



大和格栅

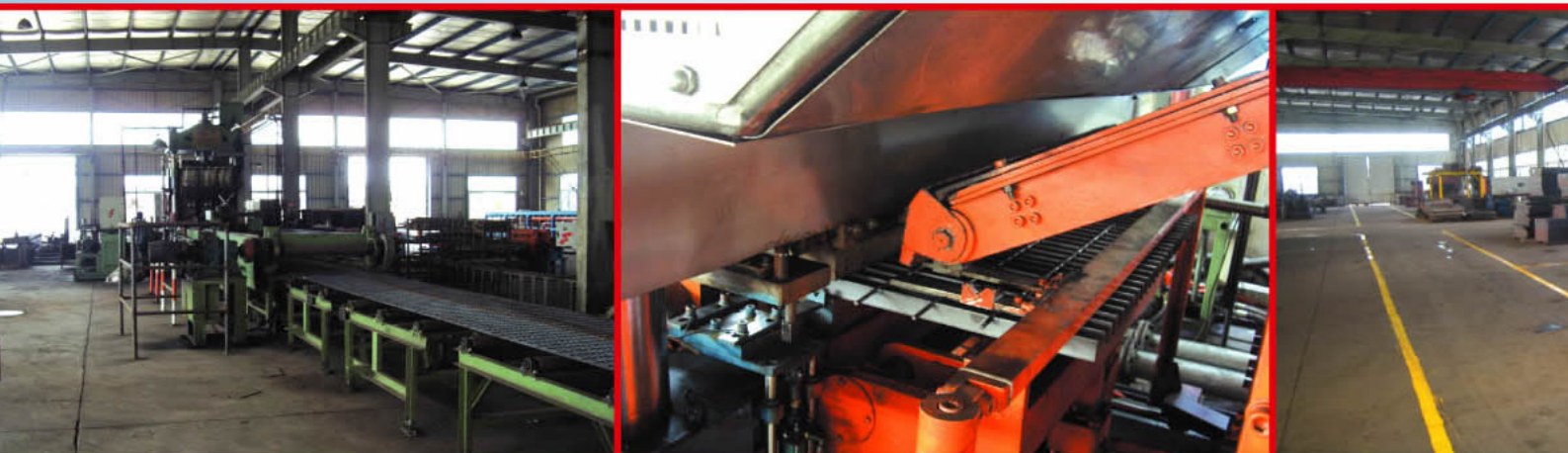
上海大和钢格板厂有限公司

上海大和格栅板实业有限公司

Shanghai DAHE Grating Co., Ltd.



2008年版



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上海大和格栅板实业有限公司暨上海大和钢格板厂有限公司创立于1994年，坐落于上海市宝山区杨行工业园内。作为中国首家获得ISO-9002质量体系国际认证的钢格板专业制造商，上海大和积近20年的专业经验，全面参与了中国钢格板行业标准的起草与制定工作，并是2007版行业标准的起草单位。我们为客户提供全面的工业平台、围栏、沟盖等解决方案，主要产品包括：各类钢格栅板、钢梯、踏步板、各类沟盖板、各类钢栏杆、各类围栏护栏等。

目前上海大和占地35亩，拥有厂房面积9000余平米，办公面积近2000平米，员工近200人。现有现代化的全自动压焊生产线3条，钢格栅板的年生产能力逾50万平米，产品完全符合中国行业标准YB/T4001.1-2007标准，并可生产符合全世界各主要国家标准的钢格栅板，如美国NAAMM、德国DIN、英国BS、澳大利亚AS等。

多年来在社会各界的支持下，大和牌钢格栅板已成为国内的著名品牌，上海大和也成长为长三角地区的行业龙头。公司产品获得了社会广泛的认可，并成为中国化工部钢格栅板产品的定点企业、中国电力企业联合会会员单位及其装备分会的理事单位、上海钢结构协会会员单位。

“用户至上、质量第一，大和产品、负责到底”既是上海大和的一贯宗旨，也是我们对客户的郑重承诺。

“大和”精神包含着天和、地和、人和的儒家传统理念。

Shanghai DAHE Grating Co., Ltd. (SDG), founded in 1994, locates in Yanghang Industrial Park, Baoshan Shanghai. As the first ISO9002 international certified professional grating supplier in China, SDG participated China Grating Standard drafting and instituting, and is member of drafting committee of China Grating Standard version 2007. With more than 15 years professional experiences, we offer our customers full solutions for industrial platform, fencing and trench covering. Our main products include: all kinds of steel bar grating, steel stairway, grating tread, all types of trench and ditch cover, steel handrail system and fencing system.

SDG has workshop more than 9,000 m², office 2,000 m² and about 200 employees. With 3 sets of modern automated forge welding machine, our steel bar grating fabrication capacity is more than 500,000 square meters per year. Our products accord with China Grating Standard YB/T4001.1-2007. Plus, we can also produce grating according almost all grating standards world wide, such as NAAMM (USA), DIN, BS, AS, etc.

Nowadays, DAHE brand grating is one of most famous in China, and SDG obtains leadership in East China area. We were granted lots of honors by our customers such as, Pointed Supplier of Grating by China Chemical Industry Ministry, Member of China Electricity Council, etc.

Our international references linked to the professionalism of our employee make SDG a leading company on a world-wide level.



应用领域 Application



因其经济、耐用、美观、通风透光、易于安装等诸多优点，大和格栅广泛用于各种工矿企业及民用领域，其主要用途有：

- 人行走道、平台的铺板
- 各种沟渠、池体的盖板
- 围栏、护栏或是开放空间的分隔栏
- 楼梯踏步板
- 室内或室外的水平分割元素，如采光栅
- 工业选料栅板或是拦污栅栏

