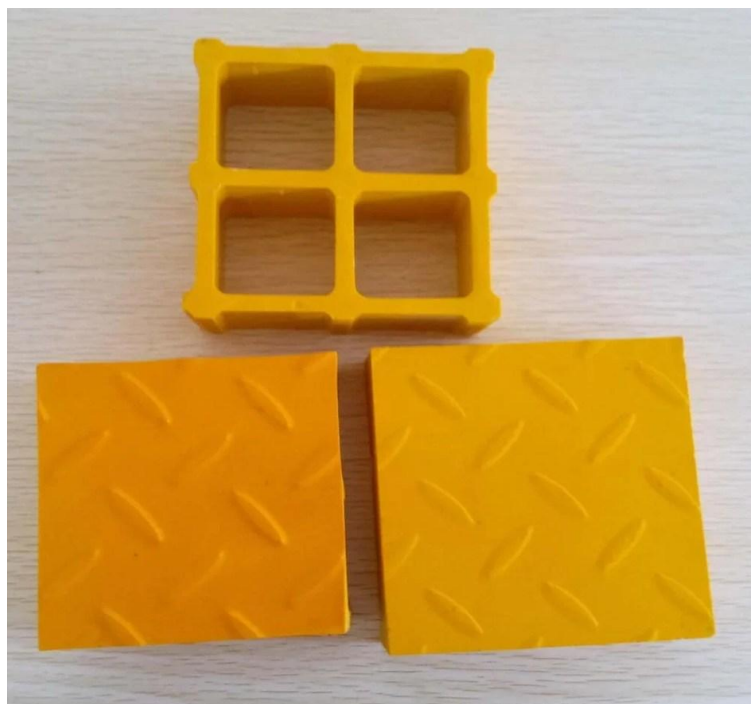
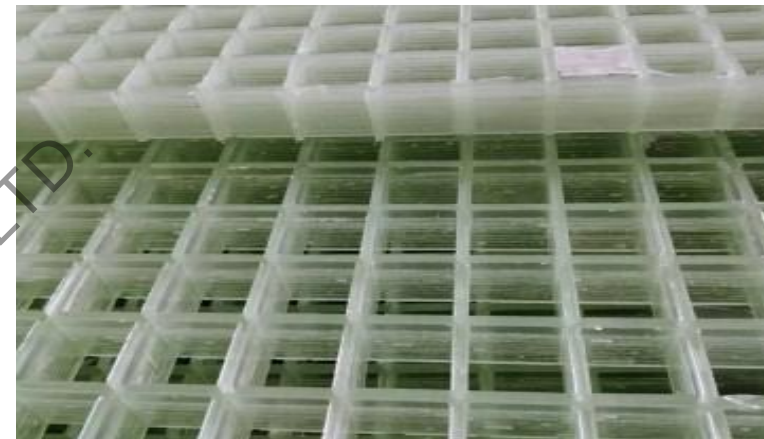
Support distance(mm)	Load under 1% deformation of the whole plate center load (KGS)	Uniformly distributed load at two points with 1% deformation (KGS/SQM)
457		8503
610	900	3592
762	660	1710
914	570	1075
1067	418	685
1219	318	464

Grid Size 50*50*50mm Plate Size 1220*3660mm

Support distance(mm)	Load under 1% deformation of the whole plate center load (KGS)	Uniformly distributed load at two points with 1% deformation (KGS/SQM)
610	1558	6328
762	1000	3226
914	704	1881
1067	581	1173
1219	504	782



