COMPANY INTRODUCTION

Hubei Weitong Huacai Composite Materials Co., Ltd., is located in Suizhou China. We are a company group that specialize in developing, producing, and selling FRP/GRP (fiberglass reinforced plastic) composite gratings, profiles, panel sheets and other FRP related products (roofing, windows & door, etc.) which can be used in fields like sewage treatment, petrochemicals, marine ships, electricity, municipal works, building and many other fields.

Certificates we've passed include ISO9001, SGS, CNAS, etc. Weitong has established a standardized factory with manufacturing both FRP grating and profile, We have set up sales branches in Nanjing (HUACAI), Wuhan (YIJI), as well as fiberglass profile manufacturing bases in Jiangmen City & Yuncheng City. As a well managed company, with our experienced workers in the factory, currently we may guarantee a quick shipment date within 2 weeks.

We have advanced production, research, and development technology, excellent business management concept, perfect sales and after-sales service team, and have established the long-term relationship with both wholesale companies and direct users from home market and abroad.

Resin Selection

Resin Type	Resin Base	Description	Corrosion Resistance	Flame Spread Rating ASTM E84	Max. Oper. Temp
VEFR-25	Vinyl Ester	Superior Corrosion Resistance and Fire Retardant	Excellent	Class 1, 25 or less	230°F (110°C)
VEFR-10	Vinyl Ester	Superior Corrosion Resistance and Enhanced Fire Retardant	Excellent	Class 1, 10 or less	230°F (110°C)
IFR-25	Isophthalic Polyester	Industrial Grade Corrosion Resistance and Fire Retardant	Very Good	Class 1, 25 or less	221°F (105°C)
FG-30	Isophthalic Polyester	Food Grade Corrosion Resistance and Fire Retardant	Very Good	Class 1, 30 or less	221°F (105°C)
CFR-25	Ortho	Moderate Corrosion Resistance and Fire Retardant	Moderate	Class 1, 25 or less	212°F (100°C)
MP-5	Phenolic Resin	Low Smoke and Superior Fire Resistance	Very Good	Class 1, 05 or less	356°F (180°C)
IFR-10	Isophthalic Polyester	Industrial Grade Corrosion Resistance and Extra Fire Retardant	Very Good	Class 1, 10 or less	221°F (105°C)
O-AN	Ortho	Moderate Corrosion Resistance	Moderate	No	212°F (100°C)

Fiberglass

Code Name	Type	Occasion Applicable
E	E-glass	High strength and high corrosion required

MOLDED FRP GRATING

FRP Molded grating is manufactured in an open, heated mold system. Continuous roving is laid in the mold in alternating layers and completely wet out with resins. This continuous process produces an integral plate which provides good performance of excellent corrosion resistance and bi-directional strength.

Weitong offers its molded grating in a choice of different resins and a number of molds available in a wide range of panel sizes, thickness and mesh patterns, assuring to meet variety requirements of each customer's applications.

Applications of Molded Gratings

Industries

-Chemical plant and metal finishing

-Construction engineering, traffic and transportation;

-Petrochemical engineering, ocean survey, water engineering;

-Food and beverage plants;

-Textile printing and dyeing and electronic industry.

Advantages

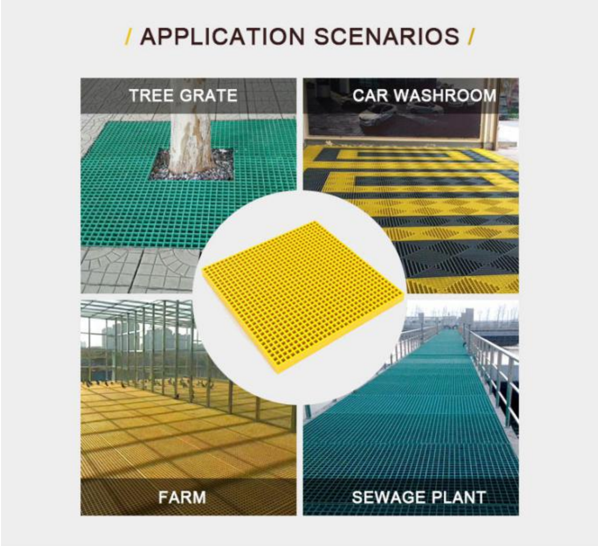
-Anti-corrosion and anti-aging;

-Light but strong impact strength;

-Long service life and maintenance free;

-Non-conduction or non-magnetic;

-Easy installation and rich colors.

