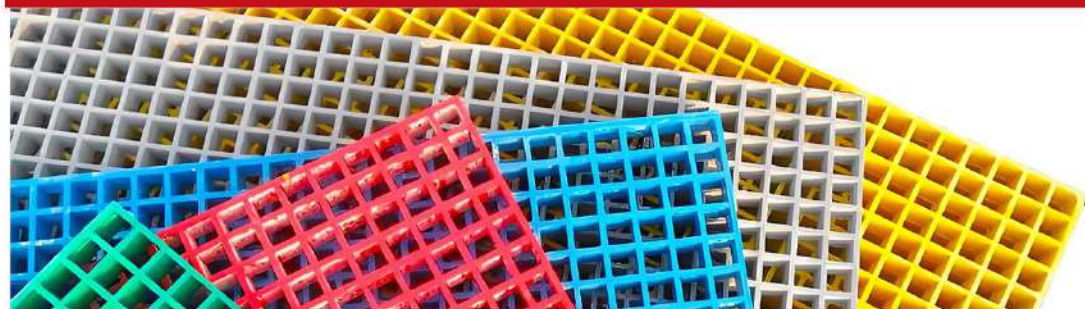




邢台谷一新材料科技有限公司
XINGTAI GOOYI NEW MATERIAL TECH CO.,LTD

FRP GRATING

GOOYI CATALOG



FRP SPECIALIST

XINGTAI GOOYI NEW MATERIAL TECH CO.,LTD

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Add 2: Zaoqiang County, Hengshui City, Hebei Province, China



HEBEI. CHINA



DO ONE THING AT A TIME, AND DO WELL

KEEP ON GOING NEVER GIVE UP

简介 / PROFILE



邢台谷一是中国领先的玻璃钢格栅和玻璃钢拉挤产品专业制造商和出口商。我们的产品包括我们的产品包括玻璃钢地板格栅，太阳能走道格栅，楼梯踏板格栅，工作平台格栅，沟盖格栅等。

我们为客户提供完善的服务和最高的质量水平以及最具竞争力的价格，我们整个运营都专注于客户最精确的需求。我们愿与世界各国客户真诚合作，共同成长，共创辉煌未来。

XINGTAI GOOYI is a leading professional manufacturer & exporter of FRP gratings and FRP pultruded profiles from China. Our products include FRP Floor Grating, Solar Walkway Grating, Stair Treads Grating, Work Platform Grating, Catwalk Grating, Trench Cover Grating etc. We offer perfect service to our customers and bring in the highest quality products at the most competitive price for our Clients. Our entire operations are focused on the precise demands of our client needs.

Our company has passed ISO 9001:2008 Quality Management System in 2001. Under the professional services of sales team and logistics distribution team, all our exported goods passed strict inspection and loading supervision to make sure that the cargo is delivered to customers safely. Our service concept is customer first, integrity and win-win. Endowing top product, good service and excellent credibility, we sincerely would like to cooperate with friends all over the world, to grow together and make a brilliant future.



CERTIFICATE



SGS

TEST REPORT No. : LABT37000030001 Date: Feb 06, 2025 Page: 1 of 5
XINGTAI GOOYI NEW MATERIAL TECH CO., LTD
XINSHIJI FOSH, XINSHIJI NORTH ROAD, XINSHIJI DISTRICT, XINSHIJI CITY, HEBEI PROVINCE, CHINA

Sample Description: FRP GRATING
Color: GRAY
Style/Item No.: 381315mm
Composition: RESIN, FIBERGLASS YARN, ALUMINUM HYDROXIDE

Manufacturer: XINGTAI GOOYI NEW MATERIAL TECH CO., LTD
The above sample(s) data and information was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion unless further results apply to the sample as required.