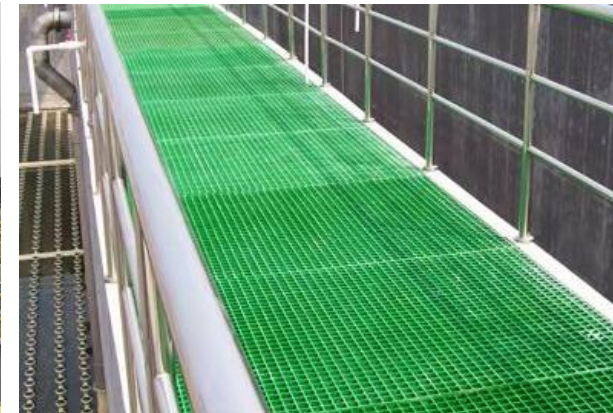
Different Type of FRP GRATING 玻璃钢格栅的种类





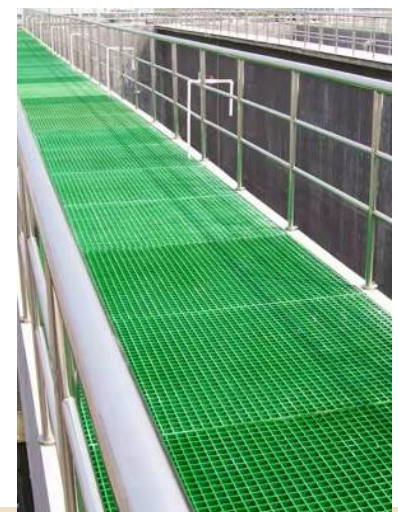
Application of FRP GRATING

玻璃钢格栅的应用





Application of FRP GRATING 玻璃钢格栅的应用



FRP gratings are used in chemical, petroleum, smelting, electricity, electroplating, batteries, machinery, pharmaceuticals, printing and dyeing, mining, sewage treatment, house decoration, municipal engineering, car washes and other fields;

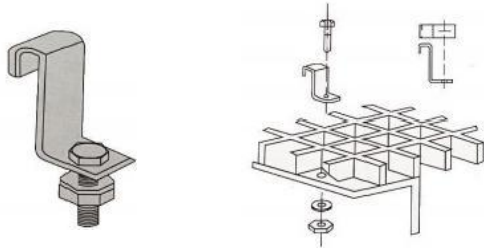
Specific applications: operating platforms, ditch covers, ditch gratings, photovoltaic aisle panels, cable trench covers, ship deck drainage gratings, greening tree grates, breeding platforms, car wash drainage gratings, underground garage drainage ditch gratings, and drainage ditch gratings.

Application Field	Accidental Walkway	Maintenance access	Frequent walkway	Non-motorized vehicle walkway	Light motor vehicle walkway
Center load KGS	115	135	180	360	680
Recommended deformation (mm)	6-9.5	6-9.5	6-9.5	6-9.5	6-9.5

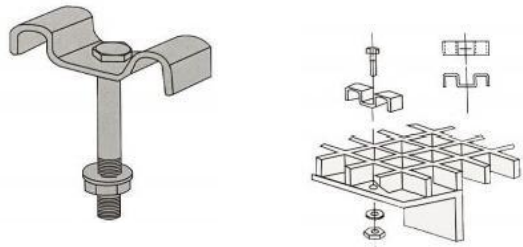




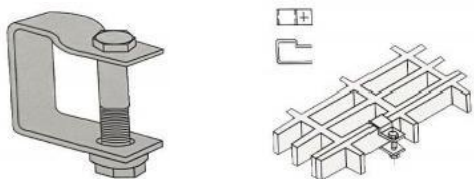
Installation and accessories 安装及配件



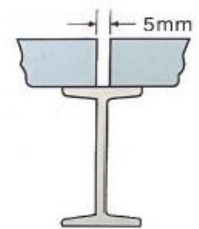
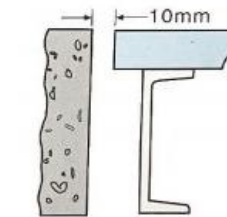
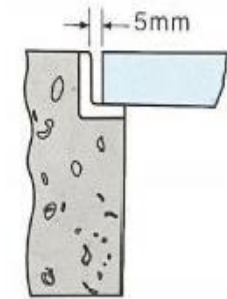
"L" type clamps are used for special positioning and connection between the grille and the bracket material.



"M" type clamps are used for positioning and connection between the grille and the bracket material.



"C" type clamps are used for the continuity of the edges of two grilles to give the platform good overall performance





FRP Grating for ETP /STP Plants 污水处理厂用玻璃钢格栅

Fiber Reinforced Plastic (FRP) grating is a highly durable, lightweight, and corrosion-resistant material widely used in Effluent Treatment Plants (ETP) and Sewage Treatment Plants (STP). Due to its exceptional resistance to chemicals, moisture, and harsh environments, FRP grating for wastewater treatment has become a preferred alternative to traditional steel and aluminum gratings.