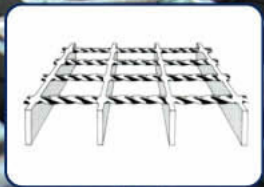
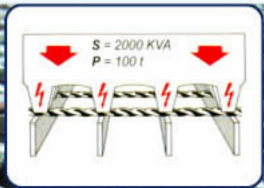
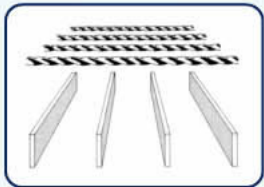
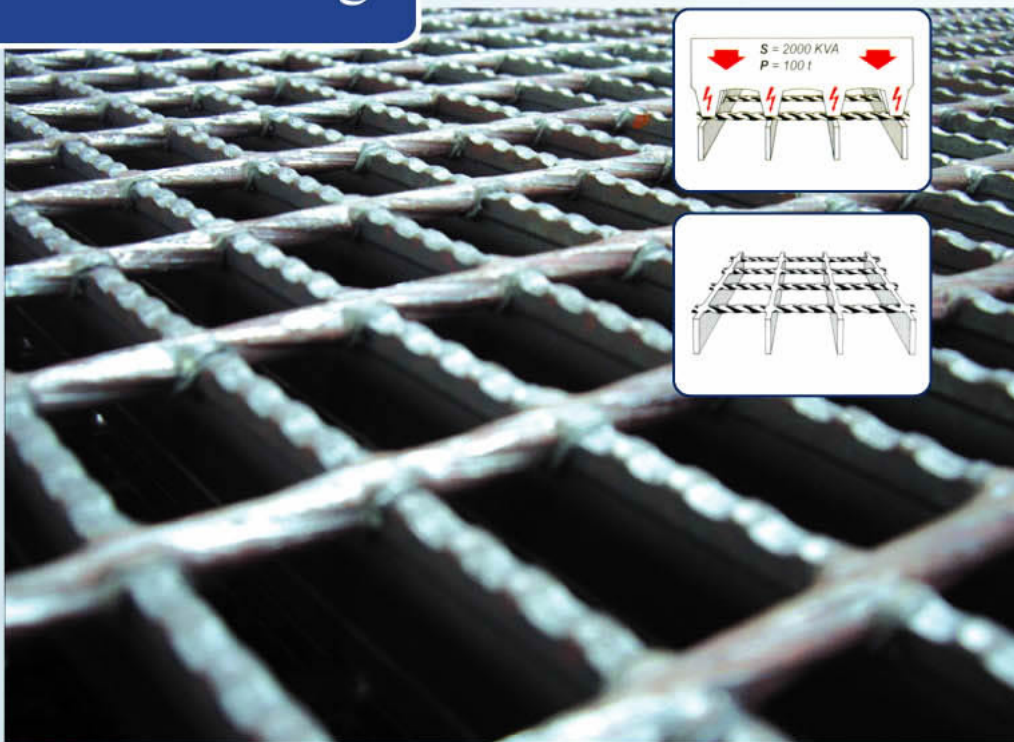
Benefited by grating advantages such as economical cost, long time duration, attractive appearance and easy installation, DAHE grating could be applied as:

- Covering of walkways for pedestrian
- Elements of covering of channel, floors, trench and ditch
- Fencing segments and openwork partition walls
- Stair treads
- Elements of internal and external elevations

格栅板的制作 Manufacturing

格栅板的制作是把扭绞方钢与若干根承载扁钢成直交地焊接成整体，焊接采用现代化全自动压阻焊机，通过强大的电流和压力，保证了每个焊接处能均匀地完全融合。

DAHE gratings are produced from bearing bars and twisted cross bars by press welded together. Cross bars are locked into bearing bars at a press of 100 tons and electrically welded with 2000 KVA into one unit.

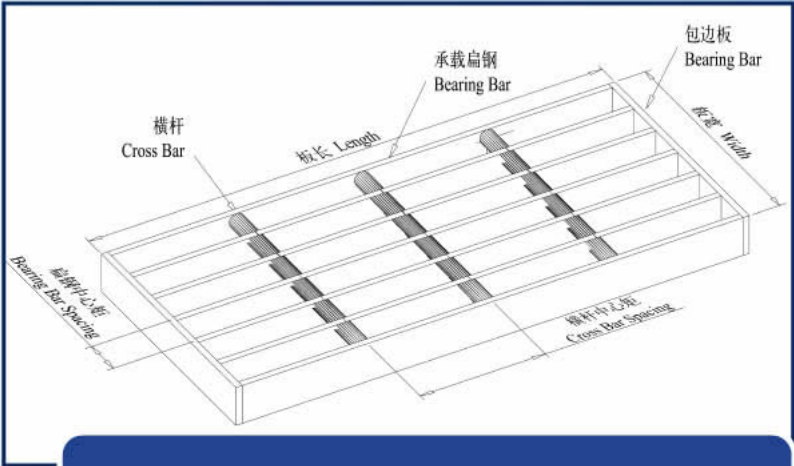


如图例所示，大和格栅板构成部分及主要参数如下：

- 承载扁钢，主要有平面扁钢、齿形扁钢、“I”形扁钢及“T”齿形扁钢；
- 横杆，通常采用扭绞方钢，也可使用圆钢；
- 包边板，用以封边的扁钢，通常不受力；
- 扁钢中心距，承载扁钢的中心间距；
- 横杆中心距，横杆的中心间距。

As the drawing shows, DAHE Grating formed by:

- Bearing Bar, including Flat Bar, Serrated Flat Bar, I-Bar, Serrated I-Bar;
- Cross Bar, usually using twisted square bar, and round bar as well;
- Banding Bar.



格栅板的构成 Formation



平面扁钢格栅板
Flat Bar Grating



齿形扁钢格栅板
Serrated Bar Grating

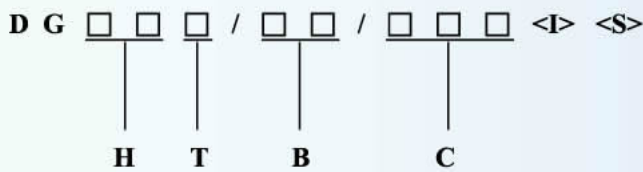


"I"形扁钢格栅板
I-Bar Grating



"T"齿形扁钢格栅板
Serrated I-Bar Grating

大和格栅的牌号 Description

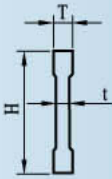


大和格栅的牌号形式如上，采用公制的mm单位描述格栅板的主要参数如下：

- H: 承载扁钢的宽度，亦即格栅板的厚度
- T: 承载扁钢的厚度
- B: 承载扁钢的中心距
- C: 横杆的中心距
- I: 可选，如为“I”形扁钢则添加以注明，“I”形扁钢的参数见右表
- S: 可选，如为齿形扁钢则添加以注明

The description of DAHE Grating is as above shows, using unit mm to describe the main parameters of grating as below:

- H: width of bearing bar, also shows the grating depth
- T: thickness of bearing bar
- B: bearing bar spacing
- C: cross bar spacing



