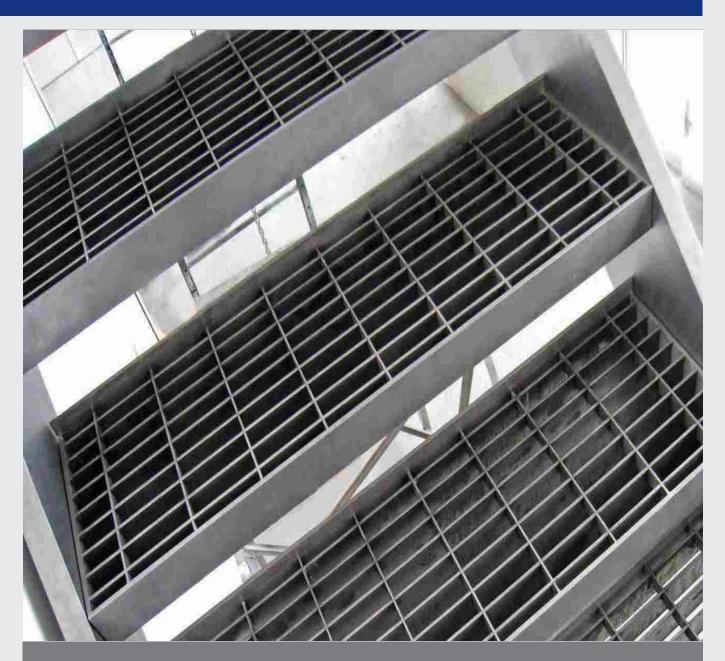


STEEL GRATINGS

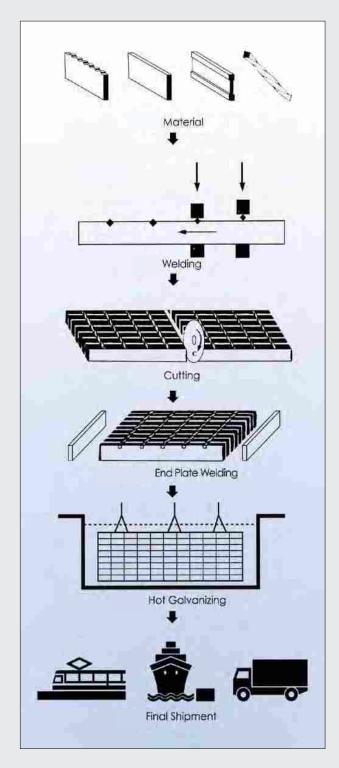


Product Details & Distribution

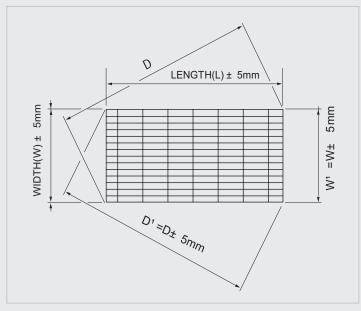


Manufacturing Process

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 weldingring which is controlled by computer. So we can produce high quality gratings with firm welding, smooth surface and high strength.



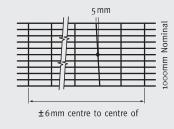
Size, Dimension and Tolerance

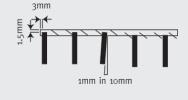


W and W1 are overall lengths of cross bars at opposite ends of panel.