Sample Received Date: Jan 21, 2025
Issuing Date: Jan 21, 2025 to Feb 06, 2025
Test Required: ASTM E84-2004 Standard Test Method for Surface Burning Characteristics of Building Materials
Test Result(s): See attached sheet

Signed for and on behalf of: SGS-CATC Standards Technical Services Co., Ltd And Branch

SGS-CATC
Approved signature



SGS is a leading provider of inspection, verification, certification and testing services. The company is a member of the SGS Group, which is a global leader in the field of quality management systems. SGS is committed to providing high-quality services to its clients and to maintaining the highest standards of integrity and transparency.





FRP MOLDED GRATINGS WORKSHOP

FRP grating, as a new type of composite material, has the characteristics of light weight, high strength, corrosion resistance, anti-slip, and maintenance-free. It is made of glass fiber and resin. It is not only light and easy to install, but also has excellent corrosion resistance and is suitable for a variety of complex environments.

The FRP grating produced by our company adopts a specially designed formula to meet the requirements of engineering fire protection, and has passed the ASTM E-84 flame retardant test, with good flame retardant and fireproof performance. At the same time, the product is weather-resistant, load-bearing, portable and easy to cut, which fully supplements the shortcomings of traditional steel gratings.



SUPERIOR QUALITY RAW MATERIAL

WHY CHOOSE US?

We manufacture the products with craftsman spirit, to bring the best quality and service to all of our customers.



FRP Molded Grating

玻璃钢格栅



Resin Type Option

GRATING TYPE	RESIN TYPE	KEY FEATURES	TEMPERATURE	APPLICATIONS
Type Ortho	Orthophthalic Resin	Cost-effective, moderate chemical resistance	-50~60 °C	General industrial use
Type VE	Vinyl Ester Resin	Superior chemical and heat resistance	-50~90 °C	Chemical plants, marine, wastewater
Type ISO	Isophthalic Resin	Enhanced chemical and mechanical resistance	-50~110°C	Industrial tanks, pipes, structural components
Type IP-FR	Isophthalic FR Resin	Flame retardant, excellent heat resistance	-50~110°C	Fire-safe environments, public spaces

Note:

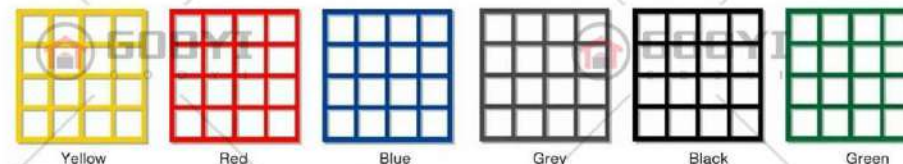
- **Type Ortho** if cost is a primary concern and the application involves non-aggressive environments.
- **Type VE** for demanding environments requiring superior chemical and heat resistance.
- **Type ISO** for a balanced approach between cost and performance in moderately corrosive settings.
- **Type IP-FR** when fire safety and compliance with strict regulations are critical.

This comparison should help you make an informed decision based on your project requirements and budget constraints!



Available Colors

Variety of colors are available, custom colors are supported



Filler Type Option

FILLER MATERIAL	FUNCTIONS & PROPERTIES	APPLICATIONS
Aluminum Hydroxide	Flame retardant, enhances strength, Oxygen Index >28	Fire-retardant and smoke suppression environments
Calcium Carbonate	Strength enhancement, cost reduction	Applications without flame retardant requirements
No Filler/Pure Resin	Excellent transparency, high corrosion resistance	Applications without flame retardant requirements, high corrosion resistance needed

FRP MOLDED Grating

玻璃钢模压格栅



FRP Floor Grating



Work Platform Grating



Catwalk Grating



Stair Treads Grating



FRP Fence Grating



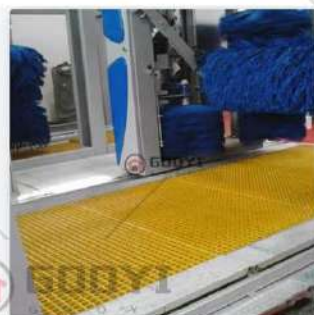
Trench Cover Grating



Solar Walkway Grating



Tree Guard Grating



Car Wash Grating

Surface Type

Different Surface Type for FRP Gratings

- Smooth Surface
- Gritted Surface(Sand Surface)
- Concave Surface
- Checker Plate Surface(Solid Top)

Compared with the concave-surface FRP grating, the sand-surface is more wear-resistant, the anti-slip effect of the concave-surface FRP grating is only suitable for artificial walkways.