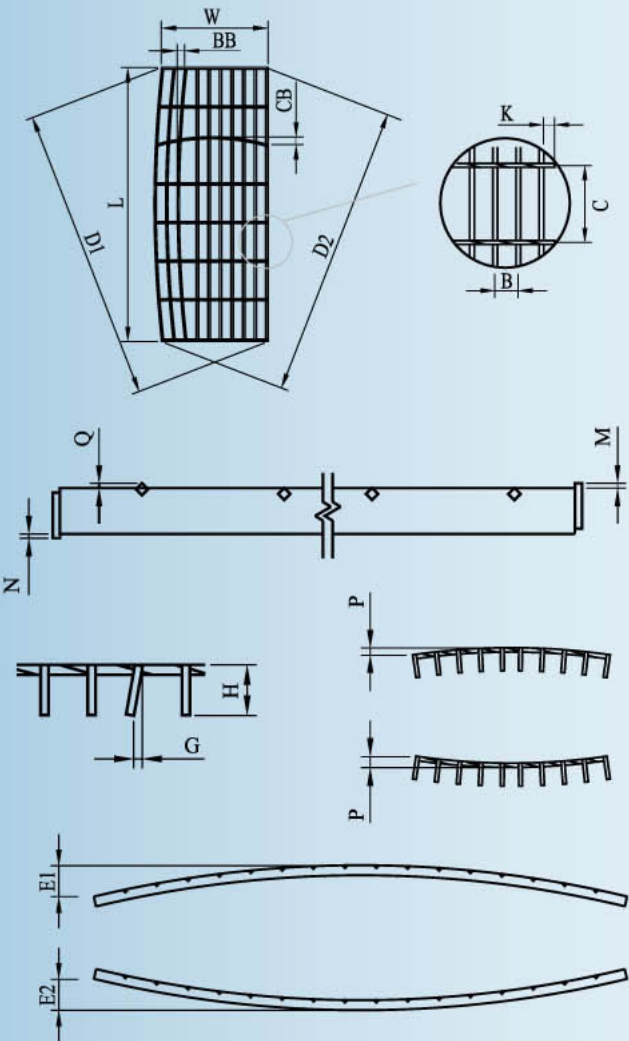
"I" 形扁钢 I-Bar Name	H (mm)	T (mm)	t (mm)	理论重 (kg/m)	抵抗矩 W cm ³	惯性矩 J cm ⁴
I-25 × 5 × 3	25	5	3	0.75	0.48	0.60
I-32 × 5 × 3	32	5	3	0.97	0.78	1.25
I-38 × 5 × 3	38	5	3	1.13	1.10	2.08
I-44 × 5 × 3	44	5	3	1.30	1.46	3.22
I-50 × 5 × 3	50	5	3	1.51	1.84	4.61
I-50 × 7 × 4	50	7	4	1.98	2.57	6.43
I-55 × 7 × 4	55	7	4	2.18	3.09	8.49
I-60 × 7 × 4	60	7	4	2.39	3.72	11.22
I-65 × 7 × 4	65	7	4	2.55	4.29	13.96
I-75 × 7 × 4	75	7	4	2.96	5.70	21.39

- I: optional, I-bar grating to be added, I-bar grating to be added, profile and parameters of I-bar see table right.
- S: optional, serrated bar grating to be added

国别 Country	格栅板标准 Bar Grating Standard	镀锌标准 Hot-dip Galvanizing Standard
中国 P.R.China	YB/T 4001.1-2007	GB/T13912-2002
美国 U.S.America	ANSI NAAMM MBG 531-00	ASTM A123
英国 U.K.British	BS 4592-1987	EN ISO 1461-1999
澳大利亚 Australia	AS 1657-1985	AS 1650
德国 Germany	DIN 24537-1991	DIN 50930-3-1993

制作标准 Standard

制作公差 Tolerance



(w)	格栅板的宽度公差 Toler. of Panel Width	$w \max = \pm 5\text{mm}$
(l)	格栅板长度公差 Toler. of Panel Length	$L \leq 2000\text{mm} \quad l \max = \pm 5\text{mm}$ $L > 2000\text{mm} \quad l \max = \pm 3\% * L$
(d)	格栅板对角线公差 Toler. of Panel diagonals	$L \leq 2000\text{mm} \quad d \max = D1 - D2 = \pm 6\text{mm}$ $L > 2000\text{mm} \quad d \max = D1 - D2 = \pm 3\% * L$
(b)	扁钢中心距公差 Toler. of B. Bar Spacing	$10 \text{ Spacing } b \max = \pm 6\text{mm}$ $1 \text{ Spacing } b \max = \pm 1.5\text{mm}$
(bb)	扁钢弯曲公差 Tolerance of bow of bearing bars	$bb \max = 1/200 * L$
(c)	横杆中心距公差 Toler. of C. Bar Spacing	$15 \text{ Spacing } c \max = \pm 6\text{mm}$ $1 \text{ Spacing } c \max = \pm 2\text{mm}$
(cb)	横杆弯曲公差 Toler. of curving of cross bars	$cc \max = 4\% * W$
(k)	横杆两端超出格栅板侧公差 Toler. of C. Bar beside B. Bar	$k \max = 2\text{mm}$
(q)	横杆超出格栅板表面公差 Toler. of C. Bar Upon B. Bar	$q \max = 1\text{mm}$
(n)	包边板超出及低于表面公差 Toler. of Banding Bar upon of beneath Bearing Bar	$n/m \max = 1.5\text{mm}$
(g)	扁钢倾斜公差 Toler. of Lean of B. Bar	$g \max = 0.1 * H$
(e)	格栅板长度方向翘曲公差 Toler. of Longitudinal Straightness	$e1 \max = 1/150 * L$ $e2 \max = 1/200 * L$
(p)	格栅板宽度方向翘曲公差 Toler. of Transverse straightness	$p \max = 1/100 * W$



型号的选择 How to Choose

大和格栅板的扁钢中心距常用的有20mm、30mm、40mm三大系列，以适应不同场所的需要。而扁钢又有四种，分别为平面扁钢、齿形扁钢、“I”形扁钢及“I”齿形扁钢。

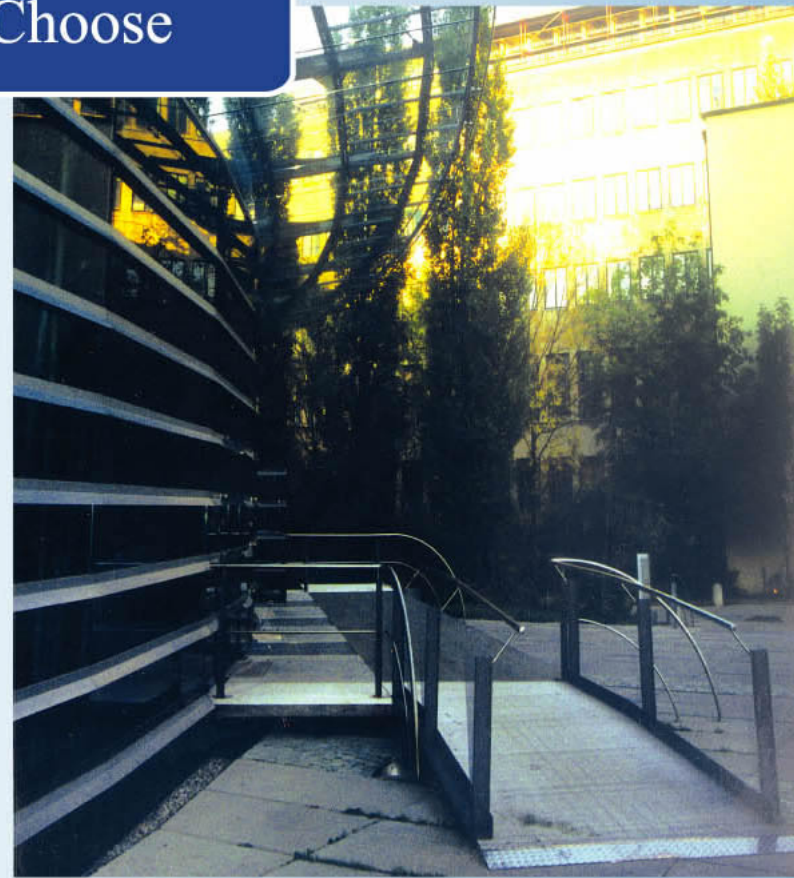
在选择格栅板型号时，首先应根据使用场所的要求，选择相应的扁钢中心距系列。如人流密集的公共场合，应选用20mm系列，以防止较小的物体穿过；而绝大多数的工矿企业，通常的人行通道、平台铺板则可以选择30mm系列；至于偶尔使用的平台或是采光栅栏等，40mm系列就可以满足使用要求。