D and D1 are overall diagonal dimensions

Cross Rod Alignment and Spacing Cross Bar Location and Bearing Bar

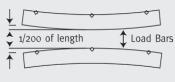




Transverse Bow

1/100 of width Load Bars 1/200 0

Longitudinal Bow

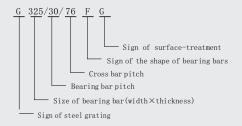




Email: info@kajworld.com

GI Steel Grating

Symbol of Steel Grating

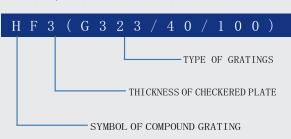


- 1. Bearing bar pitches may be 15 to 22, 25, 30, 32.5, 34, 40, 50, 60, 80, 90mm, of which 25, 30, 34 and 40mm are recommended.
- 2. Cross bar pitches may be 24-200mm, of which 50mm, 76mm and 100mm are $\frac{1}{2}$ recommended.
- 3. Sign of the shape of bearing bars: F-Plain style (may be omitted in the symbol of steel grating)
- S-Serrated style
- I-I-section style
- 4. Sign of surface-treatment:
- $\hbox{G-Hot galvanizing (may be omitted in the symbol of steel grating)}\\$
- 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 40 mm as base part and the checkered plate of the pitch $3\,mm$, $4\,mm$, $5\,mm$ and $6\,mm$ as cover. The most popular gratings as base parts are the types of G323/40/100, G253/30/100 and G323/60/100.







GI Steel Grating 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

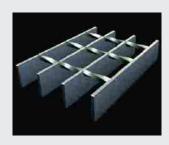
- Oil refinery
- Mining and refinery
- ♦ Power plant
- Pubilc utilties
- Marine engineering
- Shipbuilding
- Construction material industry
- ♦ Defense project
- ◆ Airport project
- ♦ Water plant
- Sewage disposal
- Paper and pulp industry
- Construction industry
- Transportation industry
- Automotive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

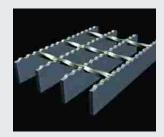
General Usage of Grating

- 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







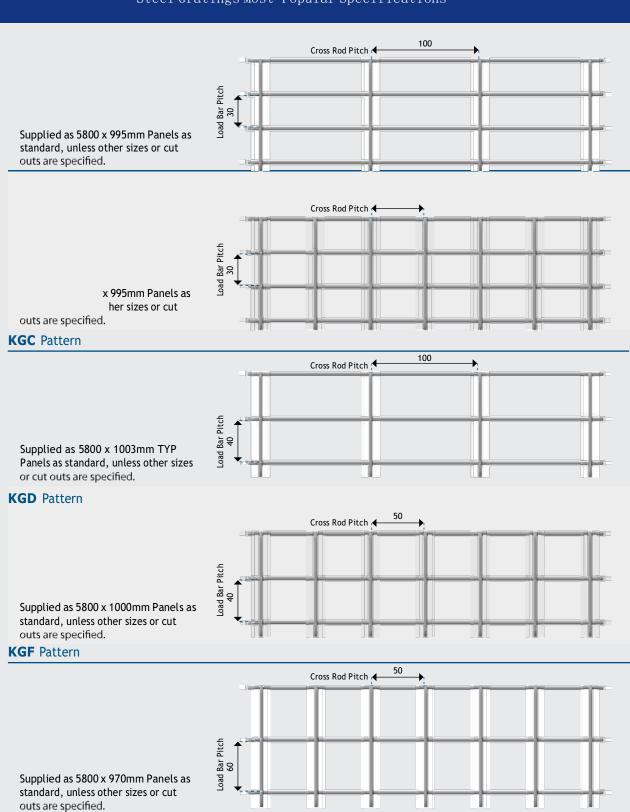


There are three kinds of steel gratings distinguished by different bearing bar types. The respective of features are as follows:

- 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





Surface Process of Gratings

Hot Galvanizing

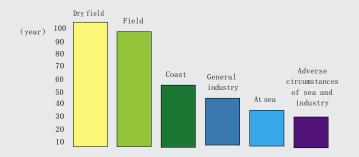
Normally, Hot galvanizing will be carried out after end welding process. When the thickness of bearing bars is not less than 5mm, the weight of average Zinc Layer will not be less than $610 \mathrm{g/m^2}$. When the thickness of bearing bars is less than 5mm, the weight of average Zinc Layer will not be less than $460 \mathrm{g/m^2}$. 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.

