

## 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 product distribution and manufacturing. We focus on quality, short lead time, customized production for our global clients. Understanding and knowing China in business side is one of our greatest advantages to serve you in every aspect of manufacturing process.*

## Continental Solution

Continental Solution is founded in 2008, our business is located in Wuxi, Jiangsu Province. Over the year, we has built a reputation for providing distribution and manufacturing 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 products to our clients. To help meet our clients' needs, with extensive industry knowledge, focus and experience, we utilize in every process of manufacturing and with our exporting service which covers every aspect of logistic process as we take care every thing for you before, during and after shipment.

## Why Us

We distribute and make 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.



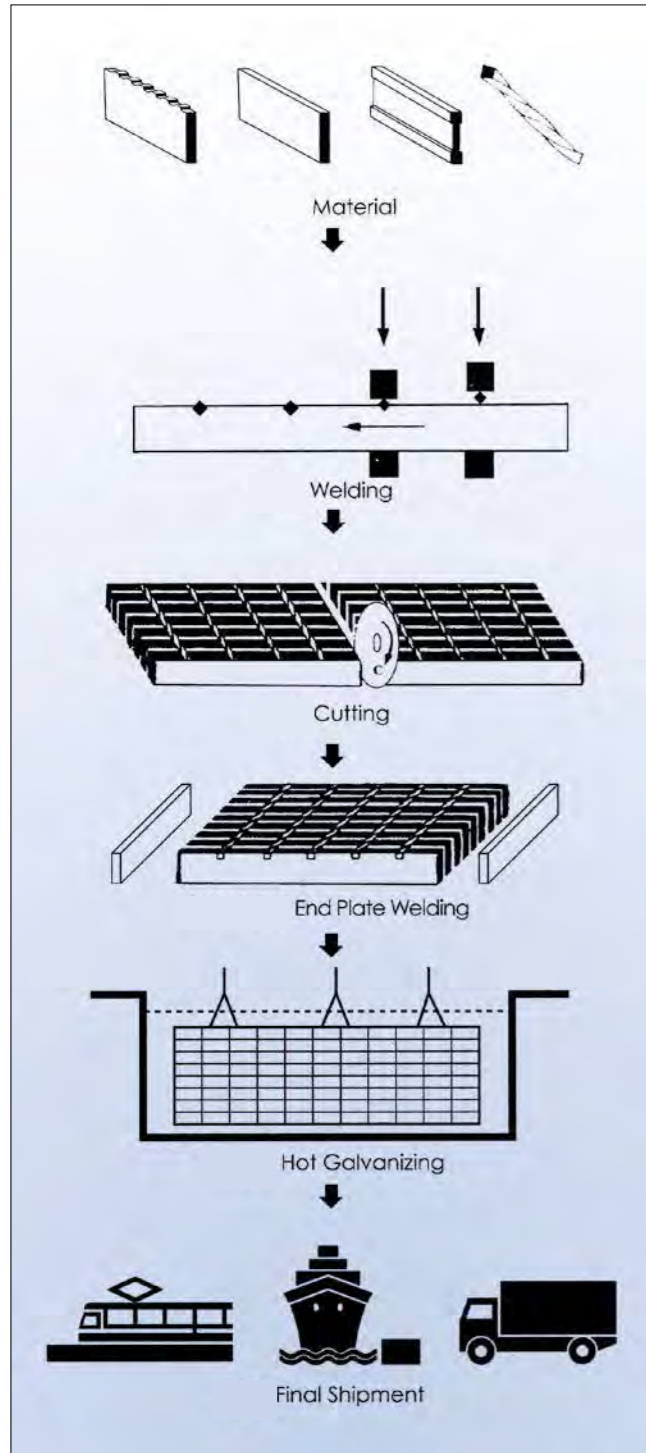
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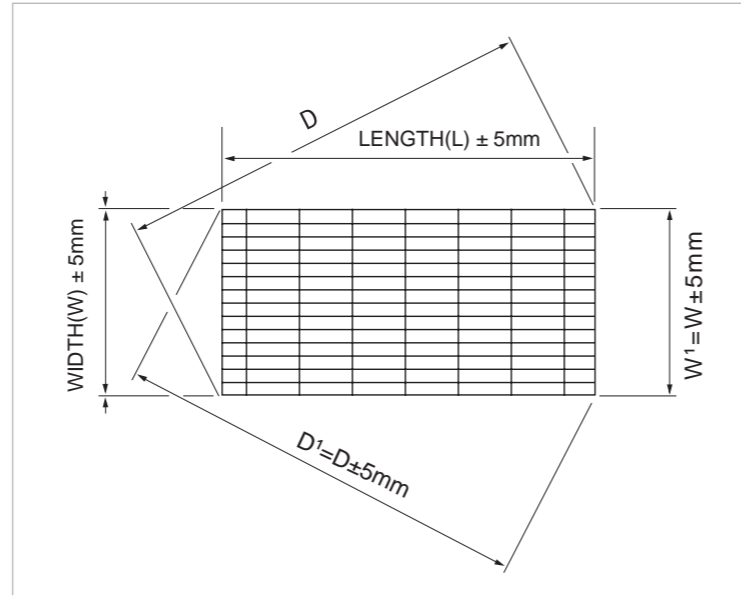


Manufacturing Process

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.



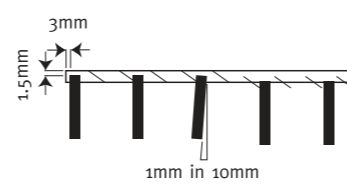
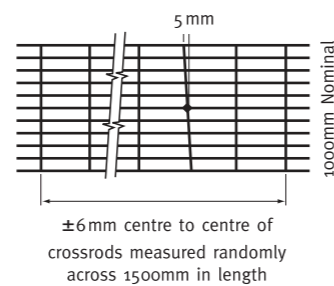
Size, Dimension and Tolerance



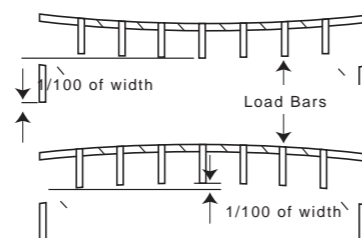
W and W1 are overall lengths of cross bars at opposite ends of panel.

