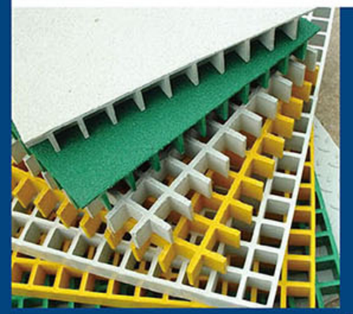
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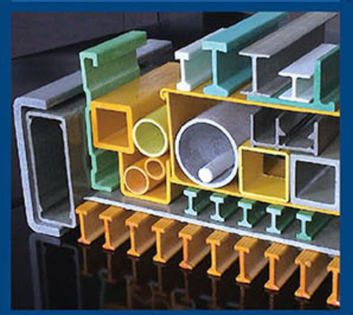
Nantong Mach's Composite Material







Innovative solutions & Support for FRP







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COMPANY PROFILE

Professional FRP platform and grating manufacturer

Nantong Mach's Composite Material Co., Ltd. is a professional manufacturer of FRP molded grating, pultruded grating and other profiles.

We have rich experience in production and management. Relying on advanced equipment and technology at home and abroad, after years of development and exploration, Nantong Machs has become a manufacturer of nationalized and modern FRP platforms and grating. We have 1SO9001, SGS, ASTM E84, ABS and other certifications. Products are exported to the world, such as the United States, Britain, Germany, South Africa and other countries.

Our products are used in many important construction projects both at home and abroad. Because of the excellent quality, fast logistics and good service, Machs has established long-term and stable cooperation with many partners.

Customers are the stone of our existence and development, Nantong Machs will do its best to meet the needs of our customers.







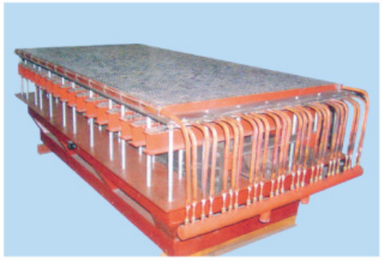


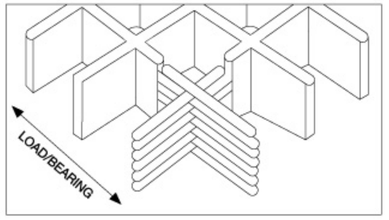


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Nantong Mach's Composite Material Co., Ltd.

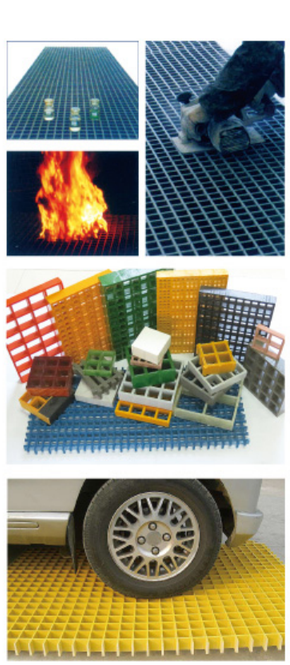
FRP grating plate is a glass fiber reinforced plastic (referred to as FRP) molded grating made of unsaturated polyester resin (including isophenyl resin, phthalate type, vinyl type and phenolic type, bisphenol A type, etc.) as the matrix, with glass fiber roving (medium alkali or alkali-free) as the skeleton on the custom molds through a special process made of a plate material with a certain opening rate.

The grating is staggered with glass fiber and the resin is cast and molded as a whole.

- The staggered weaving of glass fiber and the full penetration of resin make the grating resistant to corrosion to the greatest extent.
- The overall structure of the grating distributes the load evenly, which is conducive to the uniform force of the grating installation and its installation support structure.
- The glossy surface of the grating and the italic grating surface make the grating have a self-cleaning effect.
- The concave surface of the grating makes the grating have anti-slip performance, and the anti-slip effect of the sand laying surface is better.

Properties of molded gratings

- **Resistant to corrosion of a variety of chemical media, never rust, long service life, free from maintenance**
  FRP grating is a non-metallic material, which is different from the traditional metal grating, which does not occur electrochemical corrosion and rust under the action of chemical medium. At the same time, it is also different from wood and other materials that will corrode and mildew, and is an upgrade product of traditional iron, wood, cement and other materials.
- **The specially designed formula of the flame retardant company can meet the requirements of the project for fire prevention, so as to ensure safety**
  The company's products have passed ASTME-84 flame retardant test and have good flame retardant fire performance.
- **Insulation, non-combustion, non-magnetic**
- **It has slight elasticity, which can reduce the fatigue of personnel, enhance the sense of comfort and improve work efficiency**
- **Lightweight, high strength, and easy to cut and install**
  Because it is made of resin and glass fiber, its density is small, only one-fourth that of iron and two-thirds that of aluminum, but its relative strength is higher than that of these metals. Its light weight can greatly reduce the foundation support, thereby reducing the material cost of the project. It is easy to cut and install, no need for fire and large lifting equipment, only a small number of labor and power tools, so that the installation cost is also greatly reduced.
- **Uniform color inside and outside, and the color can be arbitrarily selected. It can customize the color according to customer requirements and improve the visual environment of the production site**
- **It has good comprehensive economic benefits**
- **Strong designability, flexible and diverse size, and stable size**



The company can customize products according to customer requirements, such as different hole grating sizes, different shape sizes, different load requirements, etc. It can meet the customer's requirements to the greatest extent and minimize the loss caused by cutting, thus saving costs for customers.

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The main application characteristics of FRP gratings are indexed

High strength

characteristicdescription: the density is 1/4 of steel, 2/3 of aluminum, and the strength is up to the ordinary grade.
The weight can reduce the structural burden, easy to cut, easy to install, and effectively reduce the construction cost.

Corrosion resistance

feature description: For acids, alkalis, organic solvents and salts and other corrosive environments, it has superior corrosion resistance.

Used in: petrochemical, textile printing, shipbuilding industry, food processing, electronics industry, sewage treatment and other industries.
Products: trench cover, operating platform, petrochemical industry, stair stepping, fence, guardrail, industrial floor, etc.

Flame retardancy

feature description: excellent flame retardancy, up to ASTME84 grade I flame retardant standard, oxygen index can reach more than 35.

Applications: subway engineering, petrochemical industry, biotechnology, and other industries.
Products: obstruction guardrails, operating platforms, maintenance platforms, etc.

Anti-slip

feature description: The standard concave surface anti-slip design greatly increases the friction coefficient. According to the special environmental requirements, the anti-slip sand surface can be designed for reliable safety.

Used: petrochemical, interior decoration, metal refining, aquaculture and other industries.
Products: trench covers, stair skid plates, operating platforms, etc.

Good oxidation & weather resistance

characteristic description: It has excellent weather resistance and still has excellent strength after long-term use in most environments.

Applications: real estate construction, municipal engineering, railway engineering, offshore oil engineering, etc.
Products: FRP building curtain wall, highway guardrail, road name plate, community fence, offshore oil operation level platforms, cable bridges, etc.

Beautiful appearance & easy maintenance

feature description: bright color, not easy to fade, no need for any maintenance procedures, if the surface is tarnished, only need to wipe with water or detergent can be removed.

Applications: municipal engineering construction, decoration and other industries.
Products: highway bridge anti-collision wall guardrails, partitions, screens, etc.

Thermal insulation

feature description: the material itself is an insulating material, which is used in an electrically hazardous environment and has good safety.

Applications: power engineering, alchemy and other industries.
Products: transformer platform, cable crossbar, box change guardrail, operation platform, hoops, etc.

High comprehensive economic benefits

feature description: the maintenance cost of metal products is about 4~5 times of the initial acquisition cost, and the maintenance cost of this product is almost zero.

Applications: municipal engineering, construction and real estate, road and bridge construction, etc.
Products: kiln manhole covers, campus fences and replacement of all outdoor metal and other products.

FRP grating applications

FRP gratings can be used in the following places: chemical industry, paper industry, power plants, sewage treatment plants, food processing plants, smelters, mines, salt plants, nuclear power plants, battery factories and so on. It can be used as: pedestrian walkways, bridges, industrial floors, operating platforms, trench covers, pallets, guardrails, fences, shelves, isolation belts, green walkways, floor steps, etc



Molded Grating Raw Materials Systems

Selection of resin type				
Code Resin	**Type Flame**	**Retardant performance**	**Standard color**	**Recommended for use**
V-CF	Vinyl type	Oxygen index 28 or above	Grass green, yellow, gray, orange	Acid, alkali solvent and other corrosive environments
V-CR	Vinyl type	Oxygen index 35 or above	Dark gray, black	Occasions with high flame retardant requirements and high corrosion resistance
I-IF	Isophenyl type	Oxygen index 28 or above	Grass green, yellow, gray	Compared with the above two economical, and acid resistance is excellent, moderate alkali resistance and solvents
I-FF	Isophenyl Food Grade	Oxygen Index 26	Yellow, light gray	Mainly used in meat products and food processing plants, waterworks
O-AF	Phthalate type	Oxygen index 28 or above	Green, gray, yellow	General acid and alkali resistant environment
O-AN	Phthalate type	Oxygen index below 28	Grass green, yellow, gray	More economical than O-AF, no flame retardant requirements
MP-5	phenolic type	Oxygen index below 80	Brown	High fire protection, low smoke requirements environment

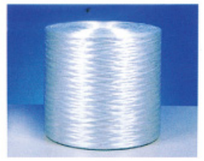
The type of fiberglass roving selected		
Code	**Roving Type**	**Recommended for use**
E	Alkali-free roving	applications with high strength requirements and high corrosion resistance
C	Medium alkali roving	is more economical than E, but lower strength and lower acid resistance

The type of filler selected		
Code	**Genuine material type**	**Recommended for use**
ATH	Alumina	flame retardant, smoke suppression, corrosion resistance
CAO	Calcium carbonate	More economical than ATH, no flame retardant requirements
PR	No filler pure resin	Used in high corrosion resistant applications









Molded grating product dimensions and parameters (unit: mm)

Number	Grating thickness	Mesh size	Rib diameter thickness (up and down)	maximum plate size	Force direction	Porosity	Weight
NO.1	20mm	20 x 20	6.0/5.0	1247 x 4047	Bidirectional force	30%	18.50kg/m²
NO.2	13mm	38 x 38	6.0/5.0	1220 x 4000	Bidirectional force	78%	6.00kg/m²
NO.3	15mm	38 x 38 Italics	6.5/5.0	1218 x 4100	Bidirectional force	78%	7.00kg/m²
NO.4	20mm	38 x 38	6.0/5.0	1220 x 4000	Bidirectional force	65%	9.80kg/m²
NO.5	25mm	38 x 38	6.4/5.0	1524 x 4000	Bidirectional force	68%	12.30kg/m²
NO.6	30mm	38 x 38	6.5/5.0	1524 x 4000	Bidirectional force	68%	14.60kg/m²
NO.7	60mm	38 x 38	7.5/5.0	1270 x 3660	Bidirectional force	68%	33.20kg/m²
NO.8	38mm	38 x 38	7.0/5.0	1524 x 4000	Bidirectional force	68%	19.50kg/m²
NO.9	30mm	38 x 38 Heavy Duty	10.5/9.0	1220 x 3660	Bidirectional force	58%	25.00kg/m²
NO.10	35mm	38 x 38 Heavy Duty	10.5/9.0	1220 x 3660	Bidirectional force	56%	29.40kg/m²
NO.11	50mm	38 x 38 Heavy Duty	11.0/9.0	1220 x 4000	Bidirectional force	56%	42.00kg/m²
NO.12	60mm	38 x 38 Heavy Duty	11.5/9.0	1220 x 4000	Bidirectional force	54%	50.40kg/m²
NO.13	25mm	40 x 40	7.0/5.0	1247 x 4047	Bidirectional force	67%	12.30kg/m²
NO.14	30mm	40 x 40	7.0/5.0	1247 x 4047	Bidirectional force	67%	14.60kg/m²
NO.15	40mm	40 x 40	7.0/5.0	1247 x 4047	Bidirectional force	67%	19.20kg/m²
NO.16	13mm	50 x 50	6.0/5.0	1906 x 4012	Bidirectional force	82%	4.80kg/m²
NO.17	13mm	50.8 x 50.8	7.0/6.0	1220 x 4000	Bidirectional force	82%	5.80kg/m²
NO.18	40mm	50 x 50	6.8/5.0	1788 x 4531	Bidirectional force	80%	15.82kg/m²
NO.19	25mm	50 x 50	7.5/6.0	1220 x 3660	Bidirectional force	78%	11.50kg/m²
NO.20	50mm	50 x 50	7.0/5.0	1788 x 4531	Bidirectional force	78%	20.80kg/m²
NO.21	50mm	50 x 50	8.0/6.0	1800 x 4000	Bidirectional force	78%	23.70kg/m²
NO.22	63mm	50 x 50	8.3/6.0	1225 x 4000	Bidirectional force	78%	28.80kg/m²
NO.23	23mm	79 x 79	6.5/5.0	405 x 3569	Bidirectional force	80%	5.70kg/m²
NO.24	25mm	83 x 83	7.0/5.0	1007 x 4047	Bidirectional force	84%	5.80kg/m²
NO.25	40mm	83 x 83	7.0/5.0	1007 x 4047	Bidirectional force	84%	9.50kg/m²
NO.26	50mm	125 x 125	10.0/7.0	1135 x 4760	Bidirectional force	84%	14.00kg/m²

Note: In addition to 4.6.8.19.26.45 in the above list, apart from ISO, Ortho, vinyl grating we can produce phenolic grating as well.

Molded grating product dimensions and parameters (unit: mm)

Number	Grating thickness	Mesh size	Rib diameter thickness (up and down)	maximum plate size	Force direction	Porosity	Weight
NO.27	30mm	12.7 x 12.7/38 x 38 minimesh	7.5&4.5/6.0	1220 x 3660 double layer	Bidirectional force	30%	22.00kg/m²
NO.28	22mm	19 x 19/38 x 38 minimesh	6.0/5.0	1220 x 3660 double layer	Bidirectional force	30%	14.60kg/m²
NO.29	25mm	19 x 19/38 x 38 minimesh	6.5/5.0	1220 x 4000 double layer	Bidirectional force	40%	16.80kg/m²
NO.30	30mm	19 x 19/38 x 38 minimesh	6.5/5.0	1220 x 4086 double layer	Bidirectional force	40%	18.50kg/m²
NO.31	38mm	19 x 19/38 x 38 minimesh	7.0/5.0	1524 x 4000 double layer	Bidirectional force	40%	23.50kg/m²
NO.32	14mm	20 x 20/40 x 40 minimesh	7.0/5.0	1247 x 4047 double layer	Bidirectional force	42%	10.50kg/m²
NO.33	30mm	20 x 20/40 x 40 minimesh	7.0/5.0	1007 x 4047 double layer	Bidirectional force	42%	18.00kg/m²
NO.34	40mm	20 x 20/40 x 40 minimesh	7.0/5.0	1007 x 4047 double layer	Bidirectional force	42%	23.70kg/m²
NO.35	50mm	25 x 25/50 x 50 minimesh	8.0/6.0	1524 x 4000 double layer	Bidirectional force	55%	28.50kg/m²
NO.36	38mm	26 x 26/52 x 52 minimesh	6.0/5.0	1150 x 4011 double layer	Bidirectional force	60%	19.50kg/m²
NO.37	38mm	25 x 50 Heavy Duty Type	11.0/9.0	1220 x 3660	Length Direction	48%	30.30kg/m²
NO.38	50mm	25 x 50 Heavy Duty Type	12.0/9.0	1220 x 3660	Length Direction	48%	41.00kg/m²
NO.39	25mm	25 x 100	7.0/5.5	1007 x 3007	Width direction	67%	13.00kg/m²
NO.40	25mm	25 x 100	6.5/5.0	1220 x 3660	Bidirectional force	67%	13.83kg/m²
NO.41	25mm	25 x 100 Heavy Duty Type	9.5/8.0	1220 x 3660	Width direction	52%	19.50kg/m²
NO.42	30mm	25 x 100	7.0/5.5	1007 x 3007	Width direction	67%	15.60kg/m²
NO.43	38mm	25 x 100	8.0/6.0	1220 x 3660	Width direction	52%	22.50kg/m²
NO.44	38mm	38 x 100	8.0/6.0	1220 x 3660	Length Direction	65%	16.40kg/m²
NO.45	38mm	25 x 152	9.0/6.5	1220 x 3660	Length Direction	63%	22.50kg/m²
NO.46	38mm	38 x 152	8.0/6.0	1220 x 3660	Length Direction	67%	15.92kg/m²
NO.47	38mm	38 x 152	8.0/6.0	1220 x 3660	Width direction	67%	15.92kg/m²
NO.48	40mm	60 x 220	6.3/5.0	1788 x 2238	Length Direction	67%	8.80kg/m²
NO.49	38mm	25 x 100 pultrusion type	15.0/5.0	1220 x 3660	Length Direction	62%	21.00kg/m²
NO.50	38mm	38 x 152 T Type	15.0/8.0	1220 x 3660	Length Direction	62%	18.60kg/m²
NO.51	50mm	38 x 100 pultrusion type	8.0/5.0	1220 x 3660	Length Direction	62%	15.30kg/m²
NO.52	38mm	25 x 152 Stair Tread	7.0/5.0	565 x 3050	Bidirectional force	62%	23.10kg/m²
NO.53	38mm	38 x 152 Stair Tread	7.0/5.0	580 x 3660	Bidirectional force	65%	17.00kg/m²

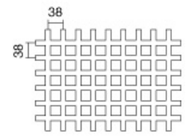
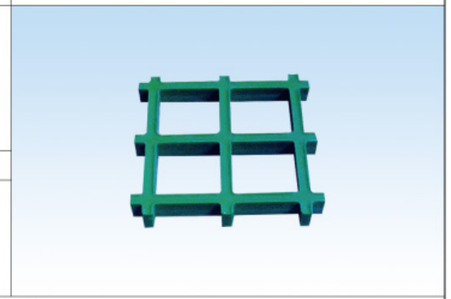
Note: In addition to 4.6.8.19.26.45 in the above list, apart from ISO, Ortho, vinyl grating we can produce phenolic grating as well.

