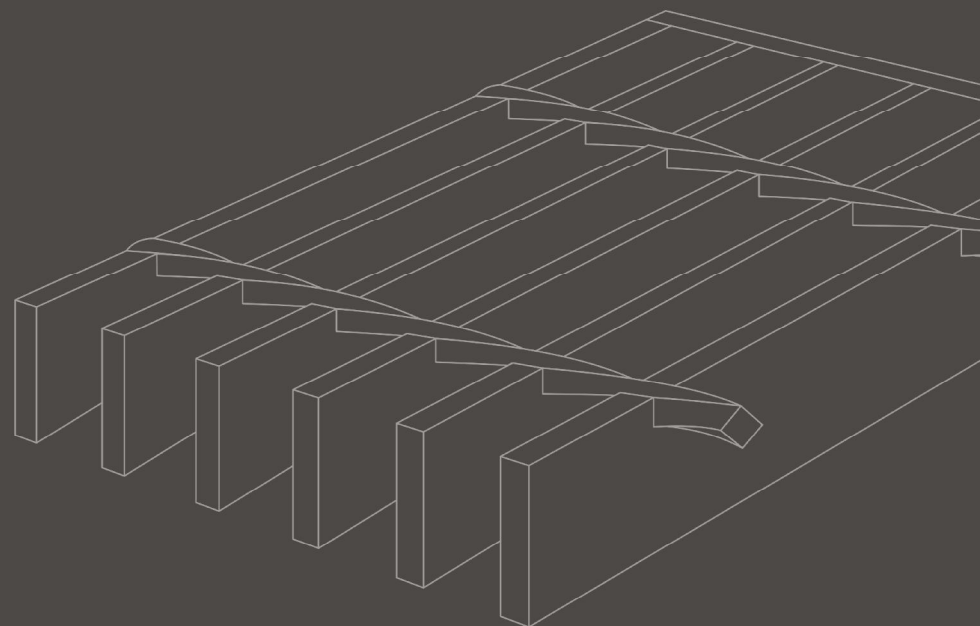




宁波九龙机械制造有限公司
**NINGBO JIULONG
MACHINERY
MANUFACTURING
CO.,LTD**



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九龙格栅板产品解决方案 JIULONG GRATING PRODUCT SOLUTIONS



VISION

公司愿景

致力成为钢格板市场的领导者，备受推崇的供应商，和优秀的企业公民。

To be the leader in steel grating market, the preferred supplier & a good corporate citizen.

MISSION

使命

融合全球经验，提供优质的钢格板产品和服务；
营造和谐氛围，促进员工与公司共同成长；
贡献先进理念，推动社会和钢格板行业进步。

To provide the top quality products & services with global expertise;
To build a harmonious environment for employees growing together with the company;
To contribute to the advancement of both industry & society.

CORE VALUE

核心价值观

正直诚信，团结协作，创业创新，客户至上。

Integrity, Team Work, Innovation, Customer Focused

BRIEF INTRODUCTION

公司简介

宁波九龙机械制造有限公司

是国内企业规模最大、产品种类最全、制造能力最强、出口量最大的钢格板企业之一。

宁波九龙机械制造有限公司地处港城宁波，距宁波栎社国际机场仅30分钟车程，距国际常年不冻不淤深水良港——宁波北仑港仅25分钟车程，地理位置优越。

公司始创于1992年，占地面积25000余平方米，厂房面积18000余平方米，拥有先进的设备、雄厚的技术力量、成熟的工艺以及十多年专业压焊钢格板的生产和管理经验，是为数不多的能从扁钢生产到镀锌钢格板成品加工的企业，是国内规模最大、产品最齐、能力最强、出口最多的钢格板厂家之一。现年产钢格板及其制品踏步板、沟盖板，以及钢梯、立柱、脚手架等7万余吨，年出口量达4万余吨，产品主要销往美洲、欧洲、澳洲及东南亚。在国内，公司的销售和服务网络已遍布全国各个省市，“龙踏”钢格板已在许多著名的大型工程项目上得到了广泛应用。而且，国内外一些标志性工程如澳大利亚悉尼观光码头、北京奥运会场馆、东海春晓油气田等也能见到龙踏钢格板的身影。

公司于2001年通过ISO9001:2000质量体系认证，拥有完善的质量控制体系和齐全的检验检测设备，为客户提供高质量的产品提供了保障。公司以规模降成本，以质量求发展，不断改进，追求卓越。凭借得天独厚的地理优势，作为中国钢格板行业的佼佼者，公司郑重向国内外广大客户承诺，“九龙机械将以最好的质量、最具竞争力的价格和最快的交货期赢得客户的满意。”



Ningbo Jiulong Machinery Manufacturing Co., Ltd (NJMM) is one of the leading manufacturers specializing in producing press-welded steel grating in China. Located in the famous port city —Ningbo, it has convenient traffic and superior location with only 30-minute drive to Ningbo Lishe International Airport and only 25-minute drive to Ningbo Port.

Founded in 1992, covering an area of 25000 square meters and with workshop area of 18000 square meters, NJMM has advanced equipments, full-fledged technology as well as rich manufacture and management experience in press-welded steel grating area over 10 years. NJMM is among the few leading manufacturers who have the entire production process from bearing bar to galvanized steel grating. Nowadays, NJMM, in the area of steel grating and related products, owns the largest scale, has the most product varieties, possesses the most powerful capability and achieves the largest export volume in China. The annual production capacity of steel grating, stair tread, trench cover, stanchion and scaffold is over 70000 tons, during which more than 40000 tons is for exporting.

NJMM markets its products mainly to USA, Chile, Peru, UK, Spain, Holland, Australia, New Zealand, Japan, Malaysia, Singapore, Thailand, etc. In domestic, its marketing and service scope has covered all provinces nationwide and widely applied to lots of renowned projects in China.

NJMM had got the ISO 9001-2000 Quality Management System Certificate in the year 2001 and owned integral quality control and inspection facilities as well as rich experience to provide high-quality products for customers.

With over 10 years' development, NJMM has become the most important steel grating production company in China. Owning to superior location and as the leading role played in steel grating in China, NJMM sincerely promises to all customers both at home and abroad, "we will try our best to satisfy our customers with the best quality, the most competitive price and the fastest delivery time."



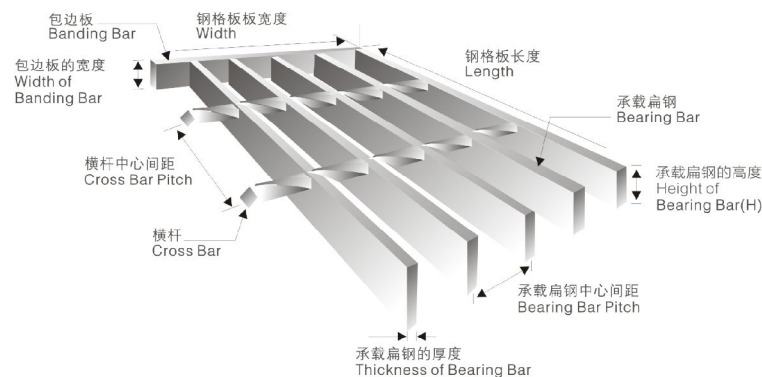
STANDARDS / 标准

钢格板标准Steel Grating Standard	钢材标准Steel Material Standard	热镀锌标准Hot-dip galvanized Standard
中国(China): YB/T4001.1-2007	中国(China): GB700-2006	中国(China): GB/T13912-2002
美国(America): ANSI/NAAMM	美国(America): ASTM(A36)	美国(America): ASTM(A123)
英国(England): BS4592	英国(England): BS4360(43A)	英国(England): BS729
澳大利亚(Australia): AS1657	澳大利亚(Australia): AS3679	澳大利亚(Australia): AS1650
欧洲(Europe): EN1090	欧洲(Europe): EN10025:1993	欧洲(Europe): EN ISO 1461

GENERAL INFORMATION OF STEEL GARTING

钢格板术语汇总

1. 承载扁钢 - 承受主要载荷的扁钢, 其方向与钢格板跨距方向一致。
Bearing bar - Load carrying bar made from slit sheet, extending in the direction of the grating span.
2. 扁钢中心距 - 相邻的两条承载扁钢中心到中心的距离。
Bearing bar pitch - The distance center to center of the bearing bars.
3. 横杆 - 固定于扁钢上的, 用于连接的扭钢、圆钢或扁钢等。
Cross Bar - The connecting bars, made from twisted bar, round bar or flat bar, which extend across the bearing bars.
4. 横杆中心距 - 相邻的两条横杆中心到中心的距离。
Cross bar pitch - The distance center to center of the cross bars.
5. 钢格板长度 - 平行于承载扁钢方向的钢格板最大尺寸。
Length - The maximum dimension of a grating panel, measured parallel to the bearing bars, & in the same direction as the bearing bars.
6. 钢格板宽度 - 垂直于承载扁钢方向的钢格板的最大尺寸。
Width - The maximum dimension of a grating panel, measured perpendicular to the bearing bars, & in the same direction as the cross bars.



