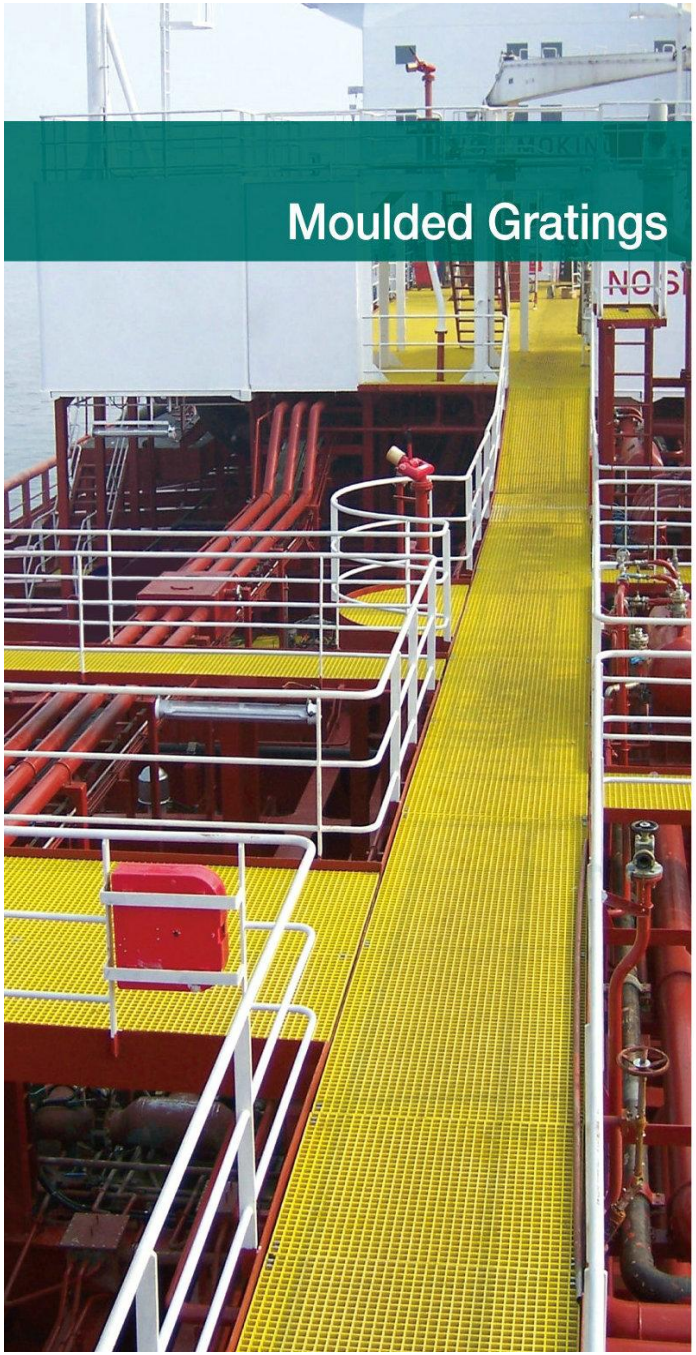
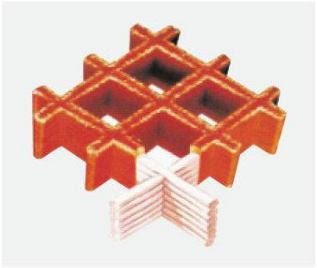


Moulded Gratings

Craftwork

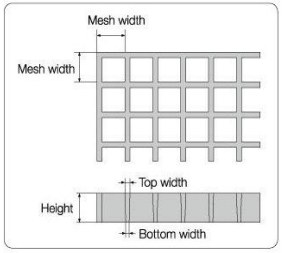
FRP/GRP GRATING is the abbreviation of fiberglass/ glassfiber reinforced plastic grating. It is originated from the U.S. in 1970s. FRP grating is built with unsaturated polyester resin (orthophthalic, isophthalic, vinylester or bisphenol A) or phenolic resin as matrix and fiberglass roving (C-glass, E-glass, phenolic fiber and other) woven as reinforcing material, which are processed through mould cast integrally by heating and compressing. It is composed of a certain number of symmetrical lattices, with loading properties in both length and width direction.



Features

a. The woven fiberglass fully soaked with resin brings excellent anti-corrosion property.
b. FRP grating distribute the loading evenly which is good for installation and structure stability.
c. The lustrous surface and italic bars give the grating an effect of self-cleaning.
d. The natural concave surface is anti-slip; Gritted surface is even better in this function.

Size specification



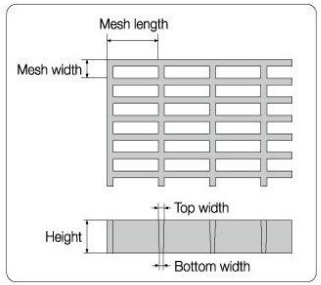
Ordinary mesh

Item No.	Height (mm)	Mesh Size (mm)	Standard Panel Size (mm)	Bar width (top/bottom mm)	Open Aera	Weight (kg/m²)
1	13	50.8×50.8	3660×1220	6.4 / 5.4	76%	5.0
2	15	38.1×38.1	3660×1220	6.3 / 5.2	69%	6.9
3	20	38.1×38.1	3660×1220	6.4 / 5	69%	9.3
4	20	40×40	4047×1007	6.3 / 5.0	70%	9.2
5	25	38.1×38.1	3665×1225	6.35 / 5	69%	12.3
6	25	40×40	4047×1007	6.35 / 5	70%	12.2
7	30	38.1×38.1	4008×1525	6.6 / 5	68%	14.5
8	30	40×40	4047×1007	6.6 / 5	69%	14.3
9	38	38.1×38.1	4005×1525	7 / 5	66%	19.0
10	38	40×40	4047×1007	7 / 5	67%	18.6
11	40	40×40	4047×1247	7 / 5.5	67%	20.0
12	40	50.7×50.7	3660×1225	8 / 5	69%	16.7
13	50	50.7×50.7	4115×1530	8.3 / 5	69%	22.0
14	50	50.7×50.7	3660×1225	8.8 / 5	68%	23.5
15	50	49.7×49.8	2000×1275	8 / 5	68%	22.0
16	50	38.1×38.1	3660×1220	8.5 / 5.8	58%	28.7
17	50	38.1×38.1	3665×1225	11.5 / 9	48%	40.5
18	60	38.1×38.1	3660×1220	9 / 5.8	58%	36.5
19	60	38.1×38.1	3670×1230	12 / 9	46%	49.3
20	63	38.1×38.1	3660×1220	9 / 5.8	58%	37.4
21	63	38.1×38.1	3666×1222	12 / 9	46%	52.0
22	P 30	38.1×38.1	3660×1220	6.6 / 5	68%	14.0
23	P 38	38.1×38.1	3660×1220	7 / 5	66%	17.5
24	P 50	50.7×50.7	3660×1225	8.8 / 5	68%	21.5

Remarks:

1. The above panel sizes are the standard sizes. Smaller sizes are available by cutting; For special sizes other than above, please contact us for practicability of opening a new mould.
2. The "height"marked with "**P**" means it is the phenolic grating.