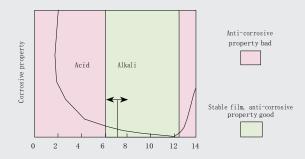






Table of safe load & general type of steel grating with bearing bar pitch at 30mm

THE SECOND	Width of bear- ing bar	Thickness of bearing bar	Nom Weight	Load and							m	m Cle	ar spar	1						
Туре	mm	mm	kg/m²	Dellacion	200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
G655/30/50W	ar.	1	103.4	U	3990 0.11	997	443 0.95	249	159 2.65	110 3.81	81 5.22	62 6.84	49 8.7	39 10.61	32 12.82	27 15.4	23 18.18	20	17 24.18	
G655/30/100W	65	5	100.4	C D	399	199	133	99 1.35	79 2.11	66 3.06	57 4.21	49 5.43	44 6.98	39 8.54	36 10.56	33 12.65	30 14.75	28 17.33	26 19.97	
G605/30/50W			95.9	U	3400	850 0.46	377 1.03	212 1.84	136 2.89	94 4.15	69 5.66	53 7.45	41 9.28	34 11.78	28 14.28	23 16.73	20	17 23.33		
G605/30/100W	- 60	5	92.9	C	340	170	113	85 1.48	68	56	48	42	37 7.84	34 9.49	30	28 13.71	26 16.31	24 18.98		
G555/30/50W			88.4	U	2856	714	317	178	114	79	58	44	35	28	23	19	16	10,50		
G555/30/100W	- 55	5	85.4	С	0.13 285	0.5	95	71	3.14 57	4.53	6.19	35	10.3	12.63	15.29 25	23	21.08			
G505/30/50W			80.9	U	0.1 2361	0.4 590	0.9	1.6	2.52 94	3.6 65	4.89	6.43	8.16	10.18	12.21	14.7	17,24			
G505/30/100W	50	5	77.9	D	0.14 236	0.55	1.24 78	2.2 59	3.45 47	4.97 39	6.82	8.78 29	11.39 26	13.86	16.88	20.28				
				U	0.11	0.44 354	0.99	1.77	2.77 56	3.99	5.39 28	7.11	9.14	11.18	13.7	16.26				
G503/30/50W	- 50	3	52.6	D	0.14	0.55 70	1.24	2.2	3.43	4.97	6.65	8.95	11.16 15	14.09	16.37					
G503/30/100W			49.6	D	0.11	0.44	0.99	1.75	2.75 76	3.92 53	5.45	6.97	8.82	11.37	13.14 15					
G455/30/50W	45	5	73.4	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			70.4	D	191	95 0.49	63 1.09	1.94	38	31 4.35	6.06	23 7.76	21 10.16		17 15.31					
G405/30/50W	40 5	65.9	D	1511 0.17	377 0.69	1.54	94 2.76	60 4.31	6.14	30 8.37	23 11.02	18 13,92	15 17.8							
G405/30/100W		į	62.9	D	151 0.14	75 0.55	1.23	2.17	3.46	25 5.01	21 6.73	18 8.69	16	15 14.39						
G403/30/50W	40 3	40 3	43.3	U D	906	226 0.69	100	56 2.74	36 4.32	25 6.25	18 8.39	14	11 14.21							
G403/30/100W			40.3	C	90 0.14	45 0.55	30 1.24	22 2.16	18 3.46	15 5.02	12 6.44	11 8.87	10 11.59							
G355/30/50W				58.4	U	1156	289	128	72 3.16	46 4.94	32 7.17	23 9.61	18 12.92	14 16.24						
G355/30/100W	35	5	55.4	C	115	57 0.62	38 1.4	28 2.46	23 3.97	19 5.7	16 7.69	14 10.14	12 12.52							
G353/30/50W			38.6	U	649	173	77	43	27	19 7.11	14	10	12.02							
G353/30/100W	35	3	35.6	С	69	34	23	17	13	11	9	8								
G325/30/50W			53.9	U	0.16 967	0.62 241	1.41	2.49 60	3.75	5.52 26	7.25 19	9.71 15	11							
G325/30/100W	- 32	5	50.9	C	96	0.86	1.94	3.44	5,35 19	7.64 16	10.42	14.13	16.81							
G323/30/50W			35.8	U	0.17 580	0.68	1.55 64	2.76 36	4.3	6,3 16	8.21	11.4	13.73							
	32	3		C	0.21 58	0.86	1.93	3.45	5.41	7.85 9	10.09	14.19 7								
G323/30/100W			32.8	D	0.17 590	0.69	1.53 65	2.69	4,16	5.93 16	8.44	11.15								
G255/30/50W	25	5	43.4	D	0.28 59	1.1	2.47	4.35	6.82	9.92	13.9									
G255/30/100W			40.4	D	0.22	0.87	1.93	3.39	5.25	7.5	10.71									
G253/30/50W	25 3	3	29.3	D	354 0.28	101	39 2.47	4.43	6.94	9.35										
G253/30/100W		26.3	D	35 0.22	0.85	1.86	3.24	5.58	5 7											
G205/30/50W	20 5	36	D	377 0.34	94	3.05	23 5.44	15 8.73	10 12.21											
G205/30/100W		33	C D	37 0.27	18 1.05	12 2.39	9 4.28	7 6.57	6 9.85											
G203/30/50W			24.6	U D	226 0.34	56 1.37	25 3.1	14 5.53	9 8.76											
G203/30/100W	20	3	21.6	C	22	11	7 2.32	5 3.98	4 6.3											