In this comprehensive guide, we will explore the benefits, applications, types, and installation methods of FRP grating in ETP/STP plants, along with key factors to consider when selecting the best grating for your project.





Why Choose FRP Grating for ETP & STP Plants?

ETP and STP plants operate in highly corrosive environments due to exposure to chemicals, sewage, acids, alkalis, and moisture.

1. Superior Corrosion Resistance
2. High Strength-to-Weight Ratio
3. Slip-Resistant & Safety Compliant
4. Low Maintenance & Long Lifespan
5. Electrically Non-Conductive & Fire Retardant



Applications of FRP Grating in ETP & STP Plants:

1. Walkways & Platforms

- Provides safe access for maintenance personnel
- Resistant to chemical spills and moisture

2. Drain Covers & Trench Grating

3. Stair Treads & Catwalks

4. Biogas & Chemical Storage Areas

5. Clarifiers & Aeration Tanks

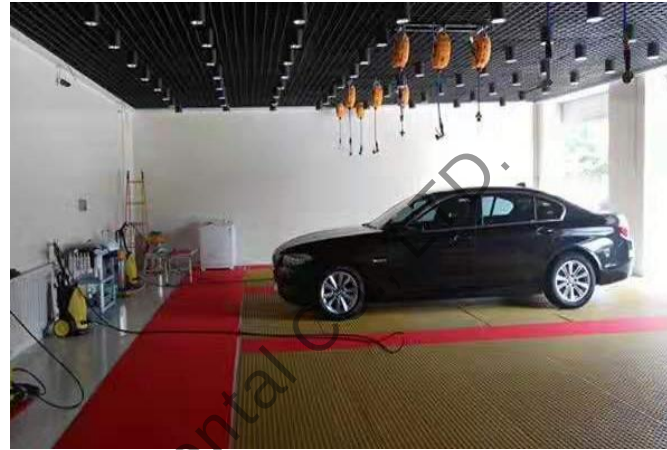


As a leading FRP grating manufacturer, we provide:

- ✓ High-quality, ISI-certified FRP grating
- ✓ Custom sizes and thicknesses for any application
- ✓ Competitive pricing & fast delivery
- ✓ Expert technical support for installation guidance



FRP Grating for car wash shop 洗车房用玻璃钢格栅



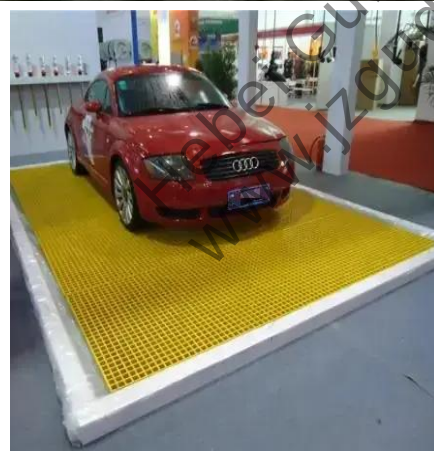
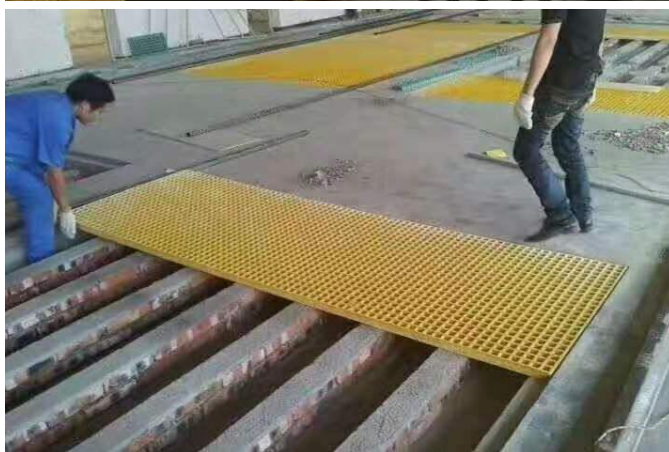
The car beauty industry has grown and developed, and composite fiberglass grating has become one of the preferred decoration materials for car washes. Fiberglass grating station size for car washes:

Standard parking space: 6*3 meters; small parking space: 2.44*4.88

Medium parking space: 3.66*4.88 meters; large parking space: 3.66*6.1 meters.