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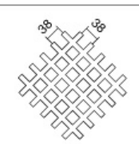
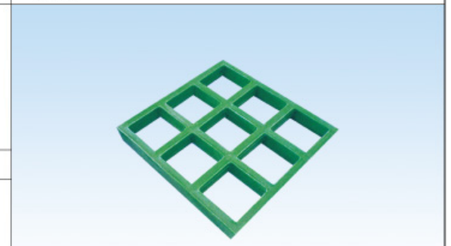
Molded Grating Detailed Sizes (unit mm)

(Thickness means H, Mesh sizes from ribs center to ribs center)

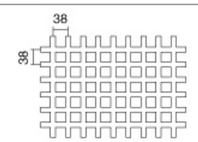
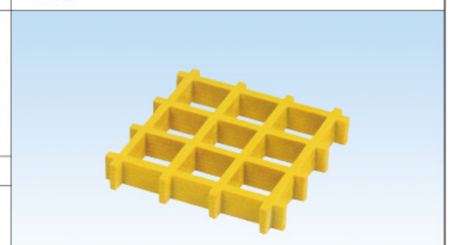
NO.01： H13

FRP molded grating 38x38 Square mesh		
Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness(top/bottom)		
6.0/5.0		
Bearing bar center distance		
38		
Opening area	Elevation view	
78%		
Approximate weight		
6.00kg/m²		
Tow-way force		
Optional size	1220 x 4000, 1220 x 3660, 1220 x 2440, 915 x 3050	

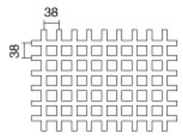
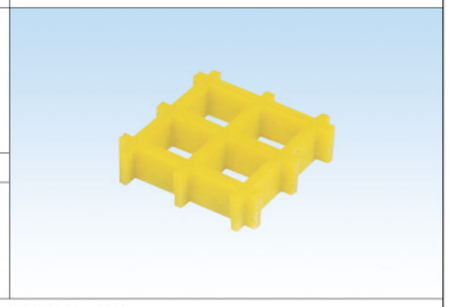
NO.02： H15

FRP molded grating 38x38 Itatic square mesh		
Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness(top/bottom)		
6.5/5.0		
Bearing bar center distance		
38		
Opening area	Elevation view	
78%		
Approximate weight		
7.00kg/m²		
Tow-way force		
Maximun size	1218 x 4100	

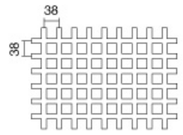
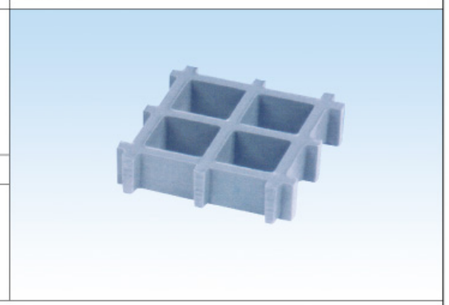
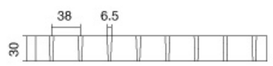
NO.03： H20

FRP molded grating 38x38 Square mesh		
Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness(top/bottom)		
6.0/5.0		
Bearing bar center distance		
38		
Opening area	Elevation view	
65%		
Approximate weight		
9.80kg/m²		
Tow-way force		
Optional size	1220 x 4000, 1220 x 3660, 1220 x 2440, 915 x 3050	

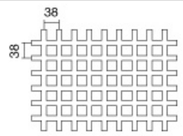
NO.04：H25

FRP molded grating 38x38 Square mesh		
Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness(top/bottom)		
6.4/5.0		
Bearing bar center distance		
38		
Opening area	Elevation view	
68%		
Approximate weight		
12.30kg/m²		
Tow-way force ※This specification can produce phenolic grille		
Optional size	1524 x 4000, 1220 x 4000, 1220 x 3660, 1220 x 2440, 915 x 3050	

NO.05：H30

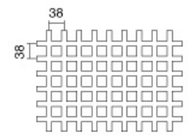
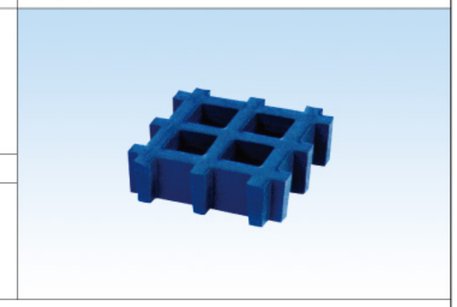
FRP molded grating 38x38 Square mesh		
Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness(top/bottom)		
6.5/5.0		
Bearing bar center distance		
38		
Opening area	Elevation view	
68%		
Approximate weight		
14.60kg/m²		
Tow-way force		
Optional size	1524 x 4000, 1220 x 4000, 1220 x 3660, 1220 x 2440, 915 x 3050	

NO.06：H38

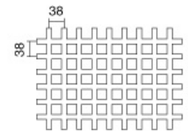
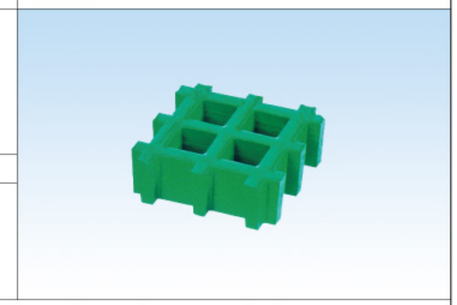
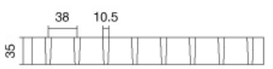
FRP molded grating 38x38 Square mesh		
Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness(top/bottom)		
7.0/5.0		
Bearing bar center distance		
38		
Opening area	Elevation view	
68%		
Approximate weight		
19.50kg/m²		
Tow-way force ※This specification can produce phenolic grille		
Optional size	1524 x 4000, 1524 x 3050, 1220 x 4000, 1220 x 3660, 1220 x 2440, 915 x 3050	

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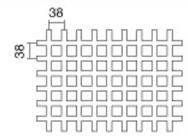
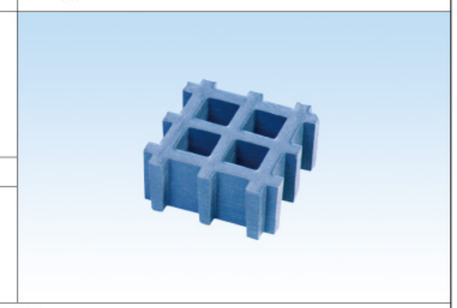
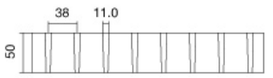
NO.06：H30

FRP molded grating 38x38 Square mesh Heavy loading type		
Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness(top/bottom)		
10.5/9.0		
Bearing bar center distance		
38		
Opening area	Elevation view	
58%		
Approximate weight		
25.00kg/m²		
Tow-way force		
Optional size	1220 x 3660, 1220 x 2440, 915 x 3050	

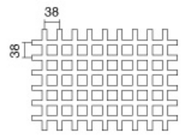
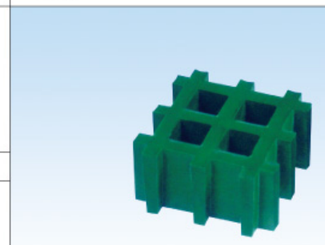
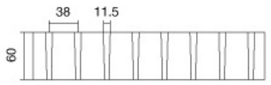
NO.08：H35

FRP molded grating 38x38 Square mesh Heavy loading type		
Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness(top/bottom)		
10.5/9.0		
Bearing bar center distance		
38		
Opening area	Elevation view	
56%		
Approximate weight		
29.40kg/m²		
Tow-way force ※This specification can produce phenolic grille		
Optional size	1220 x 3660, 1220 x 2440, 915 x 3050	

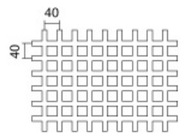
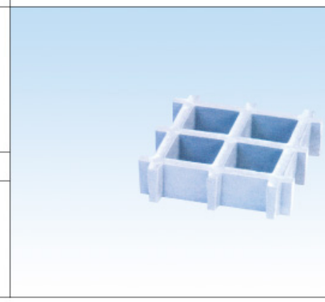
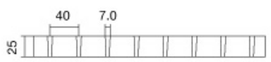
NO.09：H50

FRP molded grating 38x38 Square mesh Heavy loading type		
Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness(top/bottom)		
11.0/9.0		
Bearing bar center distance		
38		
Opening area	Elevation view	
56%		
Approximate weight		
42.00kg/m²		
Tow-way force		
Optional size	1220 x 4000, 1220 x 3660, 1220 x 2440, 915 x 3050	

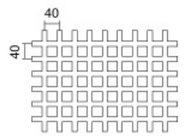
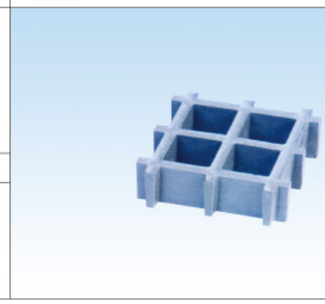
NO.10：H60

FRP molded grating 38x38 Square mesh Heavy loading type		
Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness(top/bottom)		
11.5/9.0		
Bearing bar center distance		
38		
Opening area	Elevation view	
54%		
Approximate weight		
50.40kg/m²		
Tow-way force		
Optional size	1220 x 4000, 1220 x 3660,1220 x 2440, 915 x 3050	

NO.11：H25

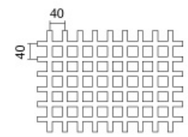
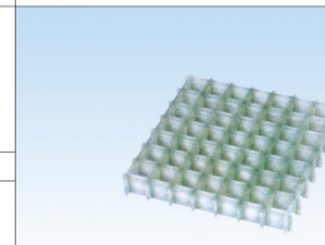
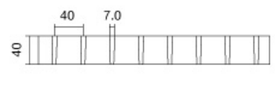
FRP molded grating 40x40 Square mesh		
Grid type	Plan view	Photo
SM 40 x 40		
Bearing bar thickness(top/bottom)		
7.0/5.0		
Bearing bar center distance		
40		
Opening area	Elevation view	
67%		
Approximate weight		
12.30kg/m²		
Tow-way force		
Optional size	1247 x 4047, 1007 x 4047, 1007 x 3007	

NO.12：H30

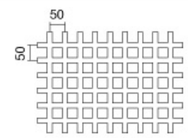
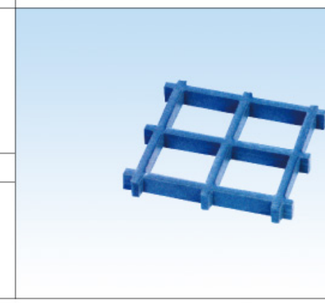
FRP molded grating 40x40 Square mesh		
Grid type	Plan view	Photo
SM 40 x 40		
Bearing bar thickness(top/bottom)		
7.0/5.0		
Bearing bar center distance		
40		
Opening area	Elevation view	
67%		
Approximate weight		
14.60kg/m²		
Tow-way force		
Optional size	1247 x 4047, 1007 x 4047, 1007 x 3007	

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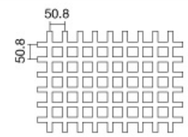
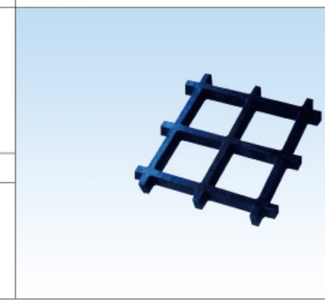
NO.13：H40

FRP molded grating 40x40 Square mesh		
Grid type	Plan view	Photo
SM 40 x 40		
Bearing bar thickness(top/bottom)		
7.0/5.0		
Bearing bar center distance		
40		
Opening area	Elevation view	
67%		
Approximate weight		
19.20kg/m²		
Tow-way force		
Optional size	1247 x 4047, 1007 x 4047, 1007 x 3007	

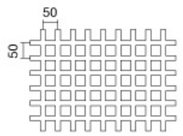
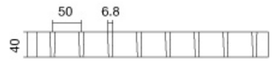
NO.14：H13

FRP molded grating 50x50 Square mesh		
Grid type	Plan view	Photo
SM 50 x 50		
Bearing bar thickness(top/bottom)		
6.0/5.0		
Bearing bar center distance		
50		
Opening area	Elevation view	
82%		
Approximate weight		
4.80kg/m²		
Tow-way force		
Optional size	1906 x 4012	

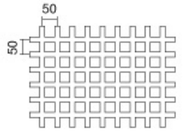
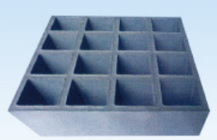
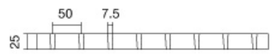
NO.15：H13

FRP molded grating 50.8x50.8 Square mesh		
Grid type	Plan view	Photo
SM 50.8 x 50.8		
Bearing bar thickness(top/bottom)		
7.0/6.0		
Bearing bar center distance		
50.8		
Opening area	Elevation view	
82%		
Approximate weight		
5.80kg/m²		
Tow-way force		
Optional size	1220 x 4000, 1220 x 3660, 1220 x 2440, 915 x 3050	

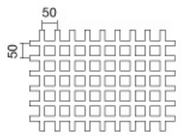
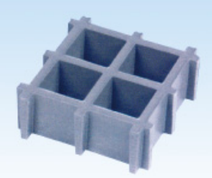
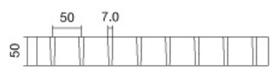
NO.16：H40

FRP molded grating 50x50 Square mesh		
Grid type	Plan view	Photo
SM 50 x 50		
Bearing bar thickness(top/bottom)		
6.8/5.0		
Bearing bar center distance		
50		
Opening area	Elevation view	
80%		
Approximate weight		
15.82kg/m²		
Tow-way force		
Optional size	1788 x 4531, 1225 x 5035	

NO.17：H25

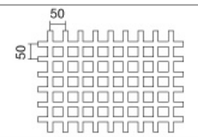
FRP molded grating 50x50 Square mesh		
Grid type	Plan view	Photo
SM 50 x 50		
Bearing bar thickness(top/bottom)		
7.5/6.0		
Bearing bar center distance		
50		
Opening area	Elevation view	
78%		
Approximate weight		
11.50kg/m²		
Tow-way force		
Optional size	1220 x 3660, 1220 x 2440, 915 x 3050	

NO.18：H50

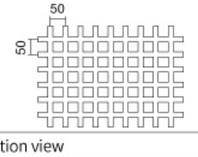
FRP molded grating 50x50 Square mesh		
Grid type	Plan view	Photo
SM 50 x 50		
Bearing bar thickness(top/bottom)		
7.0/5.0		
Bearing bar center distance		
50		
Opening area	Elevation view	
78%		
Approximate weight		
20.80kg/m²		
Tow-way force		
Optional size	1788 x 4531	

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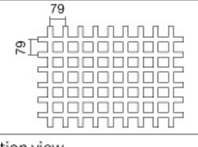
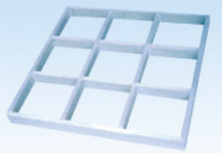
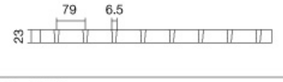
NO.19：H50

FRP molded grating 50x50 Square mesh		
Grid type	Plan view	Photo
SM 50 x 50		
Bearing bar thickness(top/bottom)		
8.0/6.0		
Bearing bar center distance		
50		
Opening area	Elevation view	
78%		
Approximate weight		
23.70kg/m²		
Tow-way force		
Optional size	1800 x 4000, 1524 x 4000, 1220 x 3660,1220 x 2440, 915 x 3050	

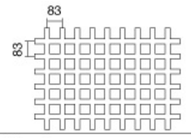
NO.20：H63

FRP molded grating 50x50 Square mesh		
Grid type	Plan view	Photo
SM 50 x 50		
Bearing bar thickness(top/bottom)		
8.3/6.0		
Bearing bar center distance		
50		
Opening area	Elevation view	
78%		
Approximate weight		
28.80kg/m²		
Tow-way force		
Optional size	1225 x 4000, 1225 x 3660, 1225 x 2440, 915 x 3050	

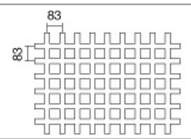
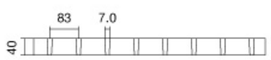
NO.21：H23

FRP molded grating 79x79 Square mesh		
Grid type	Plan view	Photo
SM 79 x 79		
Bearing bar thickness(top/bottom)		
6.5/5.0		
Bearing bar center distance		
79		
Opening area	Elevation view	
80%		
Approximate weight		
5.70kg/m²		
Tow-way force		
Optional size	405 x 3569	

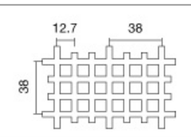
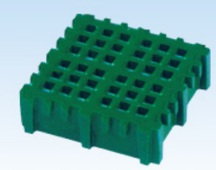
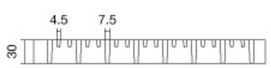
NO.22：H25

FRP molded grating 83x83 Square mesh		
Grid type	Plan view	Photo
SM 83 x 83		
Bearing bar thickness(top/bottom)		
7.0/5.0		
Bearing bar center distance		
83		
Opening area	Elevation view	
84%		
Approximate weight		
5.80kg/m²		
Tow-way force		
Optional size	1007 x 4007, 1007 x 3007	

NO.23：H40

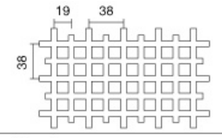
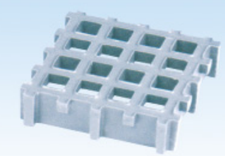
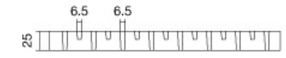
FRP molded grating 83x83 Square mesh		
Grid type	Plan view	Photo
SM 83 x 83		
Bearing bar thickness(top/bottom)		
7.0/5.0		
Bearing bar center distance		
83		
Opening area	Elevation view	
84%		
Approximate weight		
9.50kg/m²		
Tow-way force		
Optional size	1007 x 4007, 1007 x 3007	

NO.24：H30

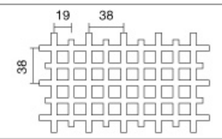
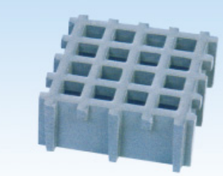
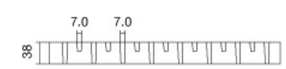
FRP molded grating 12.7x12.7/38x38 Square mesh Tiny holes type		
Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness(top/bottom)		
7.5&4.5/6.0		
Bearing bar center distance		
12.7		
Opening area	Elevation view	
30%		
Approximate weight		
22.00kg/m²		
Tow-way force		
Optional size	1220 x 3660, 1220 x 2440, 915 x 3050 Double layer	

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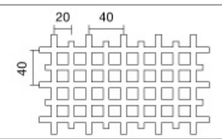
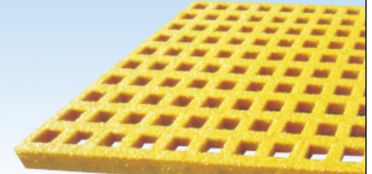
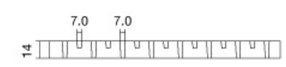
NO.25：H25

FRP molded grating 19x19/38x38 Square mesh Tiny holes type		
Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness(top/bottom)		
6.5/5.0		
Bearing bar center distance		
19		
Opening area	Elevation view	
40%		
Approximate weight		
16.80kg/m²		
Tow-way force		
Optional size	1220 x 4000, 1220 x 3660, 1220 x 2440, 915 x 3050 Double layer	

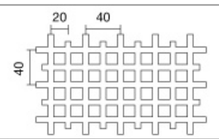
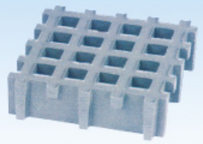
NO.26：H38

