



FRP/GRP Grating

Catalogue & Technical Specifications

كواليتي واير برودكس
QUALITY WIRE PRODUCTS

Single largest source in the Middle East
for all types of FRP/GRP Gratings



Welcome

Quality Wire Products Company

Quality Wire Products is a single largest source in the Middle East to manufacture and export various types of Gratings.

We export FRP & GRP Moulded Gratings of different size and specifications in various colors, as per customer requirement

Our FRP/GRP gratings does not corrode like steel gratings and therefore used in corrosive environments to reduce maintenance costs. It is used in a variety of applications including walkways and overhead platforms. We offer standard panels and also custom fabricated gratings according to customer requirement . QWP team can also design and advice suitable gratings based on the load factor applicable at site locations.

Our non metallic gratings are offered with and without anti slip patterns and installation hardware can be purchased at additional cost

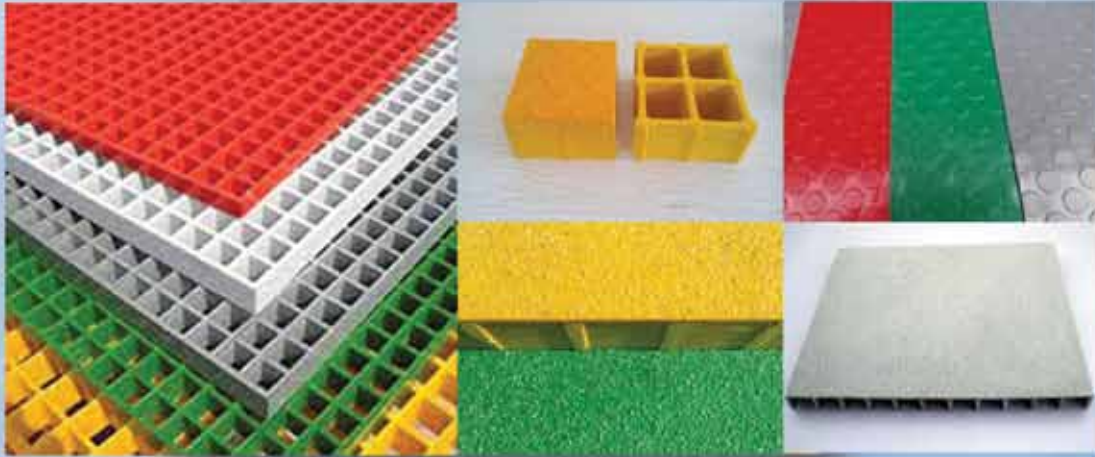
Main features of our gratings are

- Extremely Strong & easy to handle due to low weight
- Corrosion Resistant
- Low Electrical and Thermal Conductivity
- Impact Resistant
- Non-skid Surface

Our catalog offers complete information as to features, specifications and load details . We offer square meshes, mini square meshes, micro square meshes, heavy duty meshes and rectangular meshes. Customized meshes and dimensions are available upon customer's request.

Fibre Reinforced Plastic Grating (FRP Grating)

FRP grating is a moulded one-piece fiberglass reinforced plastic grating, available in standard panels or fabricated into customized panels ready for installation. FRP grating is composed of 65% resin and 35% continuous fiberglass strand.

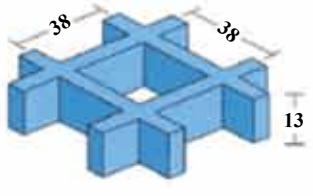


Features / Benefits:

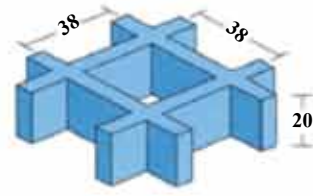
- **Corrosion Resistance**
FRP products are known for their ability to provide corrosion resistance in the harshest environments and chemical exposures. If the grating is exposed to continuous submersions, splash, spills, fumes or gases, the high resin content of FRP resist corrosion to a wide range of chemicals.
- **Anti Skid Surface**
FRP gratings provide slip resistant footing in wet and oily environment. They have a higher friction factor.
- **Fire Resistant**
FRP gratings are engineered to a flame spread rating 25 or less as tested in accordance with ASTM E-84.
- **Two directional load bearing**
Square pattern moulded grating offers load bearing capacity in both directions.
- **Light Weight**
FRP gratings are light weight and can be easily handled without means of mechanical hoists or lifts.
- **Low installation cost & Long life**
The cost for the installation of FRP gratings are very low and have long life span.