Green and red, green fiberglass grating as the main color, giving people a sense of security, red as the side color, making the color matching feel elegant.

Gray and green: Gray as the main color, after washing the car, under the light, the car will become very bright, green as the color change, giving people a comfortable feeling.





FRP Mini Mesh Grating for breeding 养殖专用玻璃钢格栅



How to choose FRP microporous mesh panels' hole size?

Small-hole mesh (usually 12 or 19mm) can effectively prevent the feet of young animals from sinking, and is particularly suitable for breeding scenes of young animals such as poultry and piglets.

Large-hole mesh (aperture 38-40mm) is more suitable for adult livestock farms. The larger through-hole rate significantly improves the sewage discharge efficiency and can increase the removal speed of liquid feces by 2-3 times. This type of board is particularly suitable for hoofed animal breeding.

How to choose FRP microporous mesh panels' thickness?

Generally speaking, for conventional livestock and poultry breeding sheds, such as chicken houses and pig houses, the recommended FRP mesh panel thickness should be between 25mm and 38mm. This thickness of mesh panels can effectively carry the weight of livestock and poultry and items such as feed, while maintaining good trampling resistance, and are not easy to deform or break after long-term use. At the same time, a moderate thickness can also ensure that the mesh panel has sufficient rigidity, reduce the noise caused by livestock and poultry trampling, and create a quieter and more comfortable growth environment for livestock and poultry.





However, in specific breeding scenarios, such as large aquaculture ponds and heavy equipment placement areas, higher requirements are placed on the bearing capacity of FRP mesh panels. At this time, the recommended thickness can be appropriately increased to 50mm or even thicker to ensure the stability and safety of the mesh panel under extreme conditions.





FRP Grating For Solar Station 光伏电站用玻璃钢格栅

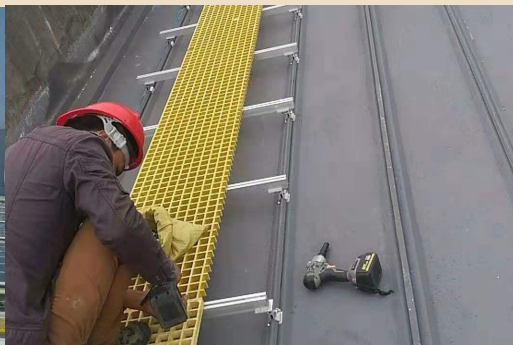
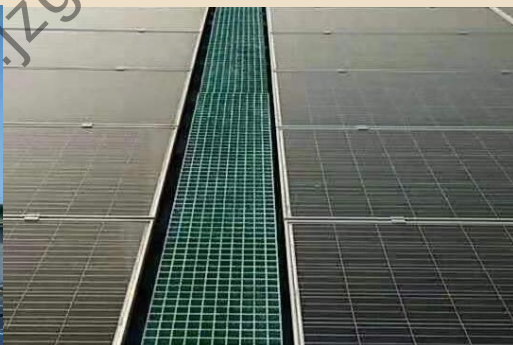


Thickness: The mainstream choice is 25mm (load-bearing $\leq 1 \text{ ton/m}^2$) or 30mm (load-bearing $\leq 3 \text{ tons/m}^2$), which needs to be determined according to the load of the photovoltaic array operation and maintenance vehicle or personnel.

Hole spacing: 38×38mm (excellent anti-slip performance) or 40×40mm (higher light transmittance), and the hole type is recommended to choose micropores to enhance anti-slip performance.

Color: Yellow-green (warning function) or gray (dirt-resistant) is recommended, and an anti-ultraviolet coating can be added to the surface to extend the outdoor service life.