D and D1 are overall diagonal dimensions

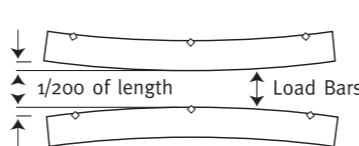
Cross Rod Alignment and Spacing Cross Bar Location and Bearing Bar



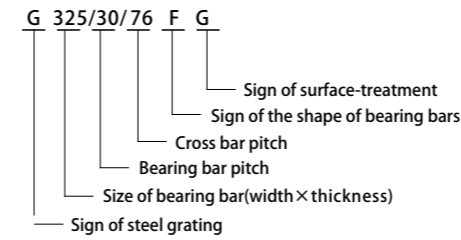
Transverse Bow



Longitudinal Bow

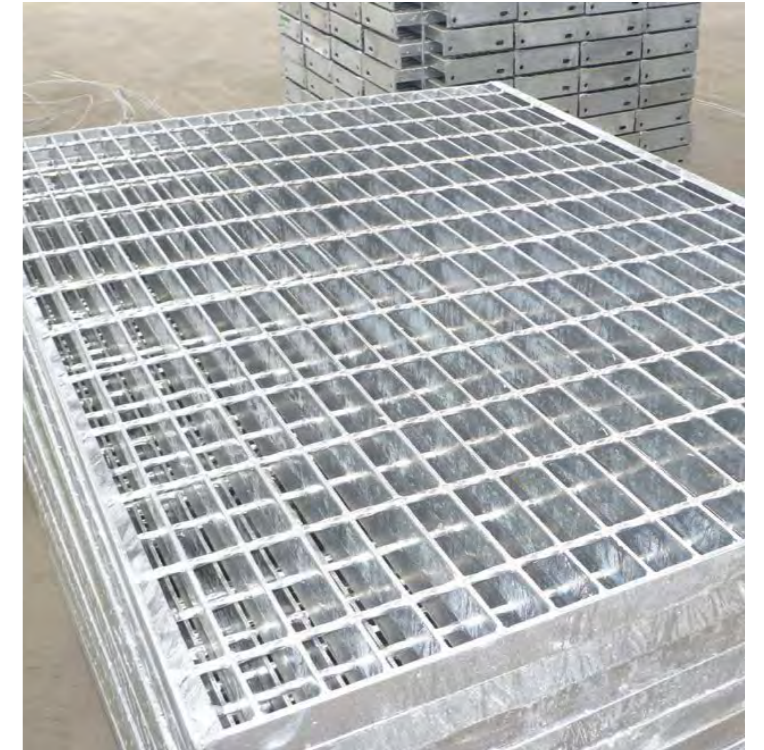


Symbol of Steel Grating



Note:

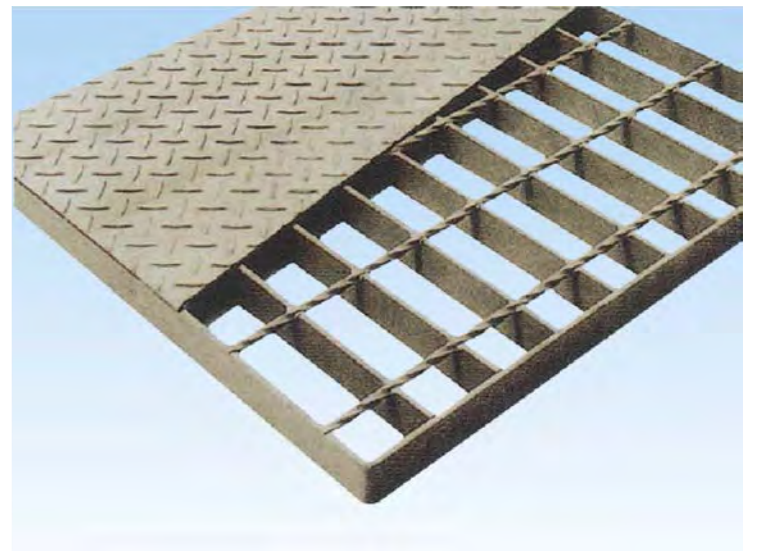
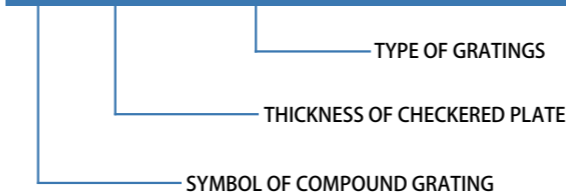
- Bearing bar pitches may be 15 to 22, 25, 30, 32.5, 34, 40, 50, 60, 80, 90mm, of which 25, 30, 34 and 40mm are recommended.
- Cross bar pitches may be 24-200mm, of which 50mm, 76mm and 100mm are recommended.
- Sign of the shape of bearing bars:  
F-Plain style (may be omitted in the symbol of steel 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 disposale
- ◆ Food processing
- ◆ Aquatic breeding
- ◆ Fertilizer industry
- ◆ Phamaceutical industry
- ◆ Parking lot
- ◆ Cement plant

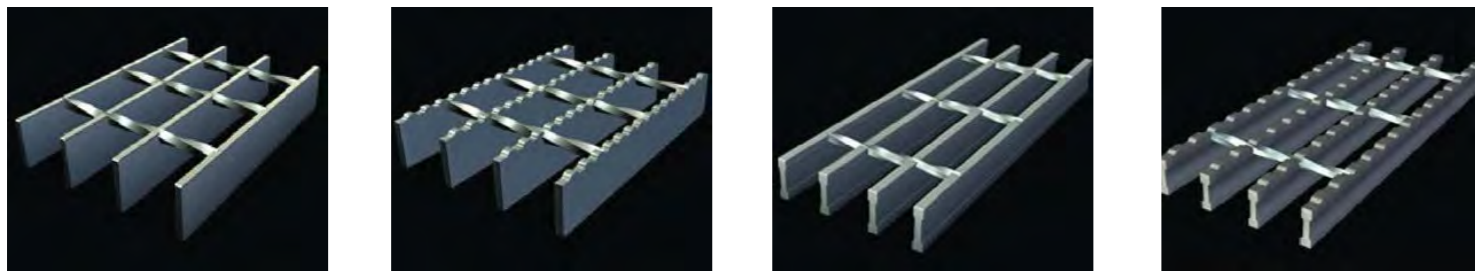
- ◆ Oil refinery
- ◆ Mining and refinery
- ◆ Power plant
- ◆ Pubilc utilities
- ◆ Marine engineering
- ◆ Shipbuilding
- ◆ Construction material industry
- ◆ Defense project
- ◆ Airport project
- ◆ Water plant
- ◆ Sewage disposal
- ◆ Paper and pulp industry
- ◆ Construction industry
- ◆ Transportation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



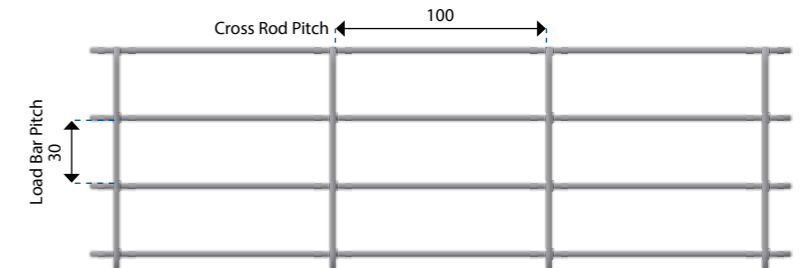
There are three kinds of steel gratings distinguished by different bearing bar types. The respective of features are as follows:

1. Plain: One of the most widely used gratings, available for flooring sidewalk, drange 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.