FRP molded grating 19x19/38x38 Square mesh Tiny holes type		
Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness(top/bottom)		
7.0/5.0		
Bearing bar center distance		
19		
Opening area	Elevation view	
40%		
Approximate weight		
23.50kg/m²		
Tow-way force ※This specification can produce phenolic grille		
Optional size	1524 x 4000, 1220 x 3660, 1220 x 2440, 915 x 3050 Double layer	

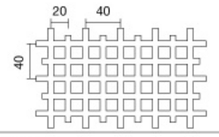
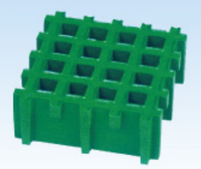
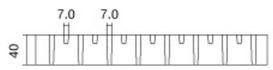
NO.27：H14

FRP molded grating 20x20/40x40 Square mesh Tiny holes type		
Grid type	Plan view	Photo
SM 40 x 40		
Bearing bar thickness(top/bottom)		
7.0/5.0		
Bearing bar center distance		
20		
Opening area	Elevation view	
42%		
Approximate weight		
10.50kg/m²		
Tow-way force		
Optional size	1247 x 4047, 1007 x 3007 Double layer	

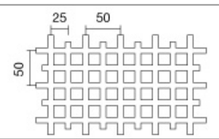
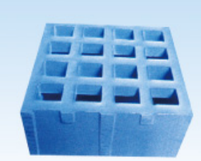
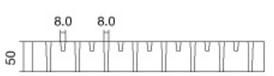
NO.28：H30

FRP molded grating 20x20/40x40 Square mesh Tiny holes type		
Grid type	Plan view	Photo
SM 40 x 40		
Bearing bar thickness(top/bottom)		
7.0/5.0		
Bearing bar center distance		
20		
Opening area	Elevation view	
42%		
Approximate weight		
18.00kg/m²		
Tow-way force		
Optional size	1007 x 4047, 1007 x 3007 Double layer	

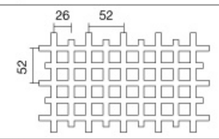
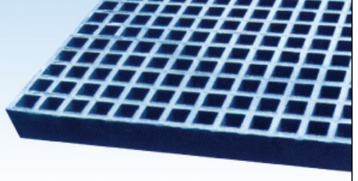
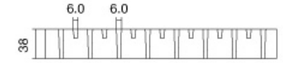
NO.29：H40

FRP molded grating 20x20/40x40 Square mesh Tiny holes type		
Grid type	Plan view	Photo
SM 40 x 40		
Bearing bar thickness(top/bottom)		
7.0/5.0		
Bearing bar center distance		
20		
Opening area	Elevation view	
42%		
Approximate weight		
23.70kg/m²		
Tow-way force		
Optional size	1007 x 4047, 1007 x 3007 Double layer	

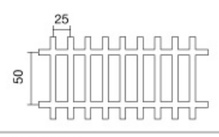
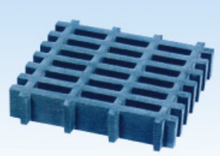
NO.30：H50

FRP molded grating 25x25/50x50 Square mesh Tiny holes type		
Grid type	Plan view	Photo
SM 50 x 50		
Bearing bar thickness(top/bottom)		
8.0/6.0		
Bearing bar center distance		
25		
Opening area	Elevation view	
55%		
Approximate weight		
28.50kg/m²		
Tow-way force		
Optional size	1524 x 4000 Double layer	

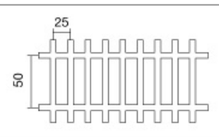
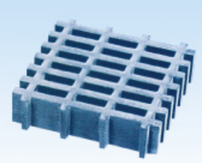
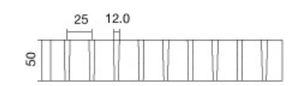
NO.31：H38

FRP molded grating 26x26/52x52 Square mesh Tiny holes type		
Grid type	Plan view	Photo
SM 52 x 52		
Bearing bar thickness(top/bottom)		
6.0/5.0		
Bearing bar center distance		
25		
Opening area	Elevation view	
60%		
Approximate weight		
19.50kg/m²		
Tow-way force		
Optional size	1150 x 4011 Double layer	

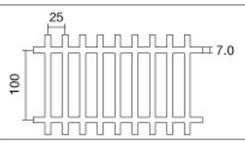
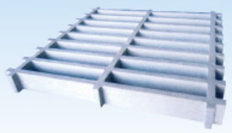
NO.32：H38

FRP molded grating 25x50 Rectangular grid Heavy loading type		
Grid type	Plan view	Photo
RM 25 x 50		
Bearing bar thickness(top/bottom)		
11.0/9.0		
Bearing bar center distance		
25		
Opening area	Elevation view	
48%		
Approximate weight		
30.30kg/m²		
Length direction bear the force		
Optional size	1220 x 3660	

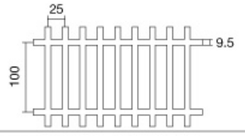
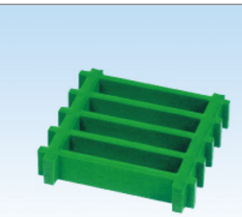
NO.33：H50

FRP molded grating 25x50 Rectangular grid Heavy loading type		
Grid type	Plan view	Photo
RM 25 x 50		
Bearing bar thickness(top/bottom)		
12.0/9.0		
Bearing bar center distance		
25		
Opening area	Elevation view	
48%		
Approximate weight		
41.00kg/m²		
Length direction bear the force		
Optional size	1220 x 3660	

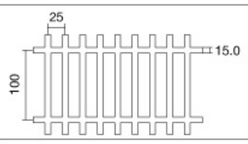
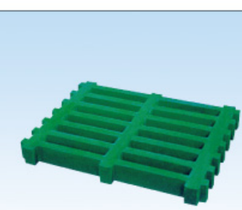
NO.34：H25

FRP molded grating 25x100 Rectangular grid		
Grid type	Plan view	Photo
RM 25 x 100		
Bearing bar thickness(top/bottom)		
7.0/5.5		
Bearing bar center distance		
25		
Opening area	Elevation view	
67%		
Approximate weight		
13.00kg/m²		
Length direction bear the force		
Optional size	1007 x 3007	

NO.35：H25

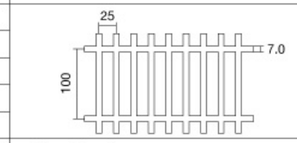
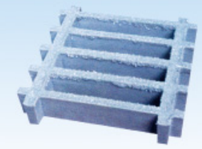
FRP molded grating 25x100 Rectangular grid		
Grid type	Plan view	Photo
RM 25 x 100		
Bearing bar thickness(top/bottom)		
6.5/5.0		
Bearing bar center distance		
25		
Opening area	Elevation view	
67%		
Approximate weight		
13.83kg/m²		
Tow-way force		
Optional size	1220 x 3660	

NO.36：H25

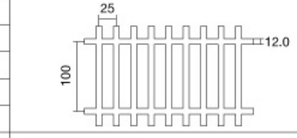
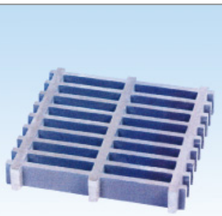
FRP molded grating 25x100 Rectangular grid Heavy loading type		
Grid type	Plan view	Photo
RM 25 x 100		
Bearing bar thickness(top/bottom)		
9.5/8.0		
Bearing bar center distance		
25		
Opening area	Elevation view	
52%		
Approximate weight		
19.50kg/m²		
Width direction bear the force		
Optional size	1220 x 3660, 1220 x 2440, 915 x 3050	

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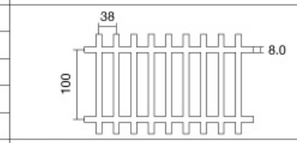
NO.37：H30

FRP molded grating 25x100 Rectangular grid		
Grid type	Plan view	Photo
RM 25 x 100		
Bearing bar thickness(top/bottom)		
7.5/5.5		
Bearing bar center distance		
25		
Opening area	Elevation view	
67%		
Approximate weight		
15.60kg/m²		
Width direction bear the force		
Optional size	1007 x 3007	

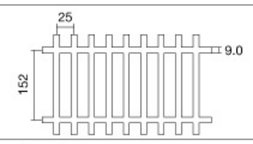
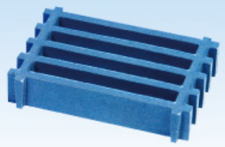
NO.38：H38

FRP molded grating 25x100 Rectangular grid		
Grid type	Plan view	Photo
RM 25 x 100		
Bearing bar thickness(top/bottom)		
8.0/6.0		
Bearing bar center distance		
25		
Opening area	Elevation view	
62%		
Approximate weight		
22.50kg/m²		
Width direction bear the force		
Optional size	1220 x 3660	

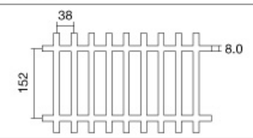
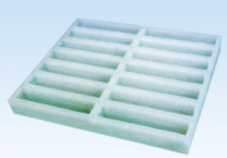
NO.39：H38

FRP molded grating 38x100 Rectangular grid		
Grid type	Plan view	Photo
RM 38 x 100		
Bearing bar thickness(top/bottom)		
8.0/6.0		
Bearing bar center distance		
38		
Opening area	Elevation view	
65%		
Approximate weight		
16.40kg/m²		
Length direction bear the force		
Optional size	1220 x 3660, 1220 x 2440, 915 x 3050	

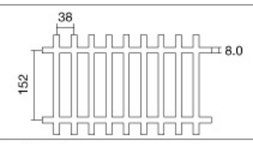
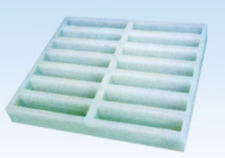
NO.40：H38

FRP molded grating 25x152 Rectangular grid		
Grid type	Plan view	Photo
RM 25 x 152		
Bearing bar thickness(top/bottom)		
9.0/6.5		
Bearing bar center distance		
25		
Opening area	Elevation view	
63%		
Approximate weight		
22.50kg/m²		
Length direction bear the force		
Optional size	1220 x 3660, 1220 x 2440, 915 x 3050	

NO.41：H38

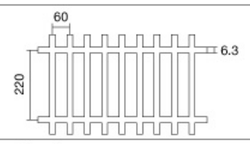
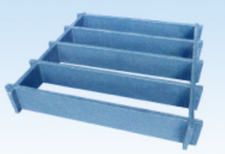
FRP molded grating 38x152 Rectangular grid		
Grid type	Plan view	Photo
RM 38 x 152		
Bearing bar thickness(top/bottom)		
8.0/6.0		
Bearing bar center distance		
38		
Opening area	Elevation view	
67%		
Approximate weight		
15.92kg/m²		
Length direction bear the force		
Optional size	1220 x 3660, 1220 x 2440, 915 x 3050	

NO.42：H38

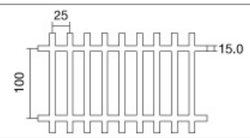
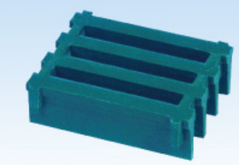
FRP molded grating 38x152 Rectangular grid		
Grid type	Plan view	Photo
RM 38 x 152		
Bearing bar thickness(top/bottom)		
8.0/6.0		
Bearing bar center distance		
38		
Opening area	Elevation view	
67%		
Approximate weight		
15.92kg/m²		
Width direction bear the force		
Optional size	1220 x 3660, 1220 x 2440, 915 x 3050	

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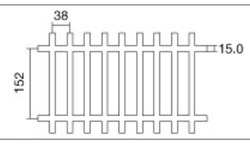
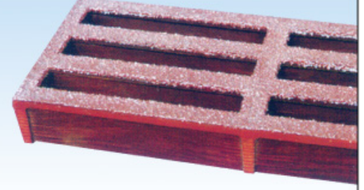
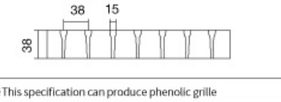
NO.43：H40

FRP molded grating 60x220 Rectangular grid		
Grid type	Plan view	Photo
RM 60 x 220		
Bearing bar thickness(top/bottom)		
6.3/5.0		
Bearing bar center distance		
60		
Opening area	Elevation view	
67%		
Approximate weight		
8.80kg/m²		
Length direction bear the force		
Optional size	1788 x 2238	

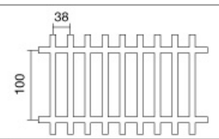
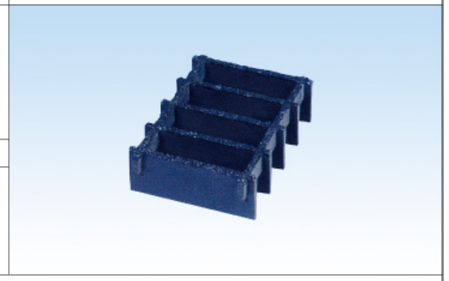
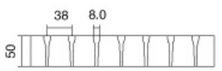
NO.44：H38

FRP molded grating 25x100 Rectangular grid Imitate pultrusion		
Grid type	Plan view	Photo
RM 25 x 100		
Bearing bar thickness(top/bottom)		
15.0/5.0		
Bearing bar center distance		
25		
Opening area	Elevation view	
62%		
Approximate weight		
21.00kg/m²		
Length direction bear the force		
Optional size	1220 x 3660	

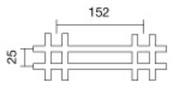
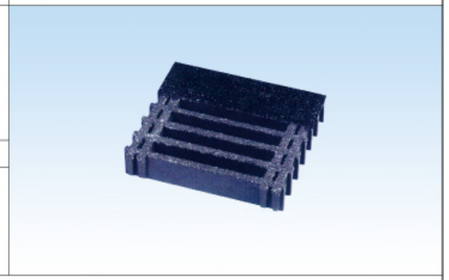
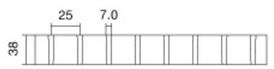
NO.45：H38

FRP molded grating 38x152 Rectangular grid T type		
Grid type	Plan view	Photo
RM 38 x 152		
Bearing bar thickness(top/bottom)		
15.0/8.0		
Bearing bar center distance		
38		
Opening area	Elevation view	
62%		
Approximate weight		
18.60kg/m²		
Length direction bear the force	※This specification can produce phenolic grille	
Optional size	1220 x 3660	

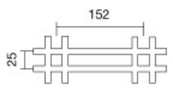
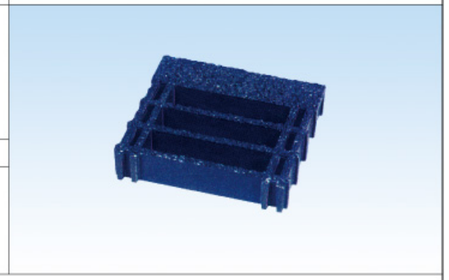
NO.46：H50

FRP molded grating 38x100 Rectangular grid Imitate pultrusion		
Grid type	Plan view	Photo
RM 38 x 100		
Bearing bar thickness(top/bottom)		
8.0/5.0		
Bearing bar center distance		
38		
Opening area	Elevation view	
62%		
Approximate weight		
15.30kg/m²		
Length direction bear the force		
Optional size	1220 x 3660	

NO.47：H38

FRP molded grating 25x152 Rectangular grid Stair treads		
Grid type	Plan view	Photo
RM 25 x 152		
Bearing bar thickness(top/bottom)		
7.0/5.0		
Bearing bar center distance		
25		
Opening area	Elevation view	
62%		
Approximate weight		
23.10kg/m²		
Two-way force		
Maximum size	565 x 3050	

NO.48：H38

FRP molded grating 38x152 Rectangular grid Stair treads		
Grid type	Plan view	Photo
RM 38 x 152		
Bearing bar thickness(top/bottom)		
7.0/5.0		
Bearing bar center distance		
38		
Opening area	Elevation view	
65%		
Approximate weight		
17.00kg/m²		
Two-way force		
Optional size	580 x 3660, 610 x 3660	

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Abundant product surfaces

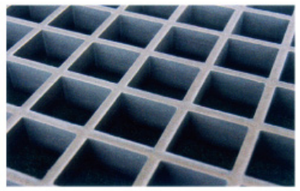
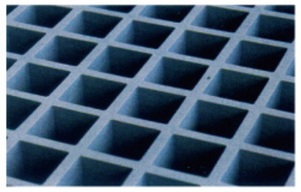
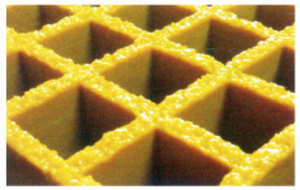
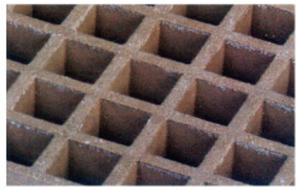
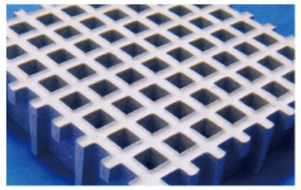
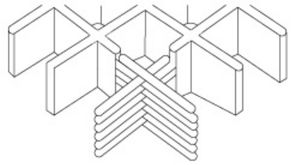
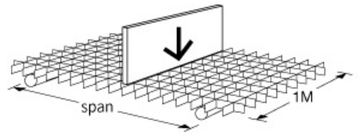
Code	Photo	Surface type	Recommended application
S-C		Groove type	Ordinary non-slip
S-S		Polished surface type	Used for decoration, door, isolation, celling
S-D/S-COVER/S-M		Mirror type, sanding cover type, Pattern cover type	Excellent anti-slip properties, can prevent the liquid form dripping and gases, fumes can be prevented too.
S-EG		Sanding inside mold	Excellent anti-slip properties
S-G		Sanding outside mold	Excellent anti-slip properties
S-MINI		Microporous type	Prevent small tools, small debris falling

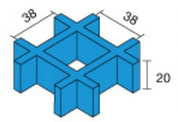
Table of Mechanical Properties of Common Molded Grille





Concentrated line load tables-deflection in millimeters

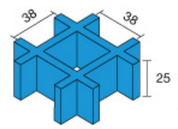
NO.03: H20 Mesh size 38x38



Bearing bar thickness(top/bottom)	6.0/5.0
Bearing bar center distance	38
Opening area	78%
Approximate weight	9.80kg/m²
Panel size: 1220*4000, 1220*3660, 1220*2440, 915*3050 bidirectional loading	

Deflection / Span	kgs/m					Ultimate load
	75	150	300	450	750	
300	0.254	0.508	1.016	1.524	2.54	4470
450	0.762	1.524	3.302	4.826	8.128	2980
600	1.778	3.81	7.62	11.176	--	2235
750	2.794	5.588	11.43	--	--	1788
900	5.334	10.668	--	--	--	1490