然后可根据实际使用中的格栅板最大跨度，查阅相应的载荷表（见后页），选择最为经济的格栅板承载扁钢规格。需要说明的是：3mm厚扁钢的格栅板自重最轻也最经济，但承载能力较差且格栅板自身较为单薄，容易变形损坏；5mm厚扁钢的格栅板承载能力好，自身结构稳定、使用寿命长，但自重较大、费效比较低；“I”形扁钢的格栅板则兼具了两者的优点，克服了其缺点。

另外，齿形扁钢提供了良好的防滑效果，但扭绞方钢自身提供的防滑性能已经能满足大多数的使用要求，考虑到齿形扁钢带来的承载能力下降，我们建议谨慎选用。

The most frequently used DAHE grating series are 20mm, 30mm and 40mm bearing bar spacing. These series can satisfy to variant needs by the grating using circumstance. According to bearing bar shape, DAHE grating can also be distinguished to Flat Bar Grating, Serrated Bar Grating, I-Bar Grating and Serrated I-Bar Grating.

To choose a proper type of grating, bearing bar spacing series should be decided first according to the grating using circumstance demand. For example, in a public area, 20mm series should be chosen to avoid small object falling through; in most industry plant, 30mm series can satisfy almost all platform safety standard world wide; and if the



platform is used only occasionally or gratings is used to be fencing or elevation elements, 40mm series is an economical choice.

Then according to the maximum span of grating panels, using the corresponding Loading Table (see next page), the most economical bearing bar profile can be decided. SDG recommend the I-bar gratings, for its good loading capacity and less cost performance comparing to 3mm and 5mm thick bearing bars gratings

In addition, besides serrated bar can provide better anti-slip performance, plain bar gratings has enough anti-slip capability from the twisted square cross bars for common using. Considering the loading capability reduction from bar serration, serrated bar gratings should be only chosen under extreme anti-slip demanding.

格栅板的载荷应同时满足下列条件:

- 1、满足强度, 载荷应在材料的强度范围之内;
- 2、满足挠度相对要求, 格栅板受荷后, 其最大变形挠度应小于跨度的1/200;
- 3、满足挠度大小要求, 对于一般工业用场合, 其最大变形挠度不得大于10mm, 而在公共区域或要求较高的场所, 其最大变形挠度不得大于4mm。

通常设计用行人载荷值分别为:

- 1、单向行人载荷: 3.0KN/m²;
- 2、双向行人载荷: 5.0KN/m²;
- 3、高密度行人载荷: 7.5KN/m²。

此样本中我们列出了常用系列 (20mm、30mm、40mm) 格栅板的载荷表, 未列出的规格请咨询我公司专业人员。其说明、图例如下:

U: 匀布面荷载 (如图示), KN/m²;

D: 格栅板的变形挠度, mm;

C: 位于格栅板跨度中心线, 沿宽度方向的集中线荷载 (如图示), KN/m;

L-10: 5.0KN/m²匀布面荷载下, 同时满足挠度小于跨度1/200及挠度小于10mm条件的推荐最大使用跨度;

L-04: 5.0KN/m²匀布面荷载下, 同时满足挠度小于跨度1/200及挠度小于4mm条件的推荐最大使用跨度;

强度范围: 斜体字所在范围内的载荷值为材料允许的最大载荷;

4mm挠度范围: 红线内区域为匀布荷载为5.0KN/m²时, 挠度同时满足小于跨度的1/200及4mm的范围;

10mm挠度范围: 粗黑线内区域为匀布荷载为5.0KN/m²时, 挠度同时满足小于跨度1/200及10mm的范围;

2.0KN/m²范围: 表中凡列出有数值的均为匀布荷载大2.0KN/m²时, 挠度同时满足小于跨度的1/200及10mm的条件。

载荷表 Load Table

Safety load capacity of a grating panel should satisfy conditions below:

1. Material Intension Ability;
2. Relative Deflection, deflection of grating panel should be less than 1/200 of span for panel stabilization;
3. Absolute Deflection, 10mm is considered the maximum deflection consistent with pedestrian comfort for common industrial area, and 4mm deflection for public area.

Common Uniform Load for People Walk:

1. One Direction: 3.0KN/m²;
2. Two Direction: 5.0KN/m²;
3. Public Area: 7.5KN/m².

Hereby, load tables of frequently using series gratings (20mm, 30mm and 40mm) are listed. For other grating profiles, please consult our professional technician. Legend of load table as below:

U: uniform load, KN/m²;

D: grating panel deflection, mm;

C: concentrated load at mid-span along panel width, KN/m;

L-10: recommended max. span for 10mm deflection under uniform load of 5.0KN/m²;

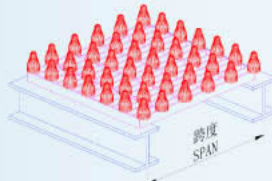
L-04: recommended max. span for 4 mm deflection under uniform load of 5.0KN/m²;

Intension Range: italic numbers are max. load by material intension ability;

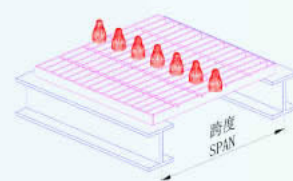
4mm Range: range within bold red line is safe for 4mm deflection under uniform load of 5.0KN/m²;

10mm Range: range within bold red line is safe for 10mm deflection under uniform load of 5.0KN/m²;

2.0KN/m² Range: uniform load less than 2.0KN/m² for 10mm deflection is not listed.