Size specification



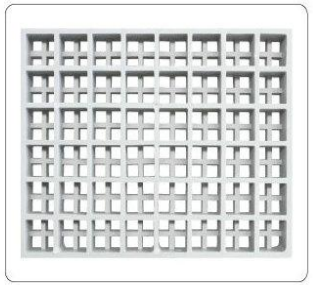
Rectangle mesh

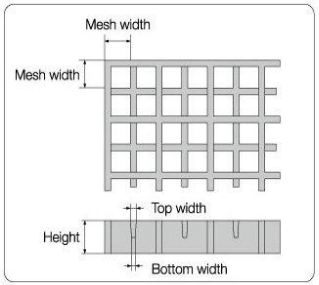
Item No.	Height (mm)	Mesh Size (mm)	Standard Panel Size (mm)	Bar width (top/bottom mm)	Open Aera	Weight (kg/m²)
25	25	25×100 (bearing bars to run width direction)	3007×1009	L 9.4 / 8 W 6.4 / 5	67%	13.8
26	25	25.4×101.6 (bearing bars to run width direction)	3660×1220	7 / 5.6	67%	12.5
27	25	101.6×25.4 (bearing bars to run length direction)	3665×1225	7 / 5	67%	12.2
28	30	152.4×25.4 (bearing bars to run length direction)	3665×1226	L 6.6 / 5 W 8.5 / 7	68%	16.1
29	30	101.6×38.1 (bearing bars to run length direction)	3660×1220	6.6 / 5	76%	11.4
30	38	152.4×25.4 (bearing bars to run length direction)	3665×1226	L 7 / 5 W 9 / 7	68%	20.4
31	38	101.6×38.1 (bearing bars to run length direction)	3660×1220	7 / 5	76%	13.9
32	40	220×60 (bearing bars to run length direction)	2207×1507	7 / 5	85%	9.2
33	40	152.4×38.1 (bearing bars to run length direction)	3660×1220	8.5 / 7	72%	16.5
34	50	152.4×38.1 (bearing bars to run length direction)	3660×1220	9 / 7	72%	20.8

Remarks:

The above panel sizes are the standard sizes. Smaller sizes are available by cutting; For special sizes other than above, please contact us for practicability of opening a new mould.

Size specification





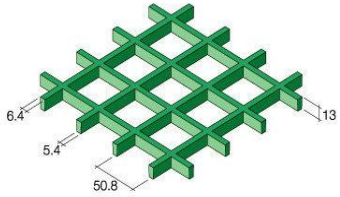
Micromesh

Item No.	Height (mm)	Mesh Size (mm)	Standard Panel Size (mm)	Bar width (top/bottom mm)	Open Aera	Weight (kg/m²)
35	15	25.4×25.4 (50.8×50.8)	3660×1220	6.2 / 5	57%	7.2
36	15	20×20 (40×40)	4047×1247	6.35 / 5.3	47%	10.0
37	20	12.8×12.8×12.8 (38.5×38.5)	3434×970	7.2 / 6.2	27%	16.8
38	25	19×19 (38×38)	4005×1220	6.4 / 5	44%	14.7
39	30	20×20 (40×40)	4047×1247	7 / 5	42%	17.8
40	30	12.6×12.6×12.6 (38×38)	4040×1220	8 / 6	30%	22.0
41	30	26×26 (52×52)	4011×1150	6.5/5	56%	13.6
42	38	19×19 (38.1×38.1)	4045×1220	7 / 5	40%	22.6
43	38	20×20 (40×40)	4047×1247	7 / 5	42%	22.3
44	38	26×26 (52×52)	4010×1255	7 / 5	53%	18.5
45	40	20×20 (40×40)	4047×1247	7 / 5	42%	23.7
46	50	25.35×25.35 (50.7×50.7)	3660×1220	8 / 6	47%	26.6

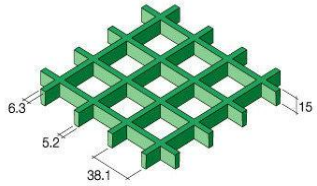
Remarks:

The above panel sizes are the standard sizes. Smaller sizes are available by cutting; For special sizes other than above, please contact us for practicability of opening a new mould.

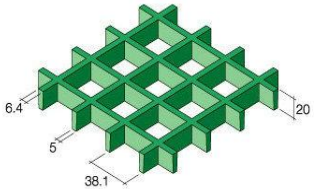
Specification drawing



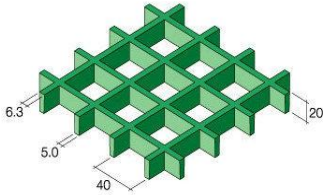
1 **H13×(50.8×50.8)**
- Standard Panel Size: 3660×1220 mm
- Open Aera: 76% • Weight: 5 kg/m²



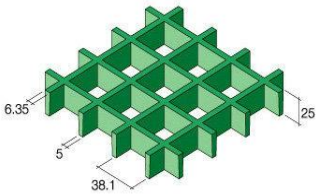
2 **H15×(38.1×38.1)**
- Standard Panel Size: 3660×1220 mm
- Open Aera: 69% • Weight: 6.9 kg/m²



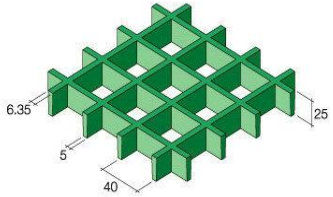
3 **H20×(38.1×38.1)**
- Standard Panel Size: 3660×1220 mm
- Open Aera: 69% • Weight: 9.3 kg/m²



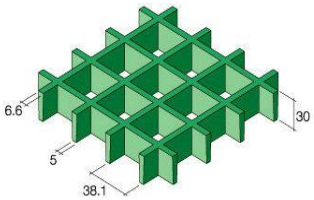
4 **H20×(40×40)**
- Standard Panel Size: 4047×1007 mm
- Open Aera: 70% • Weight: 9.2 kg/m²



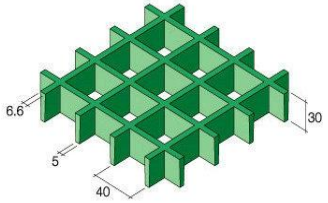
5 **H25×(38.1×38.1)**
- Standard Panel Size: 3665×1225 mm
- Open Aera: 69% • Weight: 12.3 kg/m²



6 **H25×(40×40)**
- Standard Panel Size: 4047×1007 mm
- Open Aera: 70% • Weight: 12.2 kg/m²

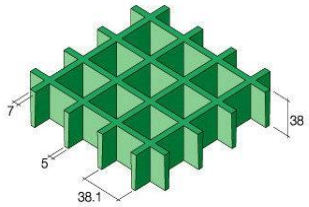


7 **H30×(38.1×38.1)**
- Standard Panel Size: 4008×1525 mm
- Open Aera: 68% • Weight: 14.5 kg/m²

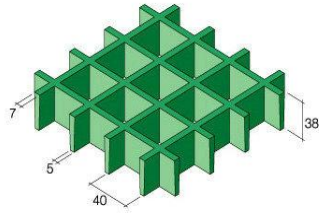


8 **H30×(40×40)**
- Standard Panel Size: 4047×1007 mm
- Open Aera: 69% • Weight: 14.3 kg/m²

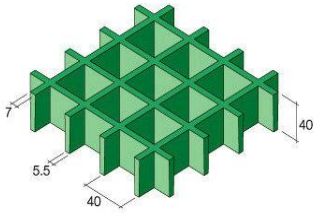
Specification drawing



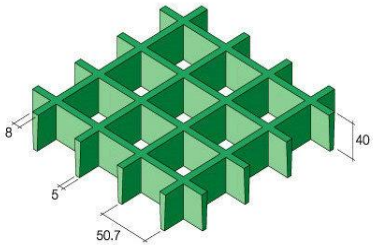
9 **H38×(38.1×38.1)**
- Standard Panel Size: 4005×1525 mm
- Open Aera: 66% • Weight: 19.0 kg/m²



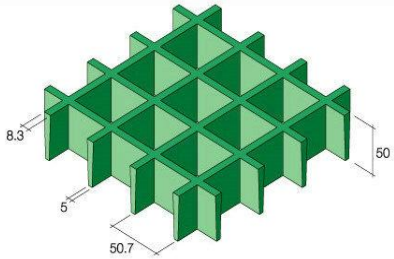
10 **H38×(40×40)**
- Standard Panel Size: 4047×1007 mm
- Open Aera: 67% • Weight: 18.6 kg/m²



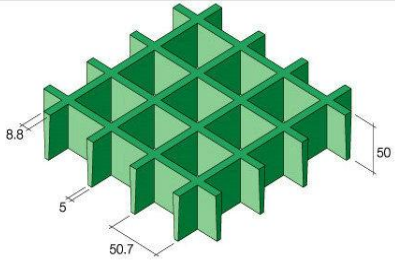
11 **H40×(40×40)**
- Standard Panel Size: 4047×1247 mm
- Open Aera: 67% • Weight: 20.0 kg/m²



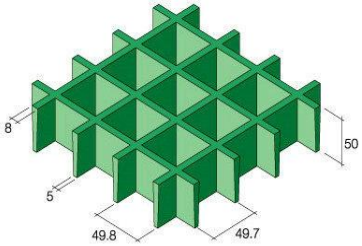
12 **H40×(50.7×50.7)**
- Standard Panel Size: 3660×1225 mm
- Open Aera: 69% • Weight: 16.7 kg/m²



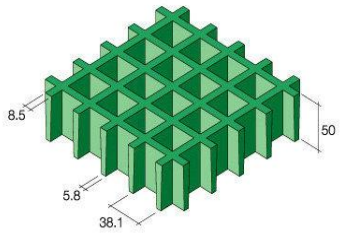
13 **H50×(50.7×50.7)**
- Standard Panel Size: 4115×1530 mm
- Open Aera: 69% • Weight: 22.0 kg/m²



14 **H50×(50.7×50.7)**
- Standard Panel Size: 3660×1225 mm
- Open Aera: 68% • Weight: 23.5 kg/m²

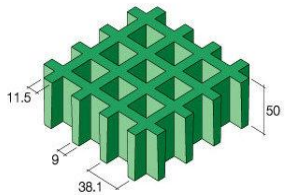


15 **H50×(49.7×49.7)**
- Standard Panel Size: 2000×1275 mm
- Open Aera: 68% • Weight: 22.0 kg/m²

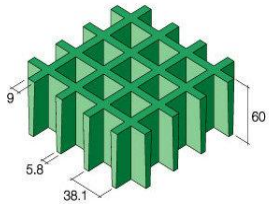


16 **H50×(38.1×38.1)**
- Standard Panel Size: 3660×1220 mm
- Open Aera: 58% • Weight: 28.7 kg/m²

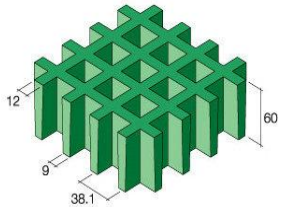
Specification drawing



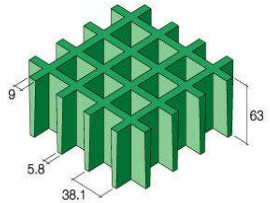
17 **H50×(38.1×38.1)**
- Standard Panel Size: 3665×1225 mm
- Open Aera: 48% • Weight: 40.5 kg/m²



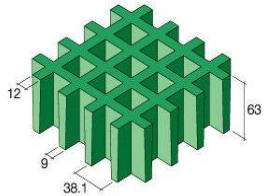
18 **H60×(38.1×38.1)**
- Standard Panel Size: 3660×1220 mm
- Open Aera: 58% • Weight: 36.5 kg/m²



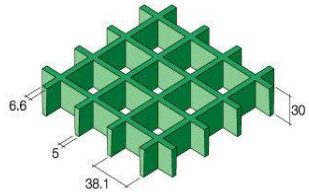
19 **H60×(38.1×38.1)**
- Standard Panel Size: 3670×1230 mm
- Open Aera: 46% • Weight: 49.3 kg/m²



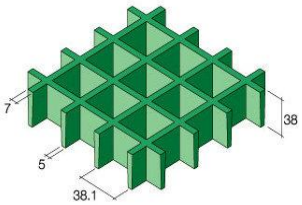
20 **H63×(38.1×38.1)**
- Standard Panel Size: 3660×1220 mm
- Open Aera: 58% • Weight: 37.4 kg/m²



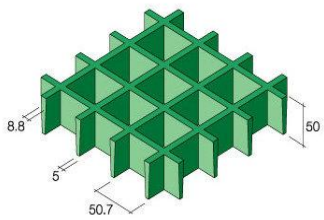
21 **H63×(38.1×38.1)**
- Standard Panel Size: 3666×1222 mm
- Open Aera: 46% • Weight: 52.0 kg/m²



22 **H30×(38.1×38.1)**
- Standard Panel Size: 3660×1220 mm
- Open Aera: 68% • Weight: 14.0 kg/m²

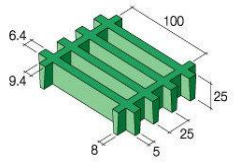


23 **H38×(38.1×38.1)**
- Standard Panel Size: 3660×1220 mm
- Open Aera: 66% • Weight: 17.5 kg/m²

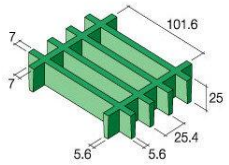


24 **H50×(50.7×50.7)**
- Standard Panel Size: 3660×1225 mm
- Open Aera: 68% • Weight: 21.5 kg/m²

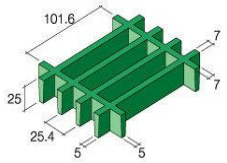
Specification drawing



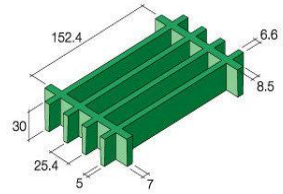
25 **H25×(25×100)**
- Standard Panel Size: 3007×1009 mm (bearing bars to run width direction)
- Open Aera: 67% • Weight: 13.8 kg/m²



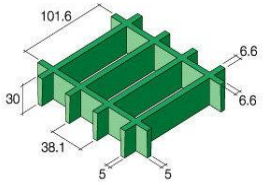
26 **H25×(25.4×101.6)**
- Standard Panel Size: 3660×1220 mm (bearing bars to run width direction)
- Open Aera: 67% • Weight: 12.5 kg/m²



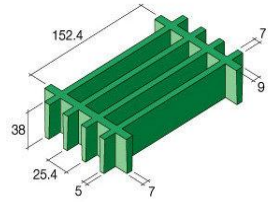
27 **H25×(101.6×25.4)**
- Standard Panel Size: 3665×1225 mm (bearing bars to run length direction)
- Open Aera: 67% • Weight: 12.2 kg/m²



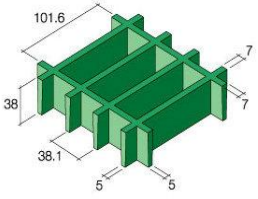
28 **H30×(152.4×25.4)**
- Standard Panel Size: 3665×1226 mm (bearing bars to run length direction)
- Open Aera: 68% • Weight: 16.1 kg/m²



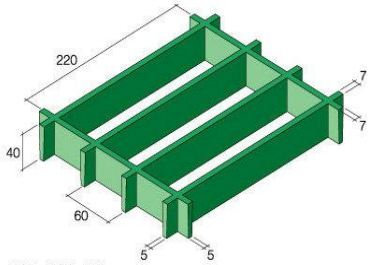
29 **H30×(101.6×38.1)**
- Standard Panel Size: 3660×1220 mm (bearing bars to run length direction)
- Open Aera: 76% • Weight: 11.4 kg/m²



30 **H38×(152.4×25.4)**
- Standard Panel Size: 3665×1226 mm (bearing bars to run length direction)
- Open Aera: 68% • Weight: 20.4 kg/m²

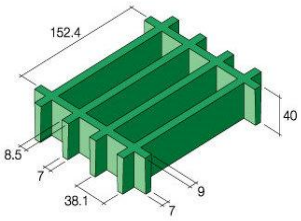


31 **H38×(101.6×38.1)**
- Standard Panel Size: 3660×1220 mm (bearing bars to run length direction)
- Open Aera: 76% • Weight: 13.9 kg/m²

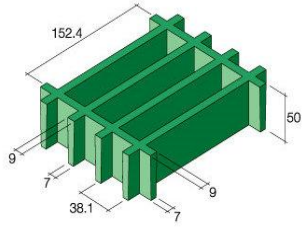


32 **H40×(220×60)**
- Standard Panel Size: 2207×1507 mm (bearing bars to run length direction)
- Open Aera: 85% • Weight: 9.2 kg/m²

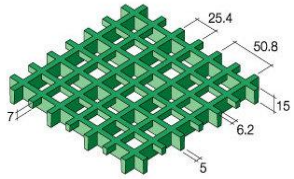
Specification drawing



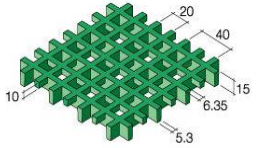
33 **H40×(152.4×38.1)**
- Standard Panel Size: 3660×1220 mm (bearing bars to run length direction)
- Open Aera: 72% • Weight: 16.5 kg/m²



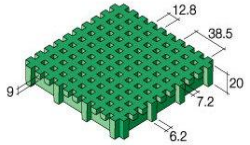
34 **H50×(152.4×38.1)**
- Standard Panel Size: 3660×1220 mm (bearing bars to run length direction)
- Open Aera: 72% • Weight: 20.8 kg/m²



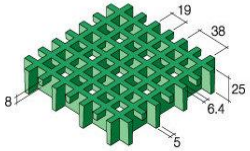
35 **H15×(25.4×25.4/50.8×50.8)**
- Standard Panel Size: 3660×1220 mm
- Open Aera: 57% • Weight: 7.2 kg/m²



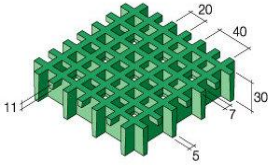
36 **H15×(20×20/40×40)**
- Standard Panel Size: 4047×1247 mm
- Open Aera: 47% • Weight: 10.0 kg/m²



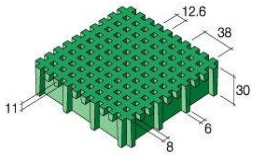
37 **H20×(12.8×12.8×12.8/38.5×38.5)**
- Standard Panel Size: 3434×970 mm
- Open Aera: 27% • Weight: 16.8 kg/m²



38 **H25×(19×19/38×38)**
- Standard Panel Size: 4005×1220 mm
- Open Aera: 44% • Weight: 14.7 kg/m²

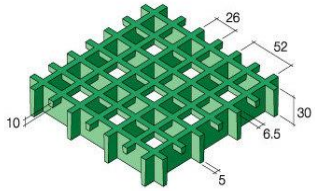


39 **H30×(20×20/40×40)**
- Standard Panel Size: 4047×1247 mm
- Open Aera: 42% • Weight: 17.8 kg/m²

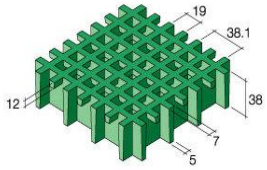


40 **H30×(12.6×12.6×12.6/38×38)**
- Standard Panel Size: 4040×1220 mm
- Open Aera: 30% • Weight: 22.0 kg/m²

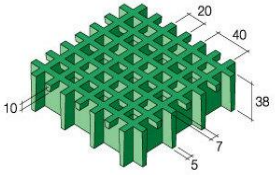
Specification drawing



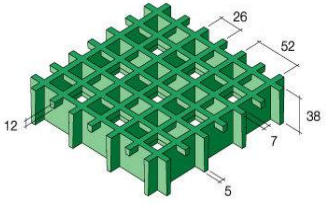
41 **H30×(26×26/52×52)**
- Standard Panel Size: 4011×1150 mm
- Open Aera: 56% • Weight: 13.6 kg/m²



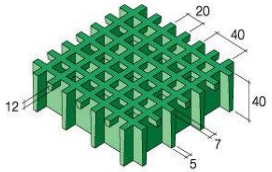
42 **H38×(19×19/38.1×38.1)**
- Standard Panel Size: 4045×1220 mm
- Open Aera: 40% • Weight: 22.6 kg/m²



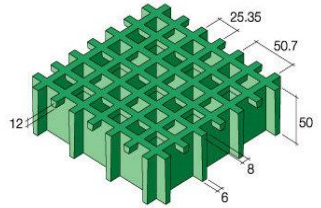
43 **H38×(20×20/40×40)**
- Standard Panel Size: 4047×1247 mm
- Open Aera: 42% • Weight: 22.3 kg/m²



44 **H38×(26×26/52×52)**
- Standard Panel Size: 4010×1255 mm
- Open Aera: 53% • Weight: 18.5 kg/m²



45 **H40×(20×20/40×40)**
- Standard Panel Size: 4047×1247 mm
- Open Aera: 42% • Weight: 23.7 kg/m²

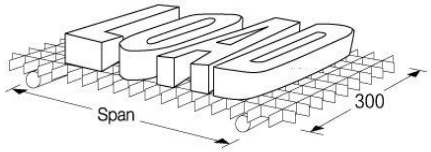


46 **H50×(25.35×25.35/50.7×50.7)**
- Standard Panel Size: 3660×1220 mm
- Open Aera: 47% • Weight: 26.6 kg/m²

Loading ability

A. Deflection sheet for uniform load

Testing Principle: Measuring the deflection values of a specified testing sample with different uniform loads on different spans.



Uniform load

Deflection sheet for uniform load (mm)

Span mm	Mesh size mm	Height mm	Uniform load (kg/m²)						
			200	400	600	800	1200	1600	2000
457	38.1×38.1	25	0.55	1.10	1.64	2.18	3.27	4.35	5.45
	19×19/38×38	25	0.40	0.80	1.20	1.59	2.38	3.17	3.96
	25.4×101.6	25	0.33	0.65	0.98	1.30	1.95	2.60	3.26
	38.1×38.1	30	0.31	0.63	0.94	1.25	1.87	2.49	3.11
	40×40 (Top 20×20)	30	0.24	0.48	0.72	0.96	1.44	1.92	2.40
	38.1×38.1	38	0.14	0.28	0.42	0.57	0.85	1.13	1.41
	25.4×152.4 (bearing bars to run length direction)	38	/	0.18	0.27	0.36	0.54	0.72	0.91
	38.1×101.6 (bearing bars to run length direction)	38	0.20	0.40	0.60	0.80	1.20	1.60	2.00
	40×40 (Top 20×20)	38	0.13	0.26	0.39	0.55	0.82	1.10	1.37
	50.7×50.7	50	/	0.17	0.26	0.34	0.52	0.68	0.85
	25.35×25.35/50.7×50.7	50	/	0.16	0.24	0.33	0.48	0.65	0.81
	38.1×152.4 (bearing bars to run length direction)	50	/	0.16	0.23	0.32	0.46	0.63	0.77
	38.1×38.1 (9/11.5)	50	/	0.14	0.20	0.27	0.40	0.53	0.67
	38.1×38.1 (5.8/9)	60	/	0.15	0.21	0.29	0.43	0.57	0.71
	38.1×38.1 (9/12)	60	/	0.10	0.15	0.20	0.30	0.41	0.51
610	38.1×38.1	25	1.18	2.35	3.53	4.70	7.05	9.40	11.75
	19×19/38×38	25	0.98	1.95	2.92	3.90	5.84	7.79	9.73
	25.4×101.6	25	0.91	1.83	2.74	3.65	5.47	7.30	9.11
	38.1×38.1	30	0.71	1.41	2.12	2.83	4.25	5.65	7.07
	40×40 (Top 20×20)	30	0.54	1.08	1.63	2.17	3.25	4.34	5.42
	38.1×38.1	38	0.31	0.62	0.93	1.24	1.87	2.49	3.11
	25.4×152.4 (bearing bars to run length direction)	38	0.21	0.41	0.62	0.82	1.23	1.64	2.05
	38.1×101.6 (bearing bars to run length direction)	38	0.45	0.91	1.36	1.82	2.72	3.63	4.54
	40×40 (Top 20×20)	38	0.29	0.57	0.85	1.13	1.70	2.27	2.83
	50.7×50.7	50	0.18	0.37	0.55	0.73	1.10	1.47	1.84
	25.35×25.35/50.7×50.7	50	0.17	0.35	0.53	0.70	1.06	1.40	1.76
	38.1×152.4 (bearing bars to run length direction)	50	0.16	0.32	0.48	0.65	0.96	1.30	1.60
	38.1×38.1 (9/11.5)	50	0.14	0.28	0.42	0.56	0.84	1.12	1.41
	38.1×38.1 (5.8/9)	60	0.15	0.30	0.45	0.60	0.90	1.20	1.50
	38.1×38.1 (9/12)	60	0.12	0.23	0.35	0.46	0.70	0.93	1.16

Span mm	Mesh size mm	Height mm	Uniform load (kg/m²)						
			200	400	600	800	1200	1600	2000
914	38.1×38.1	25	6.10	12.19	18.29	/	/	/	/
	19×19/38×38	25	5.45	10.89	16.33	/	/	/	/
	25.4×101.6	25	4.76	9.53	14.29	19.05	/	/	/
	38.1×38.1	30	3.53	7.06	10.59	14.12	/	/	/
	40×40 (Top 20×20)	30	3.04	6.09	9.14	12.18	18.28	24.38	/
	38.1×38.1	38	1.54	3.07	4.61	6.14	9.22	12.29	15.36
	25.4×152.4 (bearing bars to run length direction)	38	1.13	2.26	3.39	4.51	6.78	9.03	11.28
	38.1×101.6 (bearing bars to run length direction)	38	2.15	4.30	6.45	8.60	12.91	17.20	21.50
	40×40 (Top 20×20)	38	1.33	2.65	3.98	5.30	7.95	10.60	13.25
	50.7×50.7	50	0.89	1.79	2.69	3.58	5.37	7.17	8.96
	25.35×25.35/50.7×50.7	50	0.75	1.49	2.24	2.98	4.47	5.97	7.46
	38.1×152.4 (bearing bars to run length direction)	50	0.71	1.42	2.13	2.83	4.25	5.67	7.08
	38.1×38.1 (9/11.5)	50	0.44	0.89	1.33	1.78	2.67	3.56	4.45
	38.1×38.1 (5.8/9)	60	0.47	0.94	1.41	1.89	2.83	3.77	4.71
	38.1×38.1 (9/12)	60	0.31	0.62	0.93	1.24	1.87	2.49	3.11
1219	38.1×38.1	38	4.69	9.38	14.06	18.77	/	/	/
	25.4×152.4 (bearing bars to run length direction)	38	3.34	6.68	10.02	13.37	20.05	/	/
	38.1×101.6 (bearing bars to run length direction)	38	6.59	13.18	19.78	/	/	/	/
	40×40 (Top 20×20)	38	4.16	8.30	12.46	16.62	/	/	/
	50.7×50.7	50	2.90	5.80	8.71	11.62	17.43	/	/
	25.35×25.35/50.7×50.7	50	2.42	4.84	7.26	9.67	14.52	19.36	/
	38.1×152.4 (bearing bars to run length direction)	50	1.92	3.84	5.75	7.67	11.50	15.35	/
	38.1×38.1 (9/11.5)	50	1.37	2.73	4.10	5.47	8.21	10.94	13.68
	38.1×38.1 (5.8/9)	60	1.61	3.22	4.82	6.43	9.64	12.86	16.08
	38.1×38.1 (9/12)	60	0.96	1.91	2.87	3.83	5.74	7.65	9.57

Remark:

a. The above datas are from calculation by referring actual tests. There may be exist slight difference.

b. The systematic deviation affects more to short span tests. The values for short spans stated here may be deviated more from actual testing datas.

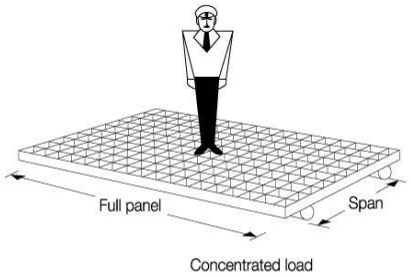
c. Due to material discreteness and systematic deviation, we assume ±20% deviation between theoretical datas and testing datas.

d. Please contact us if you need datas for conditions other than above.

Loading ability

B. Deflection sheet for concentrated point load

Testing Principle: Measuring the deflection values of a specified testing sample with different point loads on different spans.



Deflection sheet for concentrated load (mm)

Span mm	Mesh size mm	Height mm	Concentrated load (kg)						
			100	200	400	600	800	1000	1500
457	38.1×38.1	25	0.95	1.91	3.81	5.71	7.62	9.52	/
	19×19/38×38	25	0.85	1.69	3.38	5.10	6.77	8.46	12.70
	25.4×101.6	25	0.78	1.56	3.12	4.67	6.22	7.78	/
	38.1×38.1	30	0.64	1.27	2.55	3.81	5.08	6.35	9.53
	20×20/40×40	30	0.56	1.11	2.20	3.29	4.40	5.49	8.24
	38.1×38.1	38	0.32	0.64	1.27	1.91	2.55	3.18	4.76
	20×20/40×40	38	0.30	0.60	1.19	1.78	2.38	2.97	4.45
	50.7×50.7	50	0.21	0.45	0.85	1.27	1.69	2.11	3.17
	25.35×25.35/50.7×50.7	50	0.18	0.37	0.73	1.10	1.46	1.83	2.74
610	38.1×38.1	25	2.18	4.36	8.72	13.07	/	/	/
	19×19/38×38	25	1.91	3.81	7.63	11.44	15.25	/	/
	25.4×101.6	25	1.76	3.51	7.01	10.52	14.03	/	/
	38.1×38.1	30	1.38	2.75	5.50	8.25	11.00	/	/
	20×20/40×40	30	1.28	2.55	5.09	7.63	10.17	/	/
	38.1×38.1	38	0.60	1.20	2.40	3.60	4.79	5.99	8.97
	20×20/40×40	38	0.51	1.03	2.05	3.07	4.10	5.11	7.69
	50.7×50.7	50	0.39	0.76	1.52	2.28	3.04	3.80	5.70
	25.35×25.35/50.7×50.7	50	0.31	0.61	1.22	1.83	2.44	3.05	4.58
	38.1×38.1 (9/11.5)	50	0.27	0.54	1.09	1.63	2.17	2.71	4.07
	38.1×38.1 (5.8/9)	60	0.28	0.57	1.14	1.71	2.27	2.84	4.26
	38.1×38.1 (9/12)	60	0.19	0.38	0.77	1.15	1.53	1.92	2.28
914	38.1×38.1	25	6.09	12.19	/	/	/	/	/
	19×19/38×38	25	5.90	11.79	/	/	/	/	/
	25.4×101.6	25	4.35	8.71	17.41	/	/	/	/
	38.1×38.1	30	3.46	6.93	13.85	/	/	/	/
	20×20/40×40	30	3.25	6.49	12.97	/	/	/	/
	38.1×38.1	38	1.60	3.18	6.35	9.53	12.70	/	/
	20×20/40×40	38	1.40	2.79	5.55	8.31	11.09	13.85	/
	50.7×50.7	50	0.85	1.70	3.39	5.08	6.78	8.47	12.70
	25.35×25.35/50.7×50.7	50	0.65	1.31	2.61	3.92	5.22	6.53	9.80
	38.1×38.1 (9/11.5)	50	0.60	1.19	2.39	3.58	4.48	5.97	9.14
	38.1×38.1 (5.8/9)	60	0.63	1.26	2.52	3.78	5.04	6.31	9.46
	38.1×38.1 (9/12)	60	0.43	0.85	1.71	2.56	3.42	4.27	6.41

Span mm	Mesh size mm	Height mm	集中负载（kg）						
			100	200	400	600	800	1000	1500
1219	38.1×38.1	38	3.04	6.08	12.15	18.23	/	/	/
	20×20/40×40	38	2.81	5.62	11.22	16.85	/	/	/
	50.7×50.7	50	2.10	4.19	8.37	12.55	16.75	/	/
	25.35×25.35/50.7×50.7	50	1.78	3.53	7.07	10.60	14.13	17.68	/
	38.1×38.1 (9/11.5)	50	1.35	2.69	5.39	8.09	10.79	13.50	20.24
	38.1×38.1 (5.8/9)	60	1.51	3.01	6.02	9.04	12.05	15.06	22.60
	38.1×38.1 (9/12)	60	0.96	1.93	3.85	5.78	7.71	9.64	14.45

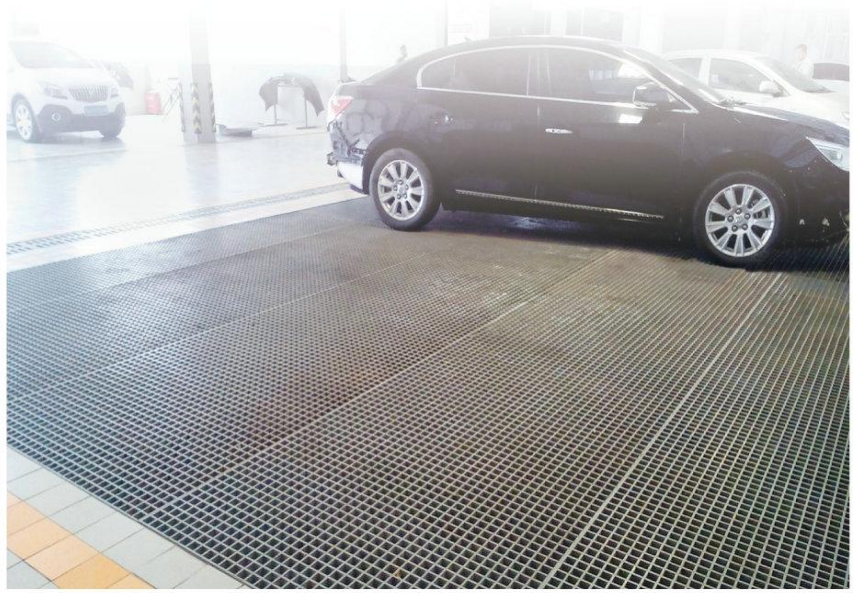
Remark:

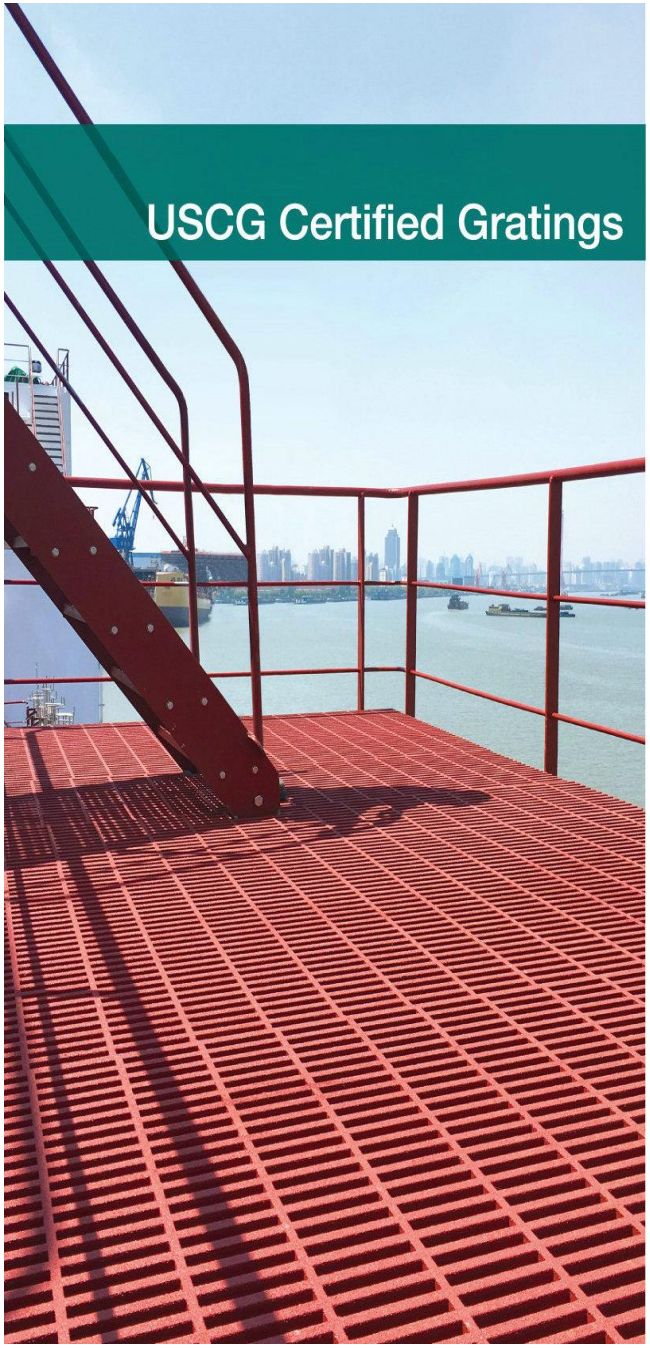
a. The above datas are from calculation by referring actual tests. There may be exist slight difference.

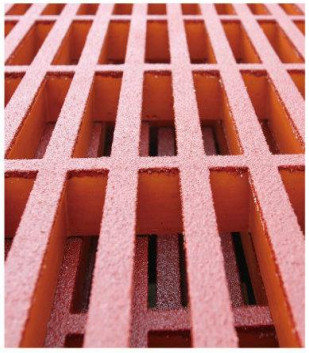
b. The systematic deviation affects more to short span tests. The values for short spans stated here may be deviated more from actual testing datas.

c. Due to material discreteness and systematic deviation, we assume ±20% deviation between theoretical datas and testing datas.

d. Please contact us if you need datas for conditions other than above.

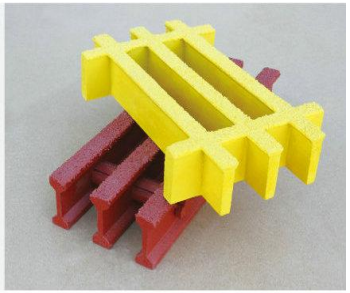






Description

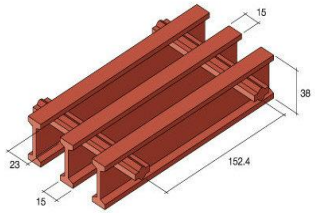
USCG certified gratings are the moulded or pultruded phenolic gratings approved by U.S. Coast Guard by passing L2 & L3 tests (L2 covers all requirements of L3) in accordance with ASTM-F3059. It is the top grating with high strength, low smoke developing index, low toxicity and sensational high temperature resistance, which are essential for applications where groups of people are likely to assemble such as temporary safe refuge or lifeboat embarkation areas.



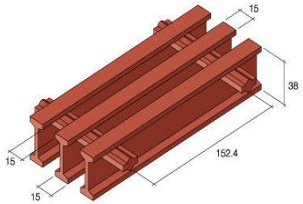
Size specification

Molding process	No.	Type	Open Aera	Height (mm)	Bar width (top/bottom mm)	Panel Size (mm)	Weight (kg/m²)
Pultruded	1	PHP6038	60%	38	15/15	-	15.2
	2	PHP5038	50%	38	15/15	-	18.7
	3	PHP4038	40%	38	15/15	-	22.3
Moulded	4	PHM-38	58%	38	Long side15/8, short side12/10	3660*1220	18.5

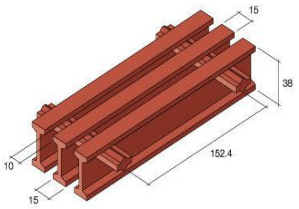
Specification drawing



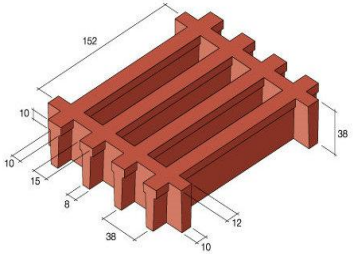
1 • Open Aera: 60% • Weight: 15.2 kg/m²



2 • Open Aera: 50% • Weight: 18.7 kg/m²



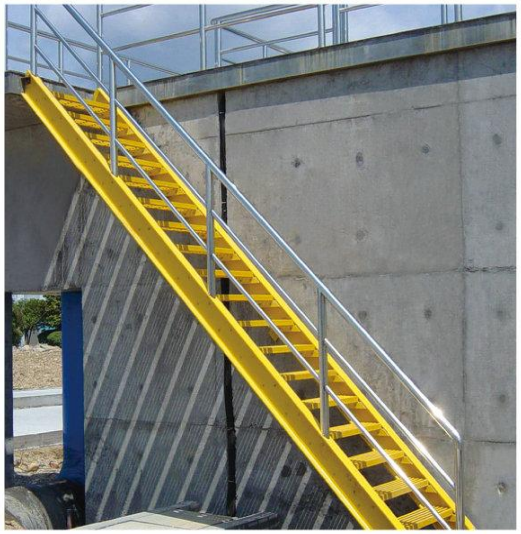
3 • Open Aera: 40% • Weight: 22.3 kg/m²



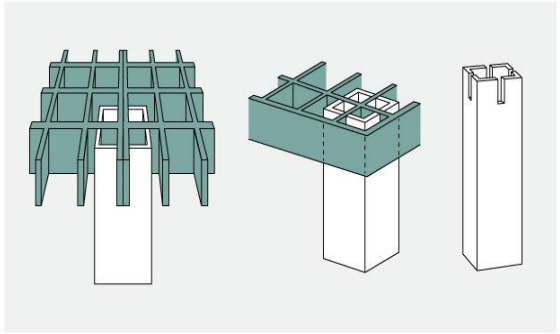
4 • Open Aera: 58% • Weight: 18.5 kg/m²

c. staircase installation

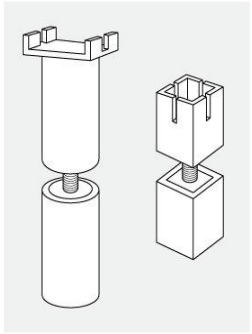
Grating steps should be installed within the frame; The two ends of steps can be fixed to frame by using FRP angles as connectors. At least 1 set of fastener recommended for each end of a step. A highlighted colour nosing recommended for easy recoganizing.



d. flooring installation



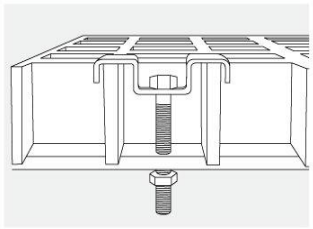
Mounting Base



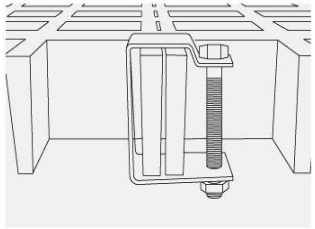
Adjustable Base

Remark: gratings are to be fixed tightly in case of moving.

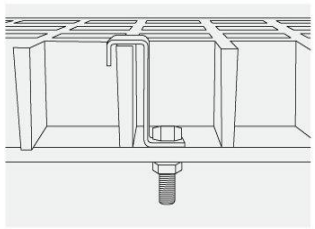
4. Fasteners



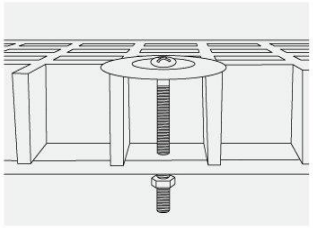
M type



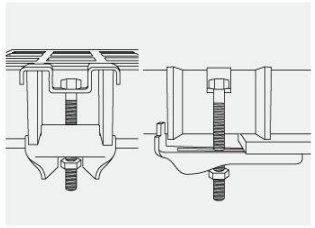
C type



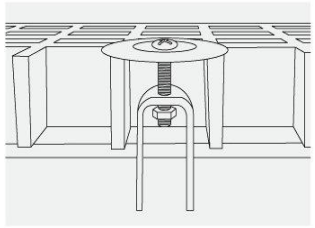
L type



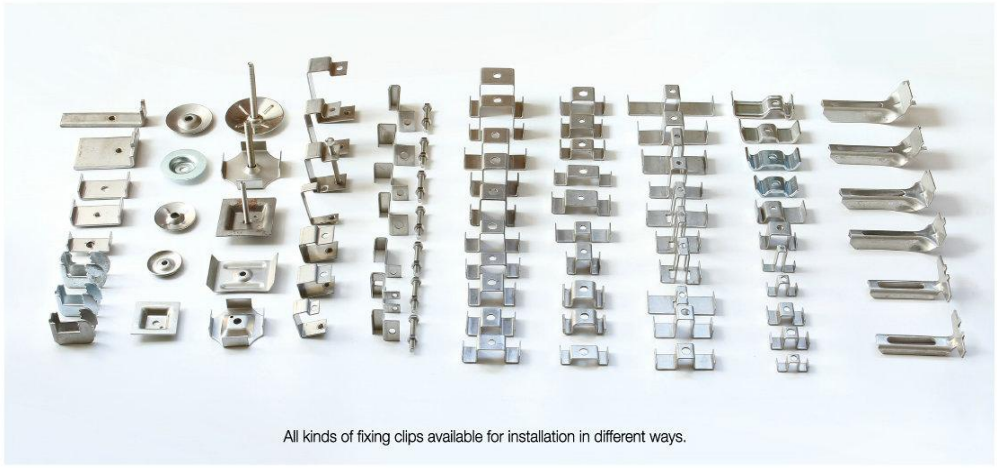
Round plate fixing



J type



G type



All kinds of fixing clips available for installation in different ways.

5. Maintainence

When the gratings get dirty, please clean with water flushing. Neutral detergent can be used if it is necessary; Please avoid high temperature, direct contact of flame or stiff/sharp tools scratch or impact. Please replace the gratings if it is structurally damaged or corroded.