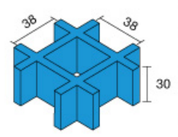
NO.04: H25 Mesh size 38x38



Bearing bar thickness(top/bottom)	6.4/5.0
Bearing bar center distance	38
Opening area	68%
Approximate weight	12.30kg/m²
Panel size: 1524*4000, 1220*4000, 1220*3660, 1220*2440,915*3050 bidirectional loading	

Deflection / Span	kgs/m						Ultimate load
	75	150	300	450	600	750	
450	0.559	1.146	2.159	3.073	4.115	4.75	3910
600	0.864	1.702	3.505	5.156	6.706	8.179	2924
900	2.896	5.918	12.116	18.44	--	--	1948
1200	5.715	11.633	--	--	--	--	1461

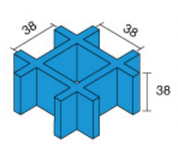
NO.05: H30 Mesh size 38x38



Bearing bar thickness(top/bottom)	6.5/5.0
Bearing bar center distance	38
Opening area	68%
Approximate weight	14.60kg/m²
Panel size: 1524*4000, 1220*4000, 1220*3660, 1220*2440,915*3050 bidirectional loading	

Deflection / Span	kgs/m						Ultimate load
	75	150	300	450	600	750	
300	<0.254	<0.254	0.254	0.508	0.762	1.524	9923.4
450	0.254	0.508	1.016	1.524	2.54	--	4827.6
600	0.508	1.27	2.286	3.556	5.842	--	4112.4
750	1.27	2.54	4.826	7.366	12.446	--	3173.7
900	1.778	3.81	7.62	11.43	--	--	2637.3

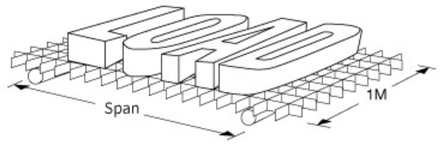
NO.06:H38 Mesh size 38x38



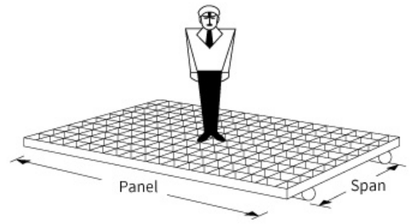
Bearing bar thickness(top/bottom)	7.0/5.0
Bearing bar center distance	38
Opening area	68%
Approximate weight	19.50kg/m²
Panel size: 1524*4000, 1220*4000, 1220*3660, 1220*2440,915*3050 bidirectional loading	

Deflection / Span	kgs/m						Ultimate load
	75	150	300	450	600	750	
300	0.279	0.356	0.483	0.61	0.762	0.889	17116
600	0.356	0.66	1.245	1.85	2.464	3.073	8718
900	0.864	1.803	3.683	5.563	7.417	9.296	5817
1200	2.261	4.749	9.677	14.63	19.583	--	3755

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Uniformed load tables-deflection in millimeters



Concentrated full panel load tables-deflection in millimeters

Deflection / Span	kgs/m²						Ultimate load
	350	500	750	1000	1500	2500	
300	<0.254	0.254	0.508	0.508	1.016	1.524	29280
450	1.016	1.524	2.286	3.048	4.572	7.62	12980.8
600	3.084	4.572	7.112	9.398	--	--	7320
750	5.842	8.89	--	--	--	--	4084.8
900	--	--	--	--	--	--	3226.8

Note: load tables are for the common used grating references only, other types pls contact our technical department.

Deflection / Span	kgs/m²						
	240	480	980	1450	2450	3650	4880
450	0.66	1.092	1.93	2.769	4.47	6.579	--
600	1.118	2.108	4.14	6.172	10.211	15.265	--
750	2.667	5.387	10.82	16.28	--	--	--
900	5.537	11.176	21.717	--	--	--	--

Deflection / Span	kgs						
	150	370	750	1120	1500	2200	2980
450	0.254	0.686	1.55	2.159	2.667	4.166	5.232
600	0.734	1.651	3.175	4.623	6.121	9.119	12.116
900	1.778	4.445	8.814	13.157	--	--	--
1200	2.946	7.544	15.062	--	--	--	--

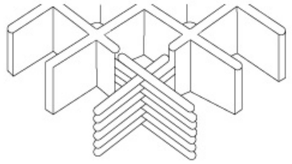
Deflection / Span	kgs/m²						Ultimate load
	350	500	750	1000	1500	2500	
300	<0.254	<0.254	<0.254	<0.254	0.254	0.508	32500.88
450	0.254	0.508	0.762	1.016	1.524	2.286	21661.2
600	1.016	1.524	2.286	2.794	4.318	7.366	12980.8
750	2.54	3.81	5.842	7.62	11.684	--	8296
900	4.572	7.112	10.668	--	--	--	5758.4

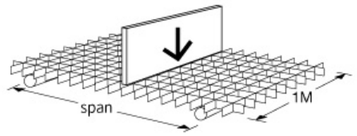
Deflection / Span	kgs				
	25	45	100	150	250
600	<0.254	0.254	0.762	1.016	1.778
750	0.254	0.762	1.27	2.032	3.302
900	0.508	0.762	1.778	2.54	4.064
1050	0.762	1.524	2.794	43.18	7.112
1200	1.016	1.778	3.81	5.588	9.398

Note: pressure weight *0.454
22.7 45.4 90.8 136.2 227 *0.454

Deflection / Span	kgs/m²						
	240	480	980	1450	2450	3650	4880
300	0.254	0.305	0.381	0.457	0.635	0.838	--
600	0.432	0.813	1.549	2.311	3.8354	5.74	--
900	1.702	3.454	6.959	10.465	17.475	--	--
1200	5.969	12.167	24.511	--	--	--	--

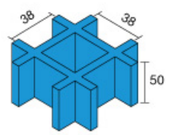
Deflection / Span	kgs						
	150	370	750	1120	1500	2200	2980
450	0.203	0.406	0.711	0.889	1.143	1.676	2.21
600	0.356	0.889	1.499	1.905	2.413	3.531	4.267
900	0.61	1.5	2.9	4.14	5.41	7.95	10.566
1200	0.914	2.388	4.699	6.96	9.195	13.665	--





Concentrated line load tables-deflection in millimeters

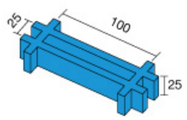
H50 Mesh size 50x50



Bearing bar thickness(top/bottom)	
8.0/6.0	
Bearing bar center distance	
50	
Opening area	
78%	
Approximate weight	
23.70kg/m²	
Panel size: 1800*4000, 1524*4000, 1220*3660, 1220*2440,915*3050 bidirectional loading	

Span \ Deflection	kgs/m						Break point
	75	150	300	450	600	750	
300	0.279	0.305	0.406	0.483	0.635	1.041	21727
600	0.356	0.508	0.813	1.128	1.753	3.327	11713
900	0.508	1.118	2.235	3.2	5.156	10.058	7780
1200	0.914	1.93	3.937	5.918	9.957	--	5834

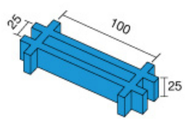
H25 Mesh size 25x100



Bearing bar thickness(top/bottom)	
7.0/5.5	
Bearing bar center distance	
25	
Opening area	
67%	
Approximate weight	
13.0kg/m²	
Panel size: 1220*3660 Width direction bear the force	

Span \ Deflection	kgs/m						Break point
	75	150	300	450	600	750	
300	0.33	0.483	0.737	0.991	1.27	1.52	9442
600	0.864	1.727	3.454	5.182	6.909	8.636	4305
750	1.397	2.718	5.105	7.163	9.55	11.938	3589
900	2.413	4.724	8.814	12.369	16.51	20.625	3216

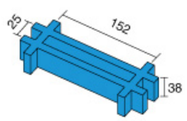
H25 Mesh size 25x100 Heavy duty



Bearing bar thickness(top/bottom)	
9.5/8.0	
Bearing bar center distance	
25	
Opening area	
52%	
Approximate weight	
19.50kg/m²	
Panel size: 1220*3660, 1220*2440, 915*3050 Width direction bear the force	

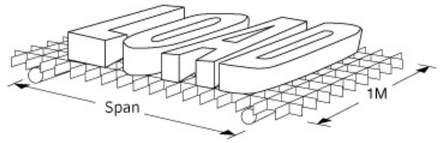
Span \ Deflection	kgs/m						Ultimate load
	75	150	300	450	750	1500	
300	<0.254	0.254	0.762	1.106	1.27	1.524	10057.5
450	0.508	0.762	1.778	2.54	3.302	4.318	7263.75
600	0.762	1.778	3.556	5.08	6.858	--	5773.75
750	1.524	3.048	6.096	9.144	11.938	--	4842.5
900	2.286	4.826	9.652	--	--	--	4172
1050	3.556	7.112	--	--	--	--	3687.75
1200	5.08	10.16	--	--	--	--	3501.50

H38 Mesh size 38x152

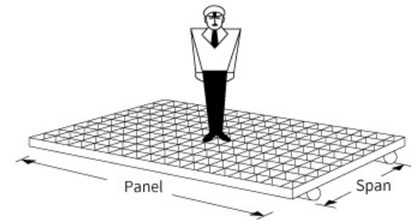


Bearing bar thickness(top/bottom)	
8.0/6.0	
Bearing bar center distance	
38	
Opening area	
67%	
Approximate weight	
15.92kg/m²	
Panel size: 1220*3660, 1220*2440, 915*3050 Length direction bear the force Width direction bear the force available	

Span \ Deflection	kgs/m						Ultimate load
	75	150	300	450	600	750	
300	<0.254	<0.254	0.254	0.508	0.508	0.762	12627.75
450	<0.254	0.254	0.762	1.016	1.524	1.778	9945.75
600	0.254	0.762	1.524	2.286	3.046	3.81	8232.25
750	0.762	1.27	2.794	4.064	5.334	6.604	7040.25
900	1.016	2.286	4.318	6.64	8.636	10.92	6146.25
1050	1.524	3.302	6.604	9.906	--	--	5438.5
1200	0.286	4.826	9.652	--	--	--	5140.5



Uniformed load tables-deflection in millimeters



Concentrated full panel load tables-deflection in millimeters

Span \ Deflection	kgs/m²						
	240	480	980	1450	2450	3650	4880
300	0.254	0.279	0.33	0.381	0.483	0.737	--
600	0.381	0.584	0.965	1.372	2.134	4.115	--
900	1.194	2.108	3.937	5.766	9.449	18.593	--
1200	2.413	4.928	9.957	14.961	--		--

Span \ Deflection	kgs						
	300	600	900	1500	2200	2980	3700
450	0.254	0.33	0.457	0.711	1.016	1.346	1.7018
600	0.381	0.8636	1.1176	1.524	2.032	2.54	3.1242
900	0.6604	1.2192	1.778	2.896	4.191	5.512	6.7564
1200	0.9398	1.8542	2.7432	4.547	6.807	9.271	11.252

Span \ Deflection	kgs/m²						
	240	480	980	1450	2450	3650	4880
300	0.279	0.381	0.533	0.711	1.041	--	1.905
600	0.914	1.854	3.683	5.537	9.22	--	18.466
900	3.632	6.6	12.573	18.542	--	--	--
1050	8.007	14.884	--	--	--	--	--

Span \ Deflection	kgs						
	150	370	750	1120	1500	2200	2980
450	0.279	0.686	1.448	2.209	2.718	4.191	5.41
600	0.711	1.524	3.531	4.623	6.02	9.22	12.294
900	1.626	3.962	7.823	11.811	--	--	--
1200	--	--	--	--	--	--	--

Span \ Deflection	kgs/m²						Ultimate load
	250	350	300	750	1000	1500	
300	<0.254	<0.254	<0.254	0.254	0.508	0.508	32940
450	0.508	0.508	0.762	1.27	1.524	2.286	18910
600	1.016	1.27	2.032	3.302	4.318	6.35	15860
750	2.286	3.048	4.572	7.112	9.398	--	12688
900	4.572	5.842	8.89	--	--	--	9110.96
1050	7.874	10.16	--	--	--	--	6900.32
1200	12.7	--	--	--	--	--	5734

Span \ Deflection	kgs						
	25	45	100	150	250	450	1000
250	<0.254	<0.254	0.254	0.508	0.762	1.27	2.54
400	<0.254	0.254	0.7626	1.016	1.524	3.302	12.192
550	0.254	0.508	1.27	1.778	3.048	6.096	--
700	0.508	1.016	2.032	3.048	5.08	10.16	--
850	0.762	1.524	3.048	4.572	7.62	--	--
1000	1.016	2.032	3.81	5.874	9.652	--	--
1150	12.7	2.54	5.334	7.874	--	--	--

Note: pressure weight*0.454
22.7 45.4 90.8 136.2 227 454 908 *0.454

Span \ Deflection	kgs/m²						Ultimate load
	250	350	300	750	1000	1500	
300	<0.254	<0.254	<0.254	0.254	0.508	0.508	32940
450	0.508	0.508	0.762	1.27	1.524	2.286	18910
600	1.016	1.27	2.032	3.302	4.318	6.35	15860
750	2.286	3.048	4.572	7.112	9.398	--	12688
900	4.572	5.842	8.89	--	--	--	9110.96
1050	7.874	10.16	--	--	--	--	6900.32
1200	12.7	--	--	--	--	--	5734

Span \ Deflection	kgs						
	25	45	100	150	250	450	1000
250	<0.254	<0.254	<0.254	<0.254	0.254	0.762	1.27
400	<0.254	0.254	0.508	0.762	1.016	2.032	4.318
550	<0.254	0.254	0.762	1.016	1.778	3.302	6.858
700	0.254	0.508	1.016	1.524	2.54	5.334	10.414
850	0.508	0.762	1.524	2.286	4.064	7.874	--
1000	0.508	1.016	2.286	3.302	5.588	11.176	--
1150	0.762	1.524	3.048	4.572	7.366	--	--

Note: pressure weight*0.454
22.7 45.4 90.8 136.2 227 454 908 *0.454

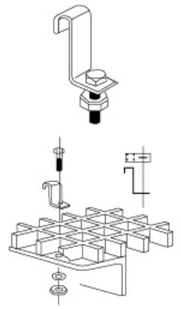
Molded grating chemical resistance Chart

Chemicals	Maximum service temperature (°C)			
	Concentration (%)	Vinyl ester resin	Iso resin	Ortho resin
Hydrochloric acid	30	82	65	Not recommended
Nitric acid	35	38	Not recommended	Not recommended
Sulfuric acid	25	82	65	Not recommended
Hydrofluoric acid	10	24	Not recommended	Not recommended
Lactic acid	100	82	65	60
Hypochlorous acid	saturated	60	Not recommended	Not recommended
Citric acid	All	49	Not recommended	Not recommended
Potassium hydroxide	10	49	Not recommended	Not recommended
Sodium hydroxide	10	82	Not recommended	Not recommended
Calcium hydroxide	25	82	65	Not recommended
Calcium hypochlorite	25	82	65	Not recommended
Ferric chloride	100	82	65	60
Aluminium chloride	All	82	65	60
Mercuric chloride	100	82	65	60
Silver nitrate	100	82	65	60
Fuel	All	24	Not recommended	Not recommended
Ammonia	All	24	24	Not recommended
Copper oxide	100	124	Not recommended	Not recommended
Sodium salt	100	Not recommended	Not recommended	Not recommended
Zinc chloride	All	38	38	38
Acetone	All	82	65	60
Chloroform	10	24	Not recommended	Not recommended
Copper salts	All	38	38	38
Phenols	All	82	Not recommended	Not recommended
Ozone for water treatment	30	24	Not recommended	Not recommended
Bleach solution (for paper	All	24	Not recommended	Not recommended
mills)	All	82	Not recommended	Not recommended
Hydroammonia	All	52	52	Not recommended
Paper Mill Black Liquor	100	82	65	60
Glycerol	saturated	82	65	60
Sulfur dioxide	50	82	Not recommended	Not recommended
Water	100	82	65	60
Alum	All	82	65	60
Chlorine water	saturated	49	Not recommended	Not recommended

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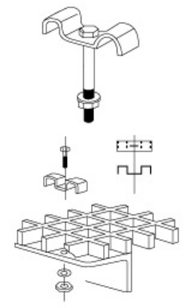
Installation method and accessories of fiberglass grating

Installation of Molded grating



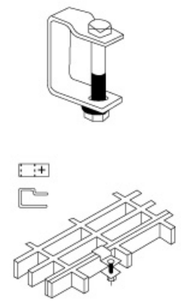
Type L

It is used for the special positioning connection of grating and support material.



Type M

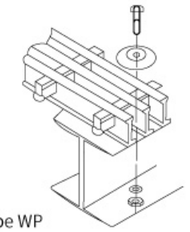
It is used for the special positioning connection of grating and support material.



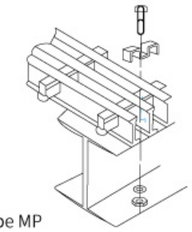
Type C

It is used to connect the edges between two grids, so that the platform hasGood overall performance.

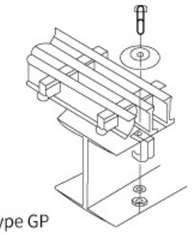
Installation of Pultruded grating



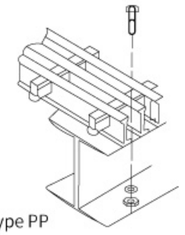
Type WP



Type MP

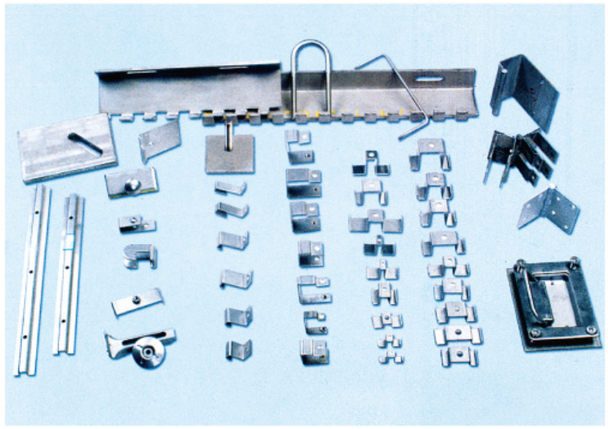


Type GP



Type PP

Note: the clips and assemblies are made of 316 stainless grade, including: clips, nuts, bolts, and washers.



■ Collect of Mounting accessories

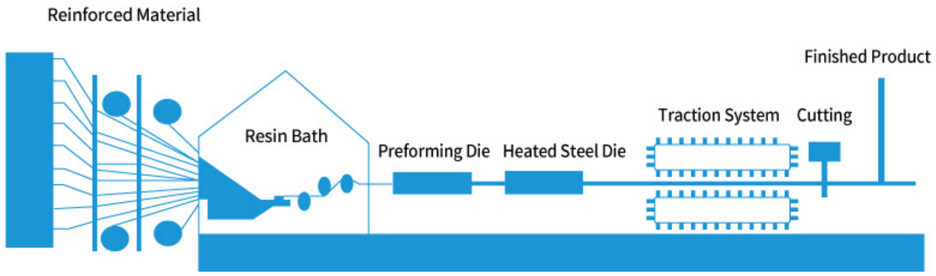


■ Real examples of Mounting accessories

Pultruded grating series

Pultruded grating production process

Pultruded FRP grating is a plate with voids made by using pultruded "I", "T" shape and other profiles as bearing strips, solid pipes or bars as connecting rods, and through a certain assembly process.