匀布面荷载示意图 Uniform Load



集中线荷载示意图 Concentrated Load

20mm系列格栅板载荷表

Load Table of 20mm Series Gratings

扁钢尺寸 Bearing Bar Size	L-10 (mm)	L-04 (mm)		跨度 Span (mm)															
				300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550
38 × 5	2378	1891	U	927	412	232	148	103	75.7	52.6	36.7	26.6	19.8	15.0	11.7	8.71	6.42	4.79	3.59
			Du	0.41	0.92	1.63	2.56	3.69	5.04	6.00	6.75	7.50	8.25	9.00	9.75	10.0	10.0	10.0	10.0
			C	139	92.7	69.6	55.6	46.4	39.7	34.8	30.9	25.6	21.2	17.8	15.2	12.4	10.1	8.34	6.95
			Dc	0.33	0.73	1.31	2.05	2.96	4.04	5.30	6.74	7.50	8.25	9.00	9.75	10.0	10.0	10.0	10.0
I-38×5×3	2341	1861	U	556	247	139	89.0	61.8	45.4	31.6	22.0	15.9	11.8	9.01	6.99	5.22	3.84	2.86	2.14
			Du	0.41	0.92	1.63	2.56	3.69	5.04	6.00	6.75	7.50	8.25	9.00	9.75	10.0	10.0	10.0	10.0
			C	83.5	55.6	41.7	33.4	27.8	23.8	20.9	18.5	15.4	12.7	10.7	9.10	7.47	6.07	5.00	4.17
			Dc	0.33	0.73	1.31	2.05	2.96	4.04	5.30	6.74	7.50	8.25	9.00	9.75	10.0	10.0	10.0	10.0
38 × 3	2120	1686	U	556	247	139	89.0	61.8	45.4	31.6	22.0	15.9	11.8	9.01	6.99	5.22	3.84	2.86	2.14
			Du	0.41	0.92	1.63	2.56	3.69	5.04	6.00	6.75	7.50	8.25	9.00	9.75	10.0	10.0	10.0	10.0
			C	83.5	55.6	41.7	33.4	27.8	23.8	20.9	18.5	15.4	12.7	10.7	9.10	7.47	6.07	5.00	4.17
			Dc	0.33	0.73	1.31	2.05	2.96	4.04	5.30	6.74	7.50	8.25	9.00	9.75	10.0	10.0	10.0	10.0
32 × 5	2101	1671	U	658	292	164	105	73.1	46.9	31.2	21.7	15.7	11.6	8.79	6.77	5.01	3.64	2.66	
			Du	0.48	1.09	1.94	3.04	4.39	5.25	6.00	6.75	7.50	8.25	9.00	9.75	10.0	10.0	10.0	
			C	98.6	65.8	49.3	39.5	32.9	28.2	23.9	18.9	15.3	12.6	10.6	9.05	7.43	6.04	4.98	
			Dc	0.39	0.87	1.56	2.44	3.52	4.81	6.00	6.75	7.50	8.25	9.00	9.75	10.0	10.0	10.0	
I-32×5×3	2069	1645	U	658	292	164	105	73.1	46.9	31.2	21.7	15.7	11.6	8.79	6.77	5.01	3.64	2.66	
			Du	0.48	1.09	1.94	3.04	4.39	5.25	6.00	6.75	7.50	8.25	9.00	9.75	10.0	10.0	10.0	
			C	98.6	65.8	49.3	39.5	32.9	28.2	23.9	18.9	15.3	12.6	10.6	9.05	7.43	6.04	4.98	
			Dc	0.39	0.87	1.56	2.44	3.52	4.81	6.00	6.75	7.50	8.25	9.00	9.75	10.0	10.0	10.0	
32 × 3	1829	1487	U	395	175	98.6	63.1	43.8	28.1	18.7	13.0	9.39	6.95	5.26	4.05	2.99	2.17		
			Du	0.48	1.09	1.94	3.04	4.39	5.25	6.00	6.75	7.50	8.25	9.00	9.75	10.0	10.0		
			C	59.2	39.5	29.6	23.7	19.7	16.9	14.3	11.3	9.18	7.59	6.37	5.43	4.46	3.63		
			Dc	0.39	0.87	1.56	2.44	3.52	4.81	6.00	6.75	7.50	8.25	9.00	9.75	10.0	10.0		
25 × 5	1682	1397	U	401	178	100	61.7	35.5	22.2	14.7	10.2	7.26	5.33	3.99	3.02	2.18			
			Du	0.62	1.40	2.49	3.75	4.50	5.25	6.00	6.75	7.50	8.25	9.00	9.75	10.0			
			C	60.2	40.1	30.1	24.1	20.1	14.9	11.4	9.01	7.30	6.03	5.07	4.32	3.54			
			Dc	0.50	1.12	1.99	3.13	4.52	5.25	6.00	6.75	7.50	8.25	9.00	9.75	10.0			
I-25×5×3	1648	1376	U	401	178	100	61.7	35.5	22.2	14.7	10.2	7.26	5.33	3.99	3.02	2.18			
			Du	0.62	1.40	2.49	3.75	4.50	5.25	6.00	6.75	7.50	8.25	9.00	9.75	10.0			
			C	60.2	40.1	30.1	24.1	20.1	14.9	11.4	9.01	7.30	6.03	5.07	4.32	3.54			
			Dc	0.50	1.12	1.99	3.13	4.52	5.25	6.00	6.75	7.50	8.25	9.00	9.75	10.0			
25 × 3	1436	1241	U	241	107	60.2	37.0	21.3	13.3	8.80	6.08	4.35	3.19	2.38					
			Du	0.62	1.40	2.49	3.75	4.50	5.25	6.00	6.75	7.50	8.25	9.00					
			C	36.1	24.1	18.1	14.5	12.0	8.93	6.84	5.40	4.38	3.62	3.04					
			Dc	0.50	1.12	1.99	3.13	4.52	5.25	6.00	6.75	7.50	8.25	9.00					
20 × 5	1354	1187	U	257	114	61.8	31.5	18.0	11.2	7.36	5.05	3.56	2.57						
			Du	0.77	1.75	3.00	3.75	4.50	5.25	6.00	6.75	7.50	8.25						
			C	38.5	25.7	19.3	14.9	10.4	7.62	5.84	4.61	3.74	3.09						
			Dc	0.62	1.40	2.50	3.75	4.50	5.25	6.00	6.75	7.50	8.25						
20 × 3	1153	1052	U	154	68.5	37.1	18.9	10.8	6.71	4.41	3.02	2.13							
			Du	0.77	1.75	3.00	3.75	4.50	5.25	6.00	6.75	7.50							
			C	23.1	15.4	11.6	8.96	6.23	4.57	3.50	2.77	2.24							
			Dc	0.62	1.40	2.50	3.75	4.50	5.25	6.00	6.75	7.50							

备注:

1. "I" 形扁钢按5mm平面扁钢载荷能力减少10%计;
2. 齿形扁钢格栅按载荷表中选择的平面扁钢尺寸高度增加6mm选定。

Notes:

1. I-bar grating loading capacity should be counted down 10% based on 5mm thick flat bar grating;
2. For serrated grating, the depth of grating required for a specified load is 6mm greater than in the table.