Smooth Surface



Gritted Surface



Concave Surface



Pattern Surface Checker Plate



Smooth Surface Checker Plate

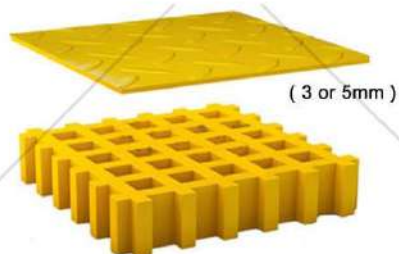
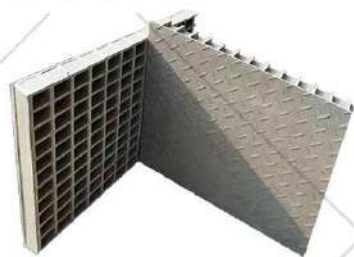


Gritted Surface Checker Plate



■ FRP Grating Checker Plate

玻璃钢格栅盖板



FRP checker plate grating is a type of anti-slip covered grating, which is combination the FRP plate on the top and FRP grating at bottom. The bottom FRP grating can be molded FRP grating or pultruded FRP grating, this combination provides both safety and structural integrity, making it suitable for various industrial and commercial applications.



■ Features:

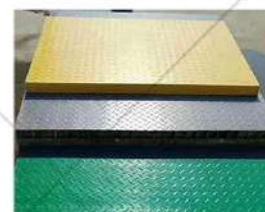
- **Anti-Slip Surface:** Design enhances traction, reducing the risk of slips and falls, especially in wet or oily environments.
- **Material Options:**
 - Molded FRP Grating: Produced by molding processes, offering cost-effective solutions for large areas.
 - Pultruded FRP Grating: High strength-to-weight ratio and consistent quality.
- **Corrosion Resistance:** Ideal for chemical plants, wastewater treatment facilities, and marine environments.
- **Lightweight:** Easier to install and transport compared to traditional metal gratings.
- **Customizable:** Available in various sizes, shapes, and colors to meet specific project requirements.



FRP Diamond Top Cover



Application Case



■ FRP Grating Dimension

玻璃钢格栅尺寸



Mesh Dimension

	38x38x15H		50x50x50H	
	38x38x25H		50x50x65H	
	38x38x30H			
	38x38x38H			
	38x38x50H			
	38x38x65H			
	19x19x30H		40x40x15H	
	19x19x38H		40x40x25H	
			40x40x40H	
	35x35x10H		12x12x38H	
	25x25x25H		100x100x50H	
	100x25x28H			



Grating Dimension



Mesh Size	Panel Size	Kg/m ²
35*35*10mm	0.93*2.05 (M)	5
40*40*15mm	1m*4.04 (M)	7
38*38*25mm	1.22*3.66 (M)	13
	1.52*4.08m (M)	
40*40*25mm	1*4 (M)	12
38*38*30mm	1.22*3.66 (M)	17
38*38*38mm	1.22*3.66 (M)	21
	1.535*4.01 (M)	
40*40*40mm	1*4.04 (M)	21
38*38*50mm	1.22*3.66 (M)	28
	1*4.04 (M)	
50*50*50mm	1.22*3.66 (M)	24
	1m*4.05 (M)	
38*38*65mm	1.03*4.04 (M)	40
50*50*65mm	1.22*4.02 (M)	29
19*19*30mm	1.22*3.66 (M)	19
12*12*38mm	1.22*3.66 (M)	25
	1*4.04 (M)	
25*25*25mm	1.22*4.01 (M)	16
25*100*28mm	1.007*3.007 (M)	16
100*100*50mm	1.22*3.66 (M)	