Production Process of FRP Pultruded grating





Pultruded Grating Production Process

Pultruded FRP grating has most of the characteristics of molded FRP grating, but also has its significant differences, the most important point is the high glass fiber content in the direction of the bearing strip, so compared with molded FRP grating, the use in large span is more superior, and reduce the basic supporting, and low the engineering costs.

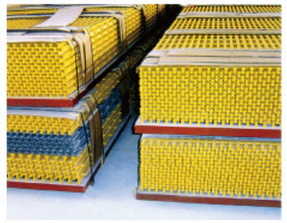
Nantong Mach's
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FRP platform and grating
manufacturer

Anti-corrosion:
Excellent ISO, ORTHO, vinyl resin and FRP cover plate with surface felt are selected, which has excellent corrosion resistance.

Lightweight:
FRP cover plate is only about a quarter of the weight of steel, FRP grating quotation, very easy to handle, thus reducing handling costs.

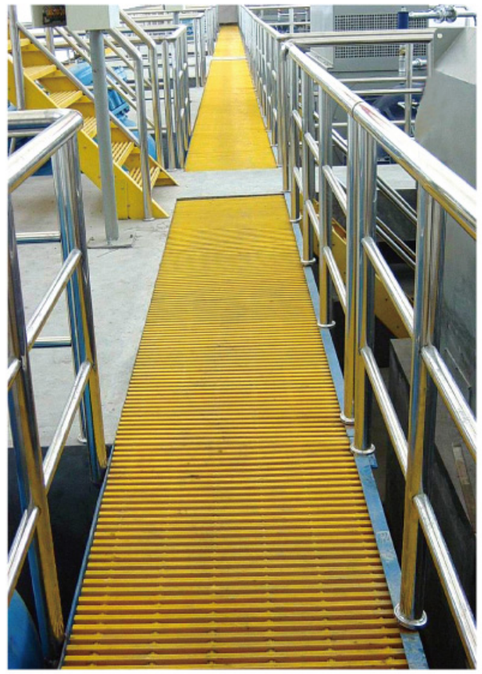
High strength:
FRP cover plate according to the weight ratio of about 35% resin, glass fiber accounted for 65%, with a very high strength/weight ratio.

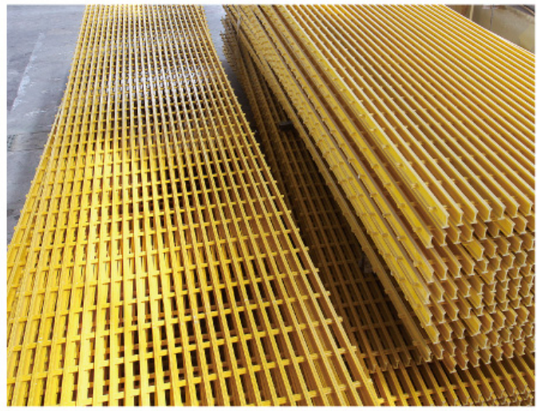
UV protection:
FRP cover plate is added with anti-ultraviolet agent and polyester surface felt in the formula to obtain anti-ultraviolet effect.



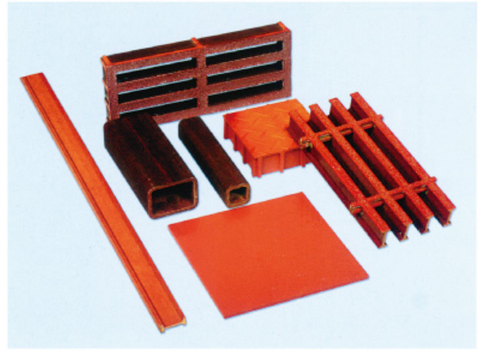
Flame retardant:
Flame retardant effect with ASTM E-84 test class 25 or higher oxygen index. (according to engineering needs)

Other excellent properties:
Impact resistance, maintenance-free, easy processing, non-slip and non-dangerous, insulation and heat insulation, etc.





Application Note: Phenolic products are used in occasions with high fire rating, and their high flame retardancy and low smoke density have high safety.



Phenolic FRP products

- High flame retardant, low smoke and low toxicity
- High temperature resistant working environment
- Light weight and high strength
- Good anti-corrosion performance
- Low maintenance costs

Pultruded grating raw materials system

Selection of resin type			
Code name	**Resin matrix**	**Corrosion resistance**	**Recommended for use**
VE	Vinyl	Excellent	Acids, alkalis, solvents and other harsh corrosion environment
ISO	Isophthalic resin	Good	Excellent acid resistance, moderate alkali resistance and solvent resistance
ORTHO	Orthophthalic resin	So so	General acid and alkali environment
PHENO	Phenolic	Excellent	low smoke, low toxic, high flame retardants

Glass fiber roving type selected		
Code name	**Roving type**	**Recommended for use**
E	Alkali-free roving	It is used in applications with high strength requirements and corrosion resistance
C	Alkali-medium roving	It is more economical than E, but has lower strength and better acid resistance

Glass fiber roving type selected		
Code name	**Filler type**	**Recommended for use**
ATH	Aluminum hydroxide	Flame retardant, smoke suppression, corrosion resistant occasions
CAO	Calcium carbonate	Much Economic than ATH, no flame retardant
PR	No filler, pure resin	Used in highly corrosion-resistant applications

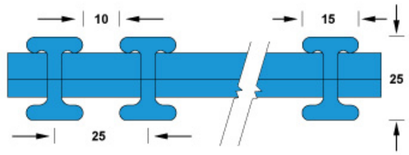
Pultrusion grating detailed specifications, dimensions and parameters

Type	Height Inch (mm)	Top edge width (mm)	Space between (mm)	Clearance width (mm)	Open area (%)	Estimated weight (kg/m²)
I-4010	25	15	25	10	40	17.8
I-5010	25	15	30	15	50	15.1
I-6010A	25	15	38	23	60	12.2
I-6010B	25	8	19.8	11.8	60	13.7
I-4015	38	15	25	10	40	22
I-5015	38	15	30	15	50	19.1
I-6015	38	15	38	23	60	16.2
I-4012	30	15	25	10	40	19.1
I-5012	30	15	30	15	50	16.1
I-6012	30	15	38	23	60	13.1
I-40125	32	15	25	10	40	19.8
I-50125	32	15	30	15	50	17.4
I-60125	32	15	38	23	60	13.5
I-4020	50	15	25	10	40	28.5
I-5020	50	15	30	15	50	24.2
I-6020	50	15	38	23	60	20.1
T-1210	25	38	43.4	5.4	12	15.6
T-1810	25	38	50.8	9.5	18	13.8
T-2510	25	38	50.8	12.7	25	13.6
T-3310	25	41.3	61	19.7	33	11.2
T-3810	25	38	61	23	38	11.8
T-1215	38	38	43.3	5.2	12	19.6
T-2515	38	38	50.8	12.7	25	16.7
T-3815	38	38	61	23	38	14.2
T-3320	50	25.4	38.1	12.7	33	21.7
T-5020	50	25.4	50.8	25.4	50	17.2
HL-4020	50	15	10	10	40	62.8
HL-5020	50	15	15	15	50	52.2
HL-6020	50	15	23	23	60	43.5

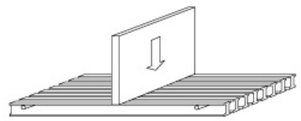
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Pultruded grating sizes and loading table (mm)

I-4010

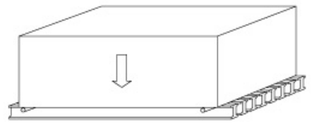


Grating thickness: 25mm
Opening area: 40%
Three core tip: 17.1 kg/m²



Linear load (unit:mm)

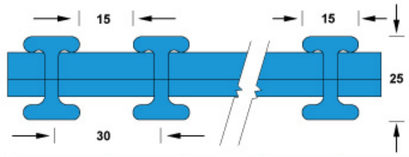
Span \ kg/m	300	450	750	1500	3000	5950	maximum load
450	--	--	1.02	2.03	4.06	7.62	16593
600	--	--	2.54	4.57	8.89	17.53	12959
900	2.8	4.06	6.6	13.46	26.9	53.85	8639
1200	5.84	8.89	14.73	29.46	59.2	118.11	6420



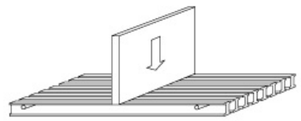
Uniform load (unit:mm)

Span	kgs/m²						maximum load
	1000	1900	3900	7000	9500	19500	
450	1.25	0.76	1.27	2.29	3.05	6.1	72325
600	1.01	1.27	3.56	6.86	8.89	--	42515
900	4.57	8.38	16.26	--	--	--	18863
1200	14.48	--	--	--	--	--	10507

I-5010

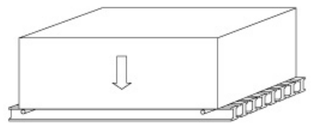


Grating thickness: 25mm
Opening area: 50%
Three core tip: 14.2 kg/m²



Linear load (unit:mm)

Span \ kg/m	300	450	750	1500	3000	5950	maximum load
450	--	--	1.02	2.03	4.06	7.62	13808
600	--	--	2.54	4.85	9.4	18.8	10799
900	2.54	4.06	6.86	13.46	27.2	54.1	7194
1200	7.37	10.9	18.29	36.58	73.2	146.05	5362

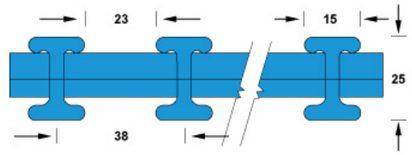


Uniform load (unit:mm)

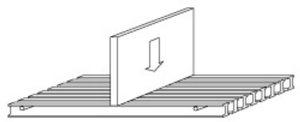
Span	kgs/m²						maximum load
	1000	1900	3900	7000	9500	19500	
450	0.51	0.76	1.27	2.54	3.302	6.6	60499
600	1.27	2.29	4.06	5.08	7.26	15.24	35429
900	4.83	8.89	17.27	--	--	--	15638
1200	16.51	--	--	--	--	--	8796

Pultruded grating sizes and loading table (mm)

I-6010

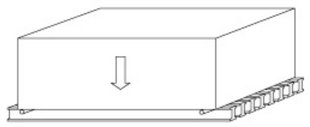


Grating thickness: 25mm
Opening area: 60%
Three core tip: 11.2 kg/m²



Linear load (unit:mm)

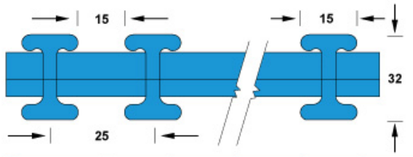
Span \ kg/m	300	450	750	1500	3000	5950	maximum load
450	--	--	1.52	2.54	4.83	9.65	11067
600	--	--	3.05	5.59	11.2	22.1	8639
900	3.3	4.83	7.87	15.75	31.5	62.99	5750
1200	7.87	11.7	19.3	38.61	77.5	154.69	4275



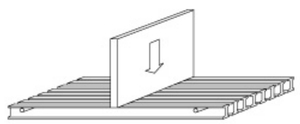
Uniform load (unit:mm)

Span	kgs/m²						maximum load
	1000	1900	3900	7000	9500	19500	
450	0.51	0.76	1.52	2.79	3.81	7.37	48380
600	1.27	2.29	4.57	8.38	11.18	--	28344
900	5.84	10.92	--	--	--	--	12559
1200	17.78	--	--	--	--	--	6988

I-40125

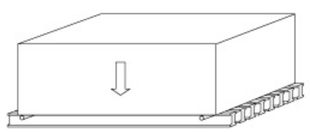


Grating thickness: 232mm
Opening area: 40%
Three core tip: 19.83 kg/m²



Linear load (unit:mm)

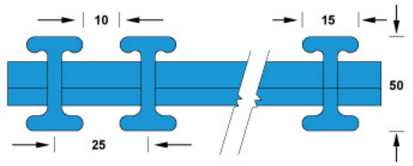
Span \ kg/m	300	500	800	1000	1500	2000	2500	3900	5000
600	0.44	0.73	1.17	1.46	2.19	2.92	3.65	5.69	7.29
800	0.98	1.63	2.61	3.27	4.9	6.54	8.17	12.75	--
1000	1.85	3.09	4.94	6.17	9.26	12.34	15.43	--	--
1200	3.10	5.16	8.26	10.32	15.49	--	--	--	--



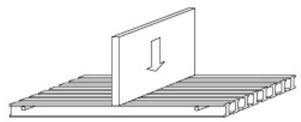
Uniform load (unit:mm)

Span	kgs/m²								
	300	500	1000	1500	2000	2500	5000	10000	15000
600	0.16	0.27	0.55	0.82	1.09	1.37	2.73	5.47	8.20
800	0.49	0.82	1.63	2.45	3.27	4.08	8.17	--	--
1000	1.16	1.93	3.86	5.79	7.72	9.64	--	--	--
1200	2.32	3.87	7.74	11.62	15.49	--	--	--	--

I-4020

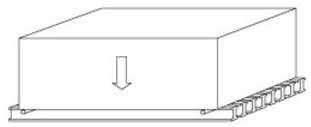


Grating thickness: 50mm
Opening area: 40%
Three core tip: 28.5 kg/m²



Linear load (unit:mm)

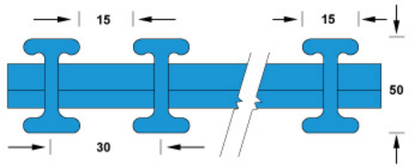
Span	kgs/m						maximum load
	450	750	1000	1500	2000	2500	3000
450	0.09	0.15	0.20	0.30	0.40	0.50	0.60
600	0.21	0.35	0.47	0.71	0.94	1.18	1.42
900	0.72	1.20	1.65	2.45	3.22	4.02	4.83
1200	1.71	2.84	3.79	7.58	7.58	9.48	11.36



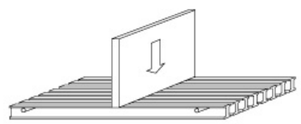
Uniform load (unit:mm)

Span	kgs/m						maximum load
	1000	2000	3000	4000	5000	6000	8000
450	0.12	0.25	0.37	0.55	0.62	0.75	1.09
600	0.29	0.59	0.88	1.18	1.48	1.77	2.37
900	1.05	2.02	3.03	4.05	5.02	6.00	8.15
1200	2.37	4.74	7.11	9.48	6.86	8.23	10.98
1500	4.63	9.26	13.82	18.56	11.85	14.22	--

I-6020

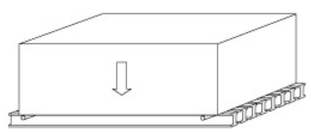


Grating thickness: 50mm
Opening area: 60%
Three core tip: 20.1 kg/m²



Linear load (unit:mm)

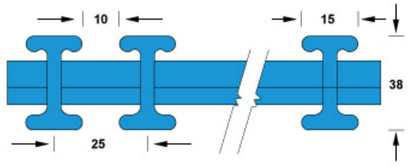
Span	kgs/m						
	300	750	1000	1500	2000	2500	300
450	0.09	0.23	0.30	0.46	0.61	0.76	0.92
600	0.21	0.54	0.72	1.09	1.45	1.82	2.18
900	0.73	1.84	2.46	3.69	4.92	6.15	7.38
1200	1.75	4.37	5.83	8.75	11.65	14.52	--



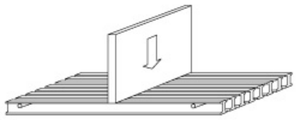
Uniform load (unit:mm)

Span	kgs/m						
	1000	2000	3000	4000	5000	7000	8000
450	0.19	0.38	0.57	0.76	0.96	1.34	1.53
600	0.45	0.91	1.36	1.82	2.27	3.19	3.64
900	1.53	3.07	4.61	6.15	7.69	10.70	12.35
1200	3.64	7.29	10.98	14.55	--	--	--

I-4015

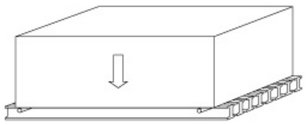


Grating thickness: 38mm
Opening area: 40%
Three core tip: 22.0 kg/m²



Linear load (unit:mm)

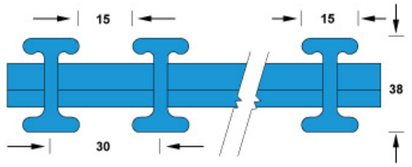
Span	kgs/m						maximum load
	300	450	750	1500	3000	5950	
450	0.12	0.25	0.51	0.76	1.52	2.79	26215
600	0.29	0.51	1.02	1.78	3.05	5.84	19661
900	1.02	1.27	2.29	5.32	9.38	17.76	12705
1200	2.95	3.59	5.57	9.4	19.1	38.85	9086



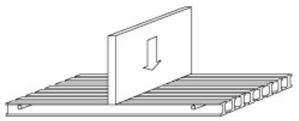
Uniform load (unit:mm)

Span	kgs/m						maximum load
	1000	1900	3900	7000	9500	19500	
450	0.25	0.45	0.76	1.67	2.42	4.83	114645
600	0.61	1.18	2.32	4.59	5.96	9.62	64506
900	1.92	3.79	6.33	11.2	15.46	--	27757
1200	4.96	9.64	--	--	--	--	14905

I-5015

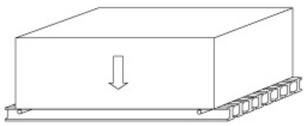


Grating thickness: 38mm
Opening area: 50%
Three core tip: 19.1 kg/m²



Linear load (unit:mm)

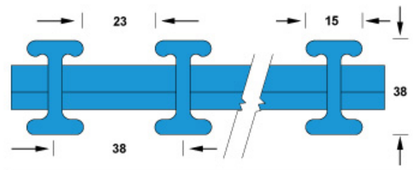
Span	kgs/m						maximum load
	300	450	750	1500	3000	5950	
450	0.15	0.25	0.51	1.02	1.78	3.3	21836
600	0.31	0.51	1.02	1.78	3.56	6.86	16385
900	1.02	1.52	2.54	6.08	11.91	20.87	10576
1200	2.89	4.56	7.84	14.94	28.4	--	7567



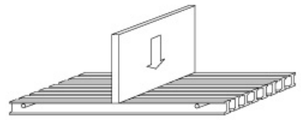
Uniform load (unit:mm)