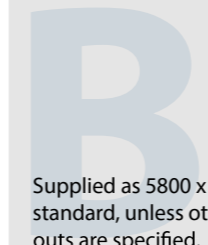
Steel Gratings Most-Popular Specifications



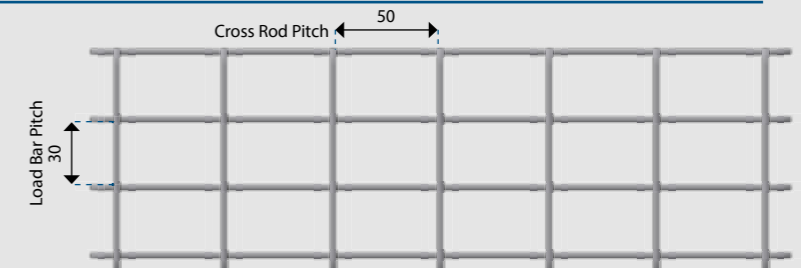
Supplied as 5800 x 995mm Panels as standard, unless other sizes or cut outs are specified.



KGB Pattern



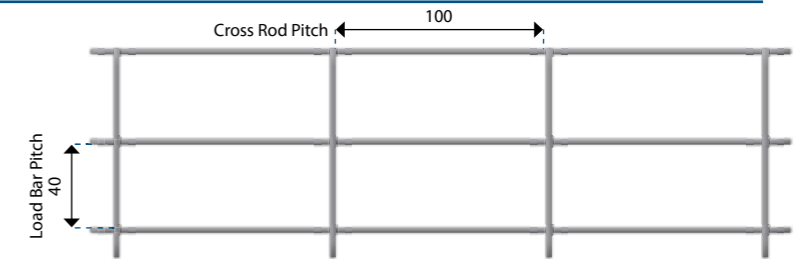
Supplied as 5800 x 995mm Panels as standard, unless other sizes or cut outs are specified.



KGC Pattern



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



KGD Pattern



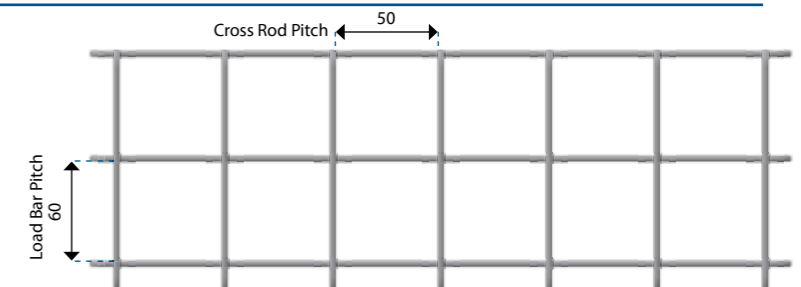
Supplied as 5800 x 1000mm Panels as standard, unless other sizes or cut outs are specified.



KGF Pattern



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





## Surface Process of Gratings

### Hot Galvanizing

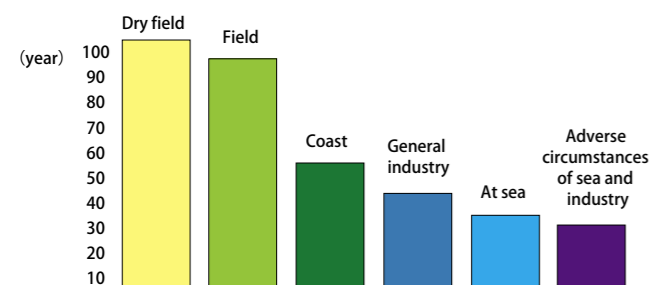
Normally, Hot galvanizing will be carried out after end welding process. When the thickness of bearing bars is not less than 5mm, the weight of average Zinc Layer will not be less than 610g/m<sup>2</sup>. When the thickness of bearing bars is less than 5mm, the weight of average Zinc Layer will not be less than 460g/m<sup>2</sup>. 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.

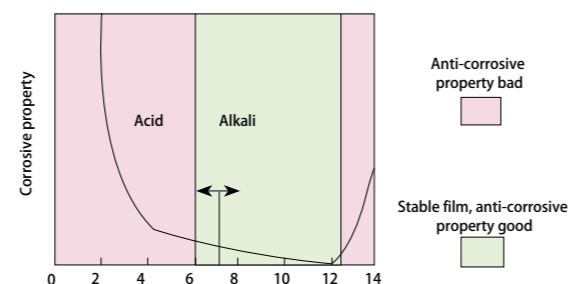
### Service life of hot galvanizing

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/m<sup>2</sup>
- 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/m<sup>2</sup>. 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 <sup>2</sup>	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	
				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	
G655/30/100W	65	5	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		
				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		
G605/30/100W	60	5	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			
				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			
G555/30/100W	55	5	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				
				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				
G505/30/100W	50	5	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					
				D	0.14	0.55	1.24	2.2	3.43	4.97	6.65	8.95	11.16	14.09	16.37					
G503/30/100W	50	3	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					
				D	0.15	0.61	1.38	2.45	3.83	5.56	7.62	9.73	12.44	15.76	18.39					
G455/30/100W	45	5	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						
				D	0.17	0.69	1.54	2.76	4.31	6.14	8.37	11.02	13.92	17.8						
G405/30/100W	40	5	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							
				D	0.17	0.69	1.54	2.74	4.32	6.25	8.39	11.2	14.21							
G403/30/100W	40	3	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							
				D	0.2	0.79	1.77	3.16	4.94	7.17	9.61	12.92	16.24							
G355/30/100W	35	5	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								
				D	0.2	0.79	1.77	3.14	4.84	7.11	9.77	12.03								
G353/30/100W	35	3	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							
				D	0.22	0.86	1.94	3.44	5.35	7.64	10.42	14.13	16.81							
G325/30/100W	32	5	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								
				D	0.21	0.86	1.93	3.45	5.41	7.85	10.09	14.19								
G323/30/100W	32	3	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									
				D	0.28	1.1	2.47	4.35	6.82	9.92	13.9									
G255/30/100W	25	5	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										
				D	0.28	1.01	2.47	4.43	6.94	9.35										
G253/30/100W	25	3	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										
				D	0.34	1.37	3.05	5.44	8.73	12.21										
G205/30/100W	20	5	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											
				D	0.34	1.37	3.1	5.53	8.76											
G203/30/100W	20	3	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 40mm