■ FRP Pultrusion Profile

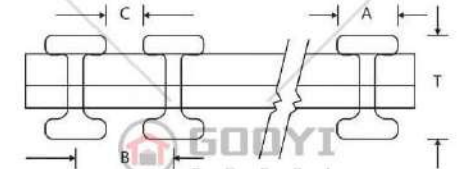
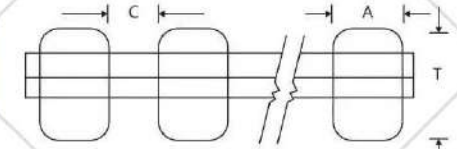
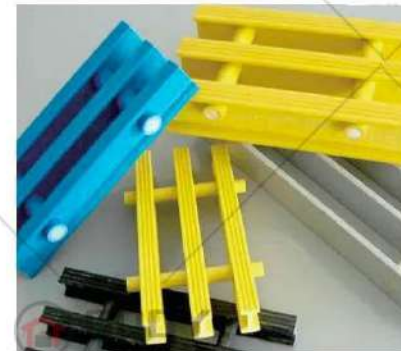
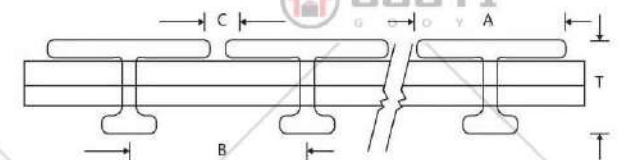
玻璃钢拉挤型材



FRP pultrusion profiles come in various cross-sectional shapes, each offering unique advantages depending on the application. FRP pultrusion profiles are characterized by their high strength-to-weight ratio, corrosion resistance, electrical insulation, and design flexibility, making them suitable for demanding environments and applications.



FRP Pultrusion Grating



FRP Grating Clips

玻璃钢格栅卡扣



Fasten Clip Type



• M-clip

For joint FRP grating with bottom bracket, available for stair treads and most molded and pultruded fiberglass gratings.

• C-clip

For joining 2 piece of FRP grating panels together, available for most type of gratings.

• L-clip

For joint FRP gratings with special position of support frames, for lighter duty use in securing grating panels to support frames

• W-clip

The W-Type clip is designed to securely hold down both plates and covered FRP grating