BRIEF INTRODUCTION OF STEEL GRATING

钢格板定义

钢格板是一种由承载扁钢与横杆按照一定的间距正交组合, 通过焊接或压锁加以固定的开敞板式钢构件。

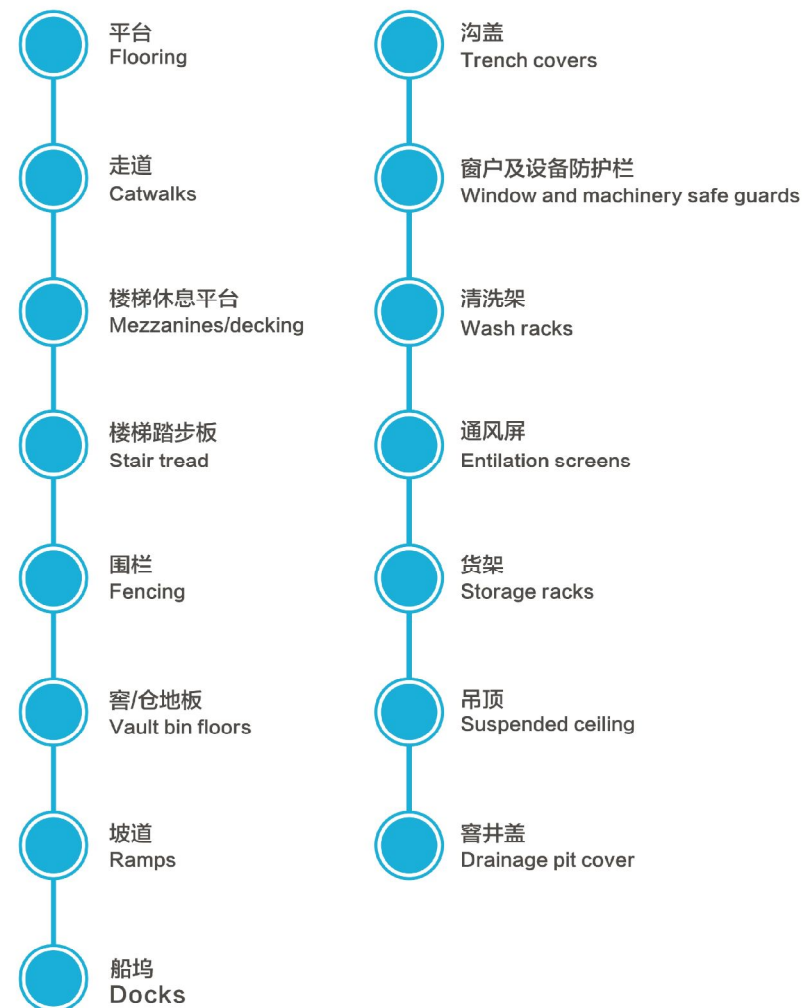
Steel grating is a kind of open steel member which the bearing bars & cross bars are jointed at their intersections by welding or locking.

FIELDS OF APPLICATION

应用领域

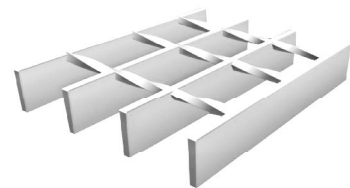


COMMON USES / 具体应用

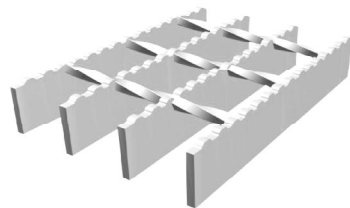


TYPE OF STEEL GRATING
钢格板类型

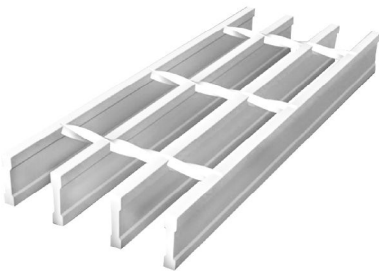
根据扁钢类型的不同，钢格板主要分为以下三类，其各自特点如下：(Comparison of Feature):



平面型：平面型钢格板是应用最广泛的钢格板之一，主要用于平台、走道、井盖、踏步板等。
Plain: One of the most widely used grating, available for flooring, sidewalk, drainage pit cover, stair tread, etc.



齿型：与平面型钢格板相比，齿型钢格板的防滑效果最好。
Serrated: Better non-skid property & safety comparing to plain grating.



工字型：与平面型钢格板相比，工字型钢格板具有重量轻，更加经济实用等特点。
I bar grating: lighter, more economical and practical comparing to plain grating.

RELATIONSHIP BETWEEN
NUMBER OF BEARING BARS
& NOMINAL WIDTH

常用钢格板扁钢条数与公称宽度表

扁钢条数	公称宽度(mm)Nominal Width			
NUMBER OF BEARING BARS	扁钢中心距(20mm) BEARING BAR PITCH	扁钢中心距(30mm) BEARING BAR PITCH	扁钢中心距(40mm) BEARING BAR PITCH	扁钢中心距(60mm) BEARING BAR PITCH
5	85	125	165	245
6	105	155	205	305
7	125	185	245	365
8	145	215	285	425
9	165	245	325	485
10	185	275	365	545
11	205	305	405	605
12	225	335	445	665
13	245	365	485	725
14	265	395	525	785
15	285	425	565	845
16	305	455	605	905
17	325	485	645	965
18	345	515	685	
19	365	545	725	
20	385	575	765	
21	405	605	805	
22	425	635	845	
23	445	665	885	
24	465	695	925	
25	485	725	965	
26	505	755	1005	
27	525	785		
28	545	815		
29	565	845		
30	585	875		
31	605	905		
32	626	936		
33	645	965		
34	665	995		
35	685			
36	705			
37	725			
38	745			
39	765			
40	785			
41	805			
42	825			
43	845			
44	865			
45	885			
46	905			
47	925			
48	945			
49	965			
50	985			
51	1005			

注：表中的钢格板宽度是按扁钢厚度5mm进行计算的。如果厚度为3mm，则应减去2mm。
Remark: The width of grating in the table is calculated according to the thickness of bearing bar 5mm, when the thickness of bearing bar is 3mm, the related nominal width should subtract 2mm.

MATERIAL / 材料

1. 扁钢和横杆均采用GB/T700的Q235制造，根据供需双方协议，也可采用其他材料制造。
Bearing bar & cross bar are Q235 standard which's in line with GB/T700. Other materials can also be used according to customer.

2. 扁钢采用热轧扁钢或经过纵剪的热轧或冷轧钢带。
Hot-rolled flat bar, hot-rolled strip or cold-rolled strip silt by slitting shears are available for bearing bar.

3. 扁钢尺寸允许偏差符合表一 YB/T4001.1-2007的规定。
Tolerance for the size of hot-rolled flat bar should be in accordance with the standard of YB/T4001.1-2007.

表1 扁钢尺寸允许偏差(Tolerance of bearing bar size) 单位为毫米

公称尺寸(Nominal Size)		允许偏差 (Tolerance)
厚度(Thickness)	3~16	+0.2 -0.4
	10~50	+0.3 -0.9
	>50~75	+0.4 -1.2
	>75~100	+0.7 -1.7
	>100~150	+0.8 -1.8

4. 齿型扁钢采用热轧扁钢或经过纵剪和冲齿的热轧或冷轧钢带。齿型尺寸如图1所示，在每100mm内不能少于5齿。
Serrated bars are usually hot rolled flat bar with serration or punching the serration on hot rolled strip or cold-rolled strip. The serration pattern see picture 1. There are min 5 teeth within 100mm length.

5. 工字型扁钢的截面尺寸及截面惯性矩符合图2和表2的要求。
The size of I section & processional moment of section should be in accordance with the following requirements.

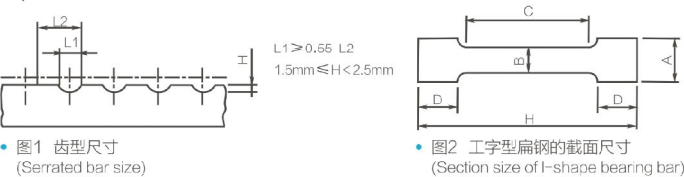


表2 工字型扁钢的截面尺寸及特性 (Section sizes & features of I-bar) 单位为毫米 (in mm)

型钢高度H Steel bar height		翼缘厚度A Width of flange		腹板厚度B Thickness of flank		腹板宽度C Width of flank		翼缘宽度d		截面抵抗矩W cm ³	截面惯性矩I processional moment of section cm ⁴	理论重量 Nom.Weight
公称尺寸 Nominal Size	允许偏差 Tolerance	公称尺寸 Nominal Size	允许偏差 Tolerance	公称尺寸 Nominal Size	允许偏差 Tolerance	公称尺寸 Nominal Size	允许偏差 Tolerance	公称尺寸 Nominal Size	允许偏差 Tolerance			
25	±0.4	5	±0.3	3	±0.3	14	4.5	±0.5	8	0.48	0.6	0.75
32						18	6			0.78	1.25	0.96
38						22	7			1.1	2.08	1.13
44						26	8			1.46	3.22	1.3
50	±0.5	7	±0.4	4	±0.3	31	8.5			1.84	4.61	1.46
50						31	8			2.57	6.43	1.98
55						35	8.5			3.09	8.49	2.16
60						37	10			3.72	11.22	2.39
65						42	10			4.29	13.96	2.55
75						48	12			5.7	21.39	2.96

GUIDE TO SELECTION OF STEEL GRATING

钢格板选择指引

除下表推荐的型号外，也可设计制作扁钢大于75×6mm的钢格板，用于超大载荷、超大跨距的工程。
Except for the recommended types below, the steel grating with the bearing bar size larger than 75×6mm can also be designed & produced for application in overload & super-span project.

轻型和中型载荷 LIGHT & MEDIUM DUTY 最大推荐跨距(mm)Maximum Recommended Spans(mm)

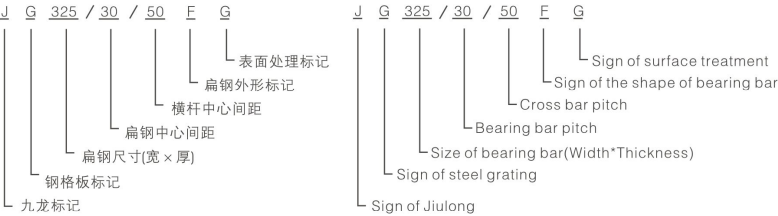
受荷扁钢尺寸 Load Bar Size(mm)	用于检修平台 Available in Maintenance Platform			用于行人较少的平台 Available in Pedestrian			用于行人密集的平台 Available in Crowded Pedestrian		
	均布荷载UDL=2.5kPa			均布荷载UDL=3kPa			均布荷载UDL=4kPa		
	挠度Deflection=5mm			挠度Deflection=5mm			挠度Deflection=5mm		
	扁钢间距Bearing bar pitch(mm)			扁钢间距 Bearing bar pitch (mm)			扁钢间距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	1360	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

重型载荷 HEAVY DUTY 最大推荐跨距 (mm) Maximum Recommended Spans(mm)

受荷扁钢尺寸 Load Bar Size(mm)	工厂、车间、电机房、手推车通道 Factory,Workshop, Motor Rooms & Trolley Channel						重载区域、锅炉设备和重型设备区域 Heavy Loading Area, Boiler Equipment & Heavy Equipment Area					
	均布荷载UDL=5kPa						均布荷载UDL=7.5kPa					
	挠度Deflection=5mm			挠度Deflection=10mm			挠度Deflection=5mm			挠度Deflection=10mm		
	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