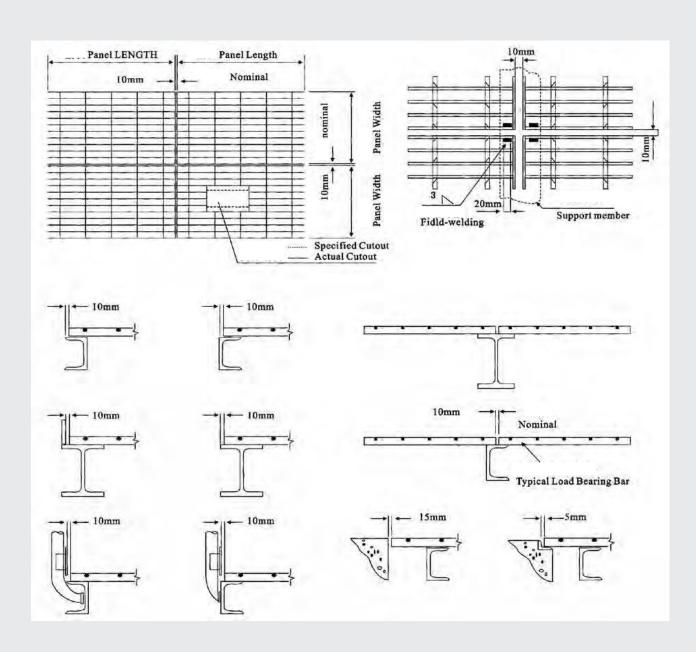
Table of safe load & general type of steel grating with bearing bar pitch at 40mm