FRP Grating Load Capacity

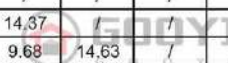
玻璃钢格栅承重荷载力



线性负载 CONCENTRATED LOAD



跨距 Span	网孔尺寸 Mesh Size (mm)	厚度 Thickness (mm)	线性负载 Load (kg/m)						最大荷载 Max Load Capacity (kg/m)
			75	150	300	450	600	750	
300mm	38*38	25	<0.25	0.42	1.12	1.71	2.38	2.86	5970
	38*38	30	<0.25	0.28	0.88	1.45	2.27	2.62	9924
	38*38	38	/	<0.25	0.52	0.78	1.17	1.54	17120
	40*40	40	/	<0.25	0.3	0.52	0.67	0.78	17010
	50*50	50	0.28	0.31	0.41	0.47	0.63	0.72	22526
450mm	38*38	25	0.56	1.15	2.16	3.08	4.16	4.76	3910
	38*38	30	0.28	0.51	1.13	1.53	20.9	2.63	4828
	38*38	38	<0.25	0.47	0.91	1.36	1.86	2.33	12980
	40*40	40	<0.25	0.48	0.92	1.37	1.87	2.35	12680
	50*50	50	0.31	0.42	0.74	0.92	1.22	2.21	17078
600mm	38*38	25	0.87	1.71	3.51	5.2	6.72	/	2924
	38*38	30	0.53	1.29	2.31	3.62	4.82	5.96	4089
	38*38	38	0.36	0.65	1.25	1.35	2.47	3.08	8720
	40*40	40	0.38	0.67	1.28	1.89	2.51	3.38	8498
	50*50	50	0.35	0.58	1.06	1.76	2.16	2.56	11473
750mm	38*38	25	1.36	4.47	9.37	/	/	/	2287
	38*38	30	1.27	2.61	4.91	7.44	11.06	/	3175
	38*38	38	0.63	1.14	2.17	3.24	4.36	5.45	7270
	19*19/38*38	30	0.97	1.86	3.12	5.02	6.88	9.36	4820
	19*19/38*38	38	0.56	1.02	1.94	2.98	3.88	5.02	8827
	40*40	40	0.65	1.18	2.23	3.36	4.24	5.49	6970
	50*50	50	0.46	0.91	1.58	2.36	3.46	4.57	9566
900mm	38*38	25	2.91	5.92	12.12	/	/	/	1948
	38*38	30	1.79	3.91	7.76	11.51	/	/	2641
	38*38	38	0.87	1.81	3.68	5.56	7.42	9.31	5817
	40*40	40	0.91	1.84	3.75	5.69	7.57	9.71	5537
	50*50	50	1.51	1.67	3.37	4.33	5.16	6.13	7780
1220mm	38*38	25	5.72	11.64	/	/	/	/	1431
	38*38	30	3.61	7.91	14.37	/	/	/	2286
	38*38	38	2.26	4.75	9.68	14.63	/	/	3755
	40*40	40	2.35	5.02	9.87	15.01	/	/	3455
	50*50	50	1.67	3.41	6.94	8.72	10.52	13.32	5834



■ FRP Grating Load Capacity

玻璃钢格栅承重荷载力



均布负载 UNIFORM LOAD 										
跨距 Span	网孔尺寸 Mesh Size (mm)	厚度 Thickness (mm)	均布负载 Uniform Load (kg/m)							最大荷载 Max Load Capacity (kg/m)
			150	350	500	750	1000	1500	2500	
300mm	38*38	25	<0.25	<0.25	<0.25	<0.25	0.26	0.53	0.64	31625
	38*38	30	<0.25	<0.25	<0.25	<0.25	<0.25	0.42	0.53	33000
	38*38	38	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.42	41800
	40*40	40	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.42	39710
	50*50	50	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.39	53602
450mm	38*38	25	0.3	0.38	0.62	0.94	1.22	1.85	2.75	20759
	38*38	30	0.25	0.32	0.52	0.78	1.02	1.54	2.29	21662
	38*38	38	0.2	0.25	0.41	0.62	0.81	1.22	1.81	27439
	40*40	40	0.2	0.25	0.41	0.62	0.81	1.22	1.81	26067
	50*50	50	<0.25	<0.25	0.3	0.45	0.59	0.89	1.32	35186
600mm	38*38	25	0.98	1.24	1.85	2.75	3.35	5.18	8.86	12439
	38*38	30	0.82	1.03	1.54	2.29	2.79	4.32	7.38	12980
	38*38	38	0.85	0.81	1.22	1.81	2.2	5.64	14.1	16441
	40*40	40	0.65	0.81	1.22	1.81	2.2	6.43	/	15619
	50*50	50	0.47	0.59	0.89	1.32	1.61	4.69	6.13	21083
750mm	38*38	25	1.28	3.05	4.57	6.86	9.15	/	/	7950
	38*38	30	1.07	2.54	3.81	5.72	7.62	11.69	/	8296
	38*38	38	0.48	2.01	3.01	4.51	6.92	/	/	10508
	40*40	40	0.84	2.01	3.01	4.51	8.91	/	/	9983
	50*50	50	0.82	1.46	2.19	3.29	6.5	9.23	/	13475
900mm	38*38	25	2.57	7.13	9.62	/	/	/	/	5518
	38*38	30	2.14	4.58	7.11	10.67	/	/	/	5758
	38*38	38	1.69	3.62	5.61	8.42	/	/	/	7293
	40*40	40	1.69	3.62	5.61	8.42	11.18	/	/	6929
	50*50	50	1.23	2.64	4.09	6.14	8.15	/	/	9353
1220mm	38*38	25	7.1	9.9	12.46	/	/	/	/	2827
	38*38	30	5.91	8.25	11.78	/	/	/	/	3392
	38*38	38	4.67	6.51	9.3	13.95	/	/	/	4297
	40*40	40	1.69	3.62	5.61	8.32	11.18	/	/	6929
	50*50	50	3.4	4.75	6.78	9.16	12.07	/	/	5510

■ FRP Grating Load Capacity

玻璃钢格栅承重荷载力



点负载 POINT LOAD										
										
跨距 Span	网孔尺寸 Mesh Size (mm)	厚度 Thickness (mm)	点负载 Point Load (kg/m)							
			150	350	500	750	1000	1500	2500	3000
300mm	38*38	25	/	0.44	0.59	1.03	1.37	1.78	2.82	3.49
	38*38	30	/	0.37	0.49	0.86	1.14	1.48	2.35	2.91
	38*38	38	/	0.29	0.39	0.68	0.9	1.17	1.86	2.29
	40*40	40	/	0.26	0.35	0.61	0.81	1.05	1.67	2.06
	50*50	50	/	0.37	0.48	0.76	1.08	1.47	2.41	2.89
450mm	38*38	25	0.26	0.66	0.89	1.55	2.06	2.67	4.23	5.23
	38*38	30	/	0.55	0.74	1.29	1.72	2.23	3.53	4.36
	38*38	38	/	0.43	0.59	1.02	1.36	1.76	2.78	3.44
	40*40	40	/	0.43	0.59	1.02	1.36	1.76	2.78	3.44
	50*50	50	0.27	0.56	0.73	1.14	1.63	2.2	3.61	4.34
600mm	38*38	25	0.74	1.55	2.02	3.18	4.52	6.12	/	/
	38*38	30	0.62	1.29	1.68	2.65	3.77	5.1	8.37	/
	38*38	38	0.49	1.02	1.33	2.09	2.97	4.03	6.71	/
	40*40	40	0.47	0.98	1.25	1.89	2.69	3.78	6.51	/
	50*50	50	0.39	0.83	1.08	1.69	2.41	3.26	5.35	6.42
750mm	38*38	25	1.26	2.94	3.78	5.99	8.79	/	/	/
	38*38	30	1.05	2.45	3.15	4.99	7.33	/	/	/
	38*38	38	0.83	1.93	2.49	3.94	5.78	7.84	/	/
	40*40	40	0.82	1.91	2.35	3.8	5.59	7.56	/	/
	50*50	50	0.67	1.57	2.01	3.19	4.68	6.33	9.87	/
900mm	38*38	25	1.78	4.32	5.53	8.81	13.06	/	/	/
	38*38	30	1.48	3.6	4.61	7.34	10.88	/	/	/
	38*38	38	1.17	2.84	3.64	5.8	8.59	11.65	/	/
	40*40	40	1.16	2.81	3.58	5.69	8.35	11.15	/	/
	50*50	50	0.95	2.3	2.95	4.69	6.96	10.11	/	/
1220mm	38*38	25	2.95	7.42	10.38	15.06	/	/	/	/
	38*38	30	2.46	6.18	8.65	12.55	/	/	/	/
	38*38	38	1.94	4.88	6.83	9.91	14.56	/	/	/
	40*40	40	1.93	4.85	6.66	9.7	14.31	/	/	/
	50*50	50	1.57	3.95	5.53	8.02	10.71	15.53	/	/