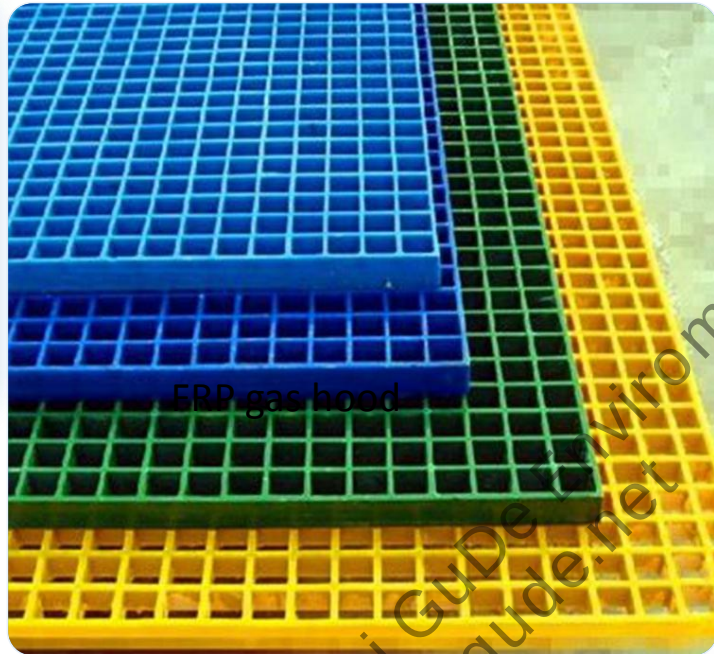
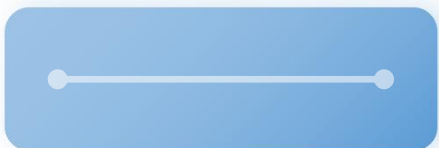
Material: Flame-retardant resin (oxygen index ≥ 28) and alkali-free glass fiber must be selected to avoid fire risks in photovoltaic areas.





FRP Grating

玻璃钢格栅



● Application fields

Industry Application scenarios

Petrochemical: Platform, walkway, tank fence, sewage treatment pool cover

Electric power: communication Cable trench cover, substation walkway, insulated pedal

Marine and marine: Deck, gangway, dock anti-slip walkway

Food and pharmaceutical: Workshop floor, cleaning platform, anti-corrosion workbench

Municipal construction: Greening tree pool cover, pedestrian bridge, drainage ditch cover

Environmental protection industry: Waste gas treatment tower platform, desulfurization tower grille



Why US

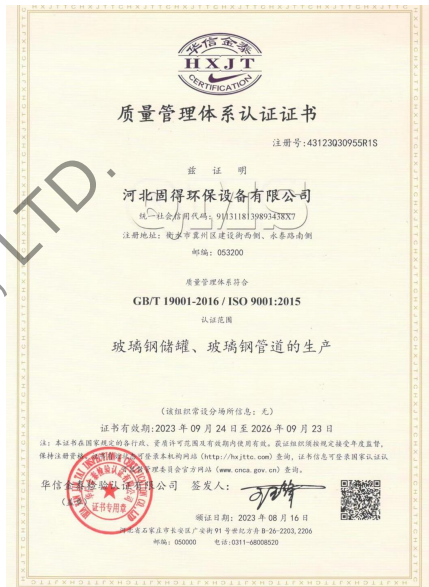


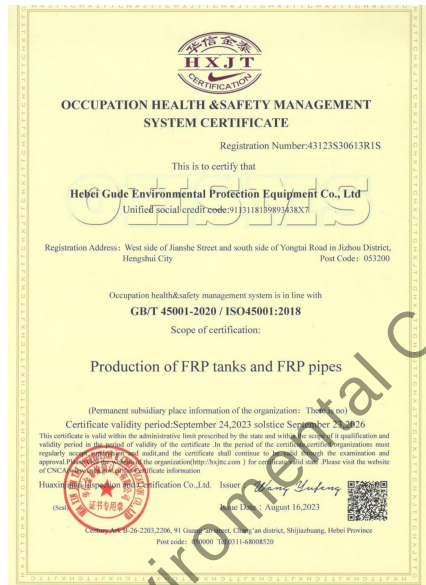
Strict quality control: ISO 9001 certification, full-process testing to ensure product consistency.

Professional design support: Provide media compatibility analysis, structural strength simulation and other services.

Fast delivery: mature production lines support large-volume orders.

If you need further technical parameters or case materials, please feel free to contact us!





谢谢观看

Thanks for watching

FRP has become an important material in modern industry, municipal construction and other fields due to its excellent corrosion resistance, high strength, lightweight and safety and anti-slip advantages. As a professional FRP manufacturer, we can provide customized solutions according to customer needs to ensure product performance and service life. If you need more technical parameters or purchase consultation, please feel free to contact us!

—— Hebei GuDe, a professional fiberglass grille manufacturer



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Welcome Your Inquiry!