Span	kgs/m						maximum load
	1000	1900	3900	7000	9500	19500	
450	0.25	0.51	0.96	2.27	2.97	4.56	955537
600	0.81	1.52	2.61	4.95	6.96	12.96	53755
900	2.58	4.93	9.15	17.7	--	--	23164
1200	6.59	12.93	--	--	--	--	12422

I-6015

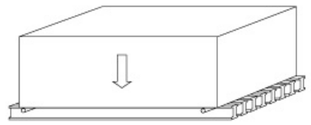


Grating thickness: 38mm
Opening area: 60%
Three core tip: 16.2 kg/m²



Linear load (unit:mm)

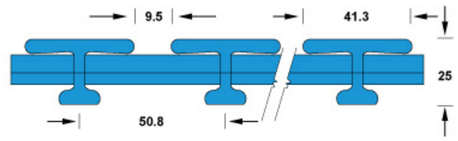
Span	kgs/m						maximum load
	300	450	750	1500	3000	5950	
450	0.19	0.29	0.51	0.96	2.03	3.81	17472
600	0.51	0.76	1.02	2.29	4.32	8.38	13108
900	1.57	2.33	3.89	7.11	14.56	25.15	8460
1200	2.79	4.32	7.11	14.22	28.5	56.9	6047



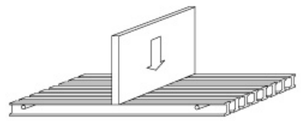
Uniform load (unit:mm)

Span	kgs/m						maximum load
	1000	1900	3900	7000	9500	19500	
450	0.45	0.75	1.56	2.97	3.78	6.56	76430
600	0.91	1.82	3.78	6.83	8.57	14.89	43004
900	3.29	6.06	9.87	18.7	--	--	18570
1200	7.6	14.95	--	--	--	--	9920

T-1810

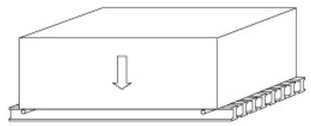


Grating thickness: 25mm
Opening area: 18%
Three core tip: 13.8 kg/m²



Linear load (unit:mm)

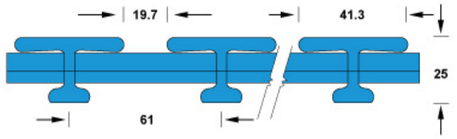
Span	kgs/m						maximum load
	300	500	800	1500	2000	2500	
400	0.40	0.67	1.07	2.00	2.67	3.34	5900
600	1.24	2.06	3.30	8.25	--	--	2300
800	2.76	4.59	7.35	13.78	--	--	2300
1000	5.16	8.60	13.76	--	--	--	2200



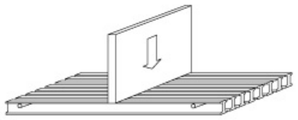
Uniform load (unit:mm)

Span	kgs/m						maximum load
	300	500	800	1500	2000	2500	
400	0.10	0.17	0.27	0.50	0.67	0.83	29600
600	0.46	0.77	1.24	2.32	3.10	3.87	12700
800	1.38	2.30	3.67	6.89	9.18	11.48	7300
1000	3.22	5.37	8.60	--	--	--	4600

T-3310

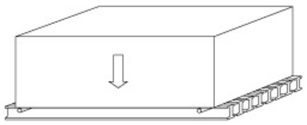


Grating thickness: 25mm
Opening area: 33%
Three core tip: 11.2 kg/m²



Linear load (unit:mm)

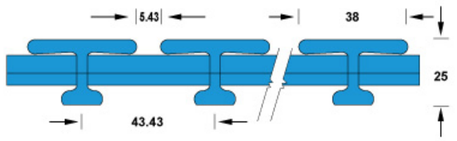
Span	kgs/m						maximum load
	300	450	750	1500	3000	5950	
450	0.584	0.86	1.448	2.87	5.74	--	10309
600	1.27	1.93	3.226	6.452	--	--	7731
900	4.013	5.99	10.06	--	--	--	5024
1200	8.992	--	--	--	--	--	3620



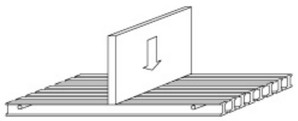
Uniform load (unit:mm)

Span	kgs/m						maximum load
	1000	1900	3900	7000	9500	19500	
450	0.56	1.069	2.134	4.039	5.23	--	45076
600	1.63	3.226	6.542	12.12	--	--	25363
900	7.52	15.04	--	--	--	--	10971
1200	--	--	--	--	--	--	5938

T-1210

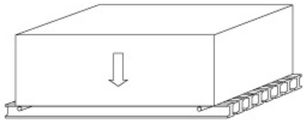


Grating thickness: 25mm
Opening area: 12%
Three core tip: 17.9 kg/m²



Linear load (unit:mm)

Span	kgs/m						maximum load
	150	300	450	750	1500	3000	
450	0.254	0.508	0.762	1.27	2.286	4.826	6481.5
600	0.508	1.016	1.524	2.286	4.826	9.652	4857.4
900	1.524	3.048	4.826	7.874	--	--	3233.3
1200	3.556	7.366	10.922	--	--	--	2428.7

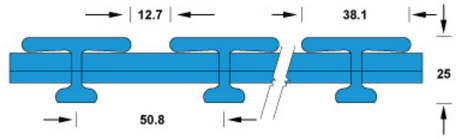


Uniform load (unit:mm)

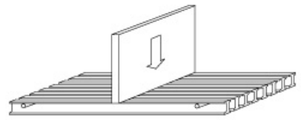
Span	kgs/m						maximum load
	450	950	1450	2400	4850	9500	
450	<0.254	0.254	0.762	1.016	2.286	4.572	14932.8
600	0.508	1.27	1.778	3.048	6.096	12.92	11175.2
900	2.794	5.842	8.89	--	--	--	7076
1200	9.144	--	--	--	--	--	3562.4

Nantong Mach's
Professional
FRP platform and grating
manufacturer

T-2510

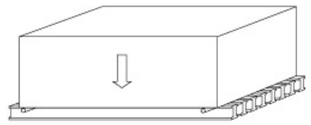


Grating thickness: 25mm
Opening area: 25%
Three core tip: 13.6 kg/m²



Linear load (unit:mm)

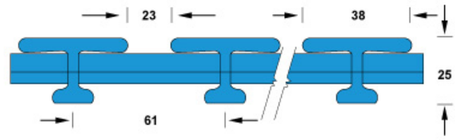
Span	kgs/m						maximum load
	150	300	450	750	1500	3000	
450	0.254	0.508	0.762	1.27	2.794	5.588	4619
600	0.508	1.016	1.778	2.794	5.588	11.43	3471.7
900	1.778	3.556	5.588	9.144	--	--	2309.5
1200	2.032	4.318	8.382	12.7	--	--	1728.4



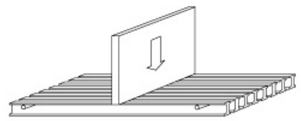
Uniform load (unit:mm)

Span	kgs/m						maximum load
	450	950	1450	2400	4850	9500	
450	0.254	0.508	0.762	1.27	2.54	5.08	10638.4
600	0.762	1.524	2.032	3.556	7.112	--	8003.2
900	3.556	6.858	10.414	--	--	--	5075.2
1200	10.668	--	--	--	--	--	2830.4

T-3810

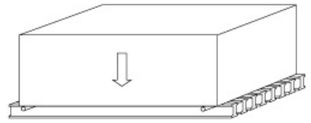


Grating thickness: 25mm
Opening area: 38%
Three core tip: 11.8 kg/m²



Linear load (unit:mm)

Span	kgs/m						maximum load
	300	450	750	1500	3000	5950	
450	0.711	1.02	1.727	3.454	6.91	--	8600
600	1.549	2.34	3.886	7.747	--	--	6427
900	4.826	7.21	--	--	--	--	4180
1200	10.77	--	--	--	--	--	3018

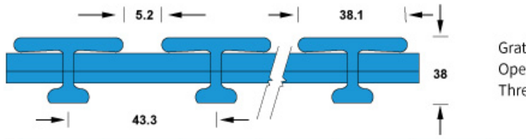


Uniform load (unit:mm)

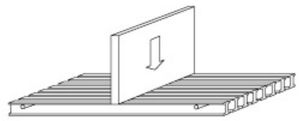
Span	kgs/m						maximum load
	1000	1900	3900	7000	9500	19500	
450	0.66	1.295	2.616	5.004	6.53	--	37624
600	1.96	3.886	7.772	--	--	--	21087
900	9.02	--	--	--	--	--	9158
1200	6.6	12.95	--	--	--	--	9920

Pultruded grating sizes and loading table (mm)

T-1215

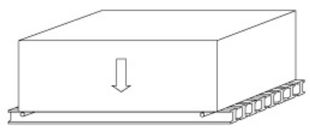


Grating thickness: 38mm
Opening area: 12%
Three core tip: 19.6 kg/m²



Linear load (unit:mm)

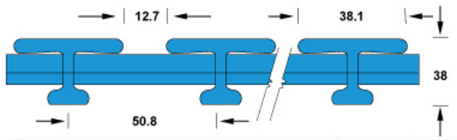
Span \ kg/m	150	300	450	750	1500	3000	maximum load
450	<0.254	0.254	0.254	0.508	1.016	1.778	8791
600	<0.254	0.254	0.508	0.762	1.778	3.556	7032.8
900	0.508	1.016	1.524	2.794	5.334	10.668	4678.6
1200	1.27	2.54	3.556	6.096	12.192	--	3516.4



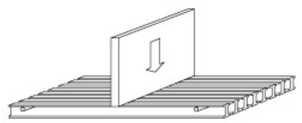
Uniform load (unit:mm)

Span	kgs/m²						maximum load
	450	950	1450	2400	4850	9500	
450	<0.254	0.254	0.254	0.508	1.016	1.778	19227.2
600	0.254	0.508	0.762	1.016	2.286	4.318	14396
900	1.016	2.032	3.048	5.08	10.16	--	9613.6
1200	3.048	6.096	9.144	--	--	--	5758.4

T-2515

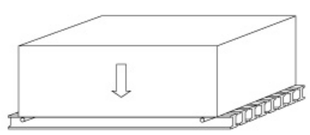


Grating thickness: 38mm
Opening area: 25%
Three core tip: 16.7 kg/m²



Linear load (unit:mm)

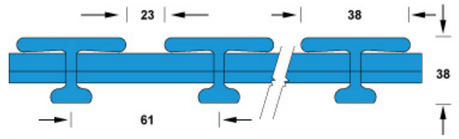
Span \ kg/m	150	300	450	750	1500	3000	maximum load
450	<0.254	0.254	0.254	0.508	1.016	2.286	7539.4
600	0.254	0.508	0.508	1.016	2.032	4.064	6019.6
900	0.508	1.27	1.778	3.048	6.35	12.446	4023
1200	1.524	2.794	4.318	7.112	--	--	3009.8



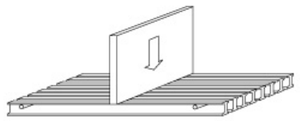
Uniform load (unit:mm)

Span	kgs/m²						maximum load
	450	950	1450	2400	4850	9500	
450	<0.254	0.254	0.254	0.508	1.016	2.032	10638.4
600	0.254	0.508	0.762	1.27	2.54	5.08	12346.4
900	1.27	2.286	3.556	5.842	11.684	--	8247.2
1200	3.556	7.112	10.668	--	--	--	4928.8

T-3815

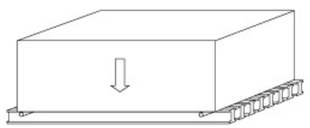


Grating thickness: 38mm
Opening area: 38%
Three core tip: 14.2 kg/m²



Linear load (unit:mm)

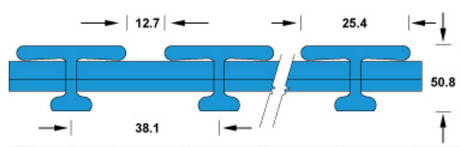
Span \ kg/m	150	300	450	750	1500	3000	maximum load
450	0.254	0.254	0.508	0.762	1.27	2.54	6287.8
600	0.254	0.508	0.762	1.27	2.286	4.826	5021.3
900	0.762	1.524	2.286	3.81	7.62	--	3352.5
1200	1.778	3.302	5.08	8.382	--	--	2503.2



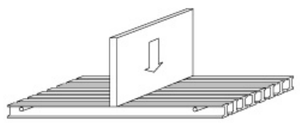
Uniform load (unit:mm)

Span	kgs/m²						maximum load
	450	950	1450	2400	4850	9500	
450	<0.254	0.254	0.254	0.508	1.27	2.54	13712.8
600	0.254	0.508	1.016	1.524	3.048	6.096	10296.8
900	1.524	2.794	4.318	7.112	--	--	6880.8
1200	4.318	8.382	12.7	--	--	--	4099.2

T-3320

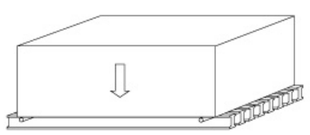


Grating thickness: 50mm
Opening area: 33%
Three core tip: 20.27 kg/m²



Linear load (unit:mm)

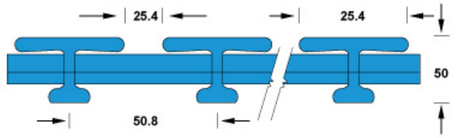
Span \ kg/m	300	450	750	1500	3000	5950	maximum load
600	--	0.25	0.51	1.02	1.78	3.3	16876
900	0.51	0.76	1.27	2.29	4.57	9.4	7492
1200	1.02	1.52	2.29	4.83	9.91	19.56	4215
1500	1.78	2.79	4.57	9.14	18.3	36.58	2696



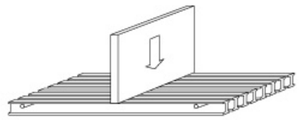
Uniform load (unit:mm)

Span	kgs/m²						maximum load
	1000	1900	3900	7000	9500	19500	
600	0.25	0.51	0.76	1.52	2.03	4.06	55368
900	0.76	1.52	3.05	5.59	7.37	14.99	36895
1200	2.29	4.57	9.4	--	--	--	27659
1500	5.08	9.91	--	--	--	--	22137

T-5020

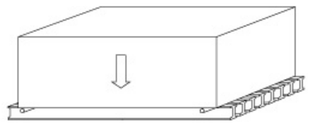


Grating thickness: 50mm
Opening area: 50%
Three core tip: 15.66 kg/m²



Linear load (unit:mm)

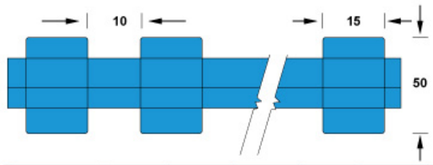
Span \ kg/m	300	450	750	1500	3000	5950	maximum load
600	0.25	0.51	0.76	1.27	2.29	4.57	--
900	0.76	1.27	1.78	3.3	6.1	12.19	--
1200	1.52	2.29	3.56	6.6	13.5	27.18	--
1500	2.54	3.81	6.35	12.45	24.6	49.53	--



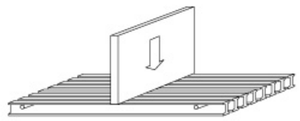
Uniform load (unit:mm)

Span	kgs/m²						maximum load
	1000	1900	3900	7000	9500	19500	
600	0.51	0.76	1.27	2.29	3.05	6.35	--
900	1.02	2.03	3.81	6.86	9.4	--	--
1200	3.3	6.35	12.45	--	--	--	--
1500	6.86	13.46	--	--	--	--	--

HL-4020

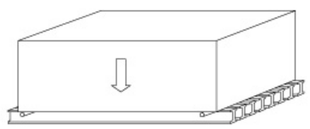


Grating thickness: 50mm
Opening area: 40%
Three core tip: 70.37 kg/m²



Linear load (unit:mm)

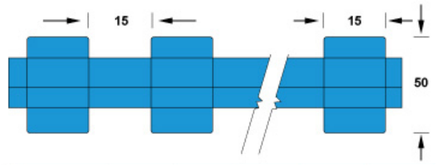
Span \ kg/m	150	300	450	750	1500	3000	4500	6000	7500
600	0.03404	0.06807	0.0851	0.1532	0.3063	0.5956	0.90195	1.1914	1.4977
750	0.0511	0.1021	0.1702	0.2723	0.5446	1.0892	1.6337	2.1954	2.7399
900	0.0851	0.1872	0.2723	0.4595	0.91897	1.8379	2.7399	3.6589	4.5779
1200	0.2212	0.4255	0.7722	1.0721	2.1443	4.2885	6.4328	8.5772	10.7214



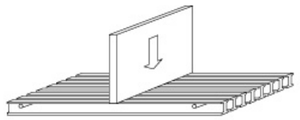
Uniform load (unit:mm)

Span	kgs/m²								
	450	950	1450	2400	4850	9800	14500	19500	24400
450	0.03404	0.0681	0.11913	0.1872	0.3744	0.7489	1.1232	1.4976	1.85496
600	0.0851	0.1702	0.2553	0.4255	0.8509	1.7019	2.5697	3.4206	4.2715
900	0.1702	0.3404	0.51054	0.8509	1.7188	3.4377	5.1394	6.8583	8.57707
1200	0.5446	1.07213	1.6167	2.6888	5.3607	10.7214	--	--	--

HL-5020

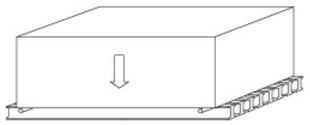


Grating thickness: 50mm
Opening area: 50%
Three core tip: 52.24 kg/m²



Linear load (unit:mm)

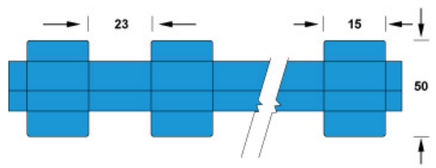
Span \ kg/m	150	300	450	750	1500	3000	4500	6000	7500
600	0.0406	0.0813	0.1016	0.1829	0.3658	0.7112	1.077	1.4225	1.7883
750	0.06096	0.1219	0.2032	0.3251	0.6502	1.3005	1.9507	2.6214	3.2716
900	0.1016	0.2235	0.32512	0.5486	1.0973	2.1946	3.215	4.3689	5.4662
1200	0.2642	0.508	0.77216	1.2802	2.5603	5.1206	7.68096	10.2414	12.8017



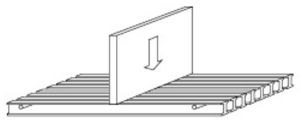
Uniform load (unit:mm)

Span	kgs/m²								
	450	950	1450	2450	4850	9800	14500	19500	24400
600	0.0406	0.0813	0.1422	0.2235	0.447	0.8942	1.3411	1.7881	2.2149
750	0.1016	0.2032	0.3048	0.508	1.016	2.033	3.0683	4.0843	5.1003
900	0.2032	0.4064	0.6096	1.016	2.0523	4.1047	6.1366	8.1889	10.2413
1200	0.6502	1.2802	1.9304	3.2106	6.4008	12.8017	--	--	--