	Width	Thickness	News Meight	Load a							r	nm Clea	rspan									
Туре	of bearing bar mm	of bearing bar mm	Nom Weight kg/m	and Deflection	200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000			
G655/40/50W			81.7	Ü	2992	748	332	187	119	83	61	46	36	29	24	20	1.7	15				
	65	65 5	-	C	299	0.42 149	0.95	7.7	2.65	3.84	3.93	6.78	8.54	10.54	12.84	15.25	17.97	21.46				
G655/40/100W			78.7	D	0.08	0.34	0.76	1.35	2.1	E0.E	4.14	5.47	6.99	8.49	10.58	12.32	15.1	17.39				
G605/40/50W		60 5	75.9	U D	2550 0.11	637	283	1.84	102	70 4.12	52 4.27	39 7.32	9.36	25 11.57	2117	16.54	20.21		-			
G605/40/100W	60		72.9	C	255	127	85	63	51	42	36	31	28	25	23	21	19					
G555/40/50W			70.1	U	2142	0.37 535	0.83	1.46	2.31 85	3.31 59	4.52 43	5,84	7.56 26	9.32	11.5	13.74	15.97					
	55	5		D	0.13	107	1.13 71	2 53	3.13	4.51 35	5.59	8.05	10:22	12.66	15.11	17.77		-	-			
G555/40/100W			67.1	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			64.2	D	0.14	0.55	196	110	70 3.43	49 5	36 5.12	27 8.79	21	17	14 16.64			-	-			
G505/40/100W	50	.5	61.2	C	177	88	59	44	35	29	25	22	19	17	16							
GLOCHWA TOOM			97.2	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	18000		42.6	U D	1062	265 0.55	118	66 2.2	42 3.43	29 4.99	21 8.71	16	13.49	10				-				
G503/40/100W	50	3	39.6	С	106	53	35	26	21	17/	15	13	11	10								
				D U	0.11	0.44	0.98	1.74	2.75 57	3.87	5.46	7.11	8.68	10.9	11			-	-			
G455/40/50W	45	E .	58.4	D	0.15	0.61	1.38	2.44	3.83	5.46	5.67	9.85	12.28	15.53	18.05							
G455/40/100W	45	2	5	5	55.4	C	143	71	47	35	28	23	20	17	15	14	13					
G405/40/50W	-	40 5	52.6	U	0.12	0.49 283	1.09	1.92 70	3.02 45	4.31	5.99 23	7.67	9.72	12.54	15.64							
G405/40/100W	40 5		49.6	C	0.17	0.69 56	1.54	2.74	4.32	6.2 18	6.42 16	10.88	13.45	17.47								
				D	0.14	170	1.22 75	2.19	3.39	4.82	6.85	9,02	11.13	14.13								
G403/40/50W	40 3	3	3	35.3	D	0.17	0.69	1.54	2.74	4.32	6.01	6.08	10.71	13.84								
G403/40/100W		1 525	32.3	C	0.14	34 0.55	1.21	17	13	4.92	6.45	8.64	7 10.9					-	-			
G355/40/50W						46.8	Ü	867	216	96	54	34	24	17	13	10						
	35	5	5	5	5	779	D	0.2 86	0.78	1.77	3.16 21	4.88	7.18	7.12	12.48	15.54 9				-	-	-
G355/40/100W			43.8	D	0.16	0.62	1.38	2.46	3.91	5.61	7.71	9.7	12.57									
G353/40/50W			31.6	U D	520	130	57	32	20	14	7.01	8 12:85						_				
	35	3		C	0.2 52	0.79	1.75	3:12	4.79	8	7.01	6						\vdash				
G353/40/160W			28.6	D	0.16	0.63	1.4	2.54	3.85	5.37	7.53	9.75										
G325/40/50W			43.3	U D	725 0.21	181 0.86	1.93	45 3.45	29 5.45	20 7.84	7.7	11 13.86					-	\vdash	-			
G325/40/100W	32	5	40.3	C	72	36	24	18	14	12	10	9										
SECTION TO THE SECTION OF SECTION			7 10-344	D	0.17	0.68	1.55	2.76	4.23	6.31	8.43	11.44					_	-	-			
G323/40/50W	32	3	29.4	D	0.21	0.86	1.93	3.45	5.34	7.86	7.37											
G323/40/100W	1625	9.	26.4	C	43 0.17	21 0.67	1.5	10 2.56	8 4.04	7 6.16	6 8.47											
Oper Approxi			25.4	Ü.	442	110	49	27	17	12	9											
G255/40/50W	25	5	35.1	D	0.27	1.1	2.48	4.35	6.74	9.94	10.46											
G255/40/100W			32.1	C	0.22	0.88	1.9	3.55	5.1	7.79	10:74											
G253/40/50W			24.3	U	265	66	29	16	10	7												
	25	.3		C	0.27	1,1	2.45	4,3	6.63	9.71												
G253/40/100W		21.3	D	0.22	0.87	1.81	3.24	5.33	7.48													
G205/40/50W	80	20 5	29.3	D	0.34	70 1.36	3.08	17 5.37	11 8.56	7 11.46												
G205/40/100W	20		26.3	C	28	1.09	9 2.39	7 4.44	5 6.29	4 8.84												
G203/40/50W			20.6	ij	170	42	18	10	6	OLI TATELL												
Control of the Paris Co.	20	3	=wiwi:	D	0.34	1,37	2.98	5.28	7.84													
G203/40/100W			17.6	D	0.28	1.04	2.22	4.25	6.32													



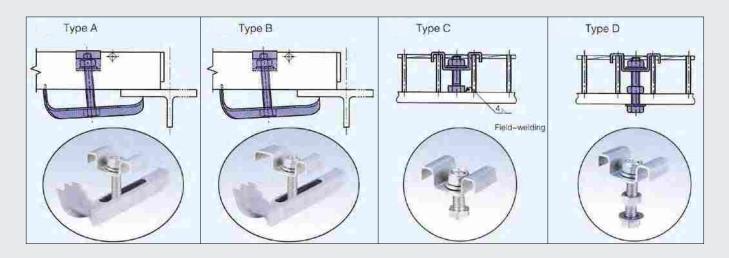
Installation of Steel Grating

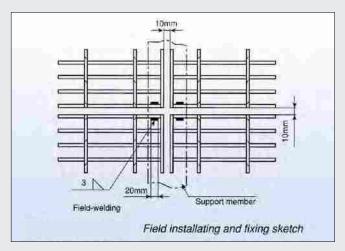
- 1. Welding & using saddle clips are two ways for installation of grating. The welding is suitable for those places where there is no need to move or dismental, for instance, the flooring around the machines. However, using saddle clips are featuring in easy installation & saving zinc layer.
- 2. Regarding 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 woule be better using more in the staddle for those gratings with a bigger span.

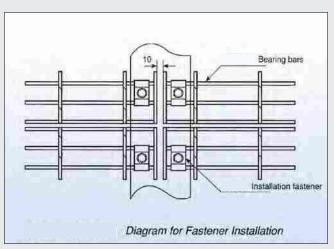




Installation Fastner











Stairway Series

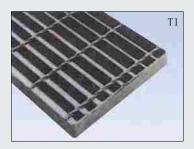
Stairway series cover a range of footstep from 30° to 90°. There is a management and production standards to make the stairways from raw materials, type and height of footsteps, specifications and banisters, etc. (refer to table). Furthermore, products could be made according to customer's requirements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



			Width	of ladder		Stairtread						
kınds	kinds Angle I	Type	Stairtread length	General width	Stairtread height	Specifications	Style	Materials	Limited height	Notes		
	30°	TT30-10	1000	1140	160	G325/30/100-305 × 1000						
	30-	TT30-09	900	1040	160	G325/30/100-305 × 900		F+0				
	35°	TT35-10	1000	1140	175	G325/30/100-305 × 1000		[18				
	30	TT35-09	900	1040	175	G325/30/100-305 x 900	T1					
	40°	TT40-10	1000	1130	185	G325/30/100-275 × 1000				1. 45°steel ladder is		
Stair	40-	TT40-09	900	1030	185	G325/30/100-275 × 900				recommended, handrail and column reserved.		
Oten		TT45-10	1000	1130	200	G325/30/100-245 × 1000				2. Choose freely from T1 to T6.		
		TT45-09	900	1030	200	G325/30/100-245 × 900	T2		E-m	 Set platforms and set ladders by stages if is more than 5m. Handrails with the ball-type 		
	45°	TT45-08	800	930	200	G255/30/100-245 x 800	12		5m			
		TT45-07	700	830	200	G255/30/100-245 × 700		FAC		column or square.		
		TT45-06	600	730	200	G255/30/100-245 × 600		[16		Column pitch is not more than 1.2m.		
		TT50-10	1000	1130	210	G325/30/100-215 × 1000	13					
		TT50-09	900	1030	210	G325/30/100-215 × 900	10					
	50°	TT50-08	800	930	210	G255/30/100-215 × 800						
		TT50-07	700	830	210	G255/30/100-215 × 700						
		TT50-06	600	730	210	G255/30/100-215 × 600	14					
Leaning	6 ED	TT50-08	800	916	225	G255/30/100-185 × 800	1-4					
ladder	55"	TT50-07	700	816	225	G255/30/100-185 × 700						
	60°	TT60-08	800	916	235	G255/30/100-185 × 800		64.4	E-m	 Set platforms and set ladders by stages if is more than 5m 		
	60-	TT60-07	700	816	235	G255/30/100-185 × 700	15	[14 a	5m	Handrails and ladders will be welded with 1 pipe or use		
	nce.	TT65-07	700	816	245	G255/30/100-155 × 700	1.0.			special column. 3. Column pitch is not more than		
	65°	TT65-06	600	716	245	G255/30/100-155 × 600				1m.		
Seizing	70°	TT70-06	600	706	255	G255/30/100-125 × 600		140		 T1 to T6. can be chose freely. 		
ladder	75°	TT75-06	600	706	265	G255/30/100-125 × 600	T6	[12	5m			
	80°	TT80-05	500	596	300	1" Pipe	18 (84)	11/2	9т			
Straight Iadder	85°	TT85-04	400	485	300	3/4" Pipe		11/4"	4.5m	 If it is over 3m should set safetybelt 		
ladder	90°	TT90-04	400	485	300	3/4* Pipe		11/4"	9m	saletypelt		