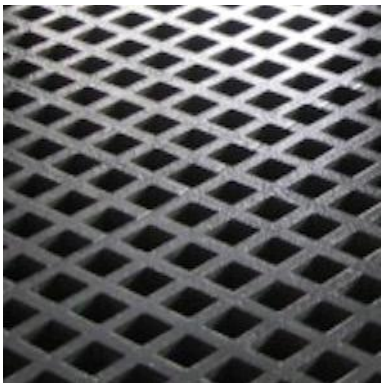


Grating Surface

The gratings normally have a concave surface for slip resistance when the panel naturally cured. A standard grit surface is made through a secondary operation by sanding silicon sand on the top to provide even longer lasting slip resistance.

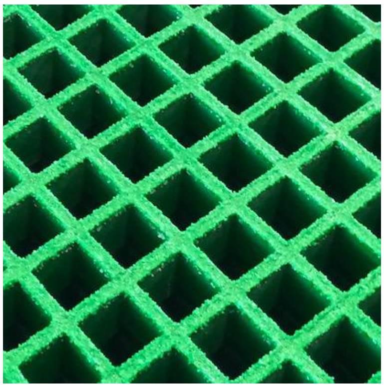
Concave Surface

FRP gratings naturally have concave surfaces, so as to slip resistance



Smooth Surface

FRP grating with polished smooth surface have nice appearance



Gritted Surface

FRP gratings with sanding surface have super anti-slip characteristic

Covered Grating

Covered Grating is a one-piece molded grating, combing the solid surface of plate on its top. It is ideal for applications where require no open mesh of the grating. Covered grating meets the demands for both corrosion resistant and slip resistant.

Covered grating is available in a variety of thickness. Standard plate thickness is 3mm & 5mm, other thickness is available as per customer's special request.

Smooth Cover

The smooth cover grating is flat and non anti-slip

Patterned Cover

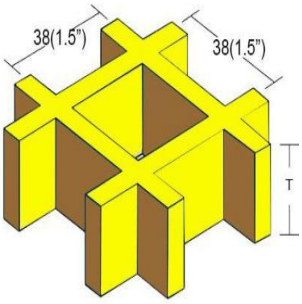
The patterned cover makes gratings anti-skid and more beautiful

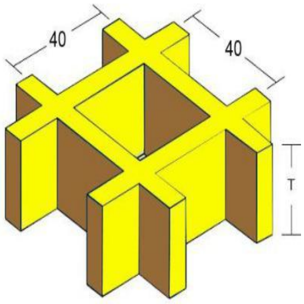
Gritted Cover

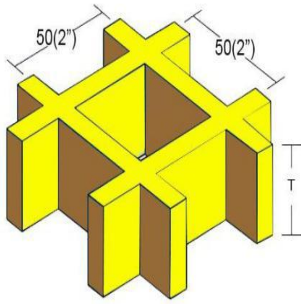
Gritted gratings can not only anti skid but also enhance the strength