Type	Width of bearing bar mm	Thickness of bearing bar mm	Nom Weight kg/m <sup>2</sup>	Load and Deflection	mm Clear span															
					200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
G655/40/50W	65	5	81.7	U	2992	748	332	187	119	83	61	46	36	29	24	20	17	15		
				D	0.11	0.42	0.95	1.7	2.65	3.84	5.22	6.84	8.54	10.54	12.84	15.25	17.97	21.46		
G655/40/100W	65	5	78.7	C	299	149	99	74	59	49	42	37	33	29	27	24	23	21		
				D	0.08	0.34	0.76	1.35	2.1	3.03	4.14	5.47	6.99	8.49	10.58	12.32	15.1	17.39		
G605/40/50W	60	5	75.9	U	2550	637	283	159	102	70	52	39	31	25	21	17	15			
				D	0.11	0.46	1.03	1.84	2.89	4.12	5.47	7.32	9.36	11.57	14.31	16.54	20.21			
G605/40/100W	60	5	72.9	C	255	127	85	63	51	42	36	31	28	25	23	21	19			
				D	0.09	0.37	0.83	1.46	2.31	3.31	4.52	5.84	7.56	9.32	11.5	13.74	15.97			
G555/40/50W	55	5	70.1	U	2142	535	238	133	85	59	43	33	26	21	17	14				
				D	0.13	0.5	1.13	2	3.13	4.51	5.59	8.05	10.22	12.66	15.11	17.77				
G555/40/100W	55	5	67.1	C	214	107	71	53	42	35	30	26	23	21	19	17				
				D	0.1	0.4	0.9	1.59	2.48	3.58	4.9	6.38	8.09	10.2	12.39	14.54				
G505/40/50W	50	5	64.2	U	1770	442	196	110	70	49	36	27	21	17	14					
				D	0.14	0.55	1.24	2.2	3.43	5	5.12	6.79	11.02	13.69	16.64					
G505/40/100W	50	5	61.2	C	177	88	59	44	35	29	25	22	19	17	16					
				D	0.11	0.44	0.99	1.76	2.75	3.96	5.45	7.2	8.93	11.05	13.95					
G503/40/50W	50	3	42.6	U	1062	265	118	66	42	29	21	16	13	10						
				D	0.14	0.55	1.24	2.2	3.43	4.99	6.71	8.71	11.4	13.49						
G503/40/100W	50	3	39.6	C	106	53	35	26	21	17	15	13	11	10						
				D	0.11	0.44	0.98	1.74	2.75	3.87	5.46	7.11	8.66	10.9						
G455/40/50W	45	5	58.4	U	1434	358	159	89	57	39	29	22	17	14	11					
				D	0.15	0.61	1.38	2.44	3.83	5.46	7.67	9.85	12.28	15.53	18.05					
G455/40/100W	45	5	55.4	C	143	71	47	35	28	23	20	17	15	14	13					
				D	0.12	0.49	1.09	1.92	3.02	4.31	5.99	7.67	9.72	12.54	15.64					
G405/40/50W	40	5	52.6	U	1133	283	125	70	45	31	23	17	13	11						
				D	0.17	0.69	1.54	2.74	4.32	6.2	6.42	10.88	13.45	17.47						
G405/40/100W	40	5	49.6	C	113	56	37	28	22	18	16	14	12	11						
				D	0.14	0.54	1.22	2.19	3.39	4.82	6.85	9.02	11.13	14.13						
G403/40/50W	40	3	35.3	U	680	170	75	42	27	18	13	10	8							
				D	0.17	0.69	1.54	2.74	4.3											

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 <sup>2</sup>	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 x 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 x 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 x 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 x 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 x 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 x 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 x 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 x 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 x 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 x 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 x 5	50	21	Not recommended	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 <sup>2</sup>	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	75	7	4	12	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	65	7	4	10	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	60	7	4	10	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	55	7	4	8.5	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	20.37	24.01						
G507/30/100WI	50	7	4	8	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	50	5	3	8.5	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	44	5	3	8	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														



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

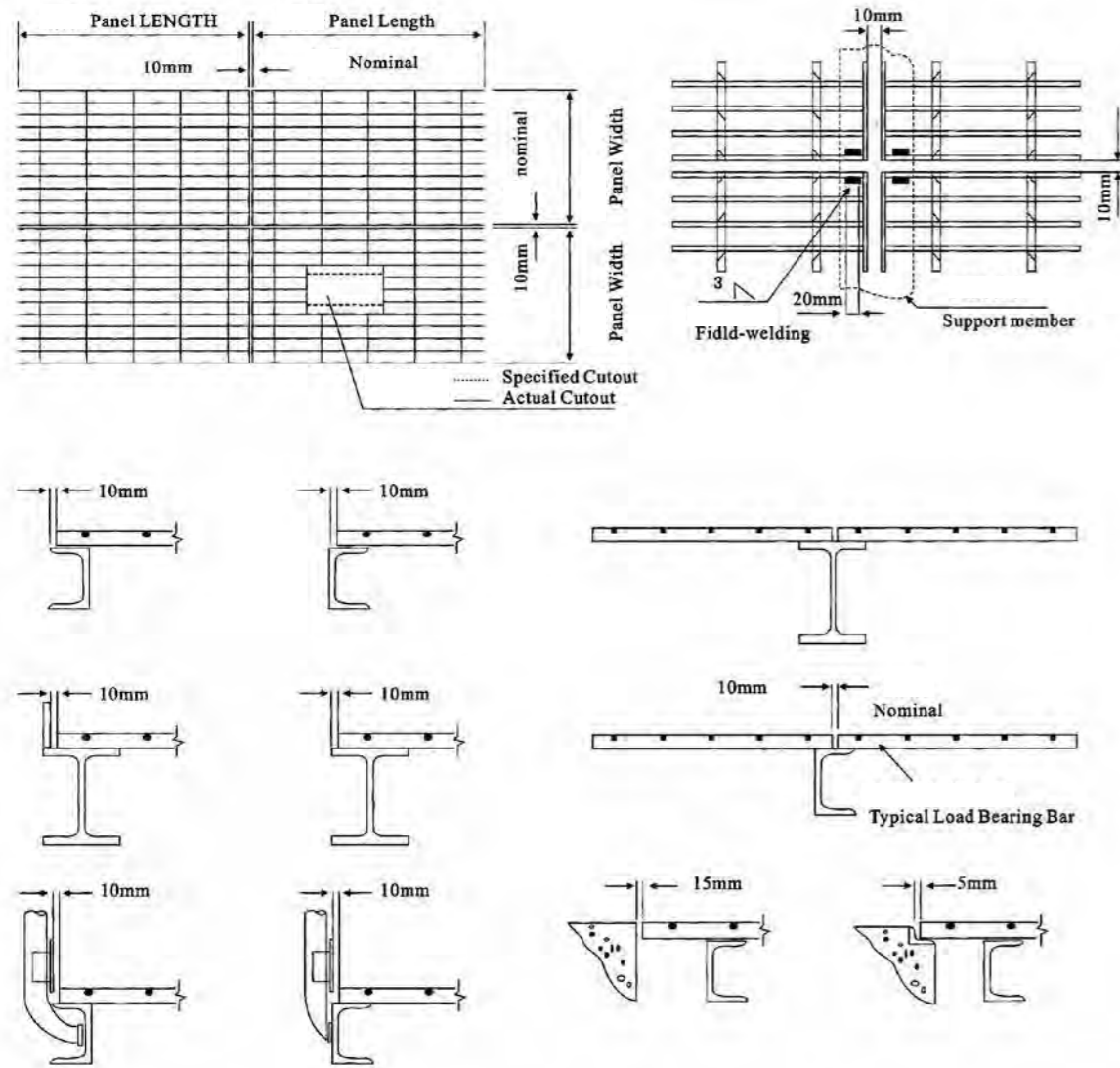
Type	Width of steel bar mm	Thickness of Flange mm	Thickness of Flank mm	Width of Flange mm	Nom Weight kg/m	Load and Deflection	mm Clear span															
							200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
G757/40/50WI	75	7	4	12	101	U	4845	1211	538	302	193	134	98	75	75	59	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	75	7	4	12	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	65	7	4	10	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	60	7	4	10	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	55	7	4	8.5	68.9	C	262	131	87	65	52	43	37	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	50	7	4	8	63.4	C	218	109	72	54	43	36	31	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	50	5	3	8.5	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	44	5	3	8	42.5	C	124	62	41	31	24	20	17	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	38	5	3	7	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	5	3	6	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	5	3	4.5	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

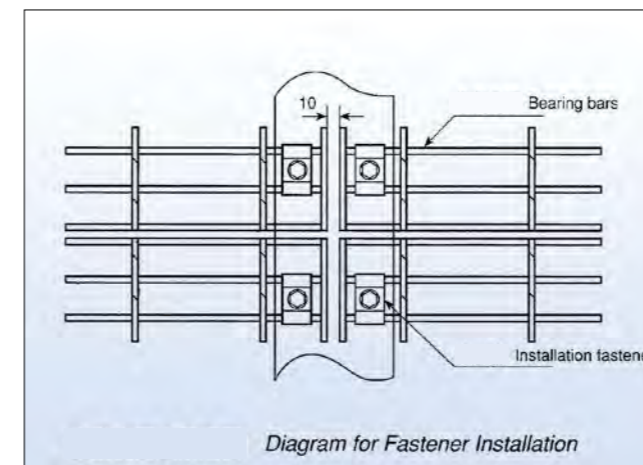
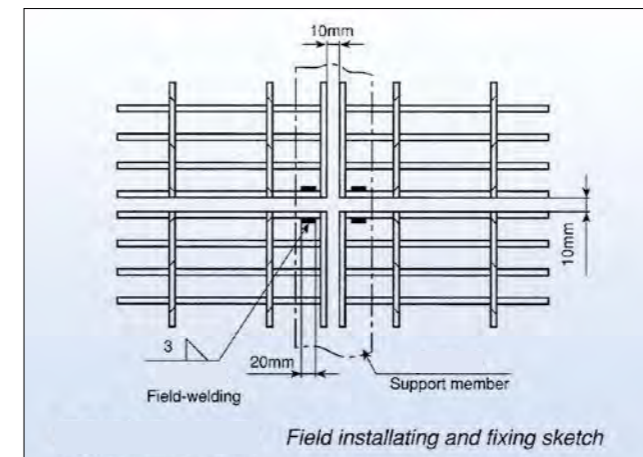
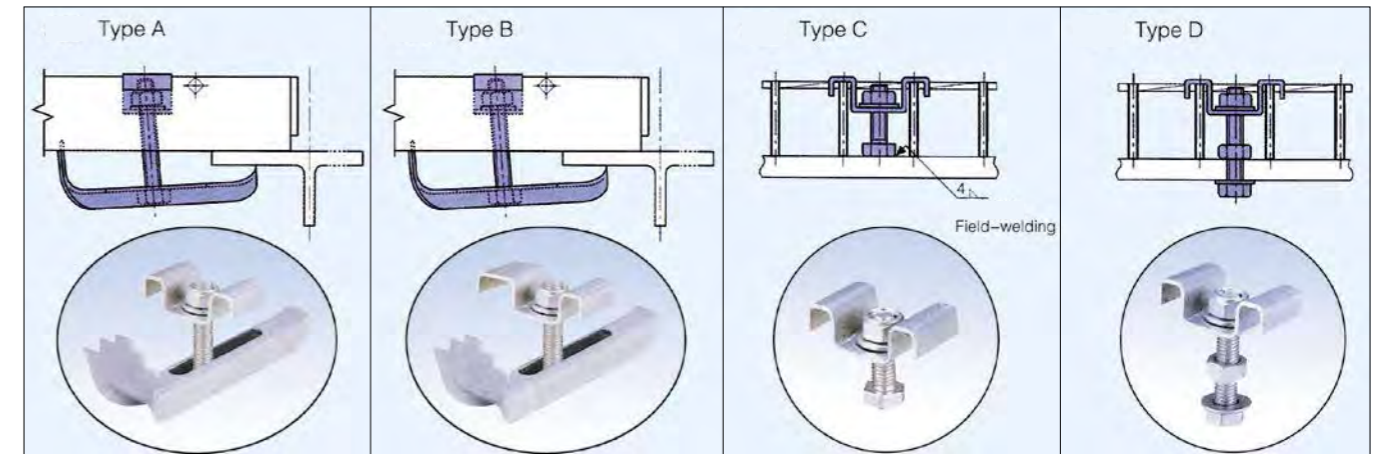
Type	Width of bearing bar mm	Thickness of bearing bar mm	Cross bar size mm	Nom Weight kg/m²	Load and Deflection	mm Clear span															
						200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
G1508/40/100W	150	8	8 x 8	284.9	U	25500	6375	2833	1593	1020	708	520	396	314	255	210	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 x 8	247.6	U	19153	4788	2128	1197	766	532	390	299	236	191	158	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 x 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 x 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 x 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 x 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 x 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 x 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 x 8	110.1	U	4781	1195	531	298	191	132	97	74	59	47	39	33	28	24	21	

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 dismantal, for instance, the flooring around the machines. However, using saddle clips are featuring in easy installation & saving zinc layer.
2. Regarding welding installation, angle wolding 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 staddle for thoes gratings with a bigger span.



Installation Fastener





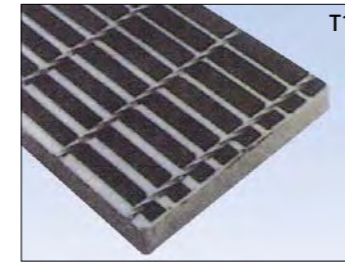
Stairway Series

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.

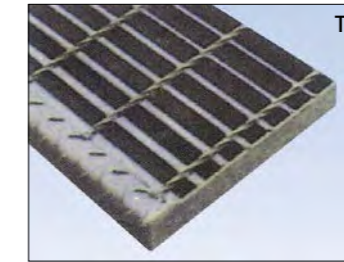


kinds	Angle	Type	Width of ladder		Stairtread height	Stairtread		Materials	Limited height	Notes			
			Stairtread length	General width		Specifications	Style						
Stair	30°	TT30-10	1000	1140	160	G325/30/100-305 × 1000	T1	[18]	5m	1. 45°steel ladder is recommended, handrail and column reserved. 2. Choose 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							
	Leaning ladder	45°	TT45-10	1000	1130	200					G325/30/100-245 × 1000		
			TT45-09	900	1030	200					G325/30/100-245 × 900		
		50°	TT45-08	800	930	200					G255/30/100-245 × 800	T3	[14 α]
			TT45-07	700	830	200					G255/30/100-245 × 700		
55°		TT45-06	600	730	200	G255/30/100-245 × 600	T4	[12]					
		TT50-10	1000	1130	210	G325/30/100-215 × 1000							
60°		TT50-09	900	1030	210	G325/30/100-215 × 900	T5	[12]					
		TT50-08	800	930	210	G255/30/100-215 × 800							
65°	TT50-07	700	830	210	G255/30/100-215 × 700	T6	[12]						
	TT50-06	600	730	210	G255/30/100-215 × 600								
Seizing ladder	70°	TT50-08	800	916	225	G255/30/100-185 × 800	T5	[14 α]	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.			
	75°	TT50-07	700	816	225	G255/30/100-185 × 700							
Straight ladder	80°	TT60-08	800	916	235	G255/30/100-185 × 800	T6	[12]	5m	1. If it is over 3m should set safetybelt			
	85°	TT60-07	700	816	235	G255/30/100-185 × 700							
	90°	TT65-07	700	816	245	G255/30/100-155 × 700							
Straight ladder	90°	TT65-06	600	716	245	G255/30/100-155 × 600	T6	[12]	5m	1. If it is over 3m should set safetybelt			
		TT70-06	600	706	255	G255/30/100-125 × 600							
		TT75-06	600	706	265	G255/30/100-125 × 600							
Straight ladder	90°	TT80-05	500	596	300	1" Pipe	T6	[12]	5m	1. If it is over 3m should set safetybelt			
		TT85-04	400	485	300	3/4" Pipe							
		TT90-04	400	485	300	3/4" Pipe							

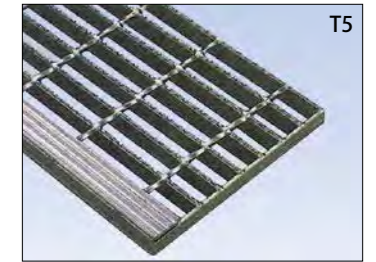
Stairtread



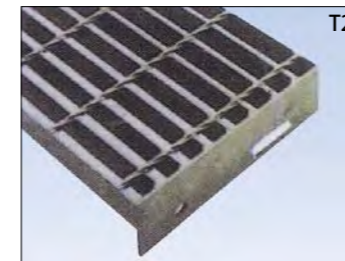
Welded fixing Without nosing



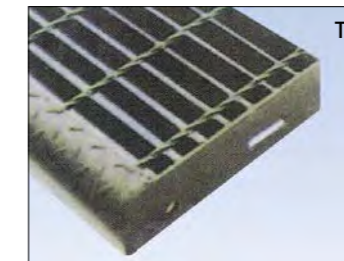
Welded fixing Checkered plate nosing



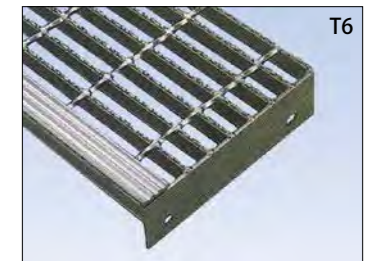
Welded fixing Bar steel nosing



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.

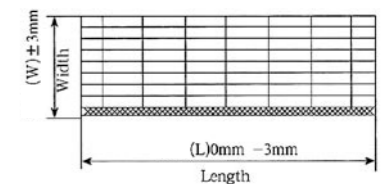
Stairtread data type

(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

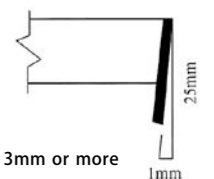
(mm)	Maximum Length			
Bearing bar	25 × 3	25 × 5	32 × 5	40 × 5
Bearing bars at 30mm pitch	550	900	1300	1600
Bearing bars at 40mm pitch	450	750	1200	1500
Bearing bars at 40mm pitch	---	550	850	1350

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

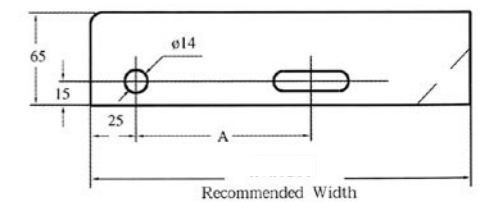
Stairtread tolerance



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 dimension 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/m<sup>2</sup>
- 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 increasing factor refers to YB/T4001-1998

## The Sheet of Concentrate bearing capacity of the Marked Area

**Pedestrian load capacity**  
Surface area/m<sup>2</sup> : 630kg

**heavy duty truck capacity**  
Single wheel touch area at 250×250mm: 3500kg

**car load capacity**  
Touch area at 120×120mm: 400kg

**medium-size truck capacity**  
Touch area at 200×200mm:1500kg

**Double wheel touch area at 250×500mm:6000kg (parallel to bearing bar)**

**Double wheel touch area at 500×250mm:6000kg(vertical to bearing bar)**

## Load Bearing Bar Pitch mm15

Type	Bearing bar	C.U.D. (kg/m <sup>2</sup> ) f.d. f.c.	(mm) Support net span																	Spacing	Weight (kg/m <sup>2</sup> )	
			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.	12650	7110	4560	3180	2100	1410	990	720	540	420	330	260	210	180	150	130	110	90	15×100	26.5
		f.d.	0.71	1.26	1.97	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.	0.93	0.11	0.27	0.56	1.04	1.78	2.85	4.37												
G252/15/100	25×2	C.U.D.	19790	11120	7140	4970	3650	2760	1940	1410	1060	820	650	510	420	340	290	250	210	180	15×100	32.4
		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.	0.47	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.	28540	16030	10290	7170	5270	4030	3200	2440	1830	1410	1120	890	730	600	500	430	360	310	15×100	38.2
		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.	0.55	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.	29690	16670	10700	7450	5480	4130	2920	2110	1590	1230	970	770	630	520	440	370	310	270	15×100	46.5
		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.	0.64	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.	42820	24050	15440	10750	7900	6050	4800	3650	2750	2120	1680	1340	1090	890	750	640	540	460	15×100	55.80
		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.	0.62	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.	76120	42750	27440	19110	14040	10750	8530	6860	5680	4780	3980	3160	2580	2120	1790	1520	1290	1100	15×100	73.3
		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.	0.23	0.72	0.82	1.46	2.36	3.57	2.24	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 <sup>2</sup> ) f.d. f.c.	(mm) Support net span																	Spacing	Weight (kg/m <sup>2</sup> )	
			300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900			2000
G202/22/38	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	19.9
		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		
		f.c.	0.05	0.16	0.40	0.83	1.54	2.83	4.19													
G252/22/38	25×2	C.U.D.	13490	7590	4850	3320	2470	1870	1320	970	730	550	430	350	290	240	200	170	140	120	22×38	24.0
		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	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	28.1
		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	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	36.2
		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	25×3	C.U.D.	20230	11380	7270	5060	3710	2810	2180	1670	1260	960	750	610	500	410	340	290	250	210	22×38	33.8
		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	1.24	0.13	0.28	0.52	0.89	1.42	2.17	3.16	4.54	6.27									
G303/22/38	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	39.8
		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	2.49	0.30	0.51	0.82	1.25	1.83	2.62	3.62	4.80	6.29							
G403/22/38	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	52.0
		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	1.07	1.86	2.98	0.38	0.61	0.94	1.37	1.97	2.72	3.60	4.71	6.12	7.88					
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	5740	5030	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	5.22	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	1.17	1.41	2.14	1.63	2.25	3.00	3.91	4.98	6.23	3.70	4.50	5.40	6.41	7.54	8.80		
G704/22/76	70×4	C.U.D.	211810	119140	76080	52950	38820	29790	23690	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 <sup>2</sup> ) f.d. f.c.	(mm) Support net span																	Spacing	Weight (kg/m <sup>2</sup> )
			300	400	500	600	700	800	900	1000	1100	1200	1300</								



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	25x3	C.U.D.	14910	8390	5350	3730	2740	2070	1480	1070	810	610	480	390	320	260	220	180	160	130	30x76	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											

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	20x2	C.U.D.	5620	3150	2010	1420	940	620	440	320	240	190	150	120	100	80	70	60	50	40	34x38	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															

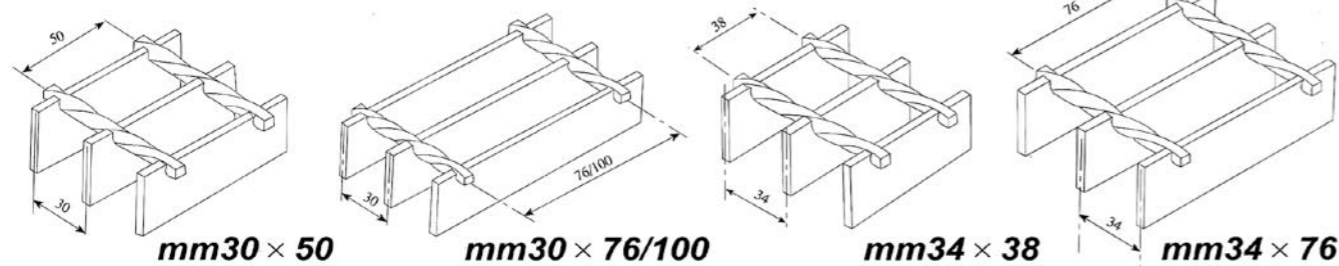


fences table

Type	Square hole mm	Bearing bar mm	Height mm	Column mm	Spacing mm	Weight kg/sqm
	60x130	≠ 30x4	930	≠ 80x8	2000	23.4
	60x130	≠ 30x4	1326	≠ 80x8	2000	22.5
	60x130	≠ 30x4	1722	≠ 80x8	2000	22.1
	60x130	≠ 30x4	2118	≠ 80x8	2000	21.8
	60x130	≠ 30x4	2514	≠ 80x8	2000	21.6
	120x130	≠ 25x3	930	≠ 60x8	2000	10.7
	120x130	≠ 25x3	1326	≠ 60x8	2000	10.0
	120x130	≠ 25x3	1722	≠ 60x8	2000	9.6
	60x130	≠ 25x3	930	≠ 60x8	2000	15.5
	60x130	≠ 25x3	1326	≠ 60x8	2000	14.7
	60x130	≠ 25x3	1722	≠ 60x8	2000	14.4
	60x130	≠ 25x3	2118	≠ 60x8	2000	15.0
	60x130	≠ 25x3	2514	≠ 60x8	2000	14.9
	60x65	≠ 25x3	930	≠ 60x8	2000	16.8
	60x65	≠ 25x3	1326	≠ 60x8	2000	16.0
	60x65	≠ 25x3	1722	≠ 60x8	2000	15.7
	60x65	≠ 25x3	2118	≠ 60x8	2000	16.3
	60x65	≠ 25x3	2514	≠ 60x8	2000	16.2



- Steel fences has many fields of appliance in municipal engineering, gardening, transportation and construction. It is widely used for fences, frames, etc. It has many advantages like beautiful looking ,good ventilation and easy construction, etc.
- Steel fence is available of many types of colorful painting coats.
- We can also supply non-standard grating as per customers' demands.



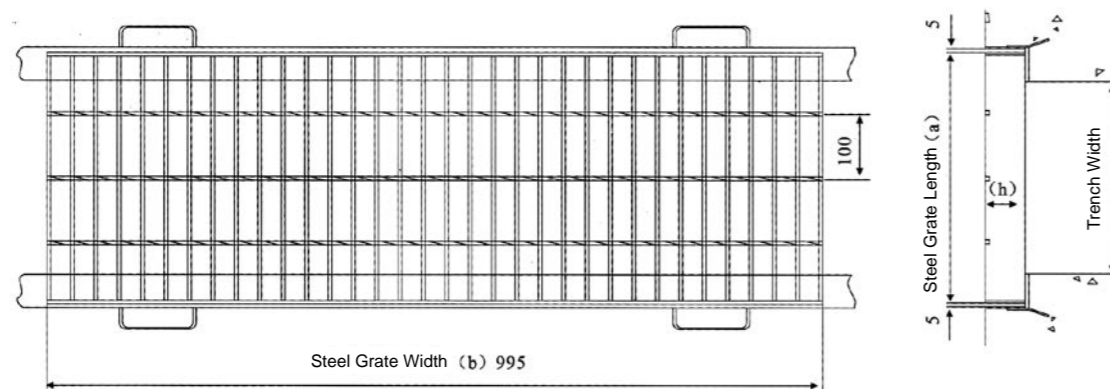
1. Grating trench cover is applied on walkway, carriageway, courtyard etc; used as cover for drainage trench, wire ditch, subway, and air pit. Hot-dip-galvanizing finish is used as antiseptic.
2. Grating trench cover is composed of fixed frame & movable grating. It can be classified to GT & GU according to structures.
3. Grating trench cover is used for catch basin, sand sediment trap, draining 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

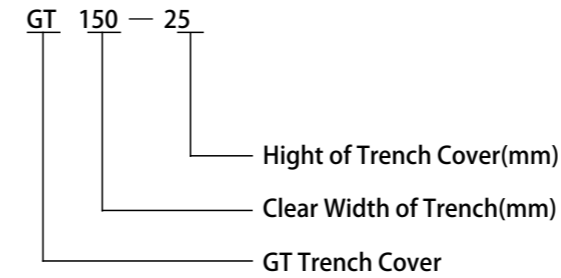
Class of load	Fully Laden(kg)	Back Singlo-wheel Load(KN)	Wheel-oressure Area a×b(mm²)
T-25	25,000	100	200×500
T-20	20,000	80	200×500
T-14	14,000	56	200×500
T-6	6,000	24	200×240
T-2	2,000	8	200×160

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

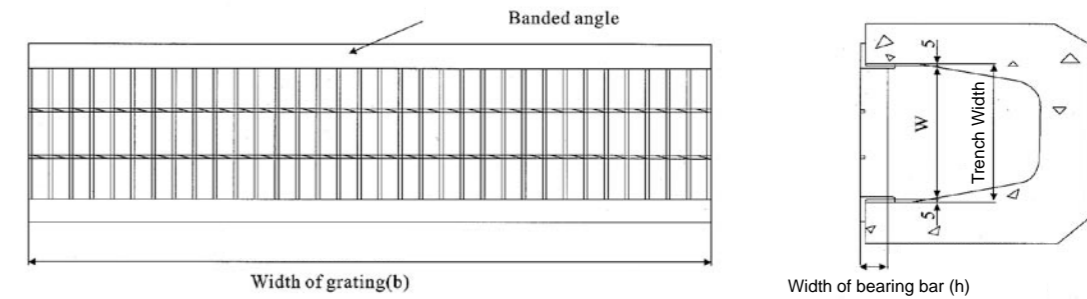
  

Trench Width	T-25 & Pedestrian Load			
	Type	Grating Size b×a×h	Weight	Seat angle
100	GT100-32	995×194×32	11.4	L56×36×4
120	GT120-32	995×214×32	12.9	L56×36×4
150	GT150-38	995×266×38	18.1	L70×45×7
180	GT180-45	955×260×45	20.9	L50×50×5
200	GT200-45	955×280×45	22.2	L50×50×5
240	GT240-45	955×320×45	25	L50×50×5
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