30mm系列格栅板载荷表

Load Table of 30mm Series Gratings

扁钢尺寸 Bearing Bar Size	L-10 (mm)	L-04 (mm)		跨度 Span (mm)																			
				300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000	
65 × 5	3199	2544	U	1809	804	452	289	201	148	113	89.3	72.4	59.8	50.2	40.6	30.8	23.1	17.7	13.7	10.7	8.45	6.72	
			Du	0.24	0.54	0.95	1.49	2.15	2.93	3.84	4.87	6.02	7.31	8.72	9.75	10.0	10.0	10.0	10.0	10.0	10.0	10.0	
			C	271	181	136	109	90.4	77.5	67.8	60.3	54.3	49.3	45.2	41.7	38.8	33.8	27.8	23.2	19.5	16.6	14.2	
			Dc	0.19	0.43	0.76	1.19	1.72	2.35	3.08	3.90	4.83	5.87	7.01	8.25	9.61	10.0	10.0	10.0	10.0	10.0	10.0	10.0
60 × 5	3021	2403	U	1541	685	385	247	171	126	96.3	76.1	61.7	51.0	40.7	31.8	24.1	18.1	13.8	10.6	8.30	6.53	5.16	
			Du	0.26	0.58	1.03	1.62	2.33	3.18	4.16	5.28	6.53	7.93	9.00	9.75	10.0	10.0	10.0	10.0	10.0	10.0	10.0	
			C	231	154	116	92.5	77.1	66.1	57.8	51.4	46.2	42.0	38.5	35.6	32.7	26.6	21.9	18.2	15.4	13.1	11.2	
			Dc	0.21	0.46	0.83	1.29	1.87	2.55	3.34	4.23	5.24	6.37	7.60	8.96	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
55 × 5	2838	2257	U	1295	576	324	207	144	106	80.9	64.0	51.8	40.8	31.2	24.4	18.4	13.8	10.5	8.07	6.27	4.91	3.86	
			Du	0.28	0.63	1.13	1.76	2.55	3.47	4.54	5.76	7.13	8.25	9.00	9.75	10.0	10.0	10.0	10.0	10.0	10.0	10.0	
			C	194	130	97	77.7	64.8	55.5	48.6	43.2	38.9	35.3	32.4	29.9	25.2	20.5	16.9	14.1	11.8	10.1	8.6	
			Dc	0.23	0.51	0.90	1.41	2.04	2.78	3.64	4.62	5.73	6.96	8.31	9.80	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
50 × 5	2650	2107	U	1070	476	268	171	119	87.4	66.9	52.9	40.8	30.5	23.3	18.2	13.7	10.25	7.76	5.94	4.59	3.56	2.78	
			Du	0.31	0.70	1.24	1.94	2.80	3.82	5.00	6.35	7.50	8.25	9.00	9.75	10.0	10.0	10.0	10.0	10.0	10.0	10.0	
			C	161	107	80.3	64.2	53.5	45.9	40.1	35.7	32.1	29.2	26.8	23.0	18.9	15.4	12.7	10.6	8.89	7.56	6.48	
			Dc	0.25	0.56	0.99	1.56	2.24	3.06	4.01	5.09	6.31	7.67	9.17	9.75	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
I-50×5×3	2590	2059	U	829	368	207	133	92.1	67.7	51.8	38.2	27.7	20.6	15.8	12.3	9.21	6.85	5.15	3.91	2.99	2.29		
			Du	0.35	0.79	1.41	2.21	3.19	4.35	5.69	6.75	7.50	8.25	9.00	9.75	10.0	10.0	10.0	10.0	10.0	10.0		
			C	124	82.9	62.2	49.7	41.4	35.5	31.1	27.6	24.9	21.9	18.4	15.7	12.9	10.5	8.63	7.20	6.06	5.15		
			Dc	0.28	0.63	1.13	1.77	2.55	3.48	4.57	5.80	7.19	8.25	9.00	9.75	10.0	10.0	10.0	10.0	10.0	10.0		
44 × 5	2416	1921	U	829	368	207	133	92.1	67.7	51.8	38.2	27.7	20.6	15.8	12.3	9.21	6.85	5.15	3.91	2.99	2.29		
			Du	0.35	0.79	1.41	2.21	3.19	4.35	5.69	6.75	7.50	8.25	9.00	9.75	10.0	10.0	10.0	10.0	10.0	10.0		
			C	124	82.9	62.2	49.7	41.4	35.5	31.1	27.6	24.9	21.9	18.4	15.7	12.9	10.5	8.63	7.20	6.06	5.15		
			Dc	0.28	0.63	1.13	1.77	2.55	3.48	4.57	5.80	7.19	8.25	9.00	9.75	10.0	10.0	10.0	10.0	10.0	10.0		
I-44×5×3	2373	1887	Dc	0.28	0.63	1.13	1.77	2.55	3.48	4.57	5.80	7.19	8.25	9.00	9.75	10.0	10.0	10.0	10.0	10.0	10.0		
			U	685	304	171	110	76.1	55.9	41.0	28.6	20.7	15.4	11.75	9.12	6.82	5.05	3.77	2.84	2.15			
			Du	0.39	0.87	1.55	2.43	3.51	4.79	6.00	6.75	7.50	8.25	9.00	9.75	10.0	10.0	10.0	10.0	10.0			
			C	103	68.5	51.4	41.1	34.3	29.4	25.7	22.8	19.9	16.5	13.8	11.8	9.68	7.87	6.48	5.41	4.55			