Grating Specification

Square Mesh

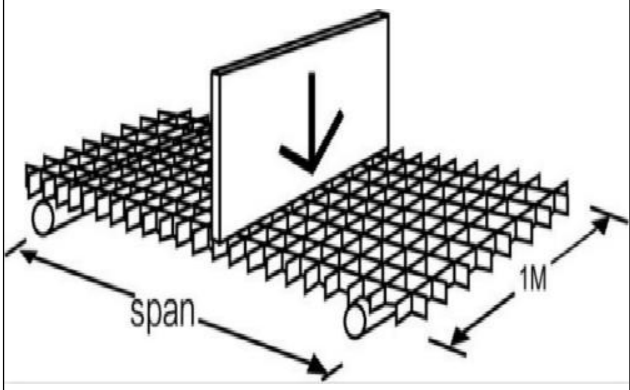


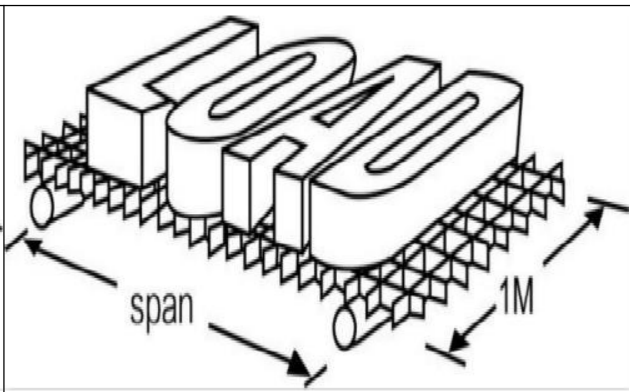




Mesh Size (mm)	Thickness (mm)	Bar Thickness Top/bottom (mm)	Standard Panel Size (mm)	Open Rate (%)	Weight (Kg/m2)
38x38	13	6.0/5.0	1220x3660, 1220x2440, 915x3050	78	6.0
38x38	15	6.0/5.0	1220x3660, 1220x2440, 915x3050	75	7.0
38x38	25	6.5/5.0	1220x3660, 1220x2440, 915x3050 1000x2000, 1000x3000, 1000x4038	68	12.3
38x38	30	6.5/5.0	1220x3660, 1220x2440, 915x3050 1000x2000, 1000x3000, 1000x4038	68	14.6
38x38	38	7.0/5.0	1220x3660, 1220x2440, 915x3050 1524x3050, 1000x3000, 1000x4038	68	19.5
38x38	50	9.5/7.5	1220x3660, 1220x2440, 915x3050	56	42
38x38	63	10.5/8.5	1220x3660, 1220x2440	54	50.4
40x40	25	7.0/5.0	1007x3007, 1007x4047, 1247x4047	67	12.3
40x40	30	7.0/5.0	1007x3007, 1007x4047, 1247x4047	67	14.6
40x40	38	7.0/5.0	1007x3007, 1007x4047, 1247x4047	67	20
50x50	25	7.0/6.0	1220x3660, 1220x2440, 915x3050	78	11.5
50x50	50	8.0/6.0	1220x3660, 1220x2440, 915x3050	78	23.5
50x50	63	8.3/6.0	1225x3660, 1225x2440, 915x3050	78	28.8