HL-6020

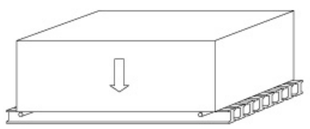


Grating thickness: 50mm
Opening area: 60%
Three core tip: 43.50 kg/m²



Linear load (unit:mm)

Span \ kg/m	150	300	450	750	1500	3000	4500	6000	7500
600	0.0508	0.1016	0.127	0.2286	0.4572	0.889	1.3462	1.779	2.2353
750	0.0762	0.1524	0.254	0.4046	0.8128	1.6256	2.4384	3.2767	4.0895
900	0.127	0.2794	0.4064	0.6858	1.3716	2.7432	4.0894	5.462	6.8327
1200	0.3302	0.635	0.9652	1.6002	3.2004	6.4008	9.6012	12.8017	16.003



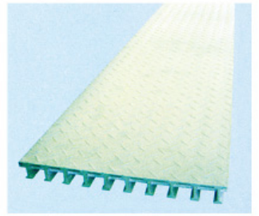
Uniform load (unit:mm)

Span	kgs/m²								
	450	950	1450	2400	4850	9800	14500	19500	24400
600	0.0508	0.1016	0.1778	0.2794	0.5588	1.1177	1.6764	2.2352	2.7686
750	0.127	0.254	0.381	0.635	1.27	2.55	3.8354	5.1054	6.3754
900	0.254	0.508	0.762	1.27	2.5654	5.1309	7.6708	10.2362	12.8016
1200	0.8128	1.6002	2.413	4.0132	8.001	16.003	--	--	--

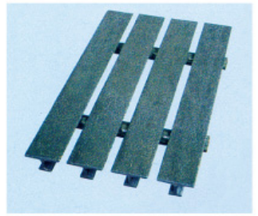
Pultrusion grating corrosion resistance table

Chemical media	Vinyl		ISO	
	Concentration %	Max temperature (°C)	Concentration %	Max temperature (°C)
Acetic acid	50	180/82	50	125/52
Benzoic acid	Saturated	200/93	Saturated	150/66
Chromic acid	10	120/49	5	70/21
Citric acid	Concentrate	200/93	Concentrate	170/77
Hydrobromic acid	50	120/49	50	120/49
hydrochloric acid	37	100/38	37	75/24
Lactic acid	Concentrate	200/93	Concentrate	170/77
Nitric acid	20	100/38	20	70/21
Oxalate	Concentrate	120/96	Concentrate	75/24
Perchloric acid	30	80/27	Not recommended	Not recommended
Phosphoric acid	100	200/93	100	120/49
Sulphuric acid	75	100/38	25	75/24
Tartaric acid	Concentrate	200/93	Concentrate	170/77
Vinegar	100	200/93	100	170/77
Amine hydroxide	28	100/38	28	Not recommended
Aluminium hydroxide	100	170/77	100	160/71
Borax	Saturated	200/93	Saturated	170/77
Ammonium oxide	Concentrate	190/88	Concentrate	170/77
Ammonium bicarbonate	50	150/65	15	125/52
Ammonium sulphate	Concentrate	200/93	Concentrate	170/77
Calcium carbonate	Concentrate	180/82	Saturated	170/77
Calcium nitrate	Concentrate	200/93	Concentrate	180/82
Copper chloride	Concentrate	200/93	Concentrate	170/77
Copper cyanide	Concentrate	200/93	Concentrate	170/77
Copper nitrate	Concentrate	200/93	Concentrate	170/77
Ferric chloride	Concentrate	200/93	Concentrate	170/77
Ferrous chloride	Concentrate	200/93	Concentrate	170/77
Lithium chloride	Saturated	200/93	Saturated	150/66
Magnesium chloride	Concentrate	200/93	Concentrate	170/77
Magnesium nitrate	Concentrate	180/82	Concentrate	140/66
Magnesium sulphate	Concentrate	190/88	Concentrate	170/77
Mercuric chloride	100	190/88	100	150/56
Mercurous chloride	Concentrate	180/82	Concentrate	140/60
Nickel chloride	Concentrate	200/93	Concentrate	170/77
Nickel sulfate	Concentrate	200/93	Concentrate	170/77
Potassium chloride	Concentrate	200/93	Concentrate	170/77
Potassium dichromate	Concentrate	200/93	Concentrate	170/77
Potassium nitrate	Concentrate	200/93	Concentrate	170/77
Potassium sulphate	Concentrate	200/93	Concentrate	170/77
Sodium acetate	Concentrate	300/93	Concentrate	160/71
Sodium bisulfate	Concentrate	200/93	Concentrate	170/77
Sodium bromide	Concentrate	200/93	Concentrate	170/77
sodium chloride	Concentrate	200/93	Concentrate	170/77
Sodium cyanide	25	150/66	Not recommended	Not recommended
Sodium nitrate	Concentrate	200/93	Concentrate	170/77
Sodium sulphate	Concentrate	200/93	Concentrate	170/77
Sodium sulphate	Concentrate	200/93	Concentrate	170/77
Stannic chloride	Concentrate	190/88	Concentrate	160/71
Zinc nitrate	Concentrate	200/93	Concentrate	170/77
Carbon tetrachloride	100	75/24	Not recommended	Not recommended
Chlorine	--	170/77	--	140/60
Chlorine water	Saturated	180/82	Saturated	80/27
Ethanol	50	90/32	50	75/24
Vinyl glycol	100	200/93	100	90/32
Formaldehyde	Concentrate	100/38	50	75/24
Gasoline	100	150/65	100	80/27
Glucose	100	200/93	100	170/77
Glycerol	100	200/93	100	150/66
Hydrogen peroxide	30	100/38	5	100/38
Propylene glycol glycol	Concentrate	200/93	Concentrate	170/77
Distilled water	100	180/82	100	170/77
Benzene	Not recommended	Not recommended	Not recommended	Not recommended

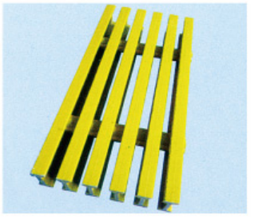
Pultruded grating surface types



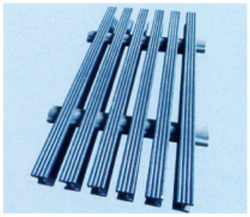
● Hand lay-up pattern cover



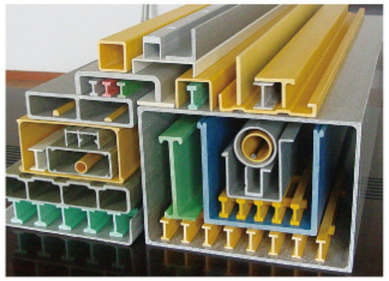
● Gritted surface



● Smooth Surface



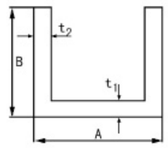
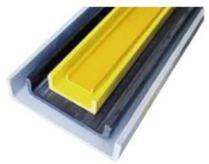
● Anti-slip surface slot surface



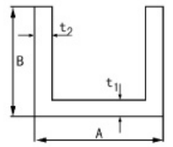
Pultruded profile

FRP pultrusion profile is a new type of composite material made by using glass fiber as the reinforcing material, resin as the binder, and glass fiber cloth as the wrapping reinforcement layer, through thorough penetration, heating, molding, solidification in the metal mold, and drawing under the traction of the tractor. Its glass fiber content is up to 65%, It has good physical and mechanical properties and more suitable for use in the case of high strength and large span.

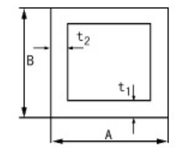
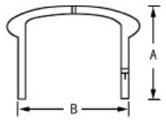
Specification parameters of pultruded profile

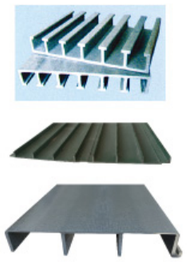
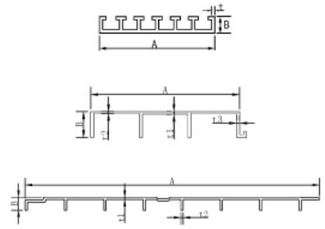
Plan view/products photos	Varieties	Size (mm)	Weight (kg/m)
	Channel iron	A B t_1 t_2	
 Channel iron	C25	25x14x3.0x3.0	0.28
	C26	26x18x3.2x3.2	0.30
	C31	31x23x4.0x4.0	0.65
	C32	32x13x3.0x3.0	0.25
	C33	33x29x4.0x4.0	0.65
	C36	36x30x4.0x4.0	0.68
	C40	40x24x3.2x3.2	0.50
	C41.3	41.3x41.3x38x38	1.10
	C45	45x28x6.4x6.4	1.07
	C50A	50x14x3.2x3.2	0.44
	C50B	50x30x5.0x5.0	0.96
	C52	52x50x6.0x6.0	1.63
	C60A	60x50x5.0x5.0	1.44
	C70	70x30x4.5x4.5	0.95
	C75	75x35x5.0x5.0	1.37
	C76A	76x22x6.4x6.4	1.31
	C76B	76x38x6.4x6.4	1.70
	C80A	80x40x10.0x10.0	2.70
	C90A	90x35x5.0x5.0	1.49
	C90B	90x35x8.0x8.0	2.10
	C90C	90x50x6.0x6.0	2.12
	C101.6A	101.6x28.5x6.35x6.35	1.80
	C102A	102x27x3.2x3.2	0.91
	C102B	102x29x4.8x4.8	1.45
	C102C	102x30x4.0x4.0	1.20
	C102E	102x44x4.8x4.8	1.65

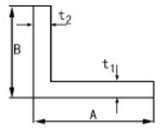
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Plan view/products photos	Varieties	Size (mm)	Weight (kg/m)
	Channel iron	A B t_1 t_2	
 Channel iron	C102F	102x44x6.4x6.4	2.10
	C102H	102x35x4.8x4.8	1.50
	C102G	102x35x6.35x6.35	2.0
	C117	117x85x5.0x5.0	2.70
	C120A	120x25x5.0x5.0	1.52
	C120B	120x30x5.0x5.0	1.62
	C120C	120x40x5.0x5.0	1.81
	C127A	127x34.5x6.35x6.35	2.30
	C127B	127x70x8.0x8.0	3.95
	C145	145x25x5.0x5.0	1.80
	C150A	150x100x6.4x6.4	4.10
	C150B	150x80x10.0x10.0	5.50
	C152A	152x42x8.8x4.8	2.03
	C152B	152x42x6.4x6.4	2.72
	C152C	152x42x8.0x8.0	3.50
	C152D	152x42x9.5x9.5	3.95
	C152E	152x51x9.5x9.5	4.35
	C160	160x48x8.0x8.0	3.70
	C203A	203x56x6.4x6.4	3.68
	C203B	203x56x9.5x9.5	5.34
	C203C	203x102x12.7x12.7	9.20
	C203D	203x102x6.5x6.5	4.80
	C210A	210x55x5.0x5.0	2.95
	C210B	210x80x5.0x5.0	3.42
	C210C	210x85x5.0x5.0	3.52
	C240A	240x72x8.0x8.0	5.70
	C240B	240x115x5.0x5.0	4.40
	C249A	249x151x4.76x4.76	4.70
	C249B	249x201.6x4.76x4.76	5.60
	C254	254x70x12.7x12.7	8.90
	C263A	263x157x4.76x4.76	5.10
	C263B	263x208x4.76x4.76	5.90
	C292	292x70x12.7x12.7	9.80
	C300	300x55x5.0x5.0	3.85
	C305A	305x76.2x12.7x12.7	10.50
	C310A	310x115x5.0x5.0	5.10
	C356	356x89x19x19	18.10
	C381	381x90x10.0x10.0	10.50
	C436	436x90x10.0x10.0	11.70
	C491	491x90x12.0x12.0	14.30
	C610	610x76x6.4x6.4	9.20
	C902	902x100x10.0x10.0	20.60
	C970	970x40x10.0x10.0	19.90

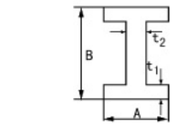
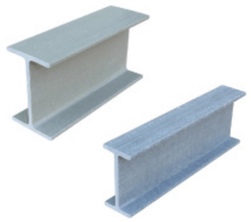
Specification parameters of pultruded profile

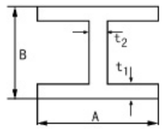
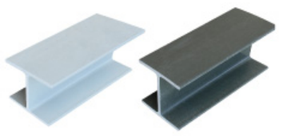
Plan view/products photos	Varieties	Size (mm)	Weight (kg/m)
	Square tube	A B t_1 t_2	
 Square tube	ST25A	25x25x3.2x3.2	0.53
	ST25B	25x25x6.4x6.4	0.90
	ST32A	32x32x3.2x3.2	0.70
	ST32B	32x32x6.4x6.4	1.24
	ST38A	38x38x3.2x3.2	0.85
	ST38B	38x38x5.0x5.0	1.25
	ST38C	38x38x6.4x6.4	1.54
	ST44A	44x44x3.2x3.2	1.01
	ST44B	44x44x6.4x6.4	1.83
	ST50A	50x50x3.2x3.2	1.14
	ST50B	50x50x3.5x3.5	1.24
	ST50C	50x50x4.0x4.0	1.42
	ST50D	50x50x5.0x5.0	1.74
	ST50E	50x50x6.4x6.4	2.12
	ST54A	54x54x3.2x3.2	1.24
	ST54B	54x54x4.8x4.8	1.78
	ST60A	60x60x5.0x5.0	2.10
	ST64A	64x64x3.2x3.2	1.48
	ST64B	64x64x4.4x4.4	1.97
	ST64C	64x64x6.4x6.4	2.80
	ST76A	76x76x3.2x3.2	1.77
	ST76B	76x76x5.0x5.0	2.70
	ST76C	76x76x6.4x6.4	3.39
	ST76D	76x76x9.5x9.5	4.89
 Handrail-U-shape	ST89A	89x89x6.4x6.4	3.95
	ST90A	90x90x5.0x5.0	3.50
	ST90B	90x90x6.4x6.4	4.10
	ST100A	100x100x10x10	6.90
	ST101A	101x101x3.2x3.2	2.38
	ST101B	101x101x5.0x5.0	3.61
	ST101C	101x101x6.4x6.4	4.61
	ST101D	101x101x8.0x8.0	6.00
	ST125A	125x125x6.4x6.4	5.90
	ST125B	125x125x8.0x8.0	7.30
	ST152A	152x152x6.4x6.4	7.10
	ST152B	152x152x9.5x9.5	10.4
	ST152C	152x152x12.7x12.7	13.5
	STR25	25x25x3.175x3.175	0.70

Plan view/products photos	Varieties	Size (mm)	Weight (kg/m)
	 Deck	A B t 305×47.5×6.4	8.65
		A B t_1 t_2 t_3 305×53x5x6.5×6	5.03
		A B t_1 t_2 650×28.5×5x5	8.4

Plan view/products photos	Varieties	Size (mm)	Weight (kg/m)
	Angle iron	A B t_1 t_2	
 Angle iron	EL25A	25x25x3.2x3.2	0.33
	EL25B	25x25x6.4x6.4	0.56
	EL30A	30x30x40 (75°)	0.46
	EL30B	30x30x5.0x5.0	0.57
	EL32	32x32x4.0x4.0	0.42
	EL38A	38x38x5.0x5.0	0.68
	EL38B	38x38x6.4x6.4	0.85
	EL45	45x45x4.8x4.8	0.75
	EL50A	50x50x3.2x3.2	0.62
	EL50B	50x50x6.4x6.4	1.14
	EL50.8	50.8x50.8x4.0x4.0	0.75
	EL60	60x60x9.0x9.0	1.90
	EL76A	76x76x4.8x4.8	1.38
	EL76B	76x76x6.4x6.4	1.77
	EL76C	76x76x9.5x9.5	2.57
	EL76D	76x76x12.7x12.7	3.40
	EL101A	101x101x6.4x6.4	2.50
	EL101B	101x101x8x8	2.95
	EL101C	101x101x9.5x9.5	3.47
	EL101D	101x101x12.7x12.7	4.57
	EL152A	152x152x6.4x6.4	3.62
	EL152B	152x152x9.5x9.5	5.42
	EL152C	152x152x12.7x12.7	7.01
	L40	40x22x4.0x4.0	0.45
	L50	50x40x6.35x6.35	1.20
	L76	76x15x6.0x6.0	0.98
	L100	100x50x6.4x6.4	1.80
	L145	145x76x10x10	3.85
	L170	170x76x9.5x9.5	4.40
	L180	180x80x8.0x8.0	3.89
	L254	254x40x6.4x6.4	3.61
 L70 (Special)	L70 (Special)	70x70x24x6.0	3.75

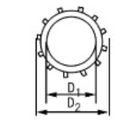
Specification parameters of pultruded profile

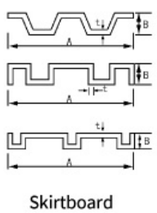
Plan view/products photos	Varieties	Size (mm)	Weight (kg/m)
	I Beam	A B t_1 t_2	
 I Beam	IB32	15x32x6.4x4.0	0.51
	IB38A	30x38x4.0x4.0	0.53
	IB45A	45x9.0x180x12.0	5.40
	IB50A	50x102x6.4x6.4	2.40
	IB50B	50x102x8.0x8.0	3.00
	IB70	70x140x6.35x6.35	3.30
	IB76A	76x152x6.4x6.4	3.59
	IB76B	76x152x9.5x9.5	5.32
	IB100	100x75x6.0x6.0	3.00
	IB102A	102x203x9.5x9.5	7.20
	IB102B	102x203x12.7x12.7	9.50
	IB120	120x240x12x12	10.50
	IB127A	127x254x9.5x9.5	9.00
	IB127B	127x254x12.7x12.7	11.90
	IB127C	127x152x9.5x9.5	7.10
	IB127D	127x152x12.7x12.7	9.20
	IB152A	152x305x9.5x9.5	10.74
	IB152B	152x305x12.7x12.7	14.30

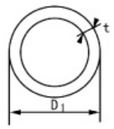
Plan view/products photos	Varieties	Size (mm)	Weight (kg/m)
	H beam	A B t_1 t_2	
 H beam	HB76	76×76×6.4×6.4	2.67
	HB102A	102×102×6.4×6.4	3.59
	HB102B	102×102×8.0×8.0	4.50
	HB152A	152×152×6.4×6.4	5.43
	HB152B	152×152×9.5×9.5	8.10
	HB203A	203×203×9.5×9.5	10.80
	HB203B	203×203×12.7×12.7	14.36
	HB254A	254×254×9.5×9.5	13.60
	HB254B	254×254×12.7×12.7	18.04
	HB305	305×305×12.7×12.7	21.50