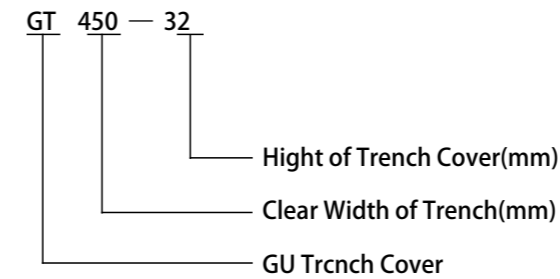
(Trench width & grating specification are in mm, & the unit of weight is kg/pc)

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

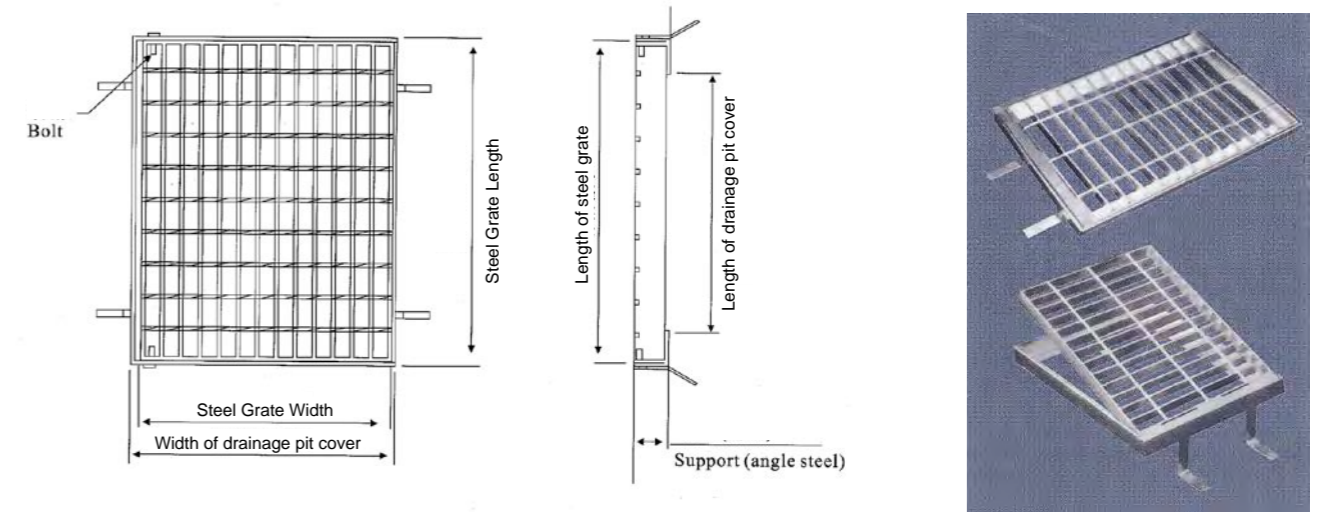
  

Trench Width	T-14 & Pedestrian Load			
	Type	Grating Size b×w×h	Banded Angle	Weight
100	GU100-25	995×90×25	L40×5	8.3
120	GU120-25	995×110×25	L40×5	9.3
150	GU150-25	995×140×25	L40×5	10.4
180	GU180-25	995×170×25	L40×5	11.4
200	GU200-32	995×190×32	L40×5	14
240	GU240-32	995×230×32	L40×5	16.1
300	GU300-45	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

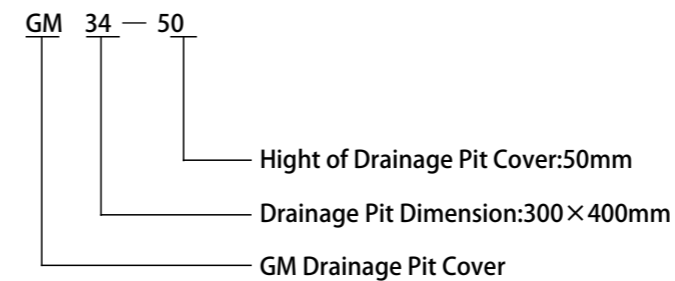
(Trench width & grating specification are in mm, & the unit of weight is kg/pc)

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
T-2	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
	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
T-2	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

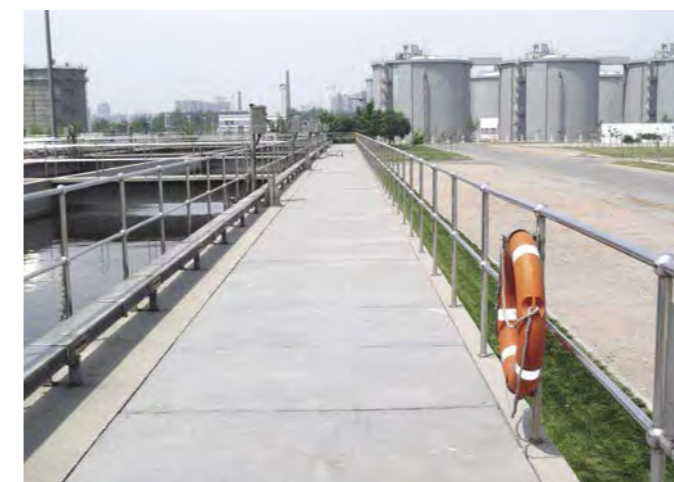
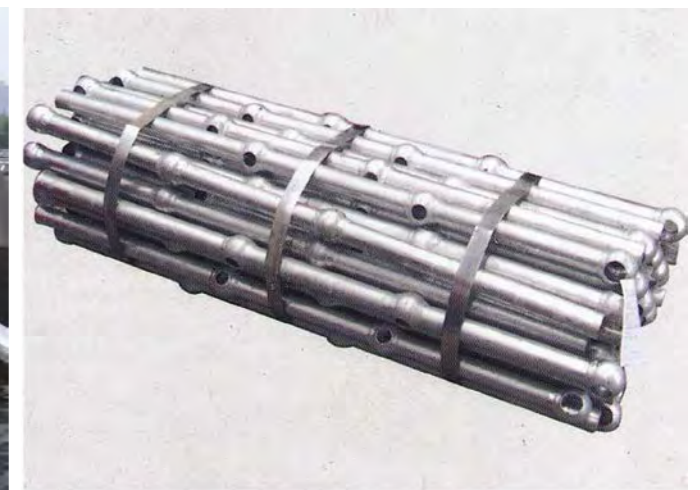
(Drainage pit, grating, & seat angle is in mm, & unit of weight is kg/pc)

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 Recommended Spans

Bearing Bar Size(mm)	Available for Maintenance Platform			Available for Pedestrian			Available for Crowded Pedestrian		
	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, Boiler 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 stair tread, 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.