SIGN OF STEEL GRATING

钢格板型号标记



1. 扁钢中心间距有12.5、15、20、22、23.85、25、30、30.16、30.3、32.5、34.3、35、35.3、40、41、41.4、60mm等。
2. 横杆中心间距有38、50、60、76、100mm，推荐采用50mm、100mm。
3. 扁钢外形标记：
F 表示平面型扁钢(在标记中可省略)；
S 表示齿型扁钢；
I 表示工字型扁钢；
4. 表面处理状态标记：
G 表示热浸镀锌(在标记中可省略)；
P 表示涂漆；
U 表示表面不作处理。

- 1.Bearing bar pitches may be 12.5, 15, 20, 22, 23.85, 25, 30, 30.16, 30.3, 32.5, 34.3, 35, 35.3, 40, 41, 41.4, 60mm.
- 2.Cross bar pitches may be 38,50,60, to 100mm, of which 50mm & 100mm are 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-shape style
- 4.Sign of surface treatment
G - Hot-dip galvanizing (may be omitted in the symbol of steel grating)
P - Painted
U - Untreated

TABLE OF SAFE LOAD & GENERAL TYPE OF STEEL GRATING WITH BEARING BAR PITCH AT 30 MM

表E1平面型扁钢中心间距为30mm 压焊钢格板常用型号及安全荷载表

型 号 Type	扁钢 宽度 mm Width of bearing bar	扁钢 厚度 mm Thickness of bearing bar	理论 重量 kg/m ² Nom. Weight	跨 距(mm) Clear Span															
				200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
JG655/30/50	65	5	103.4	U 3990	997	443	249	159	110	81	62	49	39	32	27	23	20	17	
JG655/30/100			100.4	C 399	199	133	99	79	66	57	49	44	39	36	33	30	28	26	
JG605/30/50	60	5	95.9	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	
JG605/30/100			92.9	U 3400	850	377	212	136	94	69	53	41	34	28	23	20	17		
JG555/30/50	55	5	88.4	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	23.23		
JG555/30/100			85.4	C 340	170	113	85	68	56	48	42	37	34	30	28	26	24		
JG505/30/50	50	5	80.9	D 0.09	0.37	0.83	1.48	2.31	3.3	4.52	5.93	7.48	9.49	11.23	13.71	16.31	18.98		
JG505/30/100			77.9	U 2856	714	317	178	114	79	58	44	35	28	23	19	16			
JG503/30/50	50	3	52.6	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			
JG503/30/100			49.6	C 285	142	95	71	57	47	40	35	31	28	25	23	21			
JG455/30/50	45	5	73.4	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			
JG455/30/100			70.4	U 2361	590	262	147	94	65	48	36	29	23	19	16				
JG405/30/50	40	5	65.9	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				
JG405/30/100			62.9	C 236	118	78	59	47	39	33	29	26	23	21	19				
JG403/30/50	40	3	43.3	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				
JG403/30/100			40.3	U 1416	354	157	88	56	39	28	22	17	14	11					
JG355/30/50	35	5	58.4	D 0.14	0.55	1.24	2.2	3.43	4.97	6.65	8.95	11.16	14.09	16.37					
JG355/30/100			55.4	C 141	70	47	35	28	23	20	17	15	14	12					
JG353/30/50	35	3	38.6	D 0.11	0.44	0.99	1.75	2.75	3.92	5.45	6.97	8.82	11.37	13.14					
JG353/30/100			35.6	U 1912	478	212	119	76	53	39	29	23	19	15					
JG325/30/50	32	5	53.9	D 0.15	0.61	1.38	2.45	3.83	5.56	7.62	9.73	12.44	15.76	18.39					
JG325/30/100			50.9	C 191	95	63	47	38	31	27	23	21	19	17					
JG323/30/50	32	3	35.8	D 0.12	0.49	1.09	1.94	3.07	4.35	6.06	7.76	10.16	12.72	15.31					
JG323/30/100			32.8	U 1511	377	167	94	60	41	30	23	18	15						
JG255/30/50	25	5	43.4	D 0.17	0.69	1.54	2.76	4.31	6.14	8.37	11.02	13.92	17.8						
JG255/30/100			40.4	C 151	75	50	37	30	25	21	18	16	15						
JG253/30/50	25	3	29.3	D 0.14	0.55	1.23	2.17	3.46	5.01	6.73	8.69	11.1	14.39						
JG253/30/100			26.3	U 906	226	100	56	36	25	18	14	11	10						
JG205/30/50	20	5	36.0	D 0.17	0.69	1.54	2.74	4.32	6.25	8.39	11.2	14.21							
JG205/30/100			33.0	C 90	45	30	22	18	15	12	11	10							
JG203/30/50	20	3	24.6	D 0.14	0.55	1.24	2.16	3.46	5.02	6.44	8.87	11.59							
JG203/30/100			21.6	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							
				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							
				U 694	173	77	43	27	19	14	10	10							
				D 0.2	0.79	1.77	3.14	4.84	7.11	9.77	12.03								
				C 69	34	23	17	13	11	9	8	8							
				D 0.16	0.62	1.41	2.49	3.75	5.52	7.25	9.71								
				U 967	241	107	60	38	26	19	15	12							
				D 0.22	0.86	1.94	3.44	5.35	7.64	10.42	14.13								
				C 96	48	32	24	19	16	13	12	11							
				D 0.17	0.68	1.55	2.76	4.3	6.3	8.21	11.4	16.81							
				U 580	145	64	36	23	16	11	9	10							
				D 0.21	0.86	1.93	3.45	5.41	7.85	10.09	14.19	13.73							
				C 58	29	19	14	11	9	8	7	7							
				D 0.17	0.69	1.53	2.69	4.16	5.93	8.44	11.15								
				U 590	147	65	36	23	16	12									
				D 0.28	1.1	2.47	4.35	6.82	9.92	13.9									
				C 59	29	19	14	11	9	8									
				D 0.22	0.87	1.93	3.39	5.25	7.5	10.71									
				U 354	85	39	22	14	9										
				D 0.28	1.1	2.47	4.43	6.94	9.35										
				C 35	17	11	8	7	5										
				D 0.22	0.85	1.86	3.24	5.58	7										
				U 377	94	41	23	15	10										
				D 0.34	1.37	3.05	5.44	8.73	12.21										
				C 37	18	12	9	7	6										
				D 0.27	1.05	2.39	4.28	6.57	9.85										
				U 226	56	25	14	9											
				D 0.34	1.37	3.1	5.53	8.76											
				C 22	11	7	5	4											
				D 0.27	1.07	2.32	3.98	6.3											
Loads calculated in accordance with an allowable bending stress 171.6Mpa. Load bars are assumed simply supported and unserrated steel with FY=260Mpa																			

TABLE OF SAFE LOAD & GENERAL TYPE OF STEEL GRATING WITH BEARING BAR PITCH AT 40 MM

表E2平面型扁钢中心间距为40mm 压焊钢格板 常用型号及安全荷载表

型号 Type	扁钢 宽度 mm Width of bearing bar	扁钢 厚度 mm Thickness of bearing bar	理论 重量 kg/m ² Nom. Weight	跨 距(mm) Clear Span															
				200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
JG655/40/50	65	5	81.7	U 2992	748	332	187	119	83	61	46	36	29	24	20	17	15		
JG655/40/100				D 0.11	0.42	0.95	1.7	2.65	3.84	5.33	6.78	8.54	10.54	12.84	15.25	17.97	21.46		
JG605/40/50	60	5	75.9	C 299	149	99	74	59	49	42	37	33	29	27	24	23	21		
JG605/40/100				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		
JG555/40/50	55	5	70.1	U 2550	637	283	159	102	70	52	39	31	25	21	17	15			
JG555/40/100				D 0.11	0.46	1.03	1.84	2.89	4.12	4.27	7.32	9.36	11.57	14.31	16.54	20.21			
JG505/40/50	50	5	64.2	C 255	127	85	63	51	42	36	31	26	25	23	21	19			
JG505/40/100				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			
JG455/40/50	45	5	55.4	U 2142	535	238	133	85	59	43	33	26	21	17	14				
JG455/40/100				D 0.13	0.5	1.13	2	3.13	4.51	4.69	8.05	10.22	12.66	15.11	17.77				
JG405/40/50	40	5	49.6	C 214	107	71	53	42	35	30	26	23	21	19	17				
JG405/40/100				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				
JG355/40/50	35	5	43.8	U 1770	442	196	110	70	49	36	27	21	17	14					
JG355/40/100				D 0.14	0.55	1.24	2.2	3.43	5	5.12	8.79	11.02	13.69	16.64					
JG325/40/50	32	5	40.3	C 177	88	59	44	35	29	25	22	19	17	16					
JG325/40/100				D 0.11	0.44	0.99	1.76	2.75	3.96	5.45	7.2	8.93	11.05	13.95					
JG323/40/50	32	3	29.4	U 1052	265	118	66	42	29	21	16	13	10						
JG323/40/100				D 0.14	0.55	1.24	2.2	3.43	4.94	4.99	6.71	11.4	13.40						
JG255/40/50	25	5	35.1	C 106	53	35	26	21	17	15	13	11	10						
JG255/40/100				D 0.11	0.44	0.98	1.74	2.75	3.87	5.46	7.11	8.66	10.9						
JG253/40/50	25	3	24.3	U 1434	358	159	89	57	39	29	22	17	14	11					
JG253/40/100				D 0.15	0.61	1.38	2.44	3.83	5.46	5.67	9.85	12.28	15.53	18.05					
JG205/40/50	20	5	29.3	C 143	71	47	35	28	23	20	17	15	14	13					
JG205/40/100				D 0.12	0.49	1.09	1.92	3.02	4.31	5.99	7.67	9.72	12.54	15.64					
JG203/40/50	20	3	20.6	U 1122	263	126	70	46	31	23	17	13	11						
JG203/40/100				D 0.17	0.69	1.54	2.74	4.32	6.2	6.42	10.88	13.45	17.47						
				49.6	C 113	56	37	28	22	18	16	14	12	11					
				35.3	D 0.14	0.54	1.22	2.19	3.39	4.82	6.85	9.02	11.13	14.13					
				32.3	U 680	170	75	42	27	18	13	10	8						
				32.3	D 0.17	0.69	1.54	2.74	4.32	6.01	6.08	10.71	13.84						
				32.3	C 68	34	22	17	13	11	9	8	7						
				46.8	D 0.14	0.55	1.21	2.22	3.34	4.92	6.45	8.64	10.9						
				43.8	U 867	216	96	54	34	24	17	13	10						
				43.8	D 0.2	0.78	1.77	3.16	4.88	7.18	7.12	12.48	15.54						
				31.6	C 86	43	28	21	17	14	12	10	9						
				31.6	U 520	130	57	32	20	14	10	8							
				28.6	D 0.2	0.79	1.75	3.12	4.79	7	7.01	12.85							
				43.3	C 52	26	17	13	10	8	7	6							
				43.3	D 0.16	0.63	1.4	2.54	3.85	5.37	7.53	9.75							
				40.3	U 725	181	80	45	29	20	14	11							
				29.4	D 0.21	0.86	1.93	3.45	5.45	7.84	7.7	13.86							
				26.4	C 72	36	24	18	14	12	10	9							
				26.4	D 0.17	0.68	1.55	2.76	4.23	6.31	8.43	11.44							
				35.1	U 435	108	48	27	17	12	8								
				32.1	D 0.21	0.86	1.93	3.45	5.34	7.86	7.37								
				32.1	C 43	21	14	10	8	7	6								
				32.1	D 0.17	0.67	1.5	2.56	4.04	6.16	8.47								
				32.1	U 442	110	49	27	17	12	9								
				32.1	D 0.27	1.1	2.48	4.35	6.74	9.94	10.46								
				24.3	C 44	22	14	11	8	7	6								
				21.3	D 0.22	0.88	1.9	3.55	5.1	7.79	10.74								
				21.3	U 265	86	29	16	10	7									
				21.3	D 0.27	1.1	2.45	4.3	6.63	9.71									
				29.3	C 26	13	8	6	5	4									
				29.3	D 0.22	0.87	1.81	3.24	5.33	7.48									
				26.3	U 283	70	31	17	11	7									
				26.3	D 0.34	1.36	3.08	5.37	8.56	11.46									
				20.6	C 28	14	9	7	5	4									
				20.6	D 0.27	1.09	2.39	4.44	6.29	8.84									
				17.6	U 170	42	18	10	6										
				17.6	D 0.34	1.37	2.98	5.28	7.84										
				17.6	C 17	8	5	4	3										
				17.6	D 0.28	1.04	2.22	4.25	6.32										
Loads calculated in accordance with an allowable bending stress 171.6Mpa. Load bars are assumed simply supported and unserrated steel with FY=260Mpa																			

TABLE OF SAFE LOAD & GENERAL TYPE OF STEEL GRATING WITH BEARING BAR PITCH AT 20 MM

表E3平面型扁钢中心间距为20mm 压焊钢格板常用型号及安全荷载表

型 号 Type	扁钢 宽度 mm Width of bearing bar	扁钢 厚度 mm Thickness of bearing bar	理论 重量 kg/m ² Nom. Weight	跨 距(mm) Clear Span															
				200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
JG605/20/50	60	5	138.3	U 5100	1275	566	318	204	141	104	79	62	51	42	35	30	26	22	
JG605/20/100				D 0.11	0.46	1.03	1.84	2.88	4.15	5.69	7.4	9.34	11.77	14.27	16.94	20.13	23.62	26.57	
			135.3	C 510	255	170	127	102	85	72	63	56	51	46	42	39	36	34	
				D 0.09	0.37	0.83	1.47	2.31	3.34	4.51	5.92	7.54	9.47	11.45	13.68	16.28	18.93	22.17	
JG555/20/50	55	5	127.3	U 4285	1071	476	267	171	119	87	66	52	42	35	29	25	21		
JG555/20/100				D 0.13	0.5	1.13	2	3.14	4.55	6.18	8.04	10.19	12.62	15.48	18.3	21.87	24.94		
			124.3	C 428	214	142	107	85	71	61	53	47	42	38	35	32	30		
				D 0.1	0.4	0.9	1.61	2.5	3.63	4.97	6.48	8.24	10.17	12.34	14.87	17.45	20.01		
JG505/20/50	50	5	116.3	U 3541	885	393	221	141	98	72	56	43	35	29	24	20			
JG505/20/100				D 0.14	0.55	1.24	2.21	3.45	4.99	6.82	8.93	11.25	14.03	17.14	20.24	23.45			
			113.3	C 354	177	118	88	70	59	50	44	39	35	32	29	27			
				D 0.11	0.44	0.99	1.76	2.75	4.02	5.43	7.18	9.12	11.32	13.88	16.49	19.69			
JG503/20/50	50	3	73.8	U 2125	531	236	132	85	59	43	33	26	21	17	14				
JG503/20/100				D 0.14	0.55	1.24	2.2	3.47	5.01	6.79	8.94	11.35	14.06	16.8	19.76				
			70.8	C 212	106	70	53	42	35	30	26	23	21	19	17				
				D 0.11	0.44	0.96	1.77	2.75	3.98	5.44	7.08	8.99	11.34	13.78	16.18				
JG455/20/50	45	5	105.2	U 2568	717	318	179	114	79	58	43	35	28	23	19				
JG455/20/100				D 0.15	0.61	1.38	2.46	3.83	5.53	7.55	9.83	12.59	15.57	18.74	22.13				
			102.2	C 212	143	95	71	57	47	40	35	31	28	25	23				
				D 0.12	0.49	1.1	1.95	3.07	4.4	5.98	7.95	9.99	12.48	15.55	18.98				
JG405/20/50	40	5	94.2	U 2266	566	251	141	90	62	46	35	27	22	18					
JG405/20/100				D 0.17	0.69	1.55	2.76	4.31	6.19	8.55	11.16	13.9	17.39	21.01					
			91.2	C 226	113	75	56	45	37	32	28	25	22	20					
				D 0.14	0.55	1.23	2.19	3.46	4.94	6.83	8.99	11.52	14.05	17.18					
JG403/20/50	40	3	80.3	U 1360	340	151	85	54	37	27	21	16	13						
JG403/20/100				D 0.17	0.69	1.55	2.77	4.31	6.16	8.37	11.18	13.76	17.18						
			77.3	C 136	68	45	34	27	22	19	17	15	13						
				D 0.14	0.55	1.23	2.22	3.46	4.9	6.77	9.11	11.55	13.89						
JG355/20/50	35	5	83.2	U 1735	433	192	108	69	48	35	27	21	17						
JG355/20/100				D 0.2	0.79	1.77	3.15	4.94	7.16	9.74	12.9	16.21	20.17						
			80.2	C 173	66	57	43	34	26	24	21	19	17						
				D 0.16	0.62	1.4	2.52	3.91	5.6	7.68	10.12	13.15	16.32						
JG353/20/50	35	3	53.5	U 1041	260	115	65	41	28	21	16	12	12						
JG353/20/100				D 0.2	0.79	1.77	3.17	4.9	6.98	9.75	12.77	15.51							
			50.5	C 104	52	34	26	20	17	14	13	11							
				D 0.16	0.63	1.39	2.54	3.84	5.67	7.49	10.45	12.75							
JG325/20/50	32	5	76.6	U 1450	362	161	90	58	40	29	22	17	14						
JG325/20/100				D 0.21	0.86	1.94	3.44	5.44	7.82	10.56	13.8	17.25	21.85						
			73.6	C 145	72	48	36	29	24	20	18	16	14						
				D 0.17	0.68	1.54	2.76	4.37	6.29	8.4	11.38	14.55	17.7						
JG323/20/50	32	3	49.4	U 870	217	96	54	34	24	17	13	10							
JG323/20/100				D 0.21	0.86	1.93	3.44	5.32	7.83	10.37	13.64	16.98							
			46.4	C 87	43	29	21	17	14	12	10	9							
				D 0.17	0.68	1.56	2.69	4.27	6.13	8.42	10.6	13.94							
JG255/20/50	25	5	61.1	U 885	221	98	56	35	24	18	13								
JG255/20/100				D 0.28	1.1	2.48	4.42	6.91	9.9	13.87	17.31								
			58.1	C 88	44	29	22	17	14	12	10	11							
				D 0.22	0.88	1.96	3.55	5.4	7.76	10.68	14.76								
JG253/20/50	25	3	39.9	U 531	132	59	33	21	14	10									
JG253/20/100				D 0.28	1.1	2.49	4.43	6.92	9.96	12.92									
			36.9	C 53	26	17	13	10	8	7									
				D 0.22	0.88	1.92	3.5	5.3	7.42	10.43									
JG205/20/50	20	5	50.1	U 566	141	62	35	22	15	11									
JG205/20/100				D 0.34	1.37	3.07	5.51	8.53	12.18	16.74									
			47.1	C 56	28	18	14	11	9	8									
				D 0.27	1.09	2.38	4.43	6.86	9.82	14.04									
JG203/20/50	20	3	33.1	U 340	85	37	21	13	9										
				D 0.34	1.38	3.06	5.52	8.42	12.22										
			30.1	C 34	17	11	8	6	5										
				D 0.28	1.11	2.43	4.23	6.27	9.16										
Loads calculated in accordance with an allowable bending stress 171.6MPa. Load bars are assumed simply supported and unserrated steel with FY=260MPa																			

TABLE OF SAFE LOAD & GENERAL TYPE OF STEEL GRATING WITH I-BAR PITCH AT 30 MM

表E4工字型扁钢中心间距为30mm压焊钢格板 常用型号及安全荷载表

型 号 Type	扁钢 宽度 mm Width of bearing bar	翼缘 厚度 mm Thick- ness of Flange	肋部 厚度 mm Thick- ness of Flank	翼缘 宽度 mm Width of Flange	理论 重量 Nom. weight kg/m ²	跨 距(mm) Clear Span															
						200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
JG757/30/50I	75	7	4	12	126.1	U 6460	1615	717	403	258	179	131	100	79	64	53	44	38	32	28	
JG757/30/100I					120.7	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	
JG657/30/50I						C 646	323	215	161	129	107	92	80	71	64	58	53	49	46	43	
JG657/30/100I	65	7	4	10	110.1	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	
JG657/30/50I					104.8	U 4862	1215	540	303	194	135	99	75	60	48	40	33	28	24	21	
JG607/30/50I						D 0.11	0.42	0.95	1.66	2.65	3.83	5.22	6.77	8.71	10.67	13.07	15.36	18.06	20.94	24.29	
JG607/30/100I	60	7	4	10	99.1	C 486	243	162	121	97	81	69	60	54	48	44	40	37	34	32	
JG557/30/50I					96.1	D 0.08	0.34	0.76	1.36	2.12	3.07	4.17	5.44	7	8.58	10.53	12.5	14.7	17.12	19.96	
JG557/30/100I						U 4216	1054	468	263	168	117	86	65	52	42	34	29	24	21	18	
JG507/30/50I	55	7	4	8.5	87.3	D 0.11	0.45	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	
JG507/30/100I					83.2	C 421	210	140	105	84	70	60	52	46	42	38	35	32	30	28	
JG505/30/50I						D 0.09	0.35	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	
JG505/30/100I	50	7	4	8	90.3	U 3502	875	389	218	140	97	71	54	43	35	28	24	20	17		
JG505/30/50I					87.3	D 0.13	0.5	1.13	2	3.15	4.53	6.17	8.03	10.25	12.82	15.11	18.44	21.32	24.55		
JG505/30/100I						C 350	175	116	87	70	58	50	43	38	35	31	29	26	25		
JG445/30/50I	44	5	3	8	83.2	D 0.1	0.4	0.9	1.6	2.52	3.62	4.98	6.42	8.13	10.32	12.29	14.98	17.23	20.83		
JG445/30/100I					80.2	U 2912	728	323	182	116	80	59	45	35	29	24	20	17			
JG445/30/50I						D 0.14	0.55	1.24	2.21	3.44	4.94	6.78	8.85	11.06	14.07	17.14	20.37	24.01			
JG445/30/100I	40	5	3	8.5	78.9	C 291	145	97	72	58	48	41	36	32	29	26	24	22			
JG445/30/50I					62.8	D 0.11	0.44	0.99	1.76	2.76	3.96	5.4	7.12	9.06	11.33	13.63	16.45	19.34			
JG445/30/100I						U 2085	521	231	130	83	57	42	32	25	20	17	14				
JG385/30/50I	38	5	3	7	75.7	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				
JG385/30/100I					59.8	C 208	104	69	52	41	34	29	26	23	20	18	17				
JG385/30/50I						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				
JG325/30/50I	32	5	3	6	56.5	U 1654	413	183	103	66	45	33	25	20	16	13					
JG325/30/100I					53.5	D 0.16	0.62	1.4	2.5	3.92	5.56	7.59	9.86	12.71	15.6	18.7					
JG325/30/50I						C 165	82	55	41	33	27	23	20	18	16	15					
JG325/30/100I	28	5	3	4.5	49.9	D 0.12	0.5	1.12	1.99	3.14	4.46	6.07	7.93	10.23	12.56	15.81					
JG325/30/50I					46.9	U 1246	311	138	77	49	34	25	19	15	12						
JG325/30/100I						D 0.18	0.73	1.64	2.89	4.51	6.52	8.93	11.64	14.82	18.22						
JG255/30/50I	25	5	3	4.5	43.3	C 124	62	41	31	24	20	17	15	13	12						
JG255/30/100I					40.3	D 0.14	0.58	1.3	2.33	3.55	5.13	6.98	9.25	11.53	14.72						
JG255/30/50I						U 884	221	98	55	35	24	18	13	10							
JG255/30/100I	22	5	3	4	40.3	D 0.21	0.86	1.94	3.44	5.37	7.68	10.74	13.34	16.6							
JG255/30/50I					35.1	C 88	44	29	22	17	14	12	11	9							
JG255/30/100I						D 0.17	0.69	1.53	2.76	4.19	6.01	8.24	11.36	13.42							
JG255/30/50I	20	5	3	4	32.1	U 544	136	60	34	21	15	11									
JG255/30/100I					32.1	D 0.28	1.1	2.47	4.45	6.75	10.06	13.77									
JG255/30/50I						C 54	27	18	13	10	9										
JG255/30/100I	18	5	3	4	32.1	D 0.22	0.88	1.98	3.41	5.17	8.09	10.13									
JG255/30/50I					32.1	C 54	27	18	13	10	9										
JG255/30/100I						D 0.22	0.88	1.98	3.41	5.17	8.09	10.13									

说明:

1. U 表示钢格板安全外加布荷载, kN/m²;
2. C 表示钢格板跨度中心线上垂直于承载扁钢方向的安全外加线荷载, kN/m;
3. D 表示钢格板在所列安全外加荷载作用下的最大挠度, mm;
4. 列出数据区域表示钢格板在2kN/m²的均布荷载作用下, 最大挠度小于4mm;
5. 理论重量表示热镀锌钢格板长度为1m时的重量。

Loads calculated in accordance with an allowable bending stress 171.6Mpa.
Load bars are assumed simply supported and unserrated steel with FY=260Mpa

TABLE OF SAFE LOAD & GENERAL TYPE OF STEEL GRATING WITH I-BAR PITCH AT 40 MM

表E5 工字型扁钢中心间距为40mm 压焊钢格板 常用型号及安全荷载表

型 号 Type	扁钢 宽度 mm Width of bearing bar	翼缘 厚度 mm Thick- ness of Flange	肋部 厚度 mm Thick- ness of Flank	翼缘 宽度 mm Width of Flange	理论 重量 Nom. weight kg/m ²	跨 距(mm) Clear Span															
						200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
JG757/40/50 I	75	7	4	12	101	U 4845	1211	538	302	193	134	98	75	75	59	48	40	33	28	24	
JG757/40/100 I					95.6	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	
JG657/40/50 I						C 484	242	161	121	96	80	69	60	60	53	48	44	40	37	34	
JG657/40/100 I	65	7	4	10	88.5	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	
JG657/40/50 I					83.2	U 3846	911	405	227	145	101	74	56	56	45	36	30	25	21	18	
JG607/40/50 I						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	
JG607/40/100 I	60	7	4	8	78.9	C 384	182	121	91	72	60	52	45	45	40	36	33	30	28	26	
JG557/40/50 I					75.9	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	
JG557/40/100 I						U 3162	790	351	197	126	87	64	49	49	39	31	26	21	18	16	
JG507/40/50 I	55	7	4	8.5	71.9	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	23.23	
JG507/40/100 I					68.9	C 316	158	105	79	63	52	45	39	39	35	31	28	26	24	22	
JG505/40/50 I						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	
JG505/40/100 I	50	7	4	8	66.4	U 2626	656	291	164	105	72	53	41	41	32	26	21	18	15		
JG445/40/50 I					63.4	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		
JG445/40/100 I						C 262	131	87	65	52	43	37	32	32	29	26	23	21	20		
JG385/40/50 I	44	5	3	8	60.4	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		
JG385/40/100 I					50.4	U 2184	546	242	136	87	60	44	34	34	26	21	18	15			
JG325/40/50 I						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			
JG325/40/100 I	38	5	3	7	63.4	C 218	109	72	54	43	36	31	27	27	24	21	19	18			
JG255/40/50 I					50.4	D 0.11	0.44	0.98	1.75	2.73	3.97	5.49	7.13	7.13	9.07	10.96	13.33	16.3			
JG255/40/100 I						U 1564	391	173	97	62	43	31	24	24	19	15	12				
JG225/40/50 I	32	5	3	6	47.4	D 0.14	0.55	1.23	2.19	3.43	4.95	6.64	8.8	8.8	11.22	13.5	16.05				
JG225/40/100 I					45.5	C 156	78	52	39	31	26	22	19	19	17	15	14				
JG165/40/50 I						D 0.11	0.44	0.99	1.76	2.75	4	5.4	7.01	7.01	8.88	10.96	13.72				
JG165/40/100 I	25	5	3	4.5	42.5	U 1241	310	137	77	49	34	25	19	19	15	12					
JG125/40/50 I					40.3	D 0.16	0.62	1.4	2.49	3.88	5.61	7.68	10.01	10.01	12.73	15.64					
JG125/40/100 I						C 124	02	41	31	24	20	17	15	15	10	12					
JG95/40/50 I	28	5	3	7	37.3	D 0.12	0.5	1.12	2.01	3.05	4.41	5.99	7.95	9.98	12.62						
JG95/40/100 I					35.1	U 935	233	103	58	37	25	19	14	14	11						
JG75/40/50 I						D 0.18	0.73	1.63	2.91	4.55	6.4	9.06	11.47	11.47	14.54						
JG75/40/100 I	25	5	3	4.5	32.1	C 93	46	31	23	18	15	13	11	11	10						
JG55/40/50 I					28.7	D 0.14	0.57	1.31	2.31	3.55	5.14	7.12	9.08	9.08	11.85						
JG55/40/100 I						U 663	165	73	41	26	18	13	10	10							
JG45/40/50 I	25	5	3	4.5	31.1	D 0.21	0.86	1.62	3.43	6.33	7.60	10.37	13.71	13.71							
JG45/40/100 I					25.8	C 66	33	22	16	13	11	9	8	8							
JG35/40/50 I						D 0.17	0.69	1.55	2.68	4.28	6.3	8.26	11.08	11.08							
JG35/40/100 I	25	5	3	4.5	25.8	C 48	102	45	26	16	11	8	8								
JG25/40/50 I					25.8	D 0.28	1.1	2.47	4.36	6.86	9.86	13.41									
JG25/40/100 I						C 40	20	13	10	8	6	5									
JG20/40/50 I	20	5	3	4	25.8	D 0.22	0.87	1.91	3.5	5.51	7.24	9.71									
JG20/40/100 I					C 36	18	12	9	7	6	5										

THE GENERAL TYPE OF HEAVY DUTY
STEEL GRATING & SAFE LOAD

表E6重荷载压焊钢格板常用型号及安全荷载表

型号 Type	扁钢 宽度 mm Width of bearing bar	翼缘 厚度 mm Thick- ness of Flange	横杆 尺寸 mm Cross bar size	理论 重量 kg/m ² Nom. Weight	跨 距(mm) Clear Span																			
					200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000					
JG1508/40/100	150	8	8X8	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					
JG1308/40/100	130	8	8X8	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					
JG1208/40/100	120	8	8X8	229.0	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					
JG1008/40/100	100	8	8X8	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	12.66					
JG908/40/100	90	8	8X8	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					
JG808/40/100	80	8	8X8	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	12.56	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					
JG758/40/100	75	8	8X8	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					
JG756/30/100	75	6	8X8	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					
JG756/40/100	75	6	8X8	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					
JG708/30/100	70	6	8X8	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	9.95	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					
JG708/40/100	70	6	8X8	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					
说明: 1. U 表示钢格板安全外加均布荷载, kN/m ² ; 2. C 表示钢格板跨度中心线上垂直于承载扁钢方向的安全外加线荷载, kN/m; 3. D 表示钢格板在所列安全外加荷载作用下的最大挠度, mm; 4. 列出数据区域表示钢格板在2kN/m ² 的均布荷载作用下, 最大挠度小于4mm; 5. 理论重量表示热镀锌钢格板长度为1m时的重量。																								
Loads calculated in accordance with an allowable bending stress 171.6Mpa. Load bars are assumed simply supported and unserrated steel with FY=260Mpa																								

MANUFACTURING
TOLERANCE
OF STEEL GRATING

钢格板公差

1、钢格板长度的允许偏差为 ± 0 mm, 宽度的允许偏差为 ± 5 mm。如图1所示

The allowable deviation of length is ± 0 mm, while the allowable deviation of width is ± 5 mm.

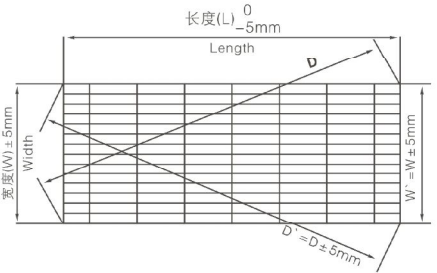


图1 钢格板长度、宽度和对角线偏差

3、承载扁钢的不垂直度应不大于扁钢宽度的10%，如图2所示。

The non-perpendicularity of bearing bar is not allowed to be more than 10% of width of bearing bar.

4、横杆位置偏差：横杆表面应不超出承载扁钢表面1mm；横杆两端通常应不超钢格板两侧端面2mm，如图2所示。

Position deviation of cross bar, the cross bar surface should not surpass bearing bar surface 1mm; the beginning & end of cross bar should not surpass the end surfaces of two sides of grating 2mm.

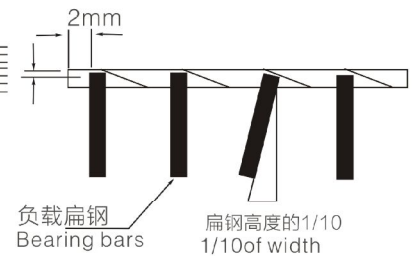


图2 承载扁钢、横杆的偏差

5、横杆偏斜及间距偏差：横杆边缘对钢板中心的偏斜应不大于5mm；如图5所示。在任意1500mm长度内，两端横杆间距的允许偏差为 ± 6 mm，如图3所示。

The lean of cross bar & deviation of range interval: the lean between grating center & cross bar edge should be equal or less than 5mm. In addition, the allowable deviation between the cross bars of both ends should come within ± 6 mm.

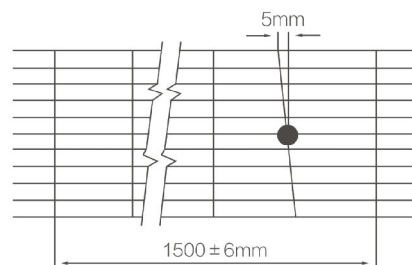


图3 横杆间距和垂直偏差

6、纵向弯曲：钢格板的纵向弯曲挠度应不大于长度的1/200，如图4所示。

Longitudinal bow: the deflection of longitudinal bow should be equal or less than 1/200 of grating length.

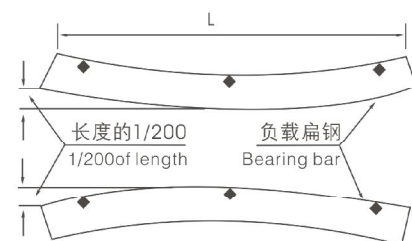


图4 纵向弯曲

7、横向弯曲：钢格板的横向弯曲挠度(在包边前)应小于宽度的1/100，如图5所示。

Transverse bow: the deflection of transverse bow (without end bar) should be less than 1/100 of grating width.

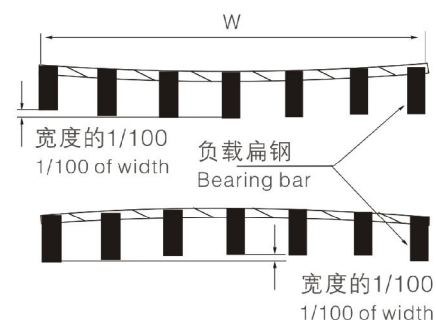


图5 横向弯曲

INSTALLATION OF STEEL GRATING

钢格板安装方法

1、钢格板的安装可用焊接和安装夹两种方法。焊接固定适用于永久不需拆卸的部位，如设备周围平台。而采用安装夹具有不破坏锌层及拆卸方便的特点。

Using fixing clips will be much easier to install and uninstall without destroying the zinc coating. The welding suitable for those places where there is no need to move or dismantling, for instance, the plat form machine.

2、焊接固定的方法是：在钢格板每个角第一根扁钢上，焊缝长不小于20mm，高不小于3mm的角焊。

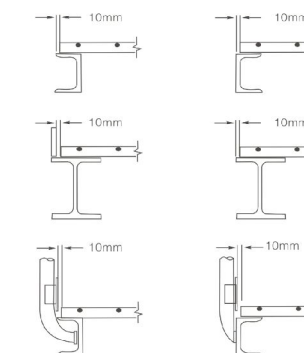
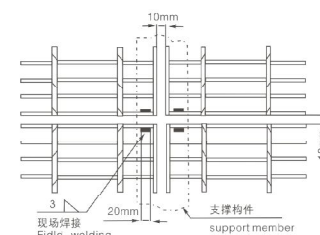
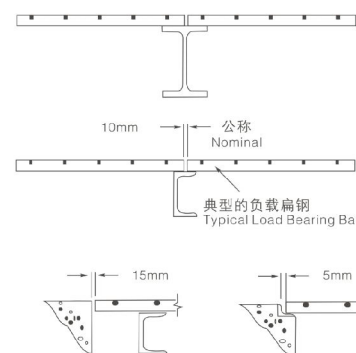
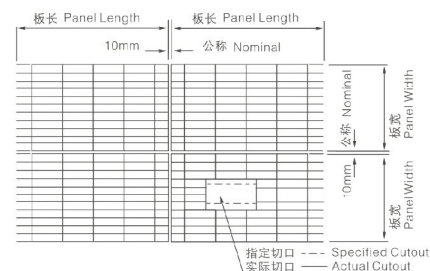
Regarding welding fixing, angle welding would be used at the first bearing bar of every corner, which the welding length is no less than 20mm, & the height is no less than 3mm.

3、安装夹适用于各种系列的钢格板，由上卡、下卡和M8螺栓组成。

Saddle clips are suitable for all kinds of steel gratings, composed of a top saddle, a bottom saddle & a M8 bolt.

4、采用安装夹固定的方法是：每块板至少采用四套安装夹，对跨距较大的板最好在可利用的支撑物上多安装几个。在订购安装夹时，请注明所需夹子的型号和数量。

Regarding using clip, four sets of clips would be used at least in one m₂ grating. It would be better to use more in the staddle for thoes gratings with bigger span.



SADDLE CLIPS FASTENING METHOD / 安装夹



• A型(Type A)

• B型(Type B)

• C型(Type C)

A型: 由一块带双钩的上压板, 一块带齿的下压板及一个M8的内六角螺栓组成。

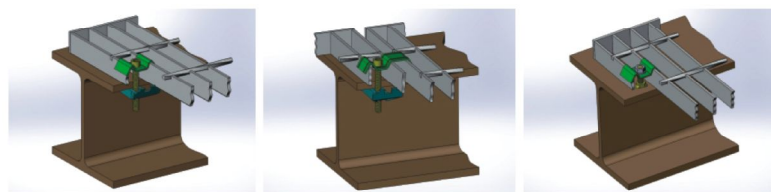
B型: 由一块带双钩的上压板(其中一个钩可将相邻的两块钢格板连接在一起), 一块带齿的下压板和一个M8的内六角螺栓组成。

C型: 由一块带双钩的上压板和一个可焊接在支撑构件上的M8的内六角螺栓组成。

Type A: composed of a top saddle a bottom saddle and M8 bolt.

Type B: composed of a top saddle a hook shaped bottom saddle and M8 bolt.

Type C: composed of a top saddle which can be welded to supporting structure and M8 bolt.



安装夹型号 Type of Saddle Clips			适用钢格板型号 Applicable for Steel Grating
A-30	B-30	C-30	扁钢中心间距(Bearing bar pitch) 30mm
A-40	B-40	C-40	扁钢中心间距(Bearing bar pitch) 40mm
A-60	B-60	C-60	扁钢中心间距(Bearing bar pitch) 60mm

SURFACE TREATMENT 钢格板表面处理

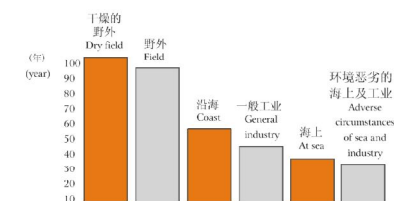
对钢格板的表面处理, 可采用热浸锌、涂漆或采用其他防腐涂层的处理方法。推荐采用热浸锌处理。

Regarding surface treatment, hot-dip galvanizing, paint or using other anti-corrosive paint are available.

NONCORROSIBILITY OF HOT-DIP GALVANIZING 热浸锌的防腐性能

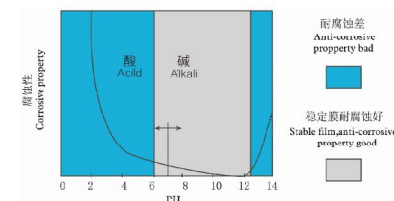
1. 锌层厚度100um的钢格板在各种环境中的预计使用寿命为:

The anticipated useful time of grating with the thickness of 100um hot-dip galvanizing coating is as follow.



2. 防酸碱腐蚀能力: 钢格板在PH6至PH12.5的范围内, 锌层表面形成稳定的保护膜, 耐磨蚀性能良好。

Within the environmental arrange from PH6 to PH12.5, the protective layer will be formed on the zinc coat, with good corrosion resistance.



AREA CALCULATION

钢格板面积计算

1、在没有图纸，按用户提供尺寸加工的，面积为实际交付钢格板数量乘以长度和宽度的总和，它包含开孔和切口部分。

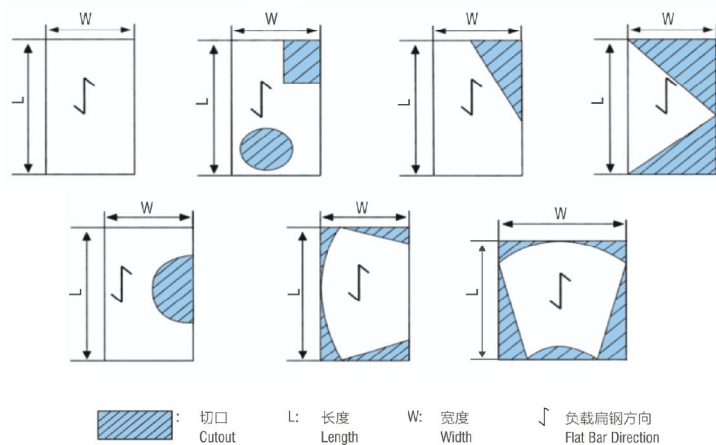
2、提供图纸代为用户进行钢格板平面布置设计的，面积按图纸上总的外围尺寸计算，它包含开孔和切口部分。

3、对异型钢格板，面积按全部块数的长(L) × 宽(W) 计算，不扣除切口部分。

1. When drawings not provided but the dimension offered by customers, the area shall refer the quantity of grating actually delivered multiplied by the sum of length and width, including trepannings and cutouts.

2. In case we offer drawings and design the layout sketch of grating for customers, the area should be calculated according to total external dimension in plans, including trepannings and cutouts.

3. Regarding special shaped gratings, the total area should be calculated based on all the pieces (length (L) times width(W)) furnished, with no deduction for cutouts



STAIR TREAD

踏步板

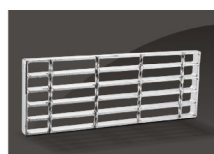
龙踏牌踏步板采用钢格板制做，广泛应用于各种钢结构楼梯，安装维修便利，牢固美观，不积水。踏步板尺寸可按客户需要指定。

Longta stair tread is made of steel grating, & widely used in all steel ladder. Featuring easy installation, strong structure & aesthetic appearance, & good water permeability. We can fabricate in accordance with cutomers' requirment.

TYPE OF STAIR TREAD / 踏步板型号

根据踏步板前护板和安装方式的不同共分八种型号。

There are 8 types of treads distinguished by different nosing & installation.

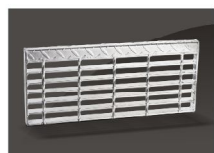


• JT1

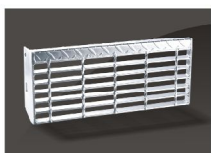


• JT2

踏步板型号 TYPE OF TREAD	前护板 NOSING	安装方式 Installation
JT1	无前护板 Without Nosing	焊接固定 Welding fixing
JT2	无前护板 Without Nosing	螺栓固定 Bolted fixing



• JT3



• JT4

踏步板型号 TYPE OF TREAD	前护板 NOSING	安装方式 Installation
JT3	花纹前护板 Checkered Plate Nosing	焊接固定 Welding fixing
JT4	花纹前护板 Checkered Plate Nosing	螺栓固定 Bolted fixing

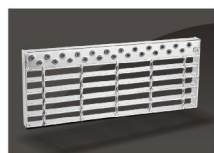


• JT5



• JT6

踏步板型号 TYPE OF TREAD	前护板 NOSING	安装方式 Installation
JT5	条纹前护板 Vertical Striped Plate Nosing	焊接固定 Welding fixing
JT6	条纹前护板 Vertical Striped Plate Nosing	螺栓固定 Bolted fixing



• JT7



• JT8

踏步板型号 TYPE OF TREAD	前护板 NOSING	安装方式 Installation
JT7	圆孔前护板 Perforated Plate Nosing	焊接固定 Welding fixing
JT8	圆孔前护板 Perforated Plate Nosing	螺栓固定 Bolted fixing

SIGN OF STAIR TREAD

踏步板型号标记

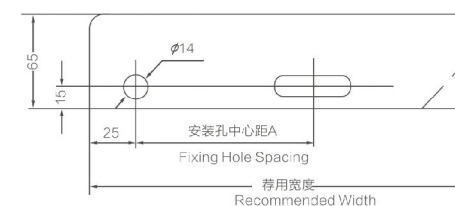


PACKING / 踏步板包装



螺栓固定式的踏步板侧板如图。踏步板宽度与安装孔中心距的关系见下表。

Regarding the side plate of tread, please see the below picture. And please check the chart to see the relation between width & hole pitch of tread.



侧板用65×5的扁钢，仅在客户需要时进行切角，以便安装（虚线为切角线）。
The side plate adopts 65x5 mm bearing bar. It's only mitred when requesting from customers.

扁钢中心距(mm) Bearing bar pitch	推荐宽度(mm) Recommended Width						
30	125	155	185	215	245	275	305
40	125	165	-	205	245	285	325
安装孔中心距(mm) Spacing of Fixing Hole	45	75	75	100	100	150	150



COMPOUND STEEL GRATING

复合钢格板

- 1、复合钢格板是由密封表面的扁豆形花纹板和具有一定横跨能力的钢格板组合而成。
- 2、复合钢格板可用任何一种型号的钢格板和不同厚度的花纹板构成。复合钢格板常用JG323/40/100, JG253/30/100或JG323/60/100的钢格板做底板、花纹板常用3mm厚的板，根据客户要求，也可用4mm、5mm或6mm厚的板。
- 3、复合钢格板经热浸锌处理后，因热应力会产生翘曲变形，尤其是选用较大型号钢格板，校平比较困难，请注意选型。



1. Compound steel grating is composed of chequered plate on sealed surface & steel grating with certain spanning capability.

2. Compound steel grating is formed of any type of steel grating and chequered plate in different thicknesses. The grating of JG323/40/100, JG253/30/100 or JG323/60/100 is widely used as support plate & the chequered plate with 3mm thickness is used as upper plate, while the plate of 4mm, 5mm or 6mm thickness may also be used based on customers' requirements.

3. As thermal stress may produce shape distortion for compound steel grating after hot-dip galvanizing treatment, especially when choosing heavy duty grating, it's not easy to flatten. So attention should be paid when choosing grating types.

SIGN OF COMPOUND STEEL GRATING

复合钢格板标记

JFH 3 (JG323/40/100)



JFH 3 (JG323/40/100)



DRAINAGE PIT /TRENCH COVER

钢格板沟盖及井盖

1. 钢格板沟盖用在人行道、车行道、庭院或建筑物的地面，作为水沟、管线沟、地下通道、风井、采光井、检查井等的盖板。钢格板沟盖防腐均采用热浸锌。

Grating trench cover used in walkway, carriageway, courtyard or other constructions. They are used as cover for drainage trench, wireway, subway, air pit, etc. Hot-dip-galvanizing is used for surface treatment.

2. 钢格板沟盖通常由固定的框和活动的钢格板盖板组成。根据结构不同分为GT型和GU型两种类型。

Grating trench cover is composed of fixed frame & removable grating cover. It can be noted as GT & GU in terms of different structures.

3.钢盖板井盖用在道路、园区等市政设施的雨水井、沉沙井、下水井、污水井等给排水井孔或气孔、人孔。井盖一般设计成可翻式，通常可翻的启闭角为110°。带铰销的钢盖板井盖不仅防盗而且简化了施工程序。

Grating pit cover used in catch basin, sand sediment trap, draining well, & sink hole for road, park & other civil projects. It's generally designed as the evertile type & its moving angle is 110°. The grating with pin joint is not only good at anti-theft but also simplify the construction procedure.



CLASS OF LOADING FOR DRAINAGE TRENCH/PIT COVER

沟盖荷载等级

荷载级别 Class of Load	车辆满载质量 (千克) Fully Laden(kg)	后单轮荷载 (kN) Back Single-wheel Load(KN)	轮压面积 a×b (mm2) Wheel-pressure 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

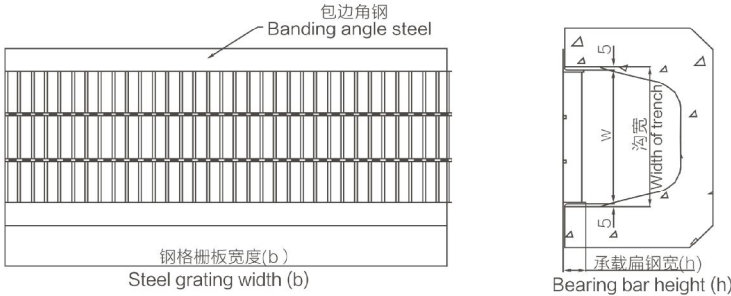
GU TRENCH COVER

GU型沟盖板

对于大多数普通混凝土砌制的无沿口沟，采用 U 型的沟盖非常简单与节约，不需要特殊的沟沿口。荷载 T-6、T-14 时，沟上沿口建议埋设角钢，同时亦可采用预制的 U 型沟砌块构筑水沟，有效防止污水向大地的渗漏。当需要过车时，GU 型沟盖板仅适用于侧沟。

As for most oral groove without edge made by concrete, it is very simple & saving, it's no need to make a special groove of trench.

The angle steel is suggested to be built in the top edge of trench when the load is in the range between T-6 to T-14. The prefab building blocks of GU trench cover is also available for making the trench which can prevent dirty water from leaking into the earth. But GU trench cover is just suitable for side ditch without heavy traffic.

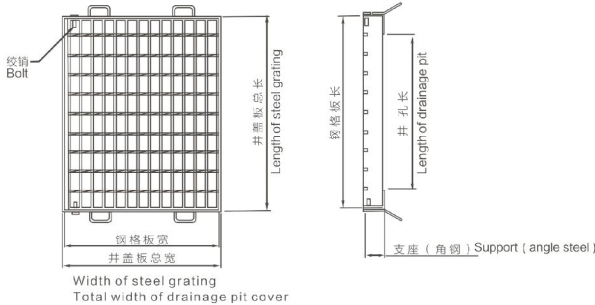


GM DRAINAGE PIT COVER

GM型井盖板

为了提高抗冲击能力，GM型井孔钢盖板一般采用横杆间距为50mm的钢格栅板来制造

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



GT TRENCH COVER

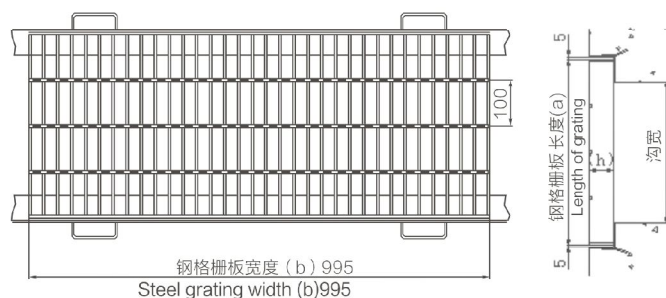
GT 型沟盖板

1. GT 型沟盖板适用于除公路外的道路场合，一般车流量不大。使用时考虑到盖板跳起的危险，应采用螺栓固定。适用于带支座沿口(T型沟)的沟上，沿口通常用角钢砌护。

GT trench cover is suitable for all roads, excluding highway. To avoid the danger arising from unclosing, screw should be used for fixing.

2. 钢格栅型号一般选用 JGxxx/30/100 型；也可采用其他型号。公共场所的钢格栅沟盖板，宜采用横杆间距为50mm的型号。采用齿形扁钢和工字型钢格栅沟盖，需由供需双方商定。

JGxxx/30/100 types of gratings are generally adopted, & other types of gratings are also available. The grating with 50mm cross bar pitch is suitable for those trench covers used in public place. If serrated & I-bar gratings are needed, it should be subject to final decision made by supplier & buyer.



RAILING & STANCHION

栏杆立柱

九龙扶手栏杆结合国标YB/T4001.2—2007钢栏杆设计，采用球接式，栏杆为普通钢，经热浸锌处理。栏杆坚固耐用、安装方便、美观新颖，热浸镀锌处理后防腐性能优异。广泛应用于造船厂、桥梁工程、发电厂，石化，钢铁厂，污水处理厂，自来水厂，园林，市政道路，机场码头等工业及建筑工程。

According to YB/T4001.2—2007, Jiulong Ball-joint Railing is designed by ourselves. Q235 or other steel grades are available, & hot-dip galvanizing is for surface treatment. Featuring robustness, convenient installation, elegant appearance, it's widely used in shipyard, bridgework, power plant, petrochemicals, iron & steel works, sewage treatment plant, waterworks, gardens, municipal roads, airports, wharfs, etc. Products can be manufactured as per customer's requirements and specifications.

SURFACE TREATMENT

扶手栏杆表面处理

对栏杆扶手的表面处理，可采用热浸锌、涂漆或不处理三种方法。推荐用热浸锌处理。

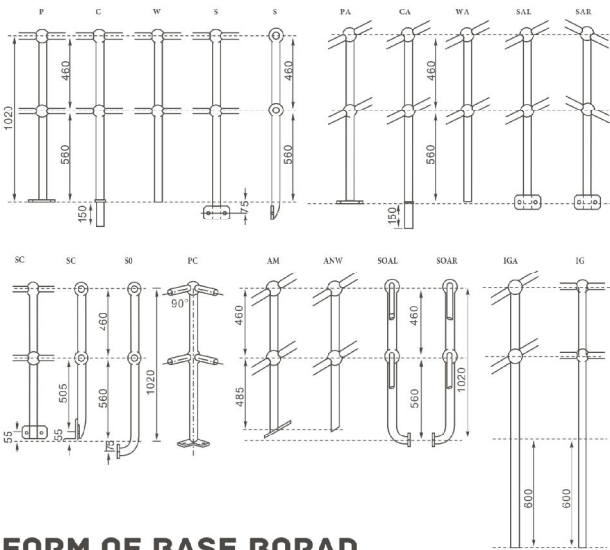
Regarding surface treatment, the hot-dip galvanized, painted & untreated are available, of which the hot-dip galvanized is recommended.

TYPE OF JIULONG STANCHION

九龙立柱型号

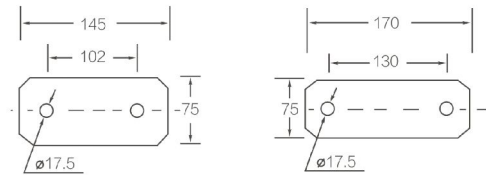
我们能生产并提供给客户以下18种栏杆立柱，公司也可根据客户的特殊要求进行定做。

The following 18 types of stanchions can be manufactured for customers.



FORM OF BASE BORAD

立柱底板形式



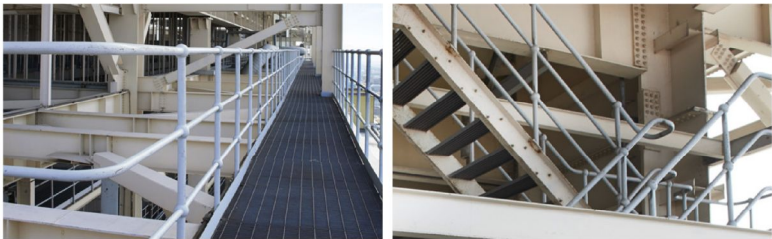
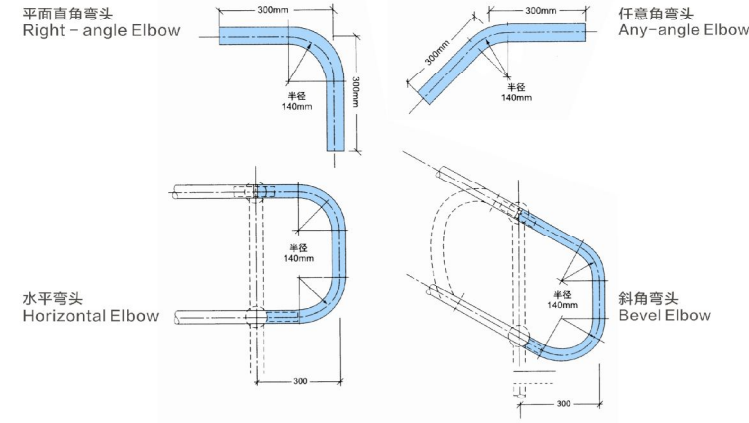
RELATIONSHIP BETWEEN RAILING & STANCHION POST

栏杆型号与立柱关系

立柱 Stanchion		栏杆 Railing	
球直径 Ball diameter	立柱直径 Stanchion diameter	扶手型号 Type of Handrail	横杆型号 Type of Transverse Lever
66	42.3	33.5 × 3.25 L=6000mm	26.8 × 2.75 L=6000mm
78	48	42.3 × 3.25 L=6000mm	33.5 × 3.25 L=6000mm

- 注：1.立柱间距以1米为宜。
1 meter of distance is recommended between two stanchions.
- 2.立柱与栏杆的固定推荐采用自攻螺栓。
Tapping screw is recommended for railing installation.

FORM OF ELBOW / 弯头

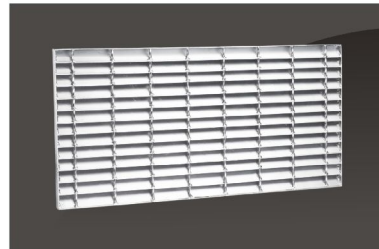


NEW PRODUCT DISPLAY

其它产品展示



围栏
FENCE



防眩晕钢格板
ANTIDINIC STEEL GRATING



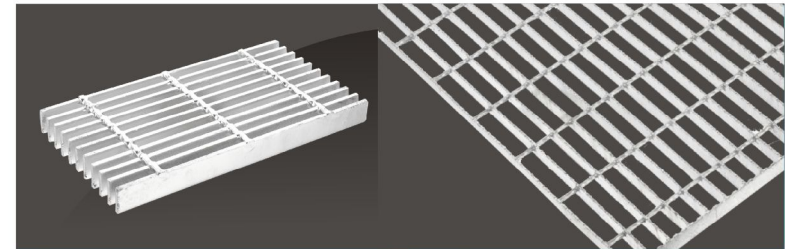
旋转踏步板
ROTATING STEP



加强型钢格板
SAFETY
STEEL GRATING

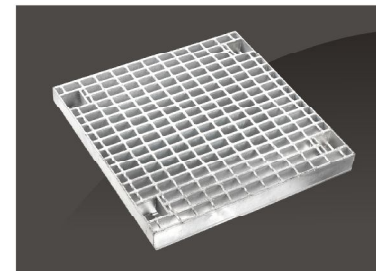


圆钢型钢格板
ROUND ROD STEEL
GRATING

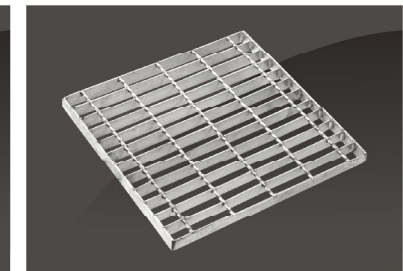


加密型钢格板
ANTI-HEEL GRATING

中间穿圆钢
ROUND BAR LOCK TYPE STEEL
GRATING



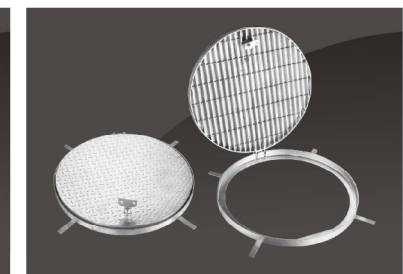
工字滚花扁钢钢格板
I BAR GRATING



不锈钢钢格板
STAINLESS STEEL GRATING



大规格钢格板
HEAVY DUTY GRATING



窨井盖
MANHOLE COVERS

BP (CHINA BRANCH) PROJECT

BP (中国分公司) 项目



BASF CHEMICAL PROJECTS

巴斯夫化工项目



SINOPEC ZHENHAI ETHYLENE PROJECT IN NINGBO

宁波镇海炼化乙烯项目



NINGBO WANHUA POLYURETHANE PROJECT

宁波万华聚氨酯项目