Technical Specifications:

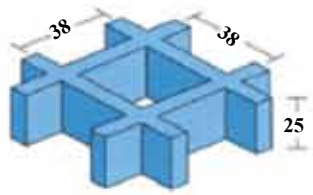
No.01: H13 Mesh size 38x38

	Bar thickness (Top/Bottom) 5.8/5.0
	Distance between centers of bearing bars 38
	Open Area 78%
	Weight per square meter 6.0 kg/m ²
Standard panel sizes: 1220x4000, 1220x3660, 1220x2440, 915x3050, Both directions.	

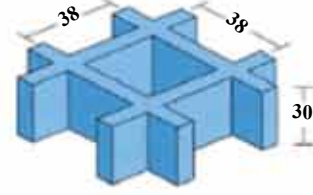
No.02: H20 Mesh size 38x38

	Bar thickness (Top/Bottom) 6.0/5.0
	Distance between centers of bearing bars 38
	Open Area 65%
	Weight per square meter 9.8 kg/m ²
Standard panel sizes: 1220x4000, 1220x3660, 1220x2440, 915x3050, Both directions.	

No.03: H25 Mesh size 38x38

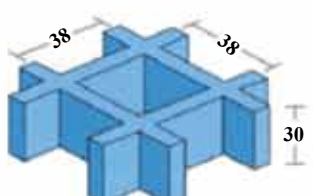
	Bar thickness (Top/Bottom) 6.4/5.0
	Distance between centers of bearing bars 38
	Open Area 68%
	Weight per square meter 12.3 kg/m ²
Standard panel sizes: 1220x4000, 1220x3660, 1220x2440, 915x3050, Both directions.	

No.04: H30 Mesh size 38x38

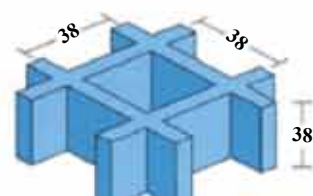
	Bar thickness (Top/Bottom) 6.0/5.0
	Distance between centers of bearing bars 38
	Open Area 68%
	Weight per square meter 14.6 kg/m ²
Standard panel sizes: 1220x4000, 1220x3660, 1220x2440, 915x3050, Both directions.	

No.05: H30 Mesh size 38x38

Heavy Duty

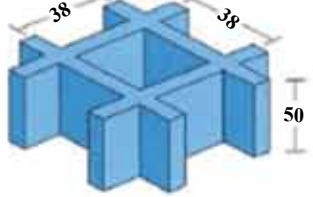
	Bar thickness (Top/Bottom) 10.5/9.0
	Distance between centers of bearing bars 38
	Open Area 58%
	Weight per square meter 25.0 kg/m ²
Standard panel sizes: 1220x3660, 1220x2440, 915x3050 Both directions.	

No.06: H38 Mesh size 38x38

	Bar thickness (Top/Bottom) 7.0/5.0
	Distance between centers of bearing bars 38
	Open Area 68%
	Weight per square meter 19.5 kg/m ²
Standard panel sizes: 1220x4000, 1220x3660, 1220x2440, 915x3050, 1524x3050, 1524x4000, Both directions.	

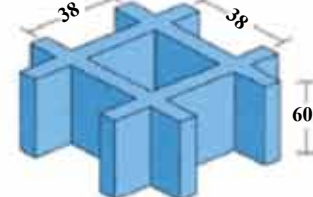
No.07: H50 Mesh size 38x38

Heavy Duty

	Bar thickness (Top/Bottom) 11.0/9.0
	Distance between centers of bearing bars 38
	Open Area 56%
	Weight per square meter 42.0 kg/m ²
Standard panel sizes: 1220x4000, 1220x3660, 1220x2440, 915x3050, Both directions.	

No.08: H60 Mesh size 38x38

Heavy Duty

	Bar thickness (Top/Bottom) 11.5/9.0
	Distance between centers of bearing bars 38
	Open Area 54%
	Weight per square meter 50.4 kg/m ²
Standard panel sizes: 1220x4000, 1220x3660, 1220x2440, 915x3050, Both directions.	