40 × 5	2255	1793	Dc	0.31	0.70	1.24	1.95	2.81	3.84	5.03	6.39	7.50	8.25	9.00	9.75	10.0	10.0	10.0	10.0	10.0			
			U	685	304	171	110	76.1	55.9	41.0	28.6	20.7	15.4	11.75	9.12	6.82	5.05	3.77	2.84	2.15			
			Du	0.39	0.87	1.55	2.43	3.51	4.79	6.00	6.75	7.50	8.25	9.00	9.75	10.0	10.0	10.0	10.0	10.0			
			C	103	68.5	51.4	41.1	34.3	29.4	25.7	22.8	19.9	16.5	13.8	11.8	9.68	7.87	6.48	5.41	4.55			
40 × 3	2004	1593	Dc	0.31	0.70	1.24	1.95	2.81	3.84	5.03	6.40	7.50	8.25	9.00	9.75	10.0	10.0	10.0	10.0				
			U	411	183	103	65.8	45.7	33.6	24.6	17.1	12.4	9.24	7.04	5.46	4.08	3.02	2.25					
			Du	0.39	0.87	1.55	2.43	3.51	4.79	6.00	6.75	7.50	8.25	9.00	9.75	10.0	10.0	10.0					
			C	61.7	41.1	30.8	24.7	20.6	17.6	15.4	13.7	12.0	9.88	8.30	7.07	5.81	4.72	3.89					
38 × 5	2172	1727	Dc	0.31	0.70	1.24	1.95	2.81	3.84	5.03	6.40	7.50	8.25	9.00	9.75	10.0	10.0	10.0					
			U	618	275	155	98.9	68.7	50.5	35.1	24.5	17.7	13.2	10.0	7.77	5.80	4.27	3.18	2.38				
			Du	0.41	0.92	1.63	2.56	3.69	5.04	6.00	6.75	7.50	8.25	9.00	9.75	10.0	10.0	10.0	10.0				
			C	92.7	61.8	46.4	37.1	30.9	26.5	23.2	20.6	17.1	14.1	11.9	10.1	8.30	6.75	5.56	4.63				
I-38×5×3	2133	1696	Dc	0.33	0.73	1.31	2.05	2.96	4.04	5.30	6.74	7.50	8.25	9.00	9.75	10.0	10.0	10.0	10.0				
			U	371	165	92.7	59.4	41.2	30.3	21.0	14.7	10.6	7.89	6.00	4.65	3.47	2.55						
			Du	0.41	0.92	1.63	2.56	3.69	5.04	6.00	6.75	7.50	8.25	9.00	9.75	10.0	10.0						
			C	55.6	37.1	27.8	22.3	18.5	15.9	13.9	12.4	10.2	8.47	7.12	6.06	4.98	4.05						
38 × 3	1906	1534	Dc	0.33	0.73	1.31	2.05	2.96	4.04	5.30	6.74	7.50	8.25	9.00	9.75	10.0	10.0	10.0					
			U	371	165	92.7	59.4	41.2	30.3	21.0	14.7	10.6	7.89	6.00	4.65	3.47	2.55						
			Du	0.41	0.92	1.63	2.56	3.69	5.04	6.00	6.75	7.50	8.25	9.00	9.75	10.0	10.0						
			C	55.6	37.1	27.8	22.3	18.5	15.9	13.9	12.4	10.2	8.47	7.12	6.06	4.98	4.05						
32 × 5	1889	1524	Dc	0.33	0.73	1.31	2.05	2.96	4.04	5.30	6.74	7.50	8.25	9.00	9.75	10.0	10.0	10.0					
			U	438	195	110	70.1	48.7	31.3	20.8	14.5	10.4	7.73	5.85	4.51	3.33	2.42						
			Du	0.48	1.09	1.94	3.04	4.39	5.25	6.00	6.75	7.50	8.25	9.00	9.75	10.0	10.0						
			C	65.8	43.8	32.9	26.3	21.9	18.8	15.9	12.6	10.2	8.43	7.08	6.04	4.96	4.03						
I-32×5×3	1846	1498	Dc	0.39	0.87	1.56	2.44	3.52	4.81	6.00	6.75	7.50	8.25	9.00	9.75	10.0	10.0						
			U	263	117	65.8	42.1	29.2	18.8	12.5	8.68	6.25	4.63	3.50	2.69	1.99							
			Du	0.48	1.09	1.94	3.04	4.39	5.25	6.00	6.75	7.50	8.25	9.00	9.75	10.0							
			C	39.5	26.3	19.7	15.8	13.2	11.3	9.56	7.56	6.12	5.06	4.25	3.62	2.97							
32 × 3	1610	1352	Dc	0.39	0.87	1.56	2.44	3.52	4.82	6.00	6.75	7.50	8.25	9.00	9.75	10.0							
			U	263	117	65.8	42.1	29.2	18.8	12.5	8.68	6.25	4.63	3.50	2.69	1.99							
			Du	0.48	1.09	1.94	3.04	4.39	5.25	6.00	6.75	7.50	8.25	9.00	9.75	10.0							
			C	39.5	26.3	19.7	15.8	13.2	11.3	9.56	7.56	6.12	5.06	4.25	3.62	2.97							
30 × 5	1774	1454	Dc	0.39	0.87	1.56	2.44	3.52	4.82	6.00	6.75	7.50	8.25	9.00	9.75	10.0							
			U	385	171	96.3	61.7	41.1	25.7	17.1	11.9	8.55	6.32	4.77	3.66	2.69							
			Du	0.52	1.16	2.07	3.25	4.50	5.25	6.00	6.75	7.50	8.25	9.00	9.75	10.0							
			C	57.8																			