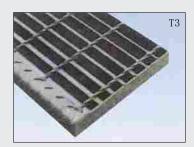


Stairtread



Welded fixing

Without nosing

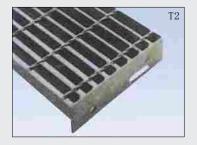


Welded fixing Checkered plate nosing



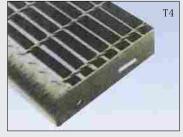
Welded fixing

Bar steel nosing

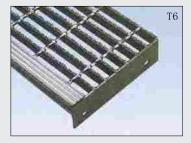


Bolted fixing

Without nosing



Bolted fixing Checkered plate nosing



Bolted fixing

Bar steel nosing

Note: Serrated stairtread can also be made according to customer's requirements.

Stairtread data type

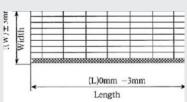
(mm)	Reco	mmende	dWidth					
T1-T6		125	155	185	215	245	275	305
30mm B	earing ba	rsat 30	mm pitch					
T1-T2	T5-T6	125	165		205	245	285	325
40mm B	earing ba	ars at 40	mm pitch					
T3-T4		115	155		195	235	275	315
40mm B	earing ba	ars at 40	mm pitch					
T1-T2	T5-T6			185		245		305
60mm B	earing ba	ars at 60	mm pitch					
T3-T4			155		215		275	
60mm B	earing ba	ırs at 60	mm pitch					
Spacin	g	45	75	75	100	100	150	150

(mm) Maximum Length

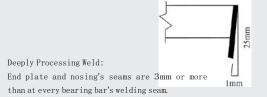
Bearing bar	25×3	25×5	32×5	40×5
Bearing bars at 30mm	pitch 550	900	1300	1600
Bearing bars at 40mm	pitch 450	750	1200	1500
Bearing bars at 40mm	pitch	550	850	1350

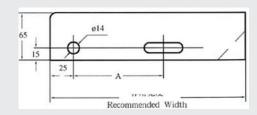
 $Notes: Stairtread\ may\ be\ made\ of\ any\ types\ of\ grating,\ the\ size\ may\ be\ up\ to\ non-standard\ specification.$

Stairtread tolerance



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





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



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GI Steel Grating

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- 1 6	псе	5 60	. U I	

Туре	Square hole mm	Bearing bar mm	Height mm	Column mm	Spacing mm	Weight kg/sqm
0	60×130	* 30×4	930	*80×8	2000	23. 4
	60×130	* 30×4	1326	*80×8	2000	22. 5
P. H.	60×130	* 30×4	1722	*80×8	2000	22. 1
	60×130	* 30×4	2118	*80×8	2000	21.8
(Po	60×130	* 30×4	2514	*80×8	2000	21. 6
1	120×130	* 25×3	930	*60×8	2000	10. 7
	120×130	* 25×3	1326	*60×8	2000	10.0
	120×130	* 25×3	1722	*60×8	2000	9. 6
^	60×130	* 25×3	930	*60×8	2000	15. 5
	60×130	* 25×3	1326	*60×8	2000	14. 7
MHII	60×130	* 25×3	1722	*60×8	2000	14. 4
	60×130	* 25×3	2118	*60×8	2000	15. 0
Per	60×130	* 25×3	2514	*60×8	2000	14. 9
//	60×65	* 25×3	930	*60×8	2000	16.8
	60×65	* 25×3	1326	*60×8	2000	16. 0
5	60×65	* 25 × 3	1722	*60×8	2000	15. 7
	60×65	* 25×3	2118	*60×8	2000	16. 3
113	60×65	* 25×3	2514	*60×8	2000	16. 2



- Steel fences has many fields of appliance in municipal engineering, gardening, transportion 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.
- \bullet We can also supply non-standard grating as per customers' demands.