UNIFORM LOAD



		DISTANCE BETWEEN SUPPORTS								
MESH TYPE mm x mm	THICKNESS mm		400 mm	500 mm	600 mm	800 mm	1000 mm	1200 mm	1400 mm	1500 mm
100x25 (92x18)	25	U	5370	2770	1600	680	350	200	130	100
		d	4	5	6	8	10	12	14	15
38x38 (32x32)	25	U	3140	1610	940	400	200	120	70	60
		d	4	5	6	8	10	12	14	15
40x40 (32x32)	25	U	3420	1760	1020	430	220	130	80	70
		d	4	5	6	8	10	12	14	15
38x38 (32x32)	30	U	5640	2910	1690	720	370	210	130	110
		d	4	5	6	8	10	12	14	15
40x40 (32x32)	30	U	6210	3200	1860	790	400	230	150	120
		d	4	5	6	8	10	12	14	15
15x15 (8x8)	30	U	7660	3960	2310	980	500	290	180	150
		d	4	5	6	8	10	12	14	15
20x20 (13x13)	30	U	6880	3560	2070	880	450	260	160	130
		d	4	5	6	8	10	12	14	15
25x25 (19x19)	30	U	6490	3360	1950	830	430	250	160	130
		d	4	5	6	8	10	12	14	15
38x38 (32x32)	38	U	11440	5920	3450	1460	750	440	270	220
		d	4	5	6	8	10	12	14	15
40x40 (32x32)	38	U	12090	6260	3650	1550	790	460	290	240
		d	4	5	6	8	10	12	14	15
20x20 (13x13)	38	U	13660	7100	4140	1760	910	530	330	270
		d	4	5	6	8	10	12	14	15
25x25 (19x19)	40	U	14390	7490	4370	1860	960	560	350	280
		d	4	5	6	8	10	12	14	15
50x50 (42x42)	50	U	22220	11600	6780	2890	1490	860	540	440
		d	4	5	6	8	10	12	14	15
25x25 (19x19)	50	U	28830	15140	8880	3800	1960	1140	720	580
		d	4	5	6	8	10	12	14	15
25x50 (16x40)	55	U	39790	20960	12320	5280	2720	1580	1000	810
		d	4	5	6	8	10	12	14	15
38x38 (27x27)	60	U	85090	44880	26410	11330	5850	3400	2150	1750
		d	4	5	6	8	10	12	14	15

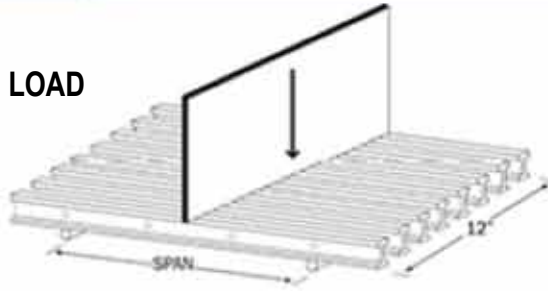
U = Uniformly Distributed Load kg/m²

d = Deflection of corresponding load (expressed in mm)

The load values refer to a L/100 (1%) deflection

The load values indicated represent average values (tolerance +/-15%)

CONCENTRATED LOAD



DISTANCE BETWEEN SUPPORTS

MESH TYPE mm x mm	THICKNESS mm		DISTANCE BETWEEN SUPPORTS							
			400 mm	500 mm	600 mm	800 mm	1000 mm	1200 mm	1400 mm	1500 mm
100x25 (92x18)	25	C	1340	860	600	340	220	150	110	100
		d	4	5	6	8	10	12	14	15
38x38 (32x32)	25	C	780	500	350	200	130	90	60	60
		d	4	5	6	8	10	12	14	15
40x40 (32x32)	25	C	850	550	380	220	140	100	70	60
		d	4	5	6	8	10	12	14	15
38x38 (32x32)	30	C	1400	910	630	360	230	160	120	100
		d	4	5	6	8	10	12	14	15
40x40 (32x32)	30	C	1540	1000	700	390	250	180	130	110
		d	4	5	6	8	10	12	14	15
15x15 (8x8)	30	C	1900	1230	860	490	310	220	160	140
		d	4	5	6	8	10	12	14	15
20x20 (13x13)	30	C	1710	1110	770	440	280	200	140	130
		d	4	5	6	8	10	12	14	15
25x25 (19x19)	30	C	1610	1040	730	410	270	180	140	120
		d	4	5	6	8	10	12	14	15
38x38 (32x32)	38	C	2840	1840	1290	730	470	330	240	210
		d	4	5	6	8	10	12	14	15
40x40 (32x32)	38	C	3000	1950	1360	770	500	350	250	220
		d	4	5	6	8	10	12	14	15
20x20 (13x13)	38	C	3380	2200	1550	880	570	390	290	250
		d	4	5	6	8	10	12	14	15
25x25 (19x19)	40	C	3560	2320	1630	930	600	420	310	270
		d	4	5	6	8	10	12	14	15
50x50 (42x42)	50	C	5480	3590	2530	1440	930	650	480	420
		d	4	5	6	8	10	12	14	15
25x25 (19x19)	50	C	7090	4680	3300	1890	1220	850	630	550
		d	4	5	6	8	10	12	14	15
25x50 (16x40)	55	C	9760	6470	4580	2630	1700	1180	870	760
		d	4	5	6	8	10	12	14	15
38x38 (27x27)	60	C	20850	13840	9810	5630	3640	2540	1870	1630
		d	4	5	6	8	10	12	14	15

C = Concentrated Line load kg/m

d = Deflection of corresponding load (expressed in mm)

The load values refer to a L/100 (1%) deflection

The load values indicated represent average values (tolerance +/-15%)

NOTICE

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