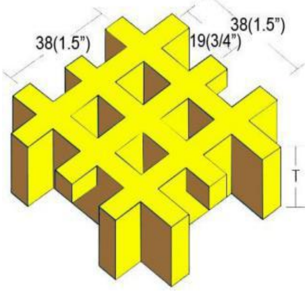
Loading Deflection Sheet

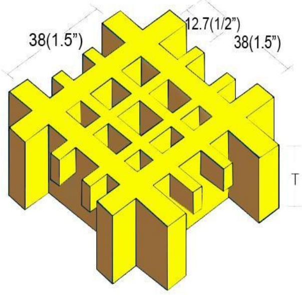


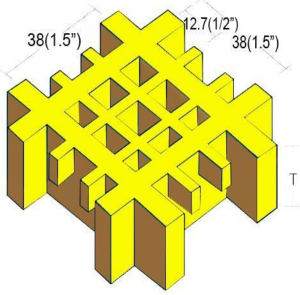


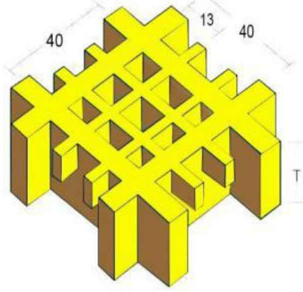
Items	Line Load Deflection							Uniform Load Deflection						
38*38*25	38x38x25mm-Mesh Size:38x38mm,Thickness 25mm,Open Rate 68%,Weight 12.3Kg/m2.													
Deflection Span (mm)	Kg/m						Break Point	Kg/m						
	75	150	300	450	600	750		240	480	980	1450	2450	3650	4880
450	0.559	1.146	2.159	3.075	4.115	4.749	3910	0.660	1.092	1.930	2.769	4.470	6.579	----
600	0.864	1.702	3.505	5.156	6.706	8.179	2924	1.118	2.108	4.140	6.172	10.21	15.26	----
750	----	----	----	----	----	----	----	2.667	5.387	10.82	16.28	----	----	----
900	2.896	5.918	12.12	18.44	----	----	1948	5.537	11.18	21.72	----	----	----	----
1200	5.715	111.6	----	----	----	----	1461	----	----	----	----	----	----	----
38*38*30	38x38x30mm-Mesh Size:38x38mm,Thickness 30mm,Open Rate 68%,Weight 14.6Kg/m2.													
Deflection Span (mm)	Kg/m						Break Point	Kg/m						Break Point
	75	150	300	450	750	1500		350	500	750	1000	1500	2500	
300	<.25	<.25	0.254	0.508	0.762	1.524	9923.4	<.25	<.25	<.25	<.25	0.254	0.508	32500
450	0.254	0.508	1.016	1.524	2.540	----	4827.6	0.254	0.508	0.762	1.016	1.524	2.286	21661
600	0.508	1.270	2.286	3.556	5.842	----	4112.4	1.060	1.524	2.286	2.794	4.318	7.366	12980
750	1.270	2.540	4.826	7.366	12.45	----	3173.7	2.540	3.810	5.842	7.620	11.68	----	8296
900	1.778	3.810	7.620	11.43	----	----	2637.3	4.572	7.112	10.66	----	----	----	5758
38*38*38	38x38x38mm-Mesh Size:38x38mm,Thickness 38mm,Open Rate 68%,Weight 19.5Kg/m2.													
Deflection Span (mm)	Kg/m						Break Point	Kg/m						
	75	150	300	450	600	750		240	480	980	1450	2450	3650	4880
300	0.279	0.356	0.483	0.610	0.762	0.889	17116	0.254	0.305	0.381	0.457	0.635	0.838	----
600	0.365	0.660	1.245	1.850	2.464	3.073	8718	0.432	0.813	1.549	2.311	3.835	5.740	----
900	0.864	1.803	3.683	5.563	7.417	9.296	5817	1.702	3.454	6.959	10.46	17.47	----	----
1200	2.261	4.749	9.677	14.63	19.58	----	3755	5.969	12.16	24.51	----	----	----	----
50*50*50	50x50x50mm-Mesh Size:50x50mm,Thickness 50mm,Open Rate 78%,Weight 23.5Kg/m2.													
Deflection Span (mm)	Kg/m						Break Point	Kg/m						
	75	150	300	450	600	750		240	480	980	1450	2450	3650	4880
300	0.279	0.305	0.406	0.483	0.635	1.041	21727	0.254	0.279	0.330	0.381	0.483	0.737	----
600	0.356	0.508	0.813	1.128	1.753	3.327	11713	0.381	0.584	0.965	1.372	2.134	4.115	----
900	0.508	1.118	2.235	3.200	5.156	10.05	7780	1.194	2.108	3.937	5.766	9.449	18.59	----
1200	0.914	1.930	3.937	5.918	9.957	----	5834	2.413	4.928	9.957	14.96	----	----	----

Mini & Micro Mesh



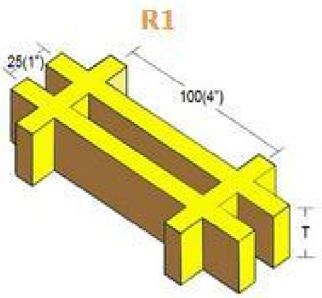


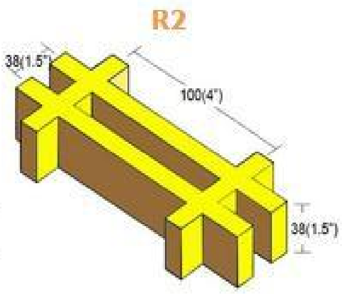


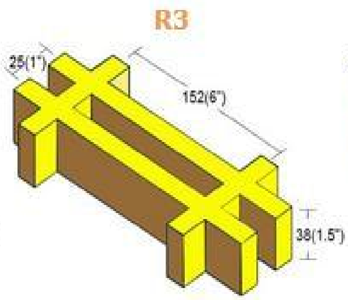


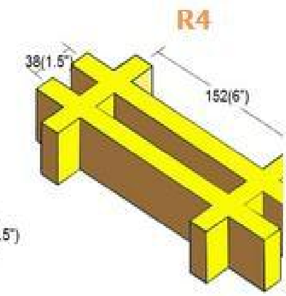
Mesh Size (mm)	Thickness (mm)	Bar Thickness Top/bottom (mm)	Standard Panel Size (mm)	Open Rate (%)	Weight (Kg/m2)
19x19/38x38	25	6.5/5.0	1220x3660, 1220x2440, 915x3050	30	16.8
19x19/38x38	30	6.5/5.0	1220x3660, 1220x2440, 915x3050	30	19.0
19x19/38x38	38	6.5/5.0	1220x3660, 1220x2440, 915x3050 1000x4038, 1000x3000	30	23.5
20x20/40x40	30	7.0/5.0	1007x3007, 1007x4047, 1247x4047	42	18.0
20x20/40x40	40	7.0/5.0	1007x3007, 1007x4047, 1247x4047	42	23.7
12.7x12.7/38x38	30	7.5/4.5/6.0	1220x3660, 1220x2440, 915x3050	30	22
13x13/40x40	25	6.5/4.5/6.0	1007x3007, 1007x4047, 1247x4047	30	17.8
13x13/40x40	30	6.5/4.5/6.0	1007x3007, 1007x4047, 1247x4047	30	18.8
13x13/40x40	38	6.5/4.5/6.0	1007x3007, 1007x4047, 1247x4047	30	23.8

Rectangular Mesh









Thickness (mm)	Bar Thickness Top/bottom (mm)	Standard Panel Size (mm)	Open Rate (%)	Weight (Kg/m2)
25	7.0/5.0	1220x3660, 1220x2440, 915x3050	67	13.8
	7.0/5.5	1007x3007, 1007x4007	67	13.0
25	7.0/5.5	1220x3660, 1220x2440, 915x3050	52	19.5
30	7.0/5.5	1007x3007, 1007x4007	67	15.6
38	8.0/6.0	1220x3660	62	22.5
38	8.0/6.0	1220x3660	65	16.4
38	9.0/6.5	1220x3660, 1220x2440, 915x3050	63	22.5
38	8.0/6.0	1220x3660, 1220x2440, 915x3050	67	15.9

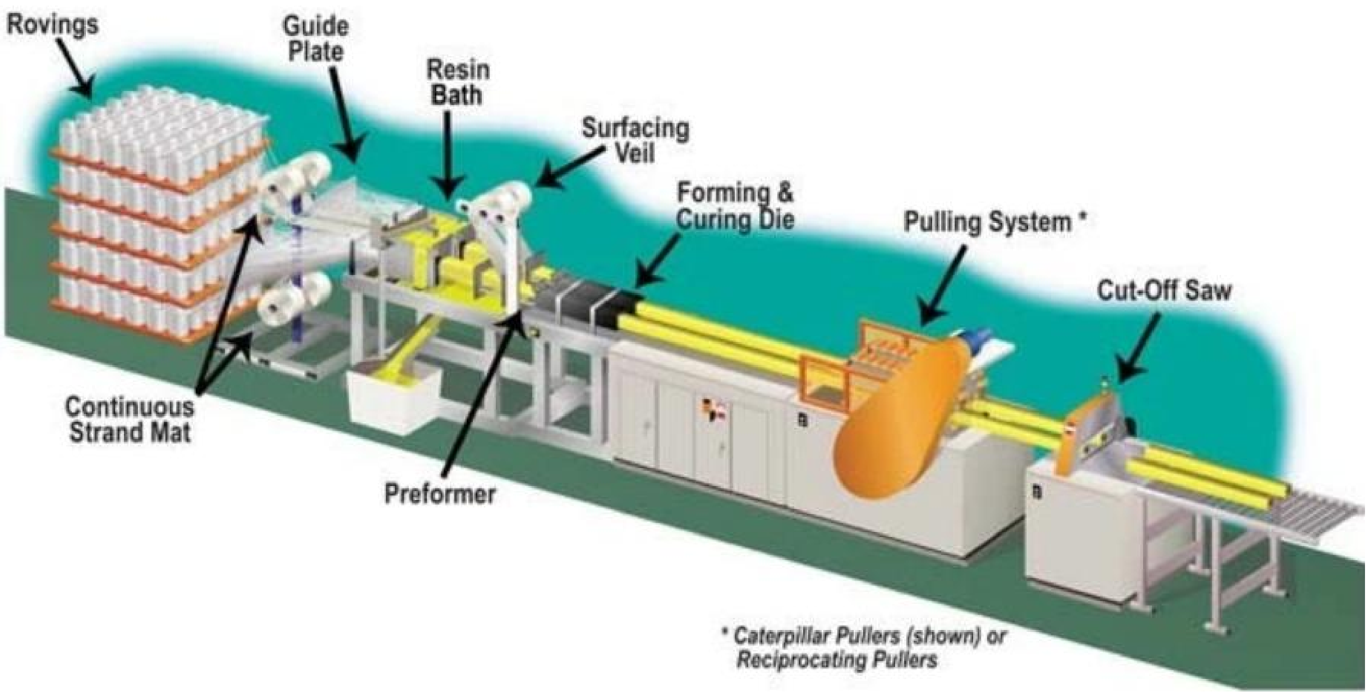
Corrosion Resistance Sheet

Chemical Type	Type V – Vinyl Ester		Type I - Isophthalic		Type O – Orthophthalic	
	Concentration %	Temperature F/℃	Concentration %	Temperature F/℃	Concentration %	Temperature F/℃
Acetic Acid	50	180/82	50	125/52	5	77/25
Aluminum Hydroxide	100	180/82	100	160/71	ALL	-
Ammonium Chloride	ALL	210/99	ALL	170/77	ALL	-
Ammonium Bicarbonate	50	160/70	15	125/52	ALL	-
Ammonium Hydroxide	28	100/38	28	N/R	ALL	N/R
Ammonium Sulfate	ALL	210/99	ALL	170/77	ALL	-
Benzene	100	92/40	ALL	N/R	ALL	N/R
Benzoic Acid	SAT	210/99	SAT	150/66	ALL	77/25
Borax	SAT	210/99	SAT	170/77	SAT	113/45
Calcium Carbide	ALL	180/82	ALL	170/77	ALL	-
Calcium Nitrate	ALL	210/99	ALL	180/82	ALL	-
Carbon Tetrachloride	100	92/40	100	N/R	100	N/R
Chlorine, Dry Gas	-	210/99	-	140/60	-	N/R
Chlorine Water	SAT	200/93	SAT	80/27	SAT	N/R
Chromic Acid	10	150/65	5	70/21	5	N/R
Citric Acid	ALL	210/99	ALL	170/77	ALL	77/25
Calcium Chloride	ALL	210/99	ALL	170/77	ALL	104/40
Copper Cyanide	ALL	210/99	ALL	170/77	ALL	77/25
Copper Nitrate	ALL	210/99	ALL	170/77	ALL	-
Ethanol	10	155/82	50	75/24	10	77/25
Ethylene Glycol	100	200/93	100	90/32	100	104/40
Ferric Chloride	ALL	210/99	ALL	170/77	ALL	104/40
Ferrous Chloride	ALL	210/99	ALL	170/77	ALL	86/30
Formaldehyde	37	140/60	50	75/24	25	86/30
Gasoline	100	180/82	100	75/24	100	95/35
Glucose	100	210/99	100	170/77	ALL	-
Glycerine	100	210/99	100	150/66	100	-
Hydrobromic Acid	50	150/65	50	120/49	18	-
Hydrochloric Acid	37	150/65	37	75/24	10	86/30
Hydrofluoric Acid	10	149/65	-	-	-	-
Hydrogen Peroxide	30	150/65	5	100/38	5	NR
Lactic Acid	ALL	210/99	ALL	170/77	ALL	77/25
Lithium Chloride	SAT	210/99	SAT	150/66	ALL	-
Magnesium Chloride	ALL	210/99	ALL	170/77	ALL	104/40
Magnesium Nitrate	ALL	210/99	ALL	140/60	ALL	86/30
Magnesium Sulfate	ALL	210/99	ALL	170/77	ALL	104/40
Mercuric Chloride	100	210/99	100	150/66	100	104/40
Mercurous Chloride	ALL	210/99	ALL	140/60	ALL	104/40

Methacrylic Acid	99	95/35	-	-	-	-
Methanol	10	183/84	N/R	N/R	N/R	N/R
Nickel Chloride	ALL	210/99	ALL	170/77	ALL	104/40
Nickel Sulfate	ALL	210/99	ALL	170/77	ALL	104/40
Nitric Acid	20	130/54	20	70/21	20	N/R
Oxalic Acid	ALL	210/99	ALL	75/24	ALL	N/R
Perchloric Acid	30	100/38	10	N/R	10	N/R
Phosphoric Acid	100	210/99	100	120/49	80	N/R
Potassium Chloride	ALL	210/99	ALL	170/77	ALL	104/40
Potassium Dichromate	ALL	210/99	ALL	170/77	ALL	77/25
Potassium Nitrate	ALL	210/99	ALL	170/77	ALL	104/40
Potassium Sulfate	ALL	210/99	ALL	170/77	ALL	104/40
Propylene Glycol	ALL	210/99	ALL	170/77	ALL	104/40
Sea Water	ALL	210/99	ALL	158/70	ALL	113/45

PULTRUDED FRP PROFILE

Pultruded FRP profiles are with the constant cross-section structure by a continuous pultrusion process using fiberglass reinforcements with thermo setting resin matrixes. Optional resins include Ortho,Iso,Vinyl; optional fiberglass reinforcements include E-glass roving, continuous mat, surface veil.etc.



Applications of Pultruded Profiles

Pultruded profiles are structural with the advantages of light weight, high strength, anti-corrosion, insulation, non-magnetic etc. FRP structures are designable, all kinds of productions like platforms, frame supporting, trestles brackets, handrails, fencings, vertical ladders, inclined ladders etc. could be combined by profiles with connectors and fasteners. FRP profiles have been widely applicated in these industries already.

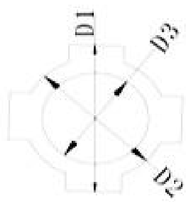
Round Tube

Round Tube

Typical	Item No	Dia (mm) D1	Dia (mm) D2	Weight (g/m)
Round Tube	1	4.52	2	26
	2	5	2	32
	3	6	2	49
	4	6	3.5	34
	5	6.9	3.2	61
	6	6.9	3.5	51
	7	7.9	3.5	77
	8	8.5	3.5	92
	9	8.5	4	87
	10	9	4	99
	11	9.5	4	114
	12	9.5	5	97
	13	10	4	130
	14	10	5	110
	15	10	6	95
	16	11	5	110
	17	11	6	102
	18	12	5	147
	19	12	8	115
	20	12.7	9.5	100
	21	14	8	191
	22	16	11	196
	23	17.5	11	269
	24	19	11.2	356
	25	19	12.5	322
	26	19	14	239
	27	20	16	215
	28	20	17	166
	29	22	12	520
	30	22	17	240
	31	25	10	712
	32	25	19	372
	33	25	20	350
	34	25	21	270
	35	28	21	460
	36	28	22	404
	37	28	24	320
	38	30	21	620
	39	30	24	460
	40	30.5	25.6	420
	41	30.6	24.5	472
	42	31.8	27	415
	43	32	22	752
	44	31.8	28	280
	45	32	24.5	590
	46	32	25.5	510
	47	37	32	502
	48	38	16	1917

Round Tube

Typical	Item No.	Dia (mm) D1	Dia (mm) D2	Weight (g/m)
Round Tube	49	38	21	1535
	50	38	30	815
	51	38	24.5	1259
	52	38	26	1090
	53	38	27	1085
	54	38	32.5	600
	55	42	37	780
	56	42	35	813
	57	44.2	37.6	800
	58	49	32.5	2016
	59	49	40	1150
	60	50.6	42.5	1094
	61	50.8	44.5	995
	62	51.5	44.5	1003
	63	51.8	39	1660
	64	51.8	46.5	680
	65	57	48	1340
	66	59	50	1330
	67	59	51	1280
	68	61.5	48	2248
	69	70	60	1830
	70	76	63	2650
	71	76	68	1670
	72	76	70	1344
	73	89	80	2160
	74	89	82	1739
	75	100	90	3000
	76	101	82	4837
	77	110	100	3134
	78	117	103	4300
	79	127	109	6745
	80	142	134	3110
	81	156	150	2739
	82	160	150	4400
	83	200	190	6500



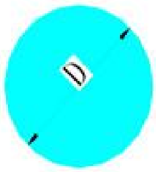
Corrugated

Typical	Item No.	Dia (mm) D1	Dia (mm) D2	Dia (mm) D3	Weight (g/m)
Corrugated	1	32	30	22	760
	2	40	38	32	615
	3	60	54	42	1673
	4	76	71	62	1890
	5	90	85	78	1840
	6	104	99	92	2090
	7	118	113	106	2800
	8	132	127	120	2700
	9	87.6	82	72	2389
	10	105.6	100	90	2912
	11	123.6	118	108	3435
	12	141.6	136	126	3985

WTHC 威通华彩

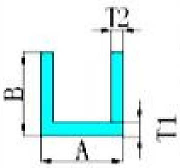
HC

Typical	Item No.	Dia (mm) D	Weight (g/m)
Rod	1	3	14
	2	4	25
	3	4.52	32
	4	5	40
	5	6	56
	6	6.35	57
	7	6.9	75
	8	7.9	98
	9	8.5	115
	10	9	127
	11	9.5	140
	12	10	155
	13	11	190
	14	12	226
	15	12.7	241
	16	14	290
	17	16	375
	18	17.5	448
	19	18.5	495
	20	19	570
	21	20	595
	22	22	722
	23	25	950
	24	30	1410
	25	32	1452



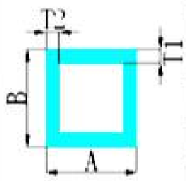
Rod

Typical	Item No.	A	B	T1	T2	Weight (g/m)
U-channel	1	38.2	28.8	3	3	393
	2	38.4	20	3.2	3.2	420
	3	40	20	3.5	3.5	480
	4	45	15	3	2.5	350
	5	45	25	3	2.5	450
	6	48	30	3.2	3.2	590
	7	50	30	5	5	852
	8	50.8	14.3	3.2	3.2	425
	9	63	25	3	4	695
	10	70	26	3	4	680
	11	70	30	3.5	3.5	800
	12	80	30	3.2	3.2	755
	13	80	30	4	4.5	970
	14	84	30	3.4	5	1010
	15	90	35	3	3	1520
	16	90	35	5	5	1570
	17	100	30	5	5	1450
	18	116	65	7	7	2850
	19	127	45	6.5	6.5	2332
	20	150	40	10	10	3800
	21	180	70	4	4	2375
	22	200	70	10	10	6400
	23	203	56	9.5	9.5	5134



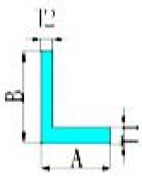
U-channel

Typical	Item No.	A	B	T1	T2	g/m
Square tube	1	25	25	3	3	500
	2	38	38	4	4	995
	3	38	38	7	7	1680
	4	50	50	4	4	1450
	5	50	50	5	5	1676
	6	50	50	6	6	1907
	7	60	60	4.7	4.7	1930
	8	63	63	4	4	1578
	9	75	75	6	6	3350
	10	100	100	8	8	5590
	11	125	125	10	10	8510



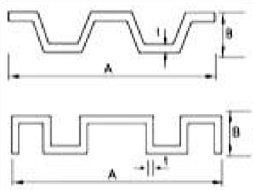
Square tube

Typical	Item No.	A	B	T1	T2	Weight (g/m)
Angle	1	30	30	5	5	505
	2	40	40	4	4	530
	3	40	40	5	5	710
	4	45	45	3.6	3.6	617
	5	50	50	3	3	570
	5	50	50	4	4	730
	6	50	50	6	6	1070
	7	50	50	9.2	9.2	1596
	8	65	65	8	8	1860
	9	75	75	4	4	1080
	10	75	75	10	10	2660



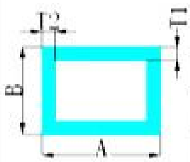
Angle

Typical	Item No	AXBXT	g/m
Kick plate	M1	100x13x3.2	770
	M2	100x14x3.2	1110
	M3	100x16x5	1300
	M4	148x12x3	1270
	W1	100x19x5	1360
	W2	100x14x3.2	1100



Kick plate

Typical	Item No.	A	B	T1	T2	g/m
Rectangular tube	1	52	32	5	5	1420
	2	59	32	4.5	4.5	1300
	3	60	27	3	4	901
	4	65	25	3	3	1000
	5	100	50	3	6	2180
	6	100	45	6.35	4.85	3250
	7	100	50	4	7	2263
	8	180	80	8	8	6560
	9	210	110	5	5	6150



Rectangular tube

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