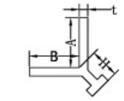
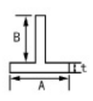
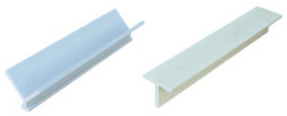
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Plan view/products photos	Varieties	Size (mm)	Weight (kg/m)
 Flat strip (chamfered edge) 	FS250A	250x12.0	5.7
	FS280A	280x10.0	5.32
	FS300A	300x24.0	14.4
	FS355A	355x5.0	3.5
	FS555A	555x5.0	5.40
	FS751A	751x5.0	7.20
	FS762A	762x9.5	13.8
	FS50A(chamfered edge)	50x3.2	0.29
	FS60A(chamfered edge)	60x3.2	0.36
	FS70(chamfered edge)	70x4.0	0.54
	FS90A(chamfered edge)	90x3.2	0.54
	FS100(chamfered edge)	100x3.2	0.60
	FS120(chamfered edge)	120x3.0	0.70
	FS100(chamfered edge)	48.6x6.0	0.56

Plan view/products photos	Varieties	Size (mm)	Weight (kg/m)
	Plum flower tube	D_1 D_2	
 Plum flower tube 	CT32A	19x32x6.4	1.11
	CT32B	25x32x3.5	0.66
	CT32C	22x32x5.0	0.99
	CT34A	19x34x7.5	1.30
	CT37.5	37.5x21.5x8.0	1.35
	CT42	29x42x6.4	1.35
	CT45A	28x45x8.5	1.86
	CT45B	32x45x6.4	1.10
	CT51	51x36x7.0	1.75
	CT90A	71x90x9.5	5.70

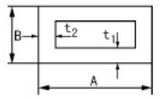
Plan view/products photos	Varieties	Size (mm)	Weight (kg/m)
	Skirtboard	A B t	
 Skirtboard 	M2	100x13x3.2M-shape	1.10
	M3	100x16x5.0M-shape	1.30
	M4	148x12x4M-shape	1.27
	M5	148x12x3M-shape	1.20
	W1	100x19x5.0w-shape	1.36
	W2	100x15x3.2w-shape	1.10
	W3	150x15x3.2w-shape	1.60
	W4	200x14x3.0w-shape	1.50

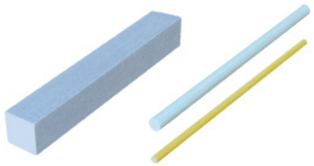
Plan view/products photos	Varieties	Size (mm)	Weight (kg/m)
	Circular tube	D_1 t	
 Circular tube	RT25	25×3.2	0.42
	RT32A	32×3.2	0.55
	RT32B	32×5.0	0.81
	RT35A	35×2.5	0.49
	RT38A	38×3.2	0.67
	RT38B	38×4.0	0.81
	RT38C	38×5.0	1.00
	RT38D	38×6.4	1.21
	RT42A	42×3.2	0.70
	RT42B	42×5.0	1.11
	RT48	48×6.4	1.58
	RT50A	50×3.2	0.84
	RT50B	50×4.0	1.10
	RT50C	50×5.0	1.34
	RT50D	50×6.4	1.67
	RT60	60X4.5	1.60
	RT50.8	50.8×6.4	1.70
	RT64A	64×3.5	1.26
	RT64B	64×7.0	2.38
	RT76	76×6.4	2.64
	RT89A	89×3.2	1.54
	RT89B	89×5.0	2.51
	RT89C	89×6.4	3.13
	RT99	99×5.0	2.81
	RT100	100X4.5	2.70
	RT101	101×6.4	3.62
	RT114A	114×3.2	2.12
	RT114B	114×5.0	3.25
	RT114C	114×6.4	4.11
	RT114D	114×9.5	5.93
	RT140	140X3.0	2.20
	RT150A	150×3.2	2.81
	RT150B	150×5.0	4.35
	RT150C	150×6.4	5.50
	RT150D	150×9.5	8.00

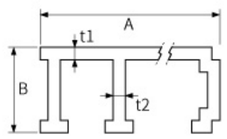
Plan view/products photos	Varieties	Size (mm)	Weight (kg/m)
	Y section	A x B x t1 x H	
 Y section  T section 		25x38x6.4x22.5	1.49
		38x38x6.4x22.5	1.64
		50x38x6.4x22.5	1.79
		76x64x6.4x71	2.89
	T section	A × t1 x B x 12	
		54x6.0x31x6.0	0.89
		54x5.0x45x6.0	1.03
		54x6.0x45x6.0	1.1
		60x6.0x46x6.0	1.30
		78x6.4x44.5x6.0	1.38
		77.5x159.5x9.5x6.0	4.10

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Plan view/products photos	Varieties	Size (mm)	Weight (kg/m)
	Flat plank	thickness x width	
Flat plank	FP32A	3.2x1000	6.18
	FP32B	3.2x1220	7.42
	FP40A	4.0x800	6.2
	FP40B	4.0x1200	9.19
	FP48A	4.8x1000	9.3
	FP50A	5.0x440	4.25
	FP50B	5.0x1220	11.8
	FP64A	6.4x1220	14.84
	FP95A	9.5x1220	22.02
	FP127A	12.7x1220	29.44
Flat lath	FP160A	16x1220	37.2
	FP190A	19x1220	44.1
	FP254A	25.4x1220	59.0
	Flat lath	thickness x width	
	FS19A	19x6.4	0.25
	FS19B	19x22	0.85
	FS24A	24.6x3.4	0.15
	FS25A	25.4x8.0	0.40
	FS30A	30x3.0	0.18
	FS30B	30x6.4	0.37
	FS35A	35x8.0	0.54
	FS38A	38x5.0	0.37
	FS38B	38x8.0	0.60
	FS38C	38x15.0	1.12
	FS40A	40x8.0	0.62
	FS40B	40x10.0	0.79
	FS46A	46x6.4	0.58
	FS50A	50x2.0	0.25
	FS50B	50x4.0	0.38
	FS50C	50x6.0	0.59
	FS50D	50x8.0	0.76
	FS50E	50x15.0	1.43
	FS50F	50x25.0	2.5
	FS60A	60x2.0	0.24
	FS60B	60x4.0	0.48
	FS64A	64x4.8	0.60
	FS64B	64x15	1.81
	FS70A	70x4.0	0.55
	FS76A	76x9.5	1.42
	FS76B	76x14	2.05
	FS100A	100x10.0	1.95
	FS100B	100x25.0	4.85
	FS102A	102x32	0.63
	FS102B	102x5.0	0.97
	FS102C	102x6.4	1.30
	FS120A	120x10.0	2.4
	FS127A	127x6.4	1.54
	FS152A	152x10.0	2.92
	FS152B	152x20.0	5.90
	FS190A	190x15.0	5.42
	FS250A	250x12.0	5.7

Plan view/products photos	Varieties	Size (mm)	Weight (kg/m)
	Flat tube	**A B t_1 t_2**	
 Flat tube	FT50A	50×25×3×3	0.79
	FT50B	50×25×6.4×6.4	1.51
	FT52	52×32×5×5	1.41
	Hook plate		
 Hook plate		30×70×4	0.63
		55×55×4	0.74
		345×55×4	3.85
			

Plan view/products photos	Varieties	Size (mm)	Weight (kg/m)
	Solid square rods	**Side x side**	
Solid square rods Solid rund rods 	SSR25	25×25	1.23
	SSR32	32×32	1.95
	SSR38	38×38	2.75
	Solid rund rods	**Diameter**	
	SRR95	9.5	0.14
	SRR127	12.7	0.26
	SRR254	25.4	1.00
	SRR318	31.8	1.51
	SRR380	38.0	2.15

Plan view/products photos	Varieties	Size (mm)	Weight (kg/m)
	open-web plate	**A x t_1 x B x t_2**	
		500×4×40×4	8040

Note: the profiles mentioned above are our standard stocks as length of 6.1m, we can custom make molds for any special shape profile.

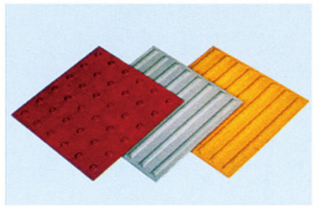
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Pultruded profile wooden texture series

Pultruded profile wooden texture series combination characteristics introduction

Along with the wide application of FRP, in the traditional home decoration field, Our company target developed wooden texture series profile , could apply for the furniture manufacturing, decoration, large Horticultural pots.



● Blind Path Plate



● Accessories combination



● Shovels

Molding equipment

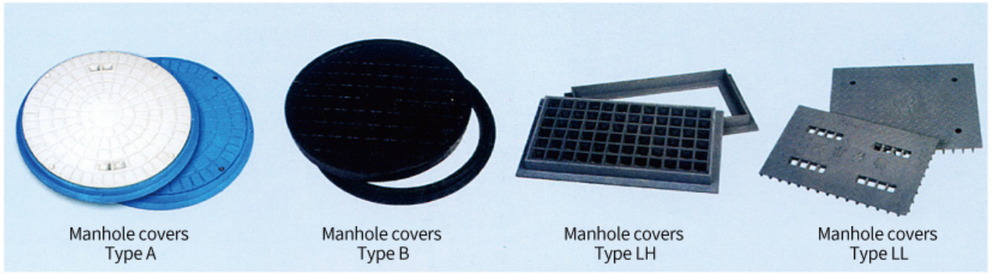


● 500T Punching machine



● 315T Punching machine

Manhole covers



Manhole covers Type A | Manhole covers Type B | Manhole covers Type LH | Manhole covers Type LL



● Assembly legend of manhole cover handle

Manhole cover Handle assemble pictures



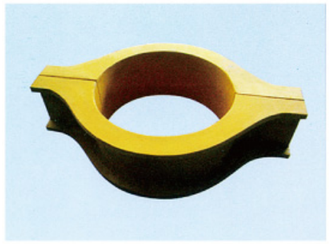




Manhole cover type and loading chart

Type	Size	Max.Loading	Weight/Set	Application
LL	Customized	20KN	--	Green belts and alleys and venues that motor vehicles can not drive or park.
LH	247x487x45	30KN	5kg	Residential corridor and sidewalks
A	ϕ650xH60	30KN	18kg	General urban road vehichle traffic and parking
B	ϕ700xH80	130KN	25kg	Heavy vehicle traffic and parking of urban roads and highway

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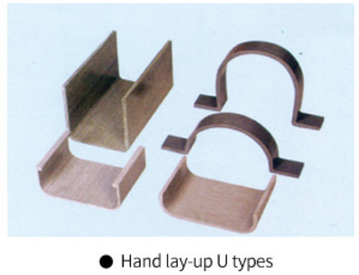


Hand layup products

FRP hand lay-up products are molded by deep immersion of glass fiber cloth and unsaturated polyester resin under the action of curing agent. Hand lay-up products are often used in the processing of irregular products.

Its glass fiber cloth composition has good mechanical properties, the strength of FRP hand lay-up products is higher, suitable for applications with high strength requirements.

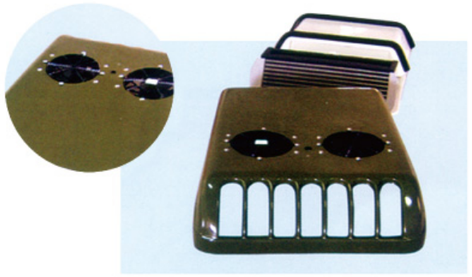
Hand lay-up products



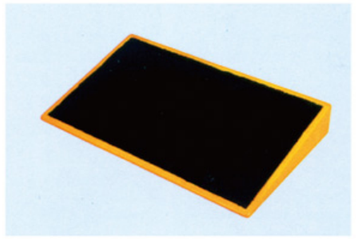
● Hand lay-up U types



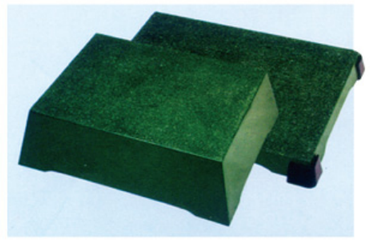
● Hand lay-up ladder cage accessories



● Auto mobile AC cover



● Hand lay-up ramps

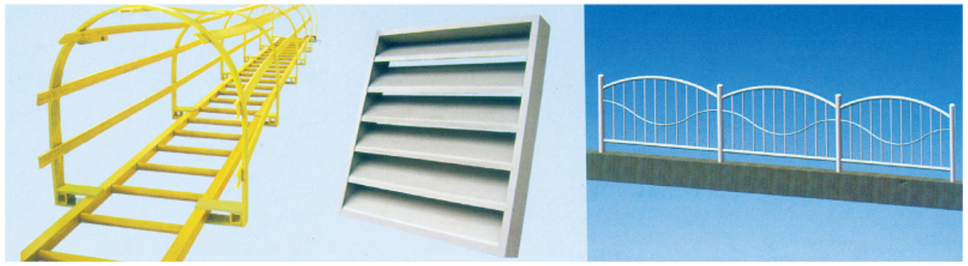


● Hand lay-up access to the platform



● Hand lay-up pattern cover

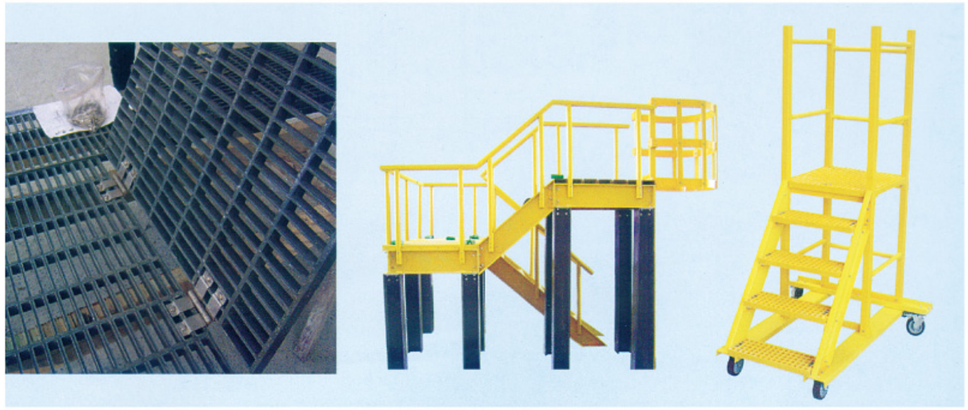
Hand lay-up products



● Safety ladder system with Cage ● Shutter ● Walkway fences



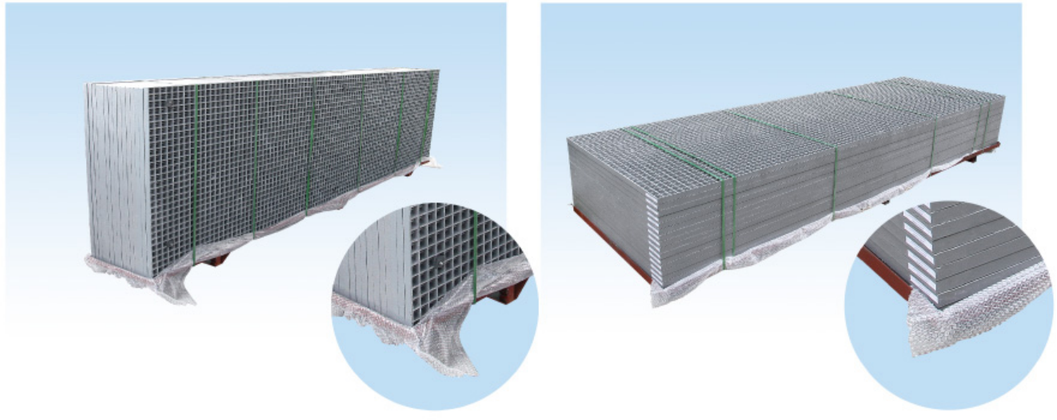
● Highway fences ● Handrail systems with square and round tubes ● Fence



● FRP grating doors ● Stairs ● Handcart

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Production packing method







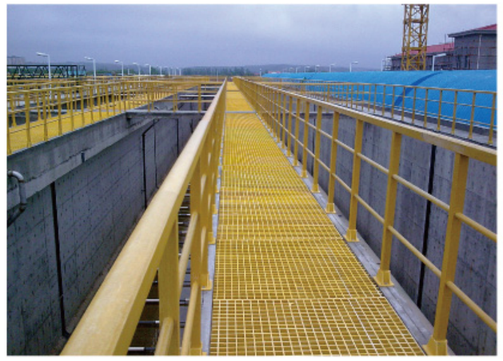


To protect the products effectively, we had sets of full process of packing

We place the grating products on the iron plates protected with antioxidant paint. The packaging size depends on the actual factory size of the products. Between the grating products and bottom pallets, we place foam paper, fixed with tape. Finally, we seal it with plastic film so that the product can be effectively protected.

FRP Products Application

Industrial application
Chemical, pharmaceutical, machinery, petroleum, electronics
Industrial Application mining, ship building and other industries
Main Products: trench cover, operating platform, corrosion-resistant structural beams.



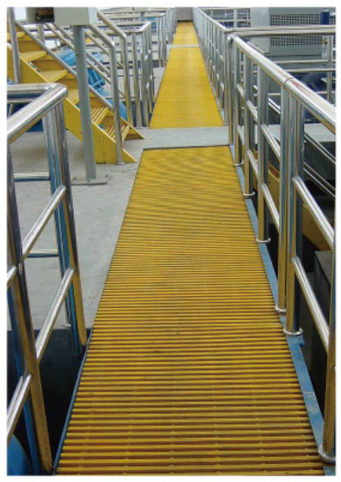












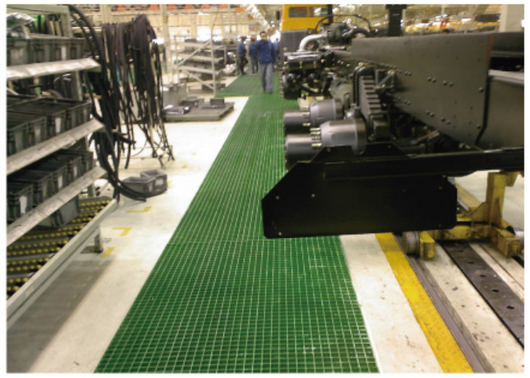

Industrial application:



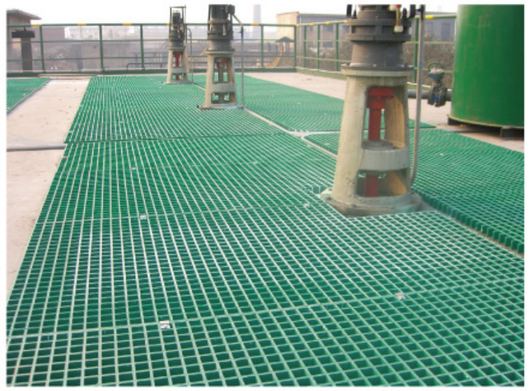



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Industrial application:





Municipal construction application:













Housing construction sector:



