



INTEGRATED SOLUTIONS FOR PROCUREMENT EXCELLENCE

STEEL GRATINGS

September 2013

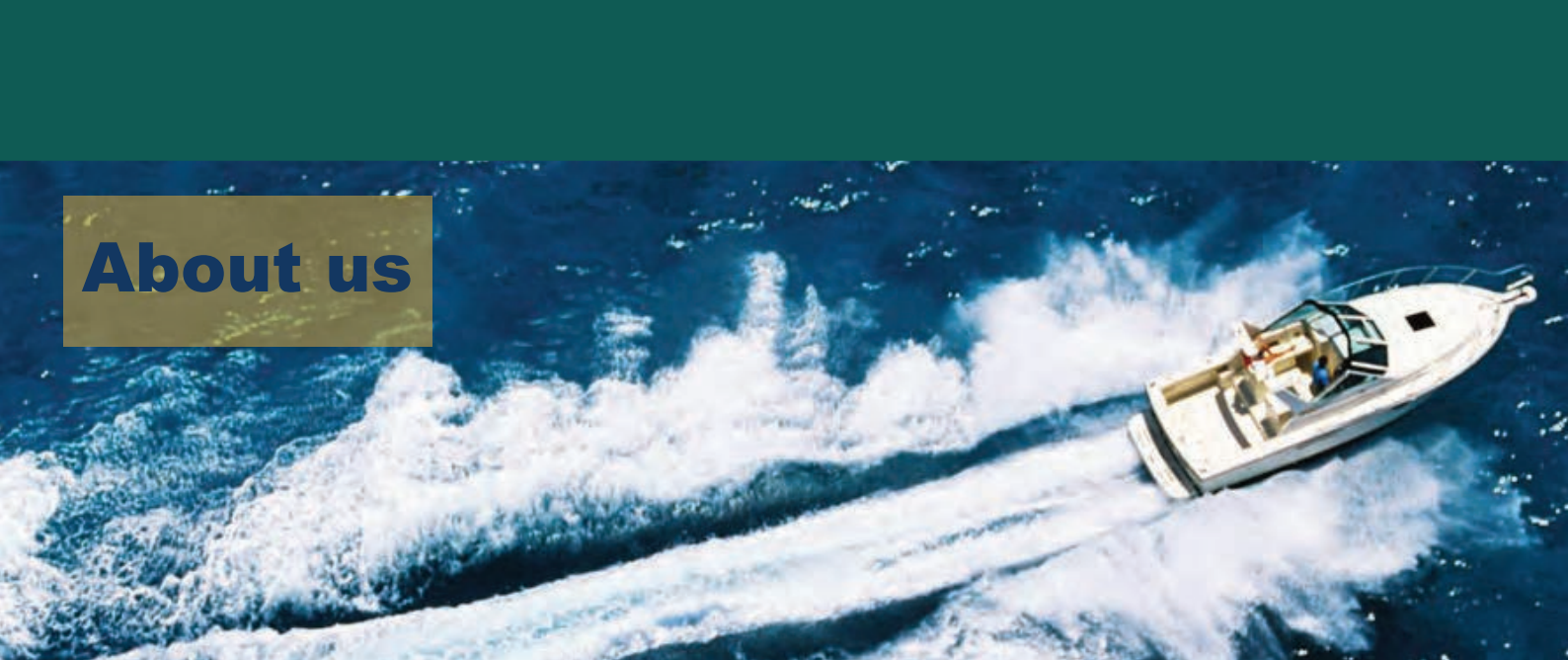
Product Details & Distribution



SUPERIOR QUALITY

COMPETITIVE PRICING

LARGE SELECTIONS FOR ALL USE



About us

About us

Continental Solution Int'l Ltd is a company based in China region that are specializing in supply chain solutions.

We focus on procurement & strategic sourcing, quality inspection service and logistic management service for our global clients. Understanding and knowing China in business side is one of our greatest advantages to serve you in every aspect of procurement process.

Continental Solution

Continental Solution is founded in 2008, our headquarter is located in Wuxi, Jiangsu Province. Over the year, we has built a reputation for providing quality and professional services to a wide range of clients in supplying and distributing products in various industries. Our expertises allow us to deliver rapid and measurable results for your business.

What We do

At Continental Solution, we are committed to providing quality services to our clients. To help meet our clients' needs, with extensive industry knowledge, focus and experience, we provide procurement and sourcing service, quality control & inspection, logistics management, and many more. With our streamlined service which covers every aspect of procurement process as we take care every thing for you before, during and after procurement.

Why Us

We distribute and supply products strictly follow client's requirement and quality standards, and take the great advantage of China manufacturing capability to improve your business margin and strength the business competitiveness. We are flexible to work with our clients on specified needs and requirements.



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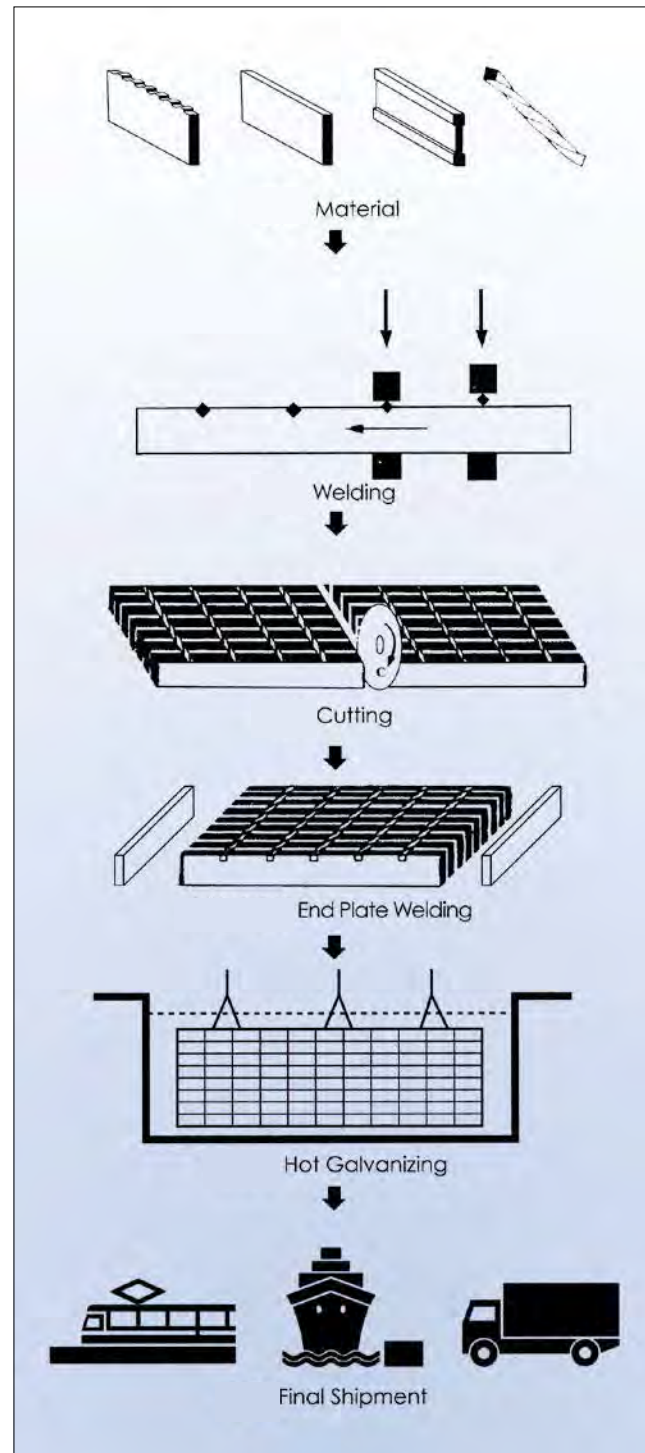
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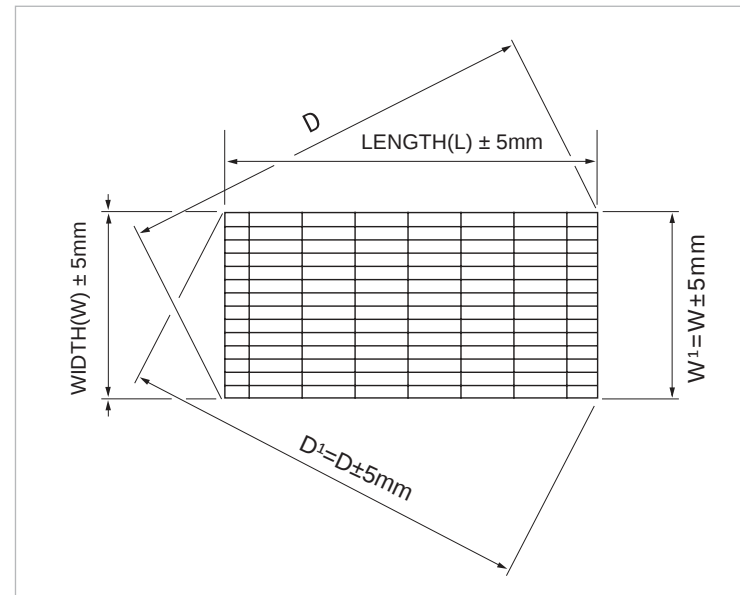
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Manufacturing Process

Made by the world first-class Italian equipment, which can arrange the bearing bar and cross bar in longitude and latitude order to certain distance. Cross bar is pressed into the bearing bar by high tension resistance welding which is controlled by computer. So we can produce high quality gratings with firm welding, smooth surface and high strength.



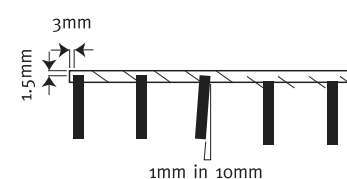
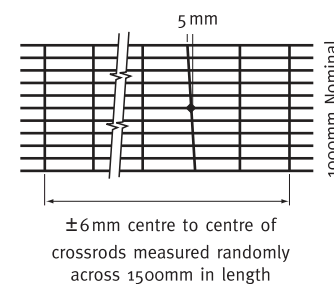
Size, Dimension and Tolerance



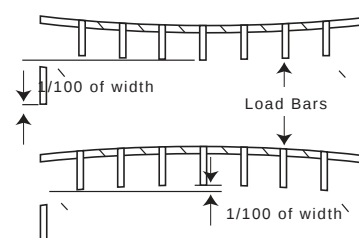
W and W¹ are overall lengths of cross bars at opposite ends of panel.

D and D¹ are overall diagonal dimensions

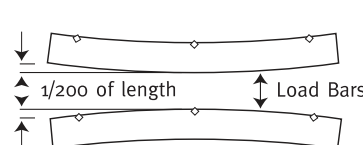
Cross Rod Alignment and Spacing Cross Bar Location and Bearing Bar



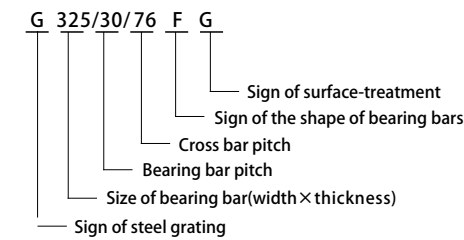
Transverse Bow



Longitudinal Bow

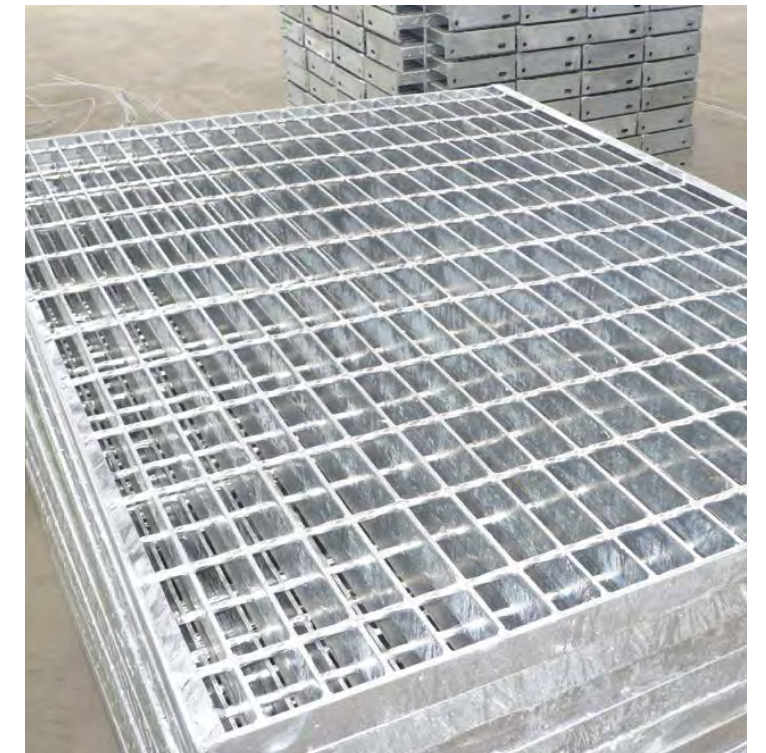


Symbol of Steel Grating



Note:

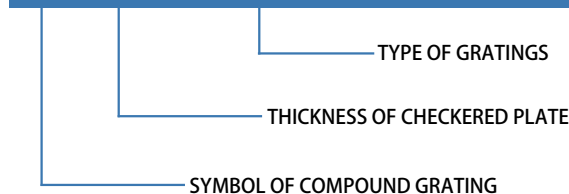
- Bearing bar pitches may be 15 to 22, 25, 30, 32.5, 34, 40, 50, 60, 80, 90mm, of which 25, 30, 34 and 40mm are recommended.
- Cross bar pitches may be 24-200mm, of which 50mm, 76mm and 100mm are recommended.
- Sign of the shape of bearing bars:
F-Plain style (may be omitted in the symbol of steel grating)
S-Serrated style
I-I-section style
- Sign of surface-treatment:
G-Hot galvanizing (may be omitted in the symbol of steel grating)
P-Painted
U-Untreated



Brand Compound Steel Grating

- Compound Grating is a product which combines grating of good horizontal bearing capacity with checkered plate.
- After being galvanized, the compound grating may be bend upwards, especially for large type grating. It is very difficult to rectify, so you should pay special attention while ordering.
- Compound Grating is normally made up the gratings with bearing bars of the pitch 30, and 40mm as base part and the checkered plate of the pitch 3mm, 4mm, 5mm and 6mm as cover. The most popular gratings as base parts are the types of G323/40/100, G253/30/100 and G323/60/100.

H F 3 (G 3 2 3 / 4 0 / 1 0 0)



Fields of Application

- ◆ Light chemical industry
- ◆ Petro-chemistry
- ◆ Machinery industry
- ◆ Textile chemistry
- ◆ Port engineering
- ◆ Oil and grease chemistry
- ◆ Agriculture husbandry
- ◆ Horticulture
- ◆ Steel industry
- ◆ Waste disposal
- ◆ Food processing
- ◆ Aquatic breeding
- ◆ Fertilizer industry
- ◆ Pharmaceutical industry
- ◆ Parking lot
- ◆ Cement plant

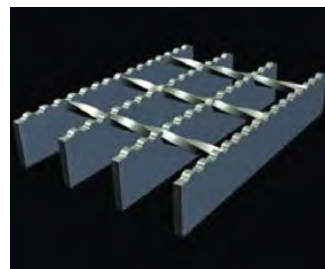
- ◆ Oil refinery
- ◆ Mining and refinery
- ◆ Power plant
- ◆ Public utilities
- ◆ Marine engineering
- ◆ Shipbuilding
- ◆ Construction material industry
- ◆ Defense project
- ◆ Airport project
- ◆ Water plant
- ◆ Sewage disposal
- ◆ Paper and pulp industry
- ◆ Construction industry
- ◆ Transportation industry
- ◆ Automotive industry

General Usage of Grating

- ◆ Flooring
- ◆ Catwalk
- ◆ Mezzanines/decking
- ◆ Stair tread
- ◆ Fencing
- ◆ Vault bin floor
- ◆ Ramp
- ◆ Dock

- ◆ Trench cover
- ◆ Window and machinery safe guards
- ◆ Wash rack
- ◆ Ventilation screen
- ◆ Storage rack
- ◆ Suspended ceiling
- ◆ Drainage pit cover

Type of Steel Grating

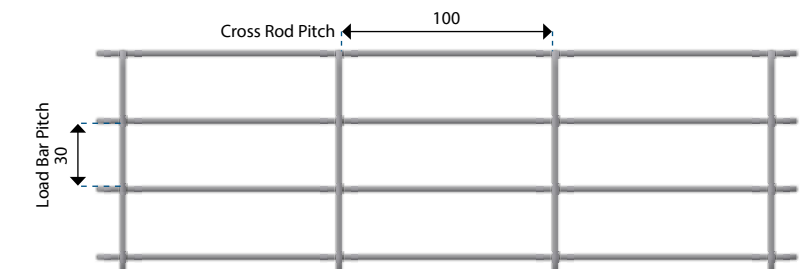


There are three kinds of steel gratings distinguished by different bearing bar types.
The respective of features are as follows:

1. Plain: One of the most widely used gratings, available for flooring sidewalk, drainage pit cover, stair tread, etc.
2. Serrated: Better non-skid property & safety compared with plain grating
3. I-shape: lighter, more economical and practical comparing with plain grating.
4. Serrated I-shape: anti-skid, can bear heavy duty.

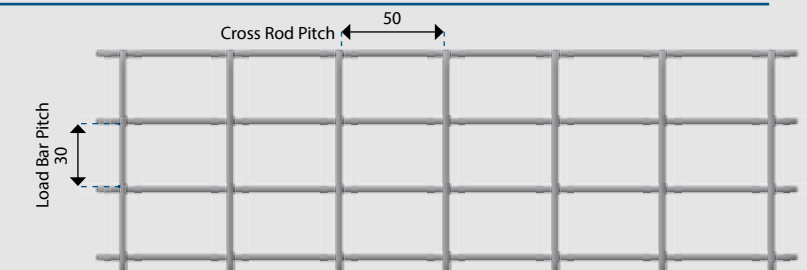
Steel Gratings Most-Popular Specifications

A
Supplied as 5800 x 995mm Panels as standard, unless other sizes or cut outs are specified.



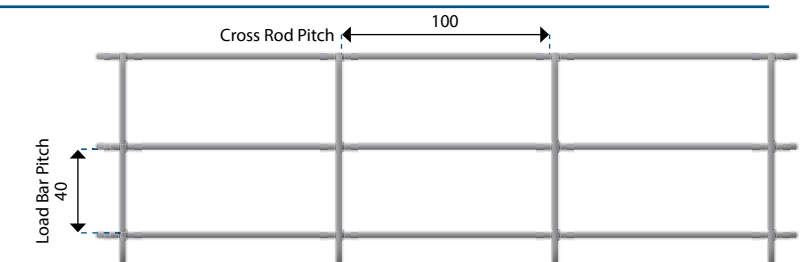
KGB Pattern

B
Supplied as 5800 x 995mm Panels as standard, unless other sizes or cut outs are specified.



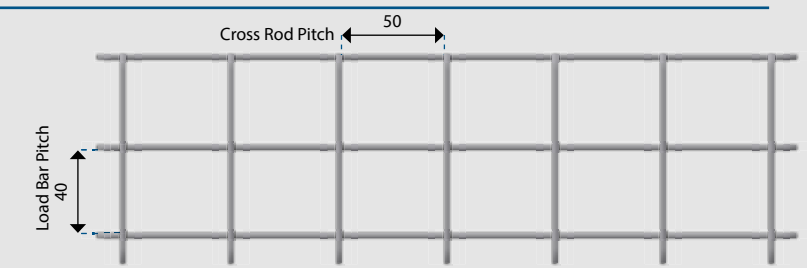
KGC Pattern

C
Supplied as 5800 x 1003mm TYP Panels as standard, unless other sizes or cut outs are specified.



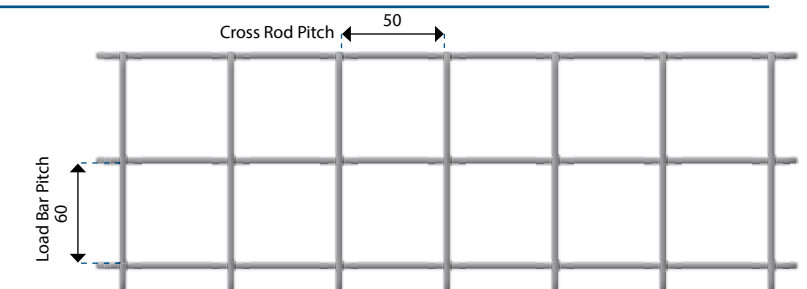
KGD Pattern

D
Supplied as 5800 x 1000mm Panels as standard, unless other sizes or cut outs are specified.



KGF Pattern

E
Supplied as 5800 x 970mm Panels as standard, unless other sizes or cut outs are specified.



Surface Process of Gratings

Hot Galvanizing

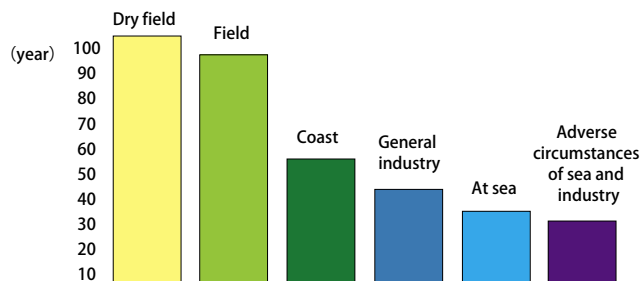
Normally, Hot galvanizing will be carried out after end welding process. When the thickness of bearing bars is not less than 5mm, the weight of average Zinc Layer will not be less than 610g/m². When the thickness of bearing bars is less than 5mm, the weight of average Zinc Layer will not be less than 460g/m². The quality and requirements after hot galvanizing are subject to the standards of GB/T 13912.

Lacquering

To gain protection layer through the ways of spraying, brushing and soaking.

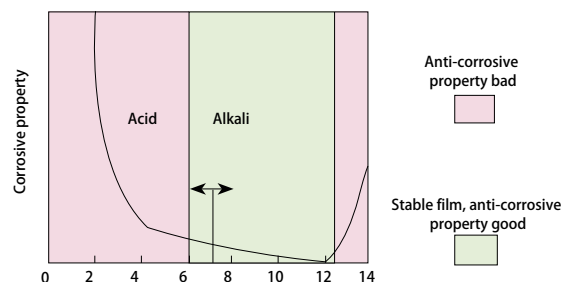
Service life of hot galvanizing

Coated zinc thickness 100um, the anticipated life of products in various circumstances.



Anti-acid and alkali corrosion capacity

The range of PH6 to PH12.5, a stable protective film will be formed on the zinc surface. It has good anti-corrosive property.



Design Requirements for Gratings

1. Select type of Gratings from “Safe Load and Deflection Table” according to your applications(Load Value and Span).

2. Design Requirements for platform

When you are designing the payload for platform, you should consider that the deflection will not be larger than 1/200 of its span, maximum 10mm. Except the above principle, you should meet the following stipulations:

- When the designed payload value times 1.5, there will be no permanent distortion for gratings.
- When the designed payload value times 3.0, there will be no breaking or cracking for gratings.

The design requirements shall be agreed by both parties when there is special demand for payload.

3. Design Requirements for Stair Steps

When you are designing the payload for stair steps, you should consider that the deflection from any central point of steps will not be larger than 1/200 of its span, maximum 6mm. Except the above principle, you should meet the following stipulations:

- When the designed payload value times 1.5, there will be no permanent distortion for steps.
- When the designed payload value times 3.0, there will be no breaking or cracking for steps.

4. Layout Design:

- Select the best fit plate width according to the nominal width table. In case of no best fit plate, select the corresponding nominal width value to the number of bearing bars.
- The bearing length of each end of bearing bar shall not be less than 25mm.
- Layout Space:10mm between gratings. 10mm between gratings and adjacent frames.
- The minimum width for platform gratings is 300mm.



Calculation of Weight and Area

1. The weight of gratings varies after end welded and hot galvanizing process. For normal industrial platform using 30mm pitch bearing bars, the weight will increase 12%; 14% for 40mm pitch bearing bars and 16% for 60mm pitch bearing bars.

2. For those gratings processed according to the size supplied by customer, calculation will be based on the actual area(including cutout and gap).

3. For those gratings processed according to customer drawing, calculation will be based on the total outside size (including cutout and gap).

4. For unusual size of gratings, cutouts shall not deduct from the length and width.

Relation Between Nominal Width of Panel and Number of Bearing Bars

Number of bearing bars	(mm) Nominal width		
	(30mm) Bearing bar centers	(40mm) Bearing bar centers	(60mm) Bearing bar centers
5	125	165	245
6	155	205	305
7	185	245	365
8	215	285	425
9	245	325	485
10	275	365	545
11	305	405	605
12	335	445	665
13	365	485	725
14	395	525	785
15	425	565	845
16	455	605	905
17	485	645	965
18	515	685	1025
19	545	725	1085
20	575	765	1145
21	605	805	
22	635	845	
23	665	885	
24	695	925	
25	725	965	
26	755	1005	
27	785	1045	
28	815	1085	
29	845	1125	
30	875	1165	
31	905		
32	935		
33	965		
34	995		
35	1025		
36	1055		
37	1085		
38	1115		
39	1145		
40	1175		

Note:
The widths in the table are calculated according to the bearing bar thickness of 5mm. When the bearing bar thickness of 3mm being used, the widths in the table should be reduced by 2mm. The actual widths would slightly vary owing to the tolerance of raw materials and processing.

Data notes for
● U=safe uniformly distributed load in KN/m²
● C=safe concentrated load in KN/m width at mid span
● D=deflection in mm
● Grating for spans to the left of the thick line in table have a deflection of less than 10mm or 1/200th of span for uniform load of 5.0KN/m². This is the maximum deflection to meet steel structure design standard.
● Grating self-weight is the weight before welding end plate, toe plate and surface treatment.

Table of safe load & general type of steel grating with bearing bar pitch at 30mm

Type	Width of bearing bar mm	Thickness of bearing bar mm	Nom Weight kg/m ²	Load and Deflection	mm Clear span														
					200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
G655/30/50W	65	5	103.4	U	3990	997	443	249	159	110	81	62	49	39	32	27	23	20	17
G655/30/100W			D	0.11	0.42	0.95	1.7	2.65	3.81	5.22	6.84	8.7	10.61	12.82	15.4	18.18	21.4	24.18	
			100.4	C	399	199	133	99	79	66	57	49	44	39	36	33	30	28	26
				D	0.08	0.34	0.76	1.35	2.11	3.06	4.21	5.43	6.98	8.54	10.56	12.65	14.75	17.33	19.97
G605/30/50W	60	5	95.9	U	3400	850	377	212	136	94	69	53	41	34	28	23	20	17	
G605/30/100W			D	0.11	0.46	1.03	1.84	2.89	4.15	5.66	7.45	9.28	11.78	14.28	16.73	20.16	23.33		
			92.9	C	340	170	113	85	68	56	48	42	37	34	30	28	26	24	
				D	0.09	0.37	0.83	1.48	2.31	3.3	4.52	5.93	7.84	9.49	11.23	13.71	16.31	18.98	
G555/30/50W	55	5	88.4	U	2856	714	317	178	114	79	58	44	35	28	23	19	16		
G555/30/100W			D	0.13	0.5	1.13	2	3.14	4.53	6.19	8.04	10.3	12.63	15.29	18.03	21.08			
			85.4	C	285	142	95	71	57	47	40	35	31	28	25	23	21		
				D	0.1	0.4	0.9	1.6	2.52	3.6	4.89	6.43	8.16	10.18	12.21	14.7	17.24		
G505/30/50W	50	5	80.9	U	2361	590	262	147	94	65	48	36	29	23	19	16			
G505/30/100W			D	0.14	0.55	1.24	2.2	3.45	4.97	6.82	8.78	11.39	13.86	16.88	20.28				
			77.9	C	236	118	78	59	47	39	33	29	26	23	21	19			
				D	0.11	0.44	0.99	1.77	2.77	3.99	5.39	7.11	9.14	11.18	13.7	16.26			
G503/30/50W	50	3	52.6	U	1416	354	157	88	56	39	28	22	17	14	11				
G503/30/100W			D	0.14	0.55	1.24	2.2	3.43	4.97	6.65	8.95	11.16	14.09	16.37					
			49.6	C	141	70	47	35	28	23	20	17	15	14	12				
				D	0.11	0.44	0.99	1.75	2.75	3.92	5.45	6.97	8.82	11.37	13.14				
G455/30/50W	45	5	73.4	U	1912	487	212	119	76	53	39	29	23	19	15				
G455/30/100W			D	0.15	0.61	1.38	2.45	3.83	5.56	7.62	9.73	12.44	15.76	18.39					
			70.4	C	191	95	63	47	38	31	27	23	21	19	17				
				D	0.12	0.49	1.09	1.94	3.07	4.35	6.06	7.76	10.16	12.72	15.31				
G405/30/50W	40	5	65.9	U	1511	377	167	94	60	41	30	23	18	15					
G405/30/100W			D	0.17	0.69	1.54	2.76	4.31	6.14	8.37	11.02	13.92	17.8						
			62.9	C	151	75	50	37	30	25	21	18	16	15					
				D	0.14	0.55	1.23	2.17	3.46	5.01	6.73	8.69	11.1	14.39					
G403/30/50W	40	3	43.3	U	906	226	100	56	36	25	18	14	11						
G403/30/100W			D	0.17	0.69	1.54	2.74	4.32	6.25	8.39	11.2	14.21							
			40.3	C	90	45	30	22	18	15	12	11	10						
				D	0.14	0.55	1.24	2.16	3.46	5.02	6.44	8.87	11.59						
G355/30/50W	35	5	58.4	U	1156	289	128	72	46	32	23	18	14						
G355/30/100W			D	0.2	0.79	1.77	3.16	4.94	7.17	9.61	12.92	16.24							
			55.4	C	115	57	38	28	23	19	16	14	12						
				D	0.16	0.62	1.4	2.46	3.97	5.7	7.69	10.14	12.52						
G353/30/50W	35	3	38.6	U	649	173	77	43	27	19	14	10							
G353/30/100W			D	0.2	0.79	1.77	3.14	4.84	7.11	9.77	12.03								
			35.6	C	69	34	23	17	13	11	9	8							
				D	0.16	0.62	1.41	2.49	3.75	5.52	7.25	9.71							
G325/30/50W	32	5	53.9	U	967	241	107	60	38	26	19	15	11						
G325/30/100W			D	0.22	0.86	1.94	3.44	5.35	7.64	10.42	14.13	16.81							
			50.9	C	96	48	32	24	19	16	13	12	10						
				D	0.17	0.68	1.55	2.76	4.3	6.3	8.21	11.4	13.73						
G323/30/50W	32	3	35.8	U	580	145	64	36	23	16	11	9							
G323/30/100W			D	0.21	0.86	1.93	3.45	5.41	7.85	10.09	14.19								
			32.8	C	58	29	19	14	11	9	8	7							
				D	0.17	0.69	1.53	2.69	4.16	5.93	8.44	11.15							
G255/30/50W	25	5	43.4	U	590	147	65	36	23	16	12								
G255/30/100W			D	0.28	1.1	2.47	4.35	6.82	9.92	13.9									
			40.4	C	59	29	19	14	11	9	8								
				D	0.22	0.87	1.93	3.39	5.25	7.5	10.71								
G253/30/50W	25	3	29.3	U	354	88	39	22	14	9									
G253/30/100W			D	0.28	1.01	2.47	4.43	6.94	9.35										
			26.3	C	35	17	11	8	7	5									
				D	0.22	0.85	1.86	3.24	5.58	7									
G205/30/50W	20	5	36	U	377	94	41	23	15	10									
G205/30/100W			D	0.34	1.37	3.05	5.44	8.73	12.21										
			33	C	37	18	12	9	7	6									
				D	0.27	1.05	2.39	4.28	6.57	9.85									
G203/30/50W	20	3	24.6	U	226	56	25	14	9										
G203/30/100W			D	0.34	1.37	3.1	5.53	8.76											
			21.6	C	22	11	7	5	4										
				D	0.27	1.07	2.32	3.98	6.3										

Table of safe load & general type of steel grating with bearing bar pitch at 60mm

Type	Bearing bar section mm	Cross bar pitch mm	Nom. weight kg/m ²	Serration factor		Load and Deflection	(mm) Clear span															
				Load	Deflection		150	300	450	600	750	900	1050	1200	1500	1800	2100	2400	2700	3000	3300	3600
G/655/60/50	65 × 5	50	53.9	0.92	1.04	U	3436.61	858.79	381.42	214.34	137.01	95.00	69.67	53.23	33.89	23.39	17.06	12.95	10.13	8.12	6.62	5.49
						D	0.06	0.24	0.55	0.99	1.54	2.22	3.03	3.96	6.18	8.91	12.12	15.84	20.04	24.75	29.94	35.64
						C	257.74	128.82	85.82	64.30	51.37	42.75	36.57	31.93	25.42	21.05	17.91	15.54	13.68	12.18	10.93	9.88
						D	0.04	0.19	0.44	0.79	1.23	1.78	2.43	3.18	5.01	7.30	10.12	13.56	17.73	22.97	28.94	36.42
G555/60/50	55 × 5	50	46.64	0.90	1.05	U	2460.46	614.80	273.02	153.39	98.02	67.94	49.81	38.04	24.20	16.68	12.14	9.20	7.18	5.74	4.67	3.86
						D	0.07	0.29	0.65	1.17	1.82	2.63	3.58	4.68	7.31	10.53	14.33	18.72	2.69	29.25	35.39	42.12
						C	184.53	92.22	61.43	46.01	36.76	30.57	26.15	22.82	18.15	15.01	12.75	11.04	9.70	8.61	7.71	6.95
						D	0.05	0.23	0.52	0.93	1.46	2.10	2.87	3.76	5.93	8.67	12.07	16.25	21.37	27.67	35.43	44.98
G505/60/50	50 × 5	50	42.9	0.89	1.06	U	2033.40	508.06	225.60	126.73	80.97	56.11	41.13	31.40	19.96	13.74	10.00	7.56	5.90	4.70	3.82	
						D	0.08	0.32	0.72	1.28	2.01	2.89	3.94	5.14	8.04	11.58	15.76	28.59	26.06	32.17	38.93	
						C	152.50	76.21	50.76	38.02	30.36	25.25	21.59	18.84	14.97	12.37	10.50	9.08	7.96	7.06	6.31	
						D	0.06	0.25	0.57	1.02	1.60	2.31	3.16	4.14	6.53	9.57	13.35	18.02	23.80	30.96	39.83	
G455/60/50	45 × 5	50	40	0.88	1.07	U	1647.01	411.49	182.69	102.61	65.54	45.41	33.27	25.39	16.12	11.09	8.06	6.09	4.73	3.77	3.05	
						D	0.08	0.35	0.80	1.43	2.23	3.21	4.37	5.72	8.93	12.87	17.51	22.88	28.95	35.75	43.25	
						C	123.52	61.72	41.10	30.78	24.58	20.43	17.46	15.23	12.09	9.98	8.46	7.30	6.39	5.66	5.04	
						D	0.07	0.28	0.64	1.14	1.78	2.57	3.51	4.60	7.28	10.68	14.94	20.26	26.89	35.18	45.56	
G405/60/50	40 × 5	50	35.53	0.87	1.07	U	1301.30	325.09	144.31	81.03	51.75	35.84	26.25	20.02	12.70	8.72	6.32	4.77	3.70	2.94		
						D	0.10	0.40	0.90	1.60	2.51	3.62	4.92	6.43	10.05	14.47	19.70	25.74	32.57	40.21		
						C	97.59	48.76	32.47	24.31	19.40	16.13	13.78	12.01	9.52	7.85	6.64	5.72	5.00	4.41		
						D	0.08	0.32	0.72	1.28	2.01	2.89	3.95	5.18	8.21	12.08	16.96	23.11	30.86	40.65		
G403/60/50	40 × 3	50	23.87	0.87	1.07	U	780.76	195.3	86.56	48.60	31.02	21.48	15.72	11.99	7.60	5.21	3.77	2.84	2.20	1.74		
						D	0.10	0.40	0.90	1.60	2.51	3.62	4.92	6.43	10.05	14.47	19.70	25.74	32.57	40.21		
						C	58.55	29.25	19.47	14.58	11.63	9.66	8.25	7.19	5.70	4.69	3.96	3.40	2.97	2.61		
						D	0.08	0.32	0.72	1.28	2.01	2.89	3.95	5.19	8.23	12.14	17.11	23.42	31.54	41.69		
G325/60/50	32 × 5	50	29.7	0.83	1.09	U	832.77	207.99	92.29	51.80	33.06	22.87	16.74	12.75	8.06	5.52	3.98	2.99	2.31			
						D	0.12	0.50	1.13	2.01	3.14	4.52	6.15	8.04	12.56	18.09	24.63	32.17	40.72			
						C	62.45	31.20	20.76	15.54	12.39	10.29	8.78	7.65	6.05	4.97	4.18	3.59	3.11			
						D	0.10	0.40	0.90	1.60	2.51	3.62	4.95	6.50	10.33	15.29	21.67	29.86	40.43			
G323/60/50	32 × 3	50	20.35	0.83	1.09	U	499.64	124.77	55.35	31.06	19.81	13.70	10.02	7.63	4.81	3.29	2.37	1.77	1.36			
						D	0.12	0.50	1.13	2.01	3.14	4.52	6.15	8.04	12.56	18.09	24.63	32.17	40.72			
						C	37.47	18.71	12.45	9.31	7.43	6.16	5.26	4.57	3.61	2.96	2.49	2.12	1.84			
						D	0.10	0.40	0.90	1.60	2.51	3.62	4.95	6.50	10.37	15.41	21.95	30.46	41.55			
G255/60/50	25 × 5	50	27.5	0.79	1.12	U	508.22	126.89	56.27	31.56	20.12	13.90	10.16	7.72	4.86	3.31	2.37	1.77				
						D	0.16	0.54	1.44	2.57	4.02	5.79	7.88	10.29	16.08	23.16	31.55	41.18				
						C	38.11	19.03	12.66	9.46	7.54	6.25	5.33	4.63	3.65	2.98	2.49	2.12				
						D	0.12	0.51	1.56	2.05	3.21	4.64	6.34	8.34	13.34	19.95	28.65	40.11				
G253/60/50	25 × 3	50	17.27	0.79	1.12	U	304.91	76.15	33.74	18.91	12.05	8.32	6.07	4.61	2.89	1.96	1.40	1.04				
						D	0.16	0.64	1.44	2.57	4.02	5.79	7.88	10.29	16.08	23.16	31.53	41.18				
						C	22.86	11.41	7.59	5.67	4.51	3.74	3.18	2.76	2.17	1.77	1.47	1.24				
						D	0.12	0.51	1.15	2.05	3.21	4.64	6.35	8.36	13.43	20.19	29.22	41.35				
G205/60/50	20 × 5	50	21	Not recom- mended	U	325.22	81.16	35.97	20.15	12.83	8.85	6.45	4.90	3.07	2.07	1.47						
					D	0.20	0.80	1.81	3.21	5.02	7.23	9.85	12.87	20.10	28.95	39.41						
					C	24.39	12.17	8.09	6.04	4.81	3.98	3.39	2.94	2.30	1.86	1.55						
					D	0.16	0.64	1.44	2.56	4.01	5.80	7.95	10.48	16.87	25.51	37.17						

Table of safe load & general type of steel grating with I–bar pitch at 30mm

Type	Width of steel bar mm	Thickness of Flange mm	Thickness of Flank mm	Width of Flange mm	Nom Weight kg/m ²	Load and Deflection	mm Clear span														
							200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
G757/30/50WI	75	7	4	12	126.1	U	6460	1615	717	403	258	179	131	100	79	64	53	44	38	32	28
					D	0.09	0.37	0.83	1.47	2.3	3.31	4.5	5.88	7.47	9.25	11.26	13.3	15.89	18.11	20.99	
G757/30/100WI					120.7	C	646	323	215	161	129	107	92	80	71	64	58	53	49	46	43
					D	0.07	0.29	0.66	1.17	1.84	2.65	3.62	4.72	5.99	7.44	9.02	10.76	12.72	15	17.36	
G657/30/50WI	65	7	4	10	110.1	U	4862	1215	540	303	194	135	99	75	60	48	40	33	28	24	21
					D	0.11	0.42	0.95	1.69	2.65	3.83	5.22	6.77	8.71	10.67	13.07	15.36	18.05	20.94	24.29	
G657/30/100WI					104.8	C	486	243	162	121	97	81	69	60	54	48	44	40	37	34	32
					D	0.08	0.34	0.76	1.35	2.12	3.07	4.17	5.44	7	8.58	10.53	12.5	14.8	17.12	19.96	
G607/30/50WI	60	7	4	10	99.1	U	4216	1054	468	263	168	117	86	65	52	42	34	29	24	21	18
					D	0.11	0.46	1.03	1.83	2.86	4.13	5.65	7.31	9.4	11.62	13.85	16.81	19.29	22.82	25.97	
G607/30/100WI					96.1	C	421	210	140	105	84	70	60	52	46	42	38	35	32	30	28
					D	0.09	0.36	0.82	1.46	2.29	3.3	4.52	5.87	7.43	9.35	11.33	13.63	15.96	18.82	21.77	
G557/30/50WI	55	7	4	8.5	90.3	U	3502	875	389	218	140	97	71	54	43	35	28	24	20	17	
					D	0.13	0.5	1.13	2	3.15	4.53	6.17	8.03	10.29	12.82	15.11	18.44	21.32	24.55		
G557/30/100WI					87.3	C	350	175	116	87	70	58	50	43	38	35	31	29	26	25	
					D	0.1	0.4	0.9	1.6	2.52	3.62	4.98	6.42	8.13	10.32	12.26	14.98	17.23	20.83		
G507/30/50WI	50	7	4	8	83.2	U	2912	728	323	182	116	80	59	45	35	29	24	20	17		
					D	0.14	0.55	1.24	2.21	3.44	4.94	6.78	8.85	11.09	14.07	17.14	30.37	24.01			
G507/30/100WI					80.2	C	291	145	97	72	58	48	41	36	32	29	26	24	22		
					D	0.11	0.44	0.99	1.75	2.76	3.96	5.4	7.12	9.06	11.33	13.63	16.45	19.34			
G505/30/50WI	50	5	3	8.5	62.8	U	2085	521	231	130	83	57	42	32	25	20	17	14			
					D	0.14	0.55	1.23	2.2	3.44	4.91	6.73	8.79	11.06	13.57	16.97	19.95				
G505/30/100WI					59.8	C	208	104	69	52	41	34	29	26	23	20	18	17			
					D	0.11	0.44	0.98	1.76	2.72	3.92	5.33	7.17	9.09	10.94	13.21	16.31				
G445/30/50WI	44	5	3	8	56.5	U	1654	413	183	103	66	45	33	25	20	16	13				
					D	0.16	0.62	1.4	2.5	3.92	5.56	7.59	9.86	12.71	15.6	18.7					
G445/30/100WI					53.5	C	165	82	55	41	33	27	23	20	18	16	15				
					D	0.12	0.5	1.12	1.99	3.14	4.46	6.07	7.93	10.23	12.58	15.81					
G385/30/50WI	38	5	3	7	49.9	U	1246	311	138	77	49	34	25	19	15	12					
					D	0.18	0.73	1.64	2.89	4.51	6.52	8.93	11.64	14.82	18.22						
G385/30/100WI					46.9	C	124	62	41	31	24	20	17	15	13	12					
					D	0.14	0.58	1.3	2.33	3.55	5.13	6.98	9.25	11.53	14.72						
G325/30/50WI	32	5	3	6	43.3	U	884	221	98	55	35	24	18	13	10						
					D	0.21	0.86	1.94	3.44	5.37	7.68	10.74	13.35	16.6							
G325/30/100WI					40.3	C	88	44	29	22	17	14	12	11	9						
					D	0.17	0.69	1.53	2.76	4.19	6.01	8.24	11.36	13.42							
G255/30/50WI	25	5	3	4.5	35.1	U	544	136	60	34	21	15	11								
					D	0.28	1.1	2.47	4.45	6.75	10.06	13.77									
G255/30/100WI					32.1	C	54	27	18	13	10	9	7								
					D	0.22	0.88	1.98	3.41	5.17	8.09	10.13									

Table of safe load & general type of steel grating with I–bar pitch at 40mm

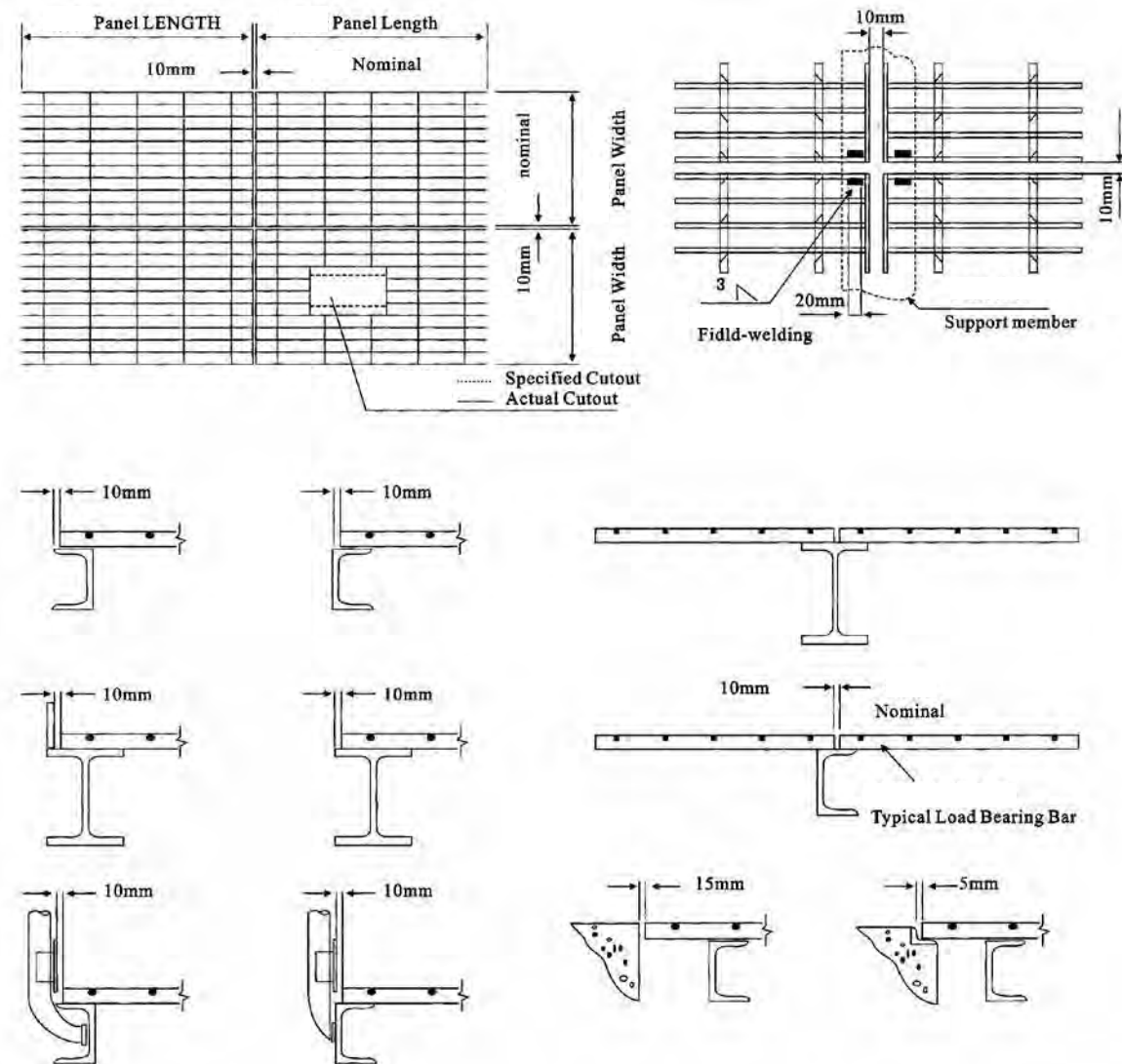
Type	Width of steel bar mm	Thickness of Flange mm	Thickness of Flank mm	Width of Flange mm	Nom Weight kg/m	Load and Deflection	mm Clear span															
							200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
G757/40/50WI	75	7	4	12	101	U	4845	1211	538	302	193	134	98	75	75	59	48	40	33	28	24	
D						0.09	0.37	0.83	1.47	2.29	3.31	4.49	5.89	5.89	7.44	9.27	11.35	13.33	15.66	18.16		
G757/40/100WI					96.6	C	484	242	161	121	96	80	69	60	60	53	48	44	40	37	34	
D						0.07	0.29	0.66	1.18	1.83	2.64	3.63	4.72	4.72	5.97	7.45	9.13	10.85	12.83	14.83		
G657/40/50WI	65	7	4	10	88.5	U	3646	911	405	227	145	101	74	56	56	45	36	30	25	21	18	
D						0.11	0.42	0.95	1.69	2.64	3.83	5.21	6.75	6.75	8.72	10.68	13.1	15.54	18.1	21		
G657/40/100WI					83.2	C	364	182	121	91	72	60	52	45	45	40	36	33	30	28	26	
D						0.08	0.34	0.76	1.36	2.1	3.04	4.2	5.44	5.44	6.92	8.6	10.55	12.54	14.98	17.5		
G607/40/50WI	60	7	4	10	78.9	U	3162	790	351	197	126	87	64	49	49	39	31	26	21	18	16	
D						0.11	0.46	1.03	1.83	2.86	4.1	5.61	7.35	7.35	9.41	11.46	14.13	16.28	19.33	23.33		
G607/40/100WI					75.9	C	316	158	105	79	63	52	45	39	39	35	31	28	26	24	22	
D						0.09	0.37	0.82	1.47	2.29	3.28	4.52	5.87	5.87	7.54	9.22	11.16	13.54	16	18.48		
G557/40/50WI	55	7	4	8.5	71.9	U	2626	656	291	164	105	72	53	41	41	32	26	21	18	15		
D						0.13	0.5	1.13	2.01	3.15	4.49	6.14	8.14	8.14	10.22	12.72	15.14	18.48	21.37			
G557/40/100WI					68.9	C	262	131	87	65	52	43	37	32	32	29	26	23	21	20		
D						0.1	0.4	0.9	1.59	2.5	3.58	4.92	6.38	6.38	8.28	10.25	12.16	14.53	17.71			
G507/40/50WI	50	7	4	8	66.4	U	2184	546	242	136	87	60	44	34	34	26	21	18	15			
D						0.14	0.55	1.24	2.2	3.45	4.95	6.74	8.93	8.93	11	13.62	17.18	20.42				
G507/40/100WI					63.4	C	218	109	72	54	43	36	31	27	27	24	21	19	18			
D						0.11	0.44	0.98	1.75	2.73	3.97	5.45	7.13	7.13	9.07	10.98	13.33	16.5				
G505/40/50WI	50	5	3	8.5	50.4	U	1564	391	173	97	62	43	31	24	24	19	15	12				
D						0.14	0.55	1.23	2.19	3.43	4.95	6.64	8.8	8.8	11.22	13.6	16.05					
G505/40/100WI					47.4	C	156	78	52	39	31	26	22	19	19	17	15	14				
D						0.11	0.44	0.99	1.76	2.75	4	5.4	7.01	7.01	8.98	10.96	13.72					
G445/40/50WI	44	5	3	8	45.5	U	1241	310	137	77	49	34	25	19	19	15	12					
D						0.16	0.62	1.4	2.49	3.88	5.61	7.68	10.01	10.01	12.73	15.64						
G445/40/100WI					42.5	C	124	62	41	31	24	20	17	15	15	13	12					
D						0.12	0.5	1.12	2.01	3.05	4.41	5.99	7.95	7.95	9.89	12.62						
G385/40/50WI	38	5	3	7	40.3	U	935	233	103	58	37	25	19	14	14	11						
D						0.18	0.73	1.63	2.91	4.55	6.4	9.06	11.47	11.47	14.54							
G385/40/100WI					37.3	C	93	46	31	23	18	15	13	11	11	10						
D						0.14	0.57	1.31	2.31	3.55	5.14	7.12	9.08	9.08	11.85							
G325/40/50WI	32	5	3	6	35.1	U	663	165	73	41	26	18	13	10	10							
D						0.21	0.86	1.92	3.43	5.33	7.69	10.37	13.71	13.71								
G325/40/100WI					32.1	C	66	33	22	16	13	11	9	8	8							
D						0.17	0.69	1.55	2.68	4.28	6.3	8.26	11.06	11.06								
G255/40/50WI	25	5	3	4.5	28.7	U	408	102	45	25	16	11	8									
D						0.28	1.1	2.47	4.36	6.86	9.86	13.41										
G255/40/100WI					25.8	C	40	20	13	10	8	6	5									
D						0.22	0.87	1.91	3.5	5.51	7.24	9.71										

The general type of Heavy Duty steel grating & safe load

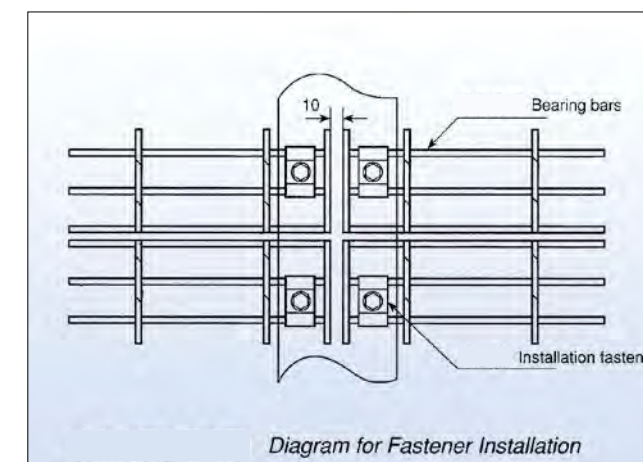
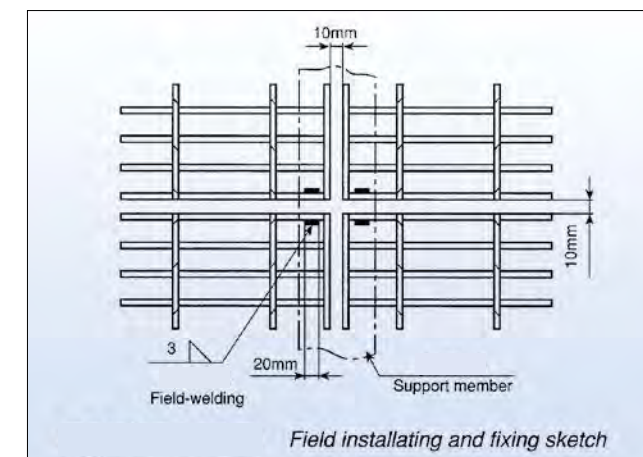
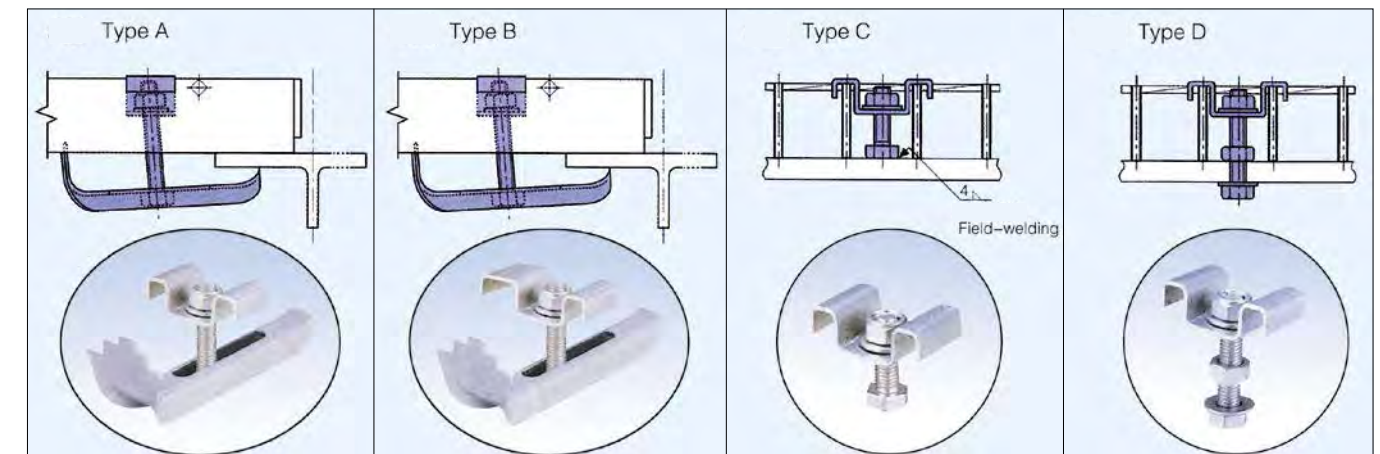
Type	Width of bearing bar mm	Thickness of bearing bar mm	Cross bar size mm	Nom Weight kg/m ²	Load and Deflection	mm Clear span														
						200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
G1508/40/100W	150	8	8 × 8	284.9	U	25500	6375	2833	1593	1020	708	520	398	314	255	210	177	150	130	113
					D	0.05	0.18	0.41	0.73	1.15	1.66	2.26	2.95	3.74	4.63	5.6	6.7	7.85	9.17	10.54
					C	2550	1275	850	637	510	425	364	318	283	255	231	212	196	182	170
					D	0.04	0.15	0.33	0.59	0.92	1.33	1.81	2.36	3	3.72	4.5	5.37	6.34	7.38	8.51
G1308/40/100W	130	8	8 × 8	247.6	U	19153	4788	2128	1197	766	532	390	299	236	191	458	133	113	97	85
					D	0.05	0.21	0.48	0.85	1.33	1.91	2.6	3.41	4.32	5.34	6.49	7.76	9.11	10.55	12.22
					C	1915	957	638	478	383	319	273	239	212	191	174	159	147	136	127
					D	0.04	0.17	0.38	0.68	1.06	1.53	2.09	2.73	3.46	4.29	5.22	6.21	7.33	8.5	9.81
G1208/40/100W	120	8	8 × 8	229	U	16320	4080	1813	1020	653	453	333	255	201	163	134	113	96	83	72
					D	0.06	0.23	0.52	0.92	1.44	2.07	2.83	3.7	4.68	5.8	7	8.39	9.85	11.5	13.2
					C	1632	816	544	408	326	272	233	204	181	163	148	136	125	116	108
					D	0.05	0.18	0.41	0.74	1.15	1.66	2.26	2.97	3.76	4.66	5.65	6.77	7.94	9.24	10.64
G1008/40/100W	100	8	8 × 8	191.7	U	11333	2833	1259	708	453	314	231	177	139	113	93	78	67	57	50
					D	0.07	0.28	0.62	1.1	1.73	2.48	3.39	4.45	5.61	6.97	8.43	10.05	11.94	13.73	15.94
					C	1133	566	377	283	226	188	161	141	125	113	103	94	87	80	75
					D	0.06	0.22	0.5	0.88	1.38	1.99	2.71	3.55	4.5	5.6	6.82	8.12	9.6	11.09	12.86
G908/40/100W	90	8	8 × 8	173.1	U	9180	2295	1020	573	367	255	187	143	113	91	75	63	54	46	40
					D	0.08	0.31	0.69	1.22	1.92	2.77	3.77	4.93	6.26	7.72	9.35	11.17	13.24	15.25	17.57
					C	918	459	306	229	183	153	131	114	102	91	83	76	70	65	61
					D	0.06	0.24	0.55	0.98	1.53	2.22	3.03	3.94	5.04	6.2	7.56	9.04	10.64	12.42	14.42
G808/40/100W	80	8	8 × 8	154.4	U	7253	1813	805	453	290	201	148	113	89	72	59	50	42	37	32
					D	0.09	0.34	0.77	1.38	2.16	3.11	4.25	5.56	7.04	8.71	10.5	12.66	14.73	17.53	20.11
					C	725	362	241	181	145	120	103	90	80	72	65	60	55	51	48
					D	0.07	0.27	0.62	1.1	1.73	2.48	3.39	4.44	5.65	7.01	8.47	10.2	11.97	13.96	16.27
G758/40/100W	75	8	8 × 8	145.1	U	6375	1593	708	398	255	177	130	99	78	63	52	44	37	32	28
					D	0.09	0.37	0.83	1.47	2.31	3.33	4.54	5.92	7.5	9.27	11.25	13.55	15.78	18.47	21.42
					C	637	318	212	159	127	106	91	79	70	63	57	53	49	45	42
					D	0.07	0.29	0.66	1.18	1.84	2.66	3.64	4.74	6.01	7.45	9.03	10.96	12.97	14.99	17.35
G756/30/100W	75	6	8 × 8	140.1	U	6375	1593	708	398	255	177	130	99	78	63	52	44	37	32	28
					D	0.09	0.37	0.83	1.47	2.3	3.33	4.54	5.91	7.49	9.26	11.24	13.53	15.76	18.44	21.39
					C	637	318	212	159	127	106	91	79	70	63	57	53	49	45	42
					D	0.07	0.29	0.66	1.18	1.84	2.66	3.64	4.74	6	7.45	9.02	10.95	12.95	14.97	17.31
G756/40/100W	75	6	8 × 8	110.1	U	4781	1195	531	298	191	132	97	74	59	47	39	33	28	24	21
					D	0.09	0.37	0.83	1.47	2.3	3.31	4.52	5.9	7.56	9.22	11.25	13.55	15.93	18.48	21.44
					C	478	239	159	119	95	79	68	59	53	47	43	39	36	34	31
					D	0.07	0.29	0.66	1.17	1.83	2.64	3.63	4.72	6.06	7.42	9.08	10.77	12.73	15.11	17.1
G706/30/100W	70	6	8 × 8	131.1	U	5553	1388	617	347	222	154	113	86	68	55	45	38	32	28	24
					D	0.1	0.39	0.89	1.58	2.47	3.56	4.85	6.32	8.04	9.96	11.99	14.41	16.82	19.9	22.65
					C	555	277	185	138	111	92	79	69	61	55	50	46	42	39	37
					D	0.08	0.31	0.71	1.26	1.98	2.84	3.89	5.09	6.44	8.01	9.75	11.72	13.71	16.02	18.82
G706/40/100W	70	6	8 × 8	103.2	U	4165	1041	462	260	166	115	85	65	51	41	34	28	24	21	18
					D	0.1	0.39	0.88	1.58	2.46	3.55	4.87	6.38	8.05	9.91	12.09	14.19	16.85	19.95	22.7
					C	416	208	138	104	83	69	59	52	46	41	37	34	32	29	27
					D	0.08	0.31	0.71	1.26	1.97	2.84	3.88	5.12	6.48	7.98	9.64	11.58	13.95	15.93	18.4

Installation of Steel Grating

1. Welding & using saddle clips are two ways for installation of grating. The welding is suitable for those places where there is no need to move or dismantling, for instance, the flooring around the machines. However, using saddle clips are featuring in easy installation & saving zinc layer.
2. Regarding welding installation, angle welding would be used at the first bearing bar of every corner, which the welding length is no less than 20mm, & the height is no less than 3mm.
3. Saddle clip composed of a top plate, a hold down & a M8 bolt, is suitable for all kinds of steel gratings installation.
4. Regarding saddle clip installation, at least four sets of saddle clips would be used in one pc grating. It would be better using more in the saddle for those gratings with a bigger span.



Installation Fastener



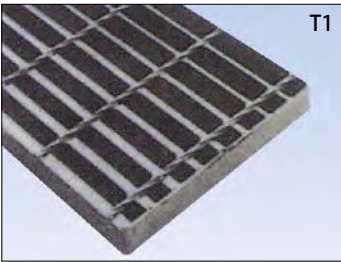
Stairway Series

Stairway series cover a range of footstep from 30° to 90°. There is a management and production standards to make the stairways from raw materials, type and height of footsteps, specifications and banisters, etc.(refer to table). Furthermore, products could be made according to customer’ s requirements and conditions on site.

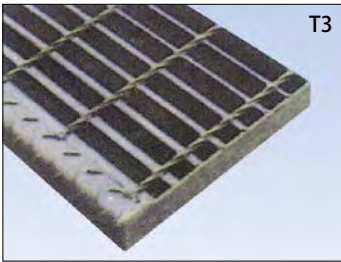


kinds	Angle	Type	Width of ladder		Stairtread height	Stairtread		Materials	Limited height	Notes
			Stairtread length	General width		Specifications	Style			
Stair	30°	TT30-10	1000	1140	160	G325/30/100-305 × 1000	T1	[18	5m	1. 45°steel ladder is recommended, handrail and column reserved. 2. Choose freely from T1 to T6. 3. Set platforms and set ladders by stages if is more than 5m. 4. Handrails with the ball-type column or square. 5. Column pitch is not more than 1.2m.
		TT30-09	900	1040	160	G325/30/100-305 × 900				
	35°	TT35-10	1000	1140	175	G325/30/100-305 × 1000				
		TT35-09	900	1040	175	G325/30/100-305 × 900				
	40°	TT40-10	1000	1130	185	G325/30/100-275 × 1000	T2	[16		
		TT40-09	900	1030	185	G325/30/100-275 × 900				
	45°	TT45-10	1000	1130	200	G325/30/100-245 × 1000				
		TT45-09	900	1030	200	G325/30/100-245 × 900				
		TT45-08	800	930	200	G255/30/100-245 × 800				
		TT45-07	700	830	200	G255/30/100-245 × 700				
Leaning ladder	50°	TT50-10	1000	1130	210	G325/30/100-215 × 1000	T3	[16	5m	1. Set platforms and set ladders by stages if is more than 5m 2. Handrails and ladders will be welded with 1" pipe or use special column. 3. Column pitch is not more than 1m. 4. T1 to T6. can be chose freely.
		TT50-09	900	1030	210	G325/30/100-215 × 900				
		TT50-08	800	930	210	G255/30/100-215 × 800	T4			
		TT50-07	700	830	210	G255/30/100-215 × 700				
		TT50-06	600	730	210	G255/30/100-215 × 600				
		55°	TT50-08	800	916	225				
	TT50-07		700	816	225	G255/30/100-185 × 700				
	60°	TT60-08	800	916	235	G255/30/100-185 × 800	T5			
		TT60-07	700	816	235	G255/30/100-185 × 700				
		TT65-07	700	816	245	G255/30/100-155 × 700				
TT65-06		600	716	245	G255/30/100-155 × 600					
Seizing ladder	70°	TT70-06	600	706	255	G255/30/100-125 × 600	T6	[12	5m	
	75°	TT75-06	600	706	265	G255/30/100-125 × 600				
Straight ladder	80°	TT80-05	500	596	300	1 " Pipe	T6	1 1/2"	9m	1. If it is over 3m should set safetybelt
	85°	TT85-04	400	485	300	3/4 " Pipe		1 1/4"	4.5m	
	90°	TT90-04	400	485	300	3/4 " Pipe		1 1/4"	9m	

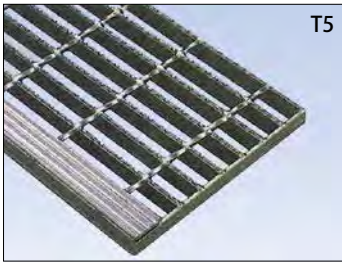
Stairtread



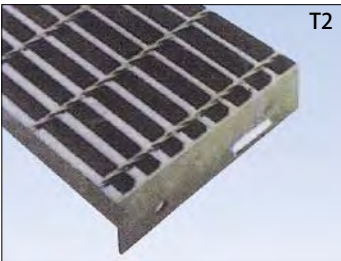
Welded fixing Without nosing



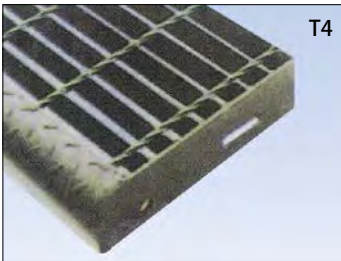
Welded fixing Checkered plate nosing



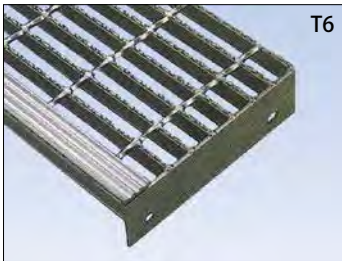
Welded fixing Bar steel nosing



Bolted fixing Without nosing



Bolted fixing Checkered plate nosing



Bolted fixing Bar steel nosing

Note:Serrated stairtread can also be made according to customers requirements.

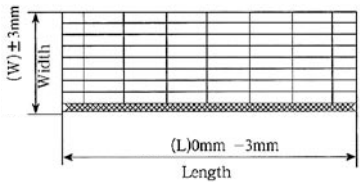
Stairtread data type

(mm)	Recommended Width						
T1-T6	125	155	185	215	245	275	305
30mm Bearing bars at 30mm pitch							
T1-T2 T5-T6	125	165	---	205	245	285	325
40mm Bearing bars at 40mm pitch							
T3-T4	115	155	---	195	235	275	315
40mm Bearing bars at 40mm pitch							
T1-T2 T5-T6	---	---	185	---	245	---	305
60mm Bearing bars at 60mm pitch							
T3-T4	---	155	---	215	---	275	---
60mm Bearing bars at 60mm pitch							
Spacing	45	75	75	100	100	150	150

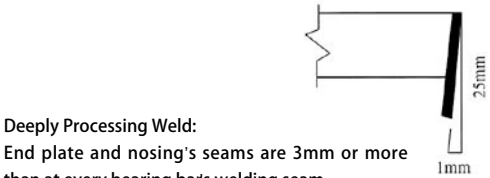
(mm)	Maximum Length			
Bearing bar	25 × 3	25 × 5	32 × 5	40 × 5
Bearing bars at 30mm pitch	550	900	1300	1600
Bearing bars at 40mm pitch	450	750	1200	1500
Bearing bars at 40mm pitch	---	550	850	1350

Notes: Stairtread may be made of any types of grating, the size may be up to non-standard specification.

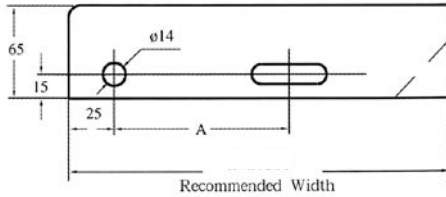
Stairtread tolerance



Notes:Length is the distance of both outside welding end plate.



Deeply Processing Weld:
End plate and nosing's seams are 3mm or more than at every bearing bar's welding seam.



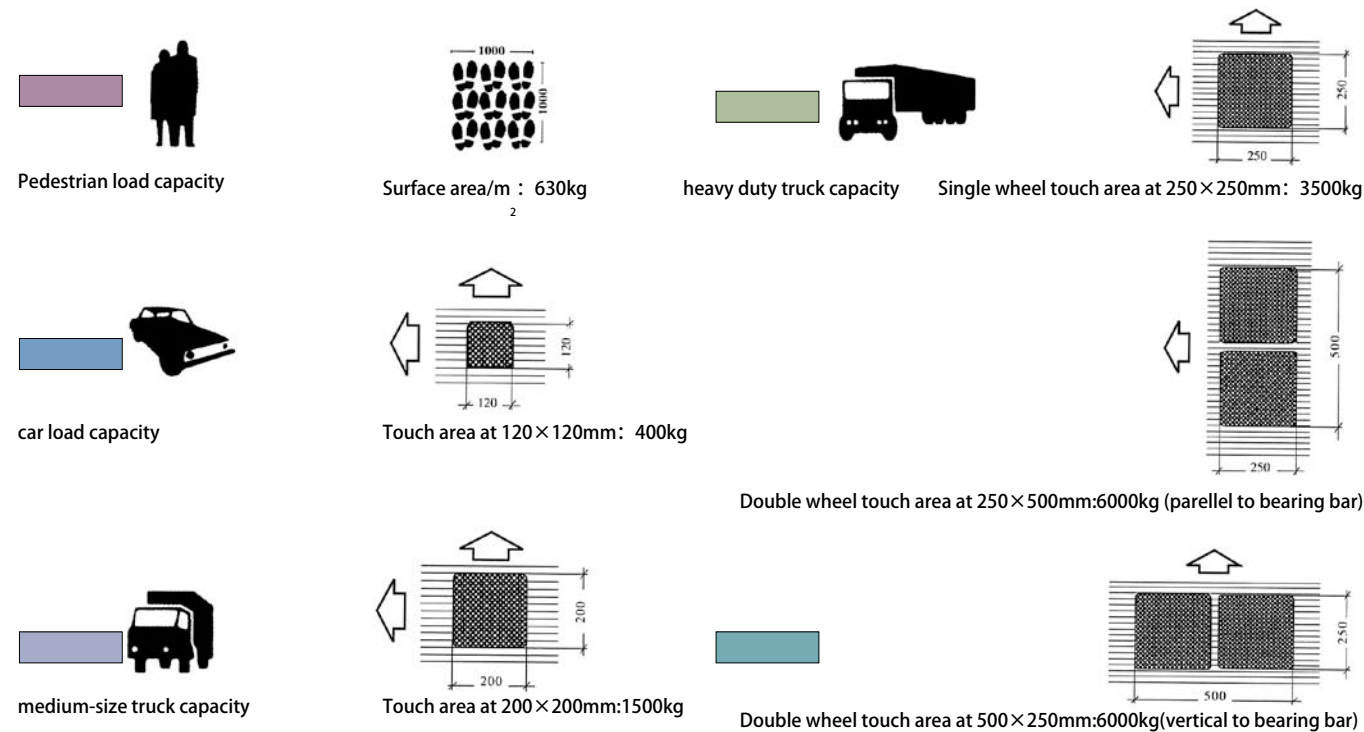
Side plate uses 65×5 bearing bar
Mitred only when requesting by customer in order to install.

Specifications of Additional Grating

In order to meet the different demands of individual customers home and abroad, we can supply many different types of Gratings with international standard. Besides, different bearing bar dimention and crossing bar pitch types of non-standard grating as per customer 's demand are also available.

- C.U.D-safe uniformly distributed load in kg/m²
- f.D-elastic deflection under C.U.D
- C.C-concentrate bearing capacity of a marked area
- f.C-elastic deflection under C.C
- Weigh-Grating self-weight, calculate the weight of deeply processing product and the increacing factor refers to YB/T4001-1998

The Sheet of Concentrate bearing capacity of the Marked Area



Load Bearing Bar Pitch mm15

Type	Bearing bar	C.U.D. (kg/m²) f.d. f.c.	(mm) Support net span																	Spacing	Weight	
			300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900			2000
G202/15/100	20×2	C.U.D. f.d.	12650 0.71	7110 1.26	4560 1.97	3180 2.85	2100 3.50	1410 4.00	990 4.50	720 5.00	540 5.50	420 6.00	330 6.50	260 7.00	210 7.50	180 8.00	150 8.50	130 9.00	110 9.50	90 10.00	15×100	26.5
		f.c.	0.93	0.11	0.27	0.56	1.04	1.78	2.85	4.37												
G252/15/100	25×2	C.U.D. f.d.	19790 0.57	11120 1.01	7140 1.58	4970 2.28	3650 3.10	2760 4.00	1940 4.50	1410 5.00	1060 5.50	820 6.00	650 6.50	510 7.00	420 7.50	340 8.00	290 8.50	250 9.00	210 9.50	180 10.00	15×100	32.4
		f.c.	0.47	1.17	0.13	0.28	0.53	0.91	1.45	2.23	3.27	4.62	6.33									
G302/15/100	30×2	C.U.D. f.d.	28540 0.47	16030 0.84	10290 1.32	7170 1.90	5270 2.59	4030 3.27	3200 3.47	2440 5.00	1830 5.50	1410 6.00	1120 6.50	890 7.00	730 7.50	600 8.00	500 8.50	430 9.00	360 9.50	310 10.00	15×100	38.2
		f.c.	0.55	0.67	1.34	2.33	0.30	0.52	0.84	1.29	1.89	2.67	3.66	4.95	6.50							
G253/15/100	25×3	C.U.D. f.d.	29690 0.57	16670 1.01	10700 1.58	7450 2.28	5480 3.10	4130 4.00	2920 4.50	2110 5.00	1590 5.50	1230 6.00	970 6.50	770 7.00	630 7.50	520 8.00	440 8.50	370 9.00	310 9.50	270 10.00	15×100	46.5
		f.c.	0.64	0.78	1.54	2.69	0.35	0.60	0.97	1.49	2.18	3.08	4.22	5.71	7.50							
G303/15/100	30×3	C.U.D. f.d.	42820 0.47	24050 0.84	15440 1.32	10750 1.90	7900 2.58	6050 3.38	4800 4.27	3650 5.00	2750 5.50	2120 6.00	1680 6.50	1340 7.00	1090 7.50	890 8.00	750 8.50	640 9.00	540 9.50	460 10.00	15×100	55.80
		f.c.	0.62	0.96	0.89	1.55	2.48	3.72	0.56	0.86	1.26	1.78	2.44	3.30	4.33	5.63	7.09	8.86				
G403/15/100	40×3	C.U.D. f.d.	76120 0.35	42750 0.63	27440 0.99	19110 1.42	14040 1.94	10750 2.53	8330 3.20	6860 3.96	4780 4.79	3980 5.70	3160 6.50	2580 7.00	2120 7.50	1790 8.00	1520 8.50	1290 9.00	1100 9.50	1000 10.00	15×100	73.3
		f.c.	0.23	0.77	0.82	1.46	2.36	3.57	2.74	3.07	4.10	5.33	1.02	1.39	1.82	2.37	2.99	3.74	4.64	5.73		

Load Bearing Bar Pitch mm22

Type	Bearing bar	C.U.D. (kg/m) f.d. f.c.	(mm) Support net span																		Spacing		Weight (kg/m)
			300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000			
G202/22/38 G202/22/76	20×2	C.U.D.	8630	4850	3100	2160	1420	960	680	490	370	280	220	180	150	120	100	90	70	60	22×38 22×76	19.9 18.0	
		f.d.	0.71	1.26	1.98	2.85	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00			
		f.c.	0.05	0.16	0.40	0.83	1.54	2.63	4.19														
G252/22/38 G252/22/76	25×2	C.U.D.	13490	7590	4850	3370	2470	1870	1320	970	730	550	430	350	290	240	200	170	140	120	22×38 22×76	24.0 22.1	
		f.d.	0.57	1.01	1.58	2.28	3.10	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00			
		f.c.	0.76	0.08	0.20	0.42	0.79	1.34	2.14	3.26	4.75												
G302/22/38 G302/22/76	30×2	C.U.D.	19460	10940	6990	4860	3570	2740	2180	1670	1260	960	750	610	500	410	340	290	240	210	22×38 22×76	28.1 26.3	
		f.d.	0.47	0.84	1.32	1.90	2.59	3.38	4.28	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00			
		f.c.	0.44	1.08	0.11	0.24	0.45	0.77	1.28	1.88	2.74	3.94	5.44										
G402/22/38 G402/22/76	40×2	C.U.D.	34570	19440	12420	8640	6340	4860	3870	3140	2600	2160	1780	1450	1190	980	880	690	570	500	22×38 22×76	36.2 34.5	
		f.d.	0.35	0.63	0.99	1.42	1.94	2.53	3.21	3.96	4.78	5.70	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00			
		f.c.	0.34	0.88	0.90	1.57	2.51	0.32	0.52	0.79	1.15	1.66	2.29	3.04	3.98	5.16	6.65	8.20					
G253/22/38 G253/22/76	25×3	C.U.D.	20230	11380	7270	5060	3710	2810	1980	1450	1090	830	650	530	430	360	290	250	210	180	22×38 22×76	33.8 32.7	
		f.d.	0.57	1.01	1.58	2.28	3.10	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00			
		f.c.	0.50	0.84	0.28	0.48	0.82	1.43	2.32	3.16	4.16	5.39											
G303/22/38 G303/22/76	30×3	C.U.D.	29180	16420	10480	7300	5350	4100	3260	2510	1890	1440	1130	920	750	620	510	440	360	310	22×38 22×76	39.8 38.9	
		f.d.	0.47	0.84	1.32	1.90	2.58	3.37	4.27	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00			
		f.c.	0.53	0.72	1.42	2.43	0.30	0.51	0.82	1.25	1.83	2.62	3.62	4.80	6.29								
G403/22/38 G403/22/76	40×3	C.U.D.	51880	29180	18640	12970	9510	7300	5800	4710	3910	3240	2680	2180	1780	1460	1210	1040	860	740	22×38 22×76	52.0 50.9	
		f.d.	0.35	0.63	0.99	1.42	1.94	2.53	3.20	3.96	4.79	5.70	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00			
		f.c.	0.34	0.58	1.19	1.05	1.67	2.51	3.58	4.92	0.77	1.10	1.53	2.02	2.65	3.44	4.43	5.46	6.96	8.47			
G503/22/76	50×3	C.U.D.	81070	45600	29120	20270	14860	11400	9070	7360	6110	5070	4310	3770	3310	2860	2360	2030	1680	1450	22×76	63.0	
		f.d.	0.28	0.50	0.79	1.14	1.55	2.02	2.56	3.16	3.83	4.56	5.36	6.20	7.13	8.00	8.50	9.00	9.50	10.00			
		f.c.	0.17	0.53	1.12	1.08	1.74	2.62	1.83	2.52	3.36	4.36	5.55	6.94	1.35	1.76	2.27	2.79	3.56	4.34			
G304/22/38	30×4	C.U.D.	38910	21890	13980	9730	7130	5470	4350	3340	2520	1920	1510	1220	1000	820	680	580	480	420	22×76	50.6	
		f.d.	0.47	0.84	1.32	1.90	2.58	3.37	4.27	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00			
		f.c.	0.68	1.04	0.07	0.86	2.98	0.38	0.61	0.94	1.37	1.97	2.72	3.69	4.71	5.12	5.88						
G404/22/76	40×4	C.U.D.	69130	38890	24830	17280	12670	9720	7730	6280	5210	4320	3570	2900	2370	1950	1610	1380	1150	990	22×76	66.6	
		f.d.	0.35	0.63	0.98	1.42	1.94	2.53	3.20	3.96	4.79	5.70	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00			
		f.c.	0.25	0.79	0.89	1.58	2.55	1.88	2.68	3.69	4.92	0.83	1.14	1.52	1.99	2.58	3.32	4.10	5.22	6.35			
G504/22/38	50×4	C.U.D.	108050	60780	38810	27010	19800	15190	12080	9810	8140	6750	5400	4410	3810	3140	2700	2240	1930		22×76	82.6	
		f.d.	0.28	0.50	0.79	1.14	1.55	2.02	2.56	3.16	3.83	4.56	5.35	6.21	7.13	8.00	8.50	9.00	9.50	10.00			
		f.c.	0.13	0.41	0.84	1.50	1.30	1.97	2.82	3.89	2.52	3.27	4.16	5.20	6.40	7.78	1.70	2.09	2.67	3.25			
G604/22/38	60×4	C.U.D.	155650	87550	55910	38910	25830	21890	17410	14130	11730	9730	8270	7240	6350	5570	4880	4440	3870	3340	22×76	99.3	
		f.d.	0.23	0.42	0.66	0.95	1.29	1.69	2.13	2.64	3.19	3.80	4.46	5.17	5.94	6.75	7.63	8.56	9.50	10.00			
		f.c.	0.07	0.24	0.58	0.97	1.41	2.14	1.63	2.25	3.00	3.93	4.98	6.22	7.30	8.50	5.40	6.41	7.54	8.80			
G704/22/76	70×4	C.U.D.	211810	119140	76080	52950	38820	29790	22690	19230	15960	13240	11260	9850	8640	7580	6640	6040	5280	4810	22×76	118.2	
		f.d.	0.20	0.36	0.56	0.81	1.10	1.44	1.83	2.26	2.73	3.25	3.82	4.43	5.09	5.79	6.54	7.33	8.17	9.05			
		f.c.	0.04	0.15	0.36	0.74	1.28	2.00	1.94	2.68	3.58	2.46	3.14	3.92	4.83	5.87	7.05	8.38	4.75	5.54			

Load Bearing Bar Pitch mm25

Type	Bearing bar	C.U.D. (kg/m) f.d. f.c.	(mm) Support net span																		Spacing	Weight (kg/m)
			300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000		
G202/25/24 G202/25/76	20×2	C.U.D.	7600	4300	2760	1900	1270	860	600	440	330	250	200	160	130	110	90	80	70	60	25×24	18.9
		f.d.	0.71	1.26	1.98	2.85	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	25×76	15.8
G252/25/24 G252/25/76	25×2	C.U.D.	11890	6720	4310	2970	2210	1670	1170	860	640	500	390	310	250	210	170	150	130	110	25×24	22.5
		f.d.	0.57	1.01	1.58	2.27	3.11	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	25×76	19.5
G302/25/24 G302/25/76	30×2	C.U.D.	17150	9700	6220	4290	3180	2450	1920	1490	1110	860	670	540	440	370	300	260	220	190	25×24	26.1
		f.d.	0.47	0.84	1.32	1.90	2.58	3.38	4.27	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	25×76	23.0
G402/25/24 G402/25/76	40×2	C.U.D.	30470	17230	11050	7620	5650	4350	3410	2800	2290	1930	1580	1270	1030	870	720	610	520	450	25×24	33.4
		f.c.	0.35	0.63	0.99	1.42	1.94	2.53	3.20	3.96	4.78	5.70	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	25×76	30.4
G253/25/24 G253/25/76	25×3	C.U.D.	17840	10080	6470	4460	3310	2510	1750	1290	960	740	580	470	380	320	260	220	190	170	25×24	31.2
		f.d.	0.57	1.01	1.58	2.28	3.10	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	25×76	28.9
G303/25/24 G303/25/76	30×3	C.U.D.	25730	14540	9330	6430	4770	3670	2880	2240	1670	1290	1000	810	650	550	450	390	330	290	25×24	36.5
		f.c.	0.47	0.84	1.32	1.90	2.58	3.37	4.27	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	25×76	34.2
G403/25/24 G403/25/76	40×3	C.U.D.	45740	25860	16590	11430	8480	6530	5120	4200	3440	2900	2370	1910	1550	1310	1070	920	790	680	25×24	47.2
		f.c.	0.35	0.63	0.99	1.42	1.94	2.53	3.20	3.96	4.79	5.69	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	25×76	44.9
G503/25/76	50×3	C.U.D.	71470	40400	25920	17870	13260	10200	8000	6560	5380	4530	3820	3310	2880	2560	2100	1790	1540	1330	25×76	55.6
		f.d.	0.28	0.50	0.79	1.14	1.55	2.02	2.56	3.16	3.83	4.56	5.35	6.20	7.13	8.00	8.50	9.00	9.50	10.00	25×76	55.6
G304/25/76	30×4	C.U.D.	34300	19390	12440	8580	6360	4900	3840	2980	2220	1720	1330	1080	870	740	600	520	440	380	25×76	44.5
		f.d.	0.47	0.84	1.32	1.90	2.58	3.38	4.27	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	25×76	44.5
G404/25/76	40×4	C.U.D.	60950	34450	22100	15400	11310	8480	6820	5590	4590	3870	3160	2550	2070	1750	1430	1220	1050	900	25×76	58.6
		f.c.	0.35	0.63	0.98	1.42	1.94	2.53	3.20	3.95	4.79	5.70	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	25×76	58.6
G504/25/76	50×4	C.U.D.	95250	53850	34550	23810	17670	13590	10660	8740	7170	6040	5090	4420	3840	3420	2790	2390	2050	1770	25×76	72.8
		f.d.	0.28	0.50	0.79	1.14	1.55	2.02	2.56	3.16	3.83	4.56	5.36	6.21	7.13	8.00	8.50	9.00	9.50	10.00	25×76	72.8
G604/25/76	60×4	C.U.D.	137220	77570	49770	34300	25450	19580	15360	12600	10330	8700	7330	6360	5530	4900	4340	3930	3540	3050	25×76	88.0
		f.c.	0.23	0.42	0.66	0.95	1.29	1.69	2.13	2.64	3.19	3.80	4.46	5.17	5.94	6.76	7.63	8.56	9.50	10.00	25×76	88.0
G704/25/76	70×4	C.U.D.	186730	115560	67220	46680	34640	26650	20900	17140	14060	11840	9970	8660	7520	6790	5900	5340	4840	4390	25×76	104.8
		f.d.	0.20	0.36	0.56	0.81	1.13	1.48	1.83	2.26	2.73	3.25	3.82	4.43	5.09	5.79	6.53	7.33	8.17	9.05	25×76	104.8

Load Bearing Bar Pitch mm30

Type	Bearing bar	C.U.D. (kg/m) f.d. f.c.	(mm) Support net span																		Spacing	Weight
			300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000		
G253/30/76	25×3	C.U.D.	14910	8390	5350	3730	2740	2070	1480	1070	810	610	480	320	260	220	180	160	130	30×76	25.4	
		f.d.	0.57	1.01	1.58	2.28	3.10	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50			10.00
		f.c.	0.63	0.07	0.18	0.38	0.71	1.21	1.91	2.94	4.29											
G303/30/50 G303/30/76	30×3	C.U.D.	21500	12100	7720	5380	3950	3020	2430	1850	1400	1060	840	670	560	450	380	320	270	230	30×50 30×76	30.9 29.9
		f.d.	0.47	0.84	1.32	1.90	2.58	3.37	4.27	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00		
		f.c.	0.36	0.90	0.10	0.22	0.41	0.70	1.10	1.69	2.48	3.56	4.88	6.60								
G403/30/76	40×3	C.U.D.	38230	21500	13720	9560	7020	5380	4320	3480	2890	2390	1990	1580	1320	1060	890	760	640	550	30×50 30×76 30×100	38.9 38.9 38.9
		f.d.	0.35	0.63	0.99	1.42	1.94	2.53	3.20	3.96	4.80	5.70	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00		
		f.c.	0.53	0.88	0.75	1.31	2.09	3.14	0.46	0.71	1.04	1.50	2.05	2.78	3.57	4.75	5.98	7.48	9.28			
G304/30/50 G304/30/76 G304/30/100	30×4	C.U.D.	28670	16130	10290	7171	5270	4030	3240	2470	1860	1410	1120	890	740	600	500	430	360	310	30×50 30×76 30×100	39.6 38.5 37.5
		f.d.	0.47	0.84	1.32	1.90	2.59	3.37	4.27	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00		
		f.c.	0.60	0.67	1.34	2.33	0.30	0.52	0.83	1.27	1.86	2.67	3.66	4.95	6.35							
G404/30/50 G404/30/76 G404/30/100	40×4	C.U.D.	50940	28650	18280	12740	9360	7160	5760	4640	3850	3180	2650	2110	1760	1410	1190	1010	860	730	30×50 30×76 30×100	51.4 50.4 49.5
		f.d.	0.35	0.63	0.98	1.42	1.94	2.53	3.20	3.96	4.79	5.69	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00		
		f.c.	0.35	0.66	1.34	0.98	1.57	2.35	3.36	4.61	0.78	1.12	1.54	2.09	2.68	3.56	4.49	5.61	6.96	8.60		
G504/30/50 G504/30/76 G504/30/100	50×4	C.U.D.	79610	44780	28580	19900	14620	11200	9000	7250	6010	4980	4260	3660	3270	2760	2330	1970	1680	1430	30×50 30×76 30×100	63.3 62.3 61.3
		f.d.	0.28	0.50	0.79	1.14	1.55	2.02	2.56	3.16	3.83	4.56	5.34	6.21	7.13	8.00	8.50	9.00	9.50	10.00		
		f.c.	0.18	0.55	0.69	1.22	1.96	1.20	1.72	2.36	3.15	4.09	5.21	6.51	1.37	1.82	2.29	2.87	3.56	4.40		
G604/30/50 G604/30/76 G604/30/100	60×4	C.U.D.	114690	64510	41160	28670	21070	16130	12970	10440	8660	7170	6140	5270	4710	4030	3610	3240	2900	2470	30×50 30×76 30×100	76.6 75.1 73.7
		f.d.	0.23	0.42	0.66	0.95	1.29	1.69	2.13	2.64	3.19	3.80	4.46	5.18	5.94	6.75	7.62	8.55	9.50	10.00		
		f.c.	0.10	0.33	0.67	1.20	1.13	1.71	2.45	3.37	1.82	2.36	3.01	3.76	4.63	5.62	6.75	8.01	9.43	2.54		
G255/30/76	25×5	C.U.D.	24850	13980	8920	6210	4560	3450	2470	1790	1350	1020	810	640	540	430	360	310	260	220	30×76	39.8
		f.d.	0.56	1.01	1.58	2.27	3.09	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00		
		f.c.	0.83	0.93	1.85	0.23	0.42	0.73	1.14	1.76	2.57	3.69	5.06	6.84								
G305/30/50 G305/30/76 G305/30/100	30×5	C.U.D.	35840	20160	12860	8960	6580	5040	4050	3090	2330	1770	1400	1110	930	750	630	530	450	390	30×50 30×76 30×100	48.1 47.1 46.2
		f.d.	0.47	0.84	1.32	1.90	2.58	3.38	4.27	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00		
		f.c.	0.48	0.54	1.07	1.86	2.98	0.42	0.66	1.01	1.48	2.13	2.92	3.96	5.08	6.76	8.51					
G405/30/76	40×5	C.U.D.	63700	35830	22860	15920	11700	8960	7200	5800	4810	3980	3310	2640	2200	1770	1490	1260	1070	920	30×76	61.9
		f.d.	0.35	0.63	0.99	1.42	1.94	2.53	3.20	3.96	4.79	5.70	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00		
		f.c.	2.28	0.87	1.07	1.90	1.25	1.88	2.68	3.69	4.92	0.90	1.23	1.67	2.14	2.85	3.59	4.49	5.57	6.88		

Load Bearing Bar Pitch mm34

Type	Bearing bar	C.U.D. (kg/m) f.d. f.c.	(mm) Support net span																		Spacing	Weight
			300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000		
G202/34/38	20×2	C.U.D.	5620	3150	2010	1420	940	620	440	320	240	190	150	120	100	80	70	60	50	40	34×38	14.4
		f.d.	0.71	1.26	1.98	2.85	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00		
		f.c.	0.07	0.25	0.62	1.26	2.33															
G252/34/38	25×2	C.U.D.	8790	4930	3140	2220	1640	1210	860	630	470	360	290	240	190	160	130	110	90	80	34×38	17.1
		f.d.	0.57	1.01	1.58	2.28	3.11	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00		
		f.c.	0.04	0.12	0.31	0.64	1.19	2.07	3.31	5.00												
G302/34/38	30×3	C.U.D.	12670	7100	4530	3200	2360	1780	1410	1090	810	630	490	410	320	270	230	190	160	140	34×38	19.9
		f.d.	0.47	0.84	1.32	1.90	2.58	3.38	4.28	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00		
		f.c.	0.02	0.07	0.18	0.37	0.69	1.19	1.91	2.88	4.27	5.99										
G402/34/38	40×2	C.U.D.	22510	12620	8050	5690	4190	3160	2500	2050	1670	1420	1170	970	770	640	540	450	380	320	34×38	25.4
		f.d.	0.35	0.63	0.99	1.42	1.94	2.53	3.20	3.96	4.78	5.69	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00		
		f.c.	0.31	0.76	0.07	0.15	0.29	0.50	0.80	1.21	1.80	2.52	3.49	4.56	6.17	7.88						
G253/34/38	25×3	C.U.D.	13180	7390	4710	3330	2450	1820	1280	940	700	550	430	350	280	230	200	170	140	120	34×38	25.4
		f.d.	0.57	1.01	1.58	2.28	3.10	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00		
		f.c.	0.02	0.08	0.21	0.43	0.79	1.38	2.20	3.33	4.92											
G303/34/38	30×3	C.U.D.	19010	10660	6800	4800	3540	2660	2110	1640	1220	950	740	610	480	400	340	290	240	200	34×38	27.6
		f.d.	0.47	0.84	1.32	1.90	2.58	3.37	4.27	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00		
		f.c.	0.49	0.04	0.12	0.24	0.46	0.79	1.27	1.92	2.84	3.99	5.51									
G403/34/38	40×3	C.U.D.	33790	18940	12080	8530	6290	4740	3750	3070	2510	2130	1760	1450	1150	960	800	680	570	480	34×38	35.6
		f.d.	0.35	0.63	0.99	1.42	1.94	2.53	3.20	3.95	4.78	5.69	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00		
		f.c.	0.40	0.50	1.00	1.75	0.19	0.33	0.53	0.81	1.20	1.68	2.32	3.04	4.11	5.25	6.65	8.36				
G503/34/38	50×3	C.U.D.	52800	29600	18880	13330	9830	7400	5870	4800	3930	3330	2830	2510	2130	1870	1570	1320	1120	950	34×38	43.6
		f.d.	0.28	0.50	0.79	1.14	1.55	2.02	2.56	3.16	3.83	4.55	5.35	6.20	7.12	8.00	8.50	9.00	9.50	10.00		
		f.c.	0.27	0.54	1.10	0.89	1.43	2.14	3.05	0.41	0.61	0.86	1.19	1.55	2.10	2.69	3.40	4.28	5.35	6.65		
G304/34/38	30×4	C.U.D.	25340	14210	9060	6400	4720	3550	2820	2180	1620	1260	990	820	650	540	450	380	320	270	34×38	36.9
		f.d.	0.47	0.84	1.32	1.90	2.58	3.37	4.28	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00		
		f.c.	0.36	0.90	0.09	0.18	0.34	0.59	0.95	1.44	2.13	2.99	4.13	5.40	7.31							
G404/34/38	40×4	C.U.D.	45030	25240	16100	11370	8380	6310	5000	4090	3350	2840	2340	1930	1530	1280	1070	900	760	650	34×38	47.5
		f.d.	0.35	0.63	0.98	1.42	1.94	2.53	3.20	3.95	4.79	5.69	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00		
		f.c.	0.45	0.79	0.05	0.31	2.09	3.14	0.40	0.60	0.90	1.26	1.74	2.28	3.00	3.94	4.99	6.27	7.83	9.75		
G504/34/38	50×4	C.U.D.	70370	39450	25160	17770	13100	9860	7820	6400	5230	4440	3770	3350	2840	2500	2100	1770	1490	1260	34×38	58.1
		f.d.	0.28	0.50	0.79	1.14	1.55	2.02	2.56	3.17	3.83	4.56	5.35	6.20	7.12	8.00	8.50	9.00	9.50	10.00		
		f.c.	0.20	0.63	0.82	1.46	1.07	1.60	2.29	3.15	4.20	5.45	0.89	1.16	1.57	2.01	2.55	3.21	4.01	4.99		
G604/34/38	60×4	C.U.D.	101380	56830	36250	25600	18870	14210	11260	9220	7540	6400	5440	4830	4100	3650	3250	2900	2580	2180	34×38	68.4
		f.d.	0.23	0.42	0.66	0.95	1.29	1.69	2.13	2.64	3.19	3.80	4.46	5.17	5.94	6.76	7.62	8.55	9.50	10.00		
		f.c.	0.11	0.37	0.76	0.84	1.36	2.05	1.32	1.82	2.43	3.15	4.01	5.02	6.18	7.50	1.47	1.85	2.32	2.88		
G255/34/38	25×5	C.U.D.	21960	12310	7850	5550	4090	3040	2140	1580	1170	910	720	590	470	390	330	280	230	200	34×38	37.9
		f.d.	0.56	1.01	1.58	2.27	3.10	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00		
		f.c.	0.50	1.24	0.12	0.25	0.47	0.82	1.32	1.99	2.95	4.14	5.72									
G305/34/38	30×5	C.U.D.	31680	17760	11330	8000	5900	4440	3520	2730	2200	1580	1240	1020	810	670	570	480	400	340	34×38	44.6
		f.d.	0.47	0.84	1.32	1.90	2.58	3.38	4.27	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00		
		f.c.	5.58	0.72	1.42	2.49	0.27	0.47	0.76	1.01	2.70	2.39	3.31	4.32	5.85	7.47						
G405/34/38	40×5	C.U.D.	56310	31570	20130	14220	10480	7890	6260	5120	4190	3550	2930	2420	1910	1600	1340	1130	950	810	34×38	57.7
		f.d.	0.35	0.63	0.99	1.42	1.94	2.53	3.21	3.96	4.79	5.69	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00		
		f.c.	0.32	0.63	1.29	1.05	1.67	2.51	3.58	4.92	0.72	1.01	1.39	1.82	2.46	3.15	3.99	5.01	6.27	7.80		

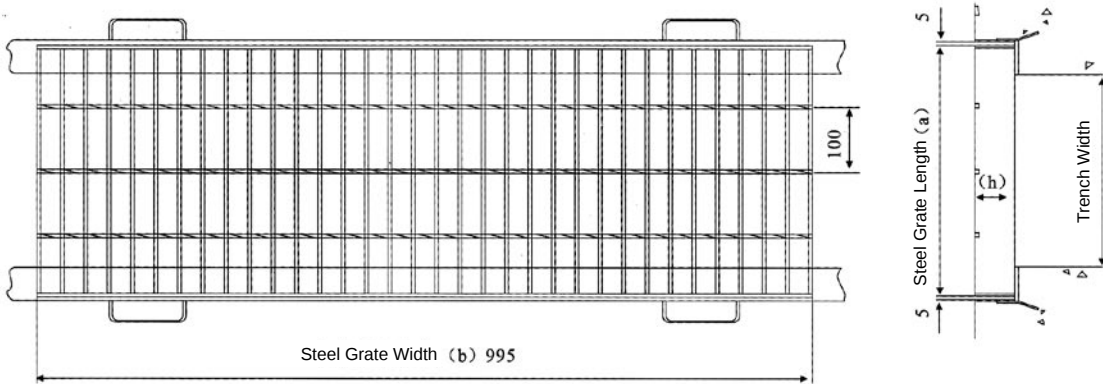
- 1. Grating trench cover is applied on walkway, carriageway, courtyard etc; used as cover for drainage trench, wire ditch, subway, and air pit. Hot-dip-galvanizing finish is used as antiseptic.
- 2. Grating trench cover is composed of fixed frame & movable grating. It can be classified to GT & GU according to structures.
- 3. Grating trench cover is used for catch basin, sand sediment trap, dralning well, & sink hole in road, park & other civil projects. Its generally designed to be revertible & its start-stop angle is 110°. Hinged trench cover has good advantages on anti-theft and installation.

Class of Loading for Drainage Pit/Trench Cover

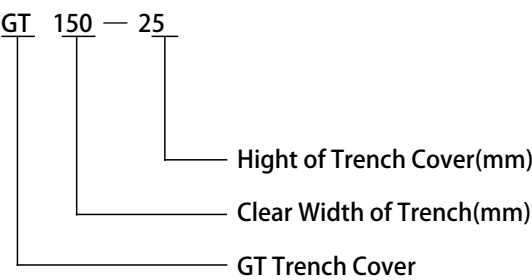
Class of load	Fully Laden(kg)	Back Singlo-wheel Load(KN)	Wheel-oressure Area a×b(mm²)
T-25	25,000	100	200×500
T-20	20,000	80	200×500
T-14	14,000	56	200×500
T-6	6,000	24	200×240
T-2	2,000	8	200×160

GT Trench Cover

- 1. Except for highway, GT trench cover is suitable for all other roads, which are not crowded . Screw fixing is recommended to avoid danger . This kind of trench cover is used on T shape ditch, with angle steel seating frame.
- 2. FGxxx/30/100 is generally used for making GT terch cover, and other types are also available. For the trench covers Used in public places, the grating with 50mm cross bar pitch is recommended. Serrated type and I bar type grating is available according to customer requests.



Sign of GT Trench Cover



Specification of GT Trench Cover

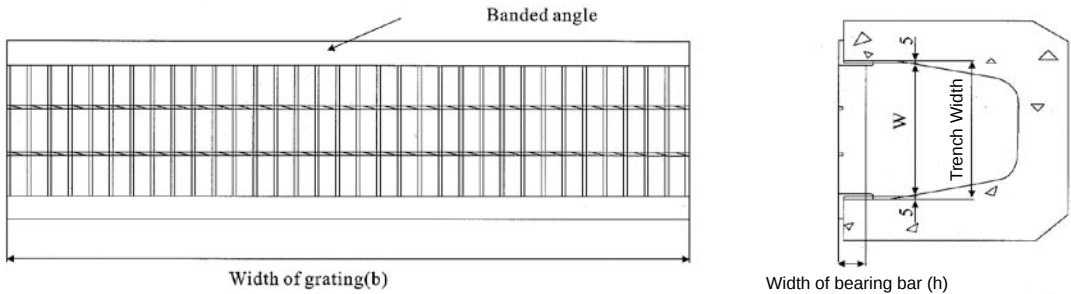
Trench Width	T-2 & Pedestrian Load			
	Type	Grating Size b×a×h	Weight	Seat angle
100	GT100-20	995×160×20	4	L40×25×5
120	GT120-20	995×180×20	4.4	L40×25×5
150	GT150-20	992×210×20	5.2	L40×25×5
180	GT180-20	995×240×20	5.7	L40×25×5
200	GT200-20	995×260×20	6	L40×25×5
240	GT240-25	995×304×25	13.4	L40×28×3
300	GT300-25	995×364×25	15.9	L40×28×3
360	GT360-25	995×424×25	18.3	L40×28×3
400	GT400-25	995×464×25	19.7	L40×28×3
450	GT450-32	995×544×32	28.8	L56×36×4
500	GT500-45	995×580×45	42.2	L50×50×5
600	GT600-50	995×690×50	54.8	L56×56×6
Trench Width	Pedestrian Load			
	Type	Grating Size b×a×h	Weight	Seat angle
100	GT100-25	995×164×25	8.2	L40×28×3
120	GT120-25	995×184×25	9.2	L40×28×3
150	GT150-25	995×214×25	10.2	L40×28×3
180	GT180-25	995×244×25	11.3	L40×28×3
200	GT200-32	995×294×32	16.6	L56×36×4
240	GT240-32	995×334×32	18.7	L56×36×4
300	GT300-38	995×416×38	26.7	L70×45×7
360	GT360-45	995×440×45	33	L50×50×5
400	GT400-50	995×490×50	40	L56×56×6
450	GT450-50	995×540×50	43.4	L56×56×6
500	GT500-50	995×590×50	47.4	L56×56×6
600	GT600-50	995×700×55	60.8	L60×60×5

Trench Width	T-14 & Pedestrian Load			
	Type	Grating Size b×a×h	Weight	Seat angle
100	GT100-25	995×164×25	8.2	L40×28×3
120	GT120-25	995×184×25	9.2	L40×28×3
150	GT150-25	995×214×25	10.2	L40×28×3
180	GT180-32	995×274×25	15.7	L56×36×4
200	GT200-32	995×294×32	16.6	L56×36×4
240	GT240-38	995×356×38	23.2	L70×45×7
300	GT300-45	995×380×45	28.8	L50×50×5
360	GT360-50	995×440×50	36.5	L56×56×6
400	GT400-50	995×480×50	39.3	L56×56×6
450	GT450-55	995×550×55	48.9	L60×60×5
500	GT500-60	995×610×60	58.6	L65×65×5
600	GT600-75	995×750×75	87.9	L80×80×5
Trench Width	T-20 & Pedestrian Load			
	Type	Grating Size b×a×h	Weight	Seat angle
100	GT100-25	995×164×25	8.2	L40×28×3
120	GT120-25	995×214×32	12.9	L56×36×4
150	GT150-25	995×224×32	14.3	L56×36×4
180	GT180-38	995×296×38	19.7	L70×45×7
200	GT200-38	995×316×38	21.1	L70×45×7
240	GT240-45	995×320×45	25	L50×50×5
300	GT300-50	995×390×50	32.6	L56×56×6
360	GT360-55	995×400×55	41.6	L60×60×5
400	GT400-55	995×500×55	44.7	L60×60×5
450	GT450-65	995×590×65	59.3	L70×70×5
500	GT500-75	995×640×75	75.9	L80×80×5
Trench Width	T-25 & Pedestrian Load			
	Type	Grating Size b×a×h	Weight	Seat angle
100	GT100-32	995×194×32	11.4	L56×36×4
120	GT120-32	995×214×32	12.9	L56×36×4
150	GT150-38	995×266×38	18.1	L70×45×7
180	GT180-45	955×260×45	20.9	L50×50×5
200	GT200-45	955×280×45	22.2	L50×50×5
240	GT240-45	955×320×45	25	L50×50×5
300	GT300-50	955×390×50	32.6	L56×56×6
360	GT360-55	955×460×55	41.6	L60×60×5
400	GT400-65	955×520×65	54.7	L70×70×5
450	GT450-75	995×590×75	70.3	L80×80×5

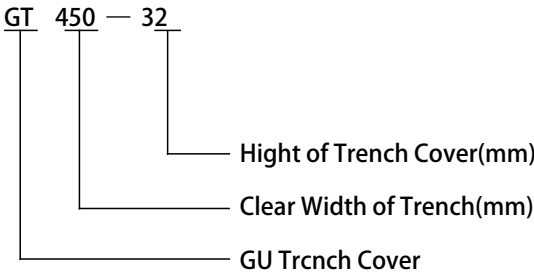
(Trench width & grating specification are in mm, & the unit of weight is kg/pc)

GU Trench Cover

Regarding most concrete groove without edge, it would be very simple and economical to use GU trench cover for there is no special requirement to groove edge. Its suggested that angle steel should be filled in upper edge. If the loads are T-6 and T-14. The U trench prefab blocks are also available to prevent dirty water to leak into earth. But GU trench cover is just suitable for side ditch when a car need to cross it.



Sign of GU Trench Cover



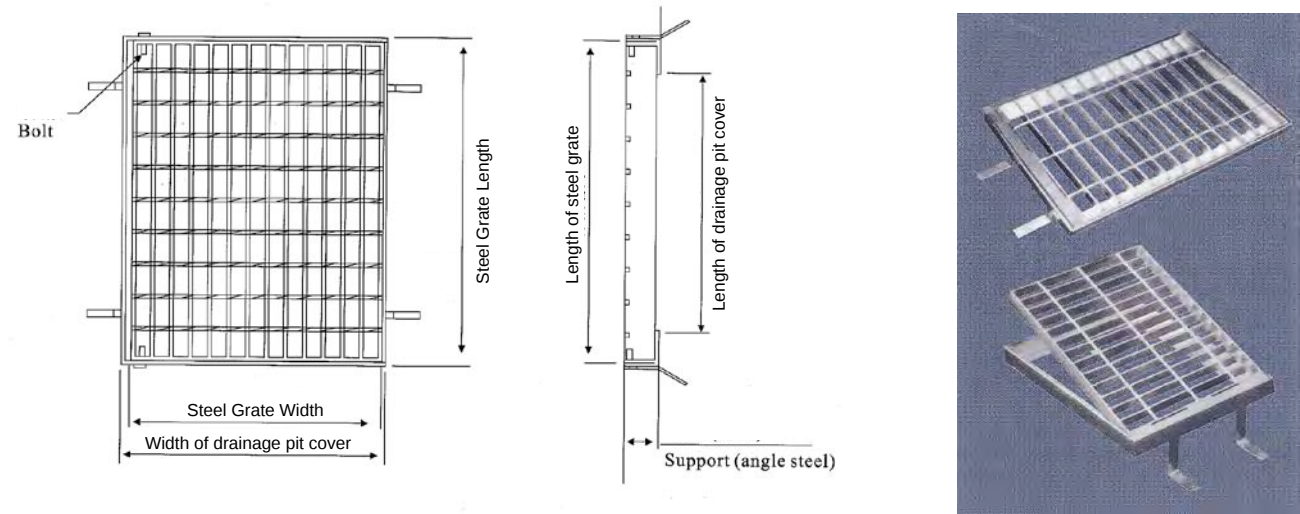
Trench Width	T-2 & Pedestrian Load			
	Type	Grating Size b×w×h	Banded Angle	Weight
100	GU100-20	995×90×20	L30×3	4.4
120	GU120-20	995×110×20	L30×3	5
150	GU150-20	995×140×20	L30×3	5.5
180	GU180-20	995×170×20	L30×3	6
200	GU200-25	995×190×25	L40×5	12.2
240	GU240-25	995×230×25	L40×5	13.9
300	GU300-25	995×290×25	L40×5	16
360	GU360-25	995×350×25	L40×5	18.4
400	GU400-32	995×390×32	L40×5	23.7
450	GU150-32	995×443×32	L40×5	26.3
500	GU500-45	995×488×45	L50×6	41.7
600	GU600-50	995×588×50	L56×6	53.8

Trench Width	T-6 & Pedestrian Load			
	Type	Grating Size b×w×h	Banded Angle	Weight
100	GU100-25	995×90×25	L40×5	8.3
120	GU120-25	995×110×25	L40×5	9.3
150	GU150-25	995×140×25	L40×5	10.4
180	GU180-25	995×170×25	L40×5	11.4
200	GU200-25	995×190×25	L40×5	12.2
240	GU240-32	995×230×32	L40×5	16.1
300	GU300-38	995×290×38	L40×5	21.3
360	GU360-45	995×350×45	L50×6	32.5
400	GU400-45	995×390×45	L50×6	35.1
450	GU450-50	995×440×55	L50×6	41.6
500	GU500-50	995×490×50	L50×6	45.2
600	GU600-55	995×590×55	L63×6	59.4
Trench Width	T-14 & Pedestrian Load			
	Type	Grating Size b×w×h	Banded Angle	Weight
100	GU100-25	995×90×25	L40×5	8.3
120	GU120-25	995×110×25	L40×5	9.3
150	GU150-25	995×140×25	L40×5	10.4
180	GU180-25	995×170×25	L40×5	11.4
200	GU200-32	995×190×32	L40×5	14
240	GU240-32	995×230×32	L40×5	16.1
300	GU300-45	995×290×45	L50×6	28.4
360	GU360-50	995×350×45	L50×6	32.5
400	GU400-50	995×390×50	L50×6	37.8
450	GU450-55	995×440×55	L63×6	47.4

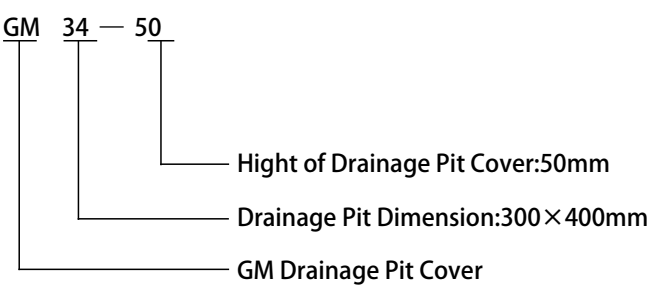
(Trecnh width & grating specification are in mm, & the unit of weight is kg/pc)

GM Drainage Pit Cover

GM drainage cover usually use the grating with 50mm cross bar pitch to enhance the impact resistance.



Sign of GM Trench Cover



Specification of GM Drainage Pit Cover

Applicable Load	Drainage Pit Dimension Width*Length	Type of Grating	Steel Grating		Bedframe		
			Spec(h×b×a)	Weight	Spec(b×a×h)	Support Angle	Weight
T-25	300×400	GM34-55	305×500×55	14.2	335×520×60	L60×5	7.6
	400×400	GM44-55	395×500×55	18.3	425×520×60	L60×5	8.5
	500×400	GM54-55	485×500×55	22.5	515×520×60	L60×5	9.3
	300×500	GM35-65	305×620×65	22.8	335×640×70	L70×5	9.4
	400×500	GM45-65	395×620×65	29.5	425×640×70	L70×5	10.4
	500×500	GM55-65	485×620×65	36.2	515×640×70	L70×5	11.4
	300×600	GM36-75	305×740×75	28.6	335×760×80	L80×5	11.5
	400×600	GM46-75	395×740×75	36.4	425×760×80	L80×5	12.6
	500×600	GM56-75	485×740×75	44.3	515×760×80	L80×5	13.7
	500×700	GM57-75	485×840×75	49.9	515×860×80	L80×5	14.5
	700×700	GM77-75	695×840×75	70.6	725×860×80	L80×5	17.1

Applicable Load	Drainage Pit Dimension Width*Length	Type of Grating	Steel Grating		Bedframe		
			Spec(b×a×h)	Weight	Spec(b×a×h)	Support Angle	Weight
T-20	300×400	GM34-50	305×490×50	12.8	335×510×56	L56×6	7.7
	400×400	GM44-50	395×490×50	16.5	425×510×56	L56×6	8.6
	500×400	GM54-50	485×490×50	20.3	515×510×56	L56×6	9.5
	300×400	GM35-55	305×600×55	16.7	335×620×60	L60×5	8.2
	400×500	GM45-55	395×600×55	21.7	425×620×60	L60×5	9
	300×600	GM36-55	485×600×55	26.6	515×620×60	L60×5	9.8
	400×600	GM46-65	305×720×65	26.2	335×740×70	L70×5	10.8
	500×600	GM56-65	485×720×65	41.6	515×740×70	L70×5	13.1
	600×600	GM66-65	605×720×65	51.9	635×740×70	L70×5	14.6
	500×700	GM57-75	485×840×75	49.9	515×860×80	L80×5	14.5
T-14	700×700	GM77-75	695×840×75	68	725×860×80	L80×5	17.1
	300×400	GM34-45	305×480×45	11.3	335×500×50	L50×5	6.5
	400×400	GM44-45	305×480×45	14.7	425×500×50	L50×5	7.2
	500×400	GM54-45	485×480×45	18	515×500×50	L50×5	7.8
	300×500	GM35-50	305×590×50	15.1	335×610×56	L56×6	8.2
	400×500	GM45-50	395×590×50	19.5	425×610×56	L56×6	9.2
	500×500	GM55-50	485×590×50	24	515×610×56	L56×6	10.1
	300×600	GM36-55	305×700×55	19.3	335×720×60	L60×5	8.7
	400×600	GM46-55	395×700×55	25	425×720×60	L60×5	9.6
	500×600	GM56-55	485×700×55	34.6	515×720×60	L60×5	10.4
	600×600	GM66-55	605×700×55	38.2	635×720×60	L60×5	11.5
	500×700	GM57-60	485×810×60	38.1	515×830×65	L65×5	12.7
T-2	700×700	GM77-60	695×810×60	54.6	725×830×65	L65×5	15.2
	300×400	GM34-32	305×454×32	7.9	335×472×36	L36×4	4.4
	400×400	GM44-32	395×454×32	10.3	425×472×36	L36×4	4.8
	500×400	GM54-32	485×454×32	12.6	485×472×36	L36×4	5
	300×500	GM35-40	305×570×40	11.9	335×590×45	L45×5	5.9
	400×500	GM45-40	395×570×40	15.4	425×590×45	L45×5	6.5
	500×500	GM55-40	485×570×40	18.9	515×590×45	L45×5	7.2
	300×600	GM36-40	305×670×40	13.8	335×690×45	L45×5	6.3
	400×600	GM46-40	395×670×40	17.9	425×690×45	L45×5	6.9
	500×600	GM56-40	485×670×40	21.9	515×690×45	L45×5	7.5
	600×600	GM66-40	605×670×40	27.4	635×690×45	L45×5	8.3
	500×700	GM57-45	485×780×45	28.2	515×800×50	L50×5	8.6
	700×700	GM77-45	695×780×45	40.4	725×800×50	L50×5	10.2

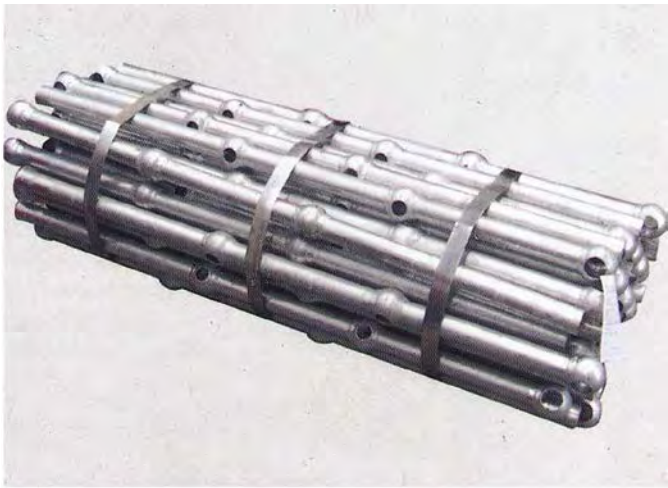
(Drainage pit, grating, & seat angle is in mm, & unit of weight is kg/pc)

Railing

Fabricated according to YB/T4001.2-2007 standard, railing adopts ball joint design, steel grade Q235, hot dip galvanized finish. Featuring robustness, convenient installation, elegant appearance, and good anti-corrosive property benefiting from hot dip galvanizing, its widely used in shipyard, bridgework, power plant, petrochemicals, iron & steel works, sewage treatment plant, waterworks, gardens, municipal roads, airporfs, wharfs, etc.

Surface Treatment of Railing

Regarding surface treatment, the hot-dip galvanized, painted & untreated are available, of which the hot-dip galvanized is recommended.



Selecting Steel Grating

application in over load & super-span project.

Light & Medium Duty

Maximum Pecommended Spans

Bearing Bar Size(mm)	Available for Maintenance Platform			Available for Pedestrain			Available for Crowded Pedestrain		
	UDL=2.5kPa			UDL=3kPa			UDL=4kPa		
	Deflection=5mm			Deflection=5mm			Deflection=5mm		
	Bearing bar pitch(mm)			Bearing bar pitch(mm)			Bearing bar pitch(mm)		
	30	40	60	30	40	60	30	40	60
20×3	1190	1110	1000	1140	1060	960	1060	980	890
25×3	1410	1310	1180	1350	1250	1130	1250	1170	1050
32×3	1700	1580	1430	1620	1510	1350	1510	1400	1270
40×3	2010	1870	1690	1920	1780	1610	1780	1660	1500
20×5	1350	1260	1140	1290	1200	1090	1200	1120	1010
25×5	1600	1490	1350	1530	1420	1290	1420	1320	1200
32×5	1930	1790	1620	1840	1710	1550	1710	1590	1440
40×5	2280	2120	1920	2180	2030	1830	2030	1890	1700

Heavy Duty

Maximum Recommended Spans

Bearing Bar Size(mm)	Factory, Workshop, Motor Rooms and Trolley Channel						Heavy Loading Area, Boller Equipment and Heavy Equipment Area					
	UDL=5kPa						UDL=7.5kPa					
	Deflection=5mm			Deflection=5mm			Deflection=10mm			Deflection=10mm		
	Bearing bar pitch(mm)			Bearing bar pitch(mm)			Bearing bar pitch(mm)			Bearing bar pitch(mm)		
	30	40	60	30	40	60	30	40	60	30	40	60
25×5	1350	1250	1130	1600	1490	1350	1220	1130	1020	1450	1350	1220
32×5	1620	1510	1360	1930	1790	1620	1460	1360	1230	1740	1620	1460
40×5	1920	1780	1610	2280	2120	1920	1730	1610	1460	2060	1920	1730
45×5	2090	1950	1760	2490	2320	2090	1890	1760	1590	2250	2090	1890
50×5	2270	2110	1910	2700	2510	2270	2050	1910	1720	2440	2270	2050
55×5	2440	2270	2050	2900	2700	2440	2200	2050	1850	2620	2440	2200
65×5	2760	2570	2320	3290	3060	2760	2490	2320	2100	2970	2760	2490
75×5	3080	2860	2590	3660	3400	3080	2780	2590	2340	3300	3080	2780
75×6	3220	3000	2710	3830	3560	3220	2910	2710	2440	3460	3220	2910

Ordering Information

Please read this brochure carefully.
Please provide the type and area of grating needed,and also the dimension and quantity. Provide us the necessary flat drawing when you need large area grating:

- dimensions of total area of grating
- supporting structure (including section dimension, location of supporting beam and open direction of channel steel).
- Location and dimension needed to cut cutout and of moving steel grating usually.
- Location and dimension of nosing, end plate and specified profile connection.

Indicate the type and quantity of installation fastener, at least four lots of fasteners needed for each panel in principle.

Indicate the type, pieces and dimension of stairtread, surface treatment and whether to change angle for side.

Indicate the surface treatment of grating (U,P,G or other methods, such as paint anti-corrosive coating)

Area of grating is accounted by gross area, which is accounted by maximum outside dimension, including cutout and gap.

Only all above items are clarified, you will get the exact offer.