40mm系列格栅板载荷表

Load Table of 40mm Series Gratings

扁钢尺寸 Bearing Bar Size	L-10 (mm)	L-04 (mm)		跨度 Span (mm)																		
				300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000
65 × 5	3017	2400	U	1383	615	346	221	154	113	86.5	68.3	55.3	45.7	38.4	31.1	23.5	17.7	13.5	10.5	8.18	6.46	5.13
			Du	0.24	0.54	0.95	1.49	2.15	2.93	3.84	4.87	6.02	7.31	8.72	9.75	10.0	10.0	10.0	10.0	10.0	10.0	10.0
			C	207	138	104	83.0	69.2	59.3	51.9	46.1	41.5	37.7	34.6	31.9	29.6	25.8	21.3	17.7	14.9	12.7	10.9
			Dc	0.19	0.43	0.76	1.19	1.72	2.35	3.08	3.90	4.83	5.87	7.01	8.25	9.61	10.0	10.0	10.0	10.0	10.0	10.0
60 × 5	2848	2265	U	1179	524	295	189	131	96.2	73.7	58.2	47.1	39.0	31.1	24.3	18.4	13.8	10.5	8.13	6.34	4.98	3.94
			Du	0.26	0.58	1.03	1.62	2.33	3.18	4.16	5.28	6.53	7.93	9.00	9.75	10.0	10.0	10.0	10.0	10.0	10.0	10.0
			C	177	118	88.4	70.7	58.9	50.5	44.2	39.3	35.4	32.1	29.5	27.2	25.0	20.3	16.7	14.0	11.8	10.0	8.6
			Dc	0.21	0.46	0.83	1.29	1.87	2.55	3.34	4.23	5.24	6.37	7.61	8.96	10.0	10.0	10.0	10.0	10.0	10.0	10.0
55 × 5	2674	2127	U	990	440	248	158	110	80.8	61.9	48.9	39.6	31.2	23.9	18.7	14.1	10.5	8.02	6.17	4.79	3.74	2.94
			Du	0.28	0.63	1.13	1.76	2.55	3.47	4.54	5.76	7.14	8.25	9.00	9.75	10.0	10.0	10.0	10.0	10.0	10.0	10.0
			C	149	99.0	74.3	59.4	49.5	42.4	37.1	33.0	29.7	27.0	24.8	22.9	19.2	15.6	12.9	10.7	9.1	7.70	6.60
			Dc	0.23	0.51	0.90	1.41	2.04	2.78	3.64	4.62	5.73	6.96	8.32	9.80	10.0	10.0	10.0	10.0	10.0	10.0	10.0
50 × 5	2495	1984	U	819	364	205	131	90.9	66.8	51.2	40.4	31.2	23.3	17.8	13.9	10.5	7.83	5.93	4.54	3.50	2.72	2.12
			Du	0.31	0.70	1.24	1.94	2.80	3.82	5.00	6.35	7.50	8.25	9.00	9.75	10.0	10.0	10.0	10.0	10.0	10.0	10.0
			C	123	81.9	61.4	49.1	40.9	35.1	30.7	27.3	24.6	22.3	20.5	17.6	14.5	11.8	9.69	8.07	6.80	5.78	4.96
			Dc	0.25	0.56	0.99	1.56	2.24	3.06	4.01	5.10	6.31	7.67	9.17	9.75	10.0	10.0	10.0	10.0	10.0	10.0	10.0
I-50×5×3	2434	1936	U	634	282	158	101	70.4	51.7	39.6	29.2	21.2	15.8	12.0	9.38	7.04	5.23	3.93	2.99	2.28		
			Du	0.35	0.79	1.41	2.21	3.19	4.35	5.69	6.75	7.50	8.25	9.00	9.75	10.0	10.0	10.0	10.0	10.0	10.0	
			C	95.1	63.4	47.5	38.0	31.7	27.2	23.8	21.1	19.0	16.8	14.1	12.0	9.85	8.01	6.60	5.50	4.64		
			Dc	0.28	0.63	1.13	1.77	2.55	3.49	4.57	5.80	7.20	8.25	9.00	9.75	10.0	10.0	10.0	10.0	10.0	10.0	
44 × 5	2273	1808	U	634	282	158	101	70.4	51.7	39.6	29.2	21.2	15.8	12.0	9.38	7.04	5.23	3.93	2.99	2.28		
			Du	0.35	0.79	1.41	2.21	3.19	4.35	5.69	6.75	7.50	8.25	9.00	9.75	10.0	10.0	10.0	10.0	10.0	10.0	
			C	95.1	63.4	47.5	38.0	31.7	27.2	23.8	21.1	19.0	16.8	14.1	12.0	9.85	8.01	6.60	5.50	4.64		
			Dc	0.28	0.63	1.13	1.77	2.55	3.49	4.57	5.80	7.20	8.25	9.00	9.75	10.0	10.0	10.0	10.0	10.0	10.0	
I-44×5×3	2230	1773	U	524	233	131	83.8	58.2	42.8	31.3	21.9	15.8	11.8	8.98	6.97	5.21	3.85	2.88	2.17			
			Du	0.39	0.87	1.55	2.43	3.51	4.79	6.00	6.75	7.50	8.25	9.00	9.75	10.0	10.0	10.0	10.0			
			C	78.6	52.4	39.3	31.4	26.2	22.5	19.6	17.5	15.2	12.6	10.6	9.01	7.40	6.02	4.96	4.13			
			Dc	0.31	0.70	1.24	1.95	2.81	3.84	5.03	6.40	7.50	8.25	9.00	9.75	10.0	10.0	10.0	10.0			
40 × 5	2120	1686	U	314	140	78.6	50.3	34.9	25.7	18.8	13.1	9.48	7.06	5.37	4.17	3.12	2.30					
			Du	0.39	0.87	1.55	2.43	3.51	4.79	6.00	6.75	7.50	8.25	9.00	9.75	10.0	10.0					
			C	47.1	31.4	23.6	18.9	15.7	13.5	11.8	10.5	9.14	7.55	6.35	5.41	4.44	3.61					
			Dc	0.31	0.70	1.24	1.95	2.81	3.84	5.04	6.40	7.50	8.25	9.00	9.75	10.0	10.0					
40 × 3	1842	1495	U	473	210	118	75.6	52.5	38.6	26.8	18.7	13.5	10.1	7.66	5.93	4.43	3.26	2.43				
			Du	0.41	0.92	1.63	2.56	3.69	5.04	6.00	6.75	7.50	8.25	9.00	9.75	10.0	10.0					
			C	70.9	47.3	35.5	28.4	23.6	20.3	17.7	15.8	13.1	10.8	9.07	7.73	6.35	5.16	4.25				
			Dc	0.33	0.73	1.31	2.05	2.96	4.04	5.30	6.74	7.50	8.25	9.00	9.75	10.0	10.0					
I-38×5×3	2003	1593	U	284	126	70.9	45.4	31.5	23.2	16.1	11.2	8.10	6.03	4.58	3.55	2.65						
			Du	0.41	0.92	1.63	2.56	3.69	5.04	6.00	6.75	7.50	8.25	9.00	9.75	10.0						
			C	42.5	28.4	21.3	17.0	14.2	12.2	10.6	9.46	7.84	6.48	5.44	4.64	3.81						
			Dc	0.33	0.73	1.31	2.05	2.96	4.05	5.31	6.75	7.50	8.25	9.00	9.75	10.0						
38 × 3	1751	1440	U	284	126	70.9	45.4	31.5	23.2	16.1	11.2	8.10	6.03	4.58	3.55	2.65						
			Du	0.41	0.92	1.63	2.56	3.69	5.04	6.00	6.75	7.50	8.25	9.00	9.75	10.0						
			C	42.5	28.4	21.3	17.0	14.2	12.2	10.6	9.46	7.84	6.48	5.44	4.64	3.81						
			Dc	0.33	0.73	1.31	2.05	2.96	4.05	5.31	6.75	7.50	8.25	9.00	9.75	10.0						
32 × 5	1738	1432	U	335	149	83.8	53.6	37.3	23.9	15.9	11.1	7.97	5.90	4.47	3.44	2.54						
			Du	0.48	1.09	1.94	3.04	4.39	5.25	6.00	6.75	7.50	8.25	9.00	9.75	10.0						
			C	50.3	33.5	25.1	20.1	16.8	14.4	12.2	9.63	7.80	6.45	5.42	4.62	3.79						
			Dc	0.39	0.87	1.56	2.44	3.52	4.81	6.00	6.75	7.50	8.25	9.00	9.75	10.0						
I-32×5×3	1696	1405	U	201	89.4	50.3	32.2	22.4	14.3	9.53	6.63	4.77	3.53	2.67	2.05							
			Du	0.48	1.09	1.94	3.04	4.39	5.25	6.00	6.75	7.50	8.25	9.00	9.75							
			C	30.2	20.1	15.1	12.1	10.1	8.62	7.31	5.78	4.68	3.87	3.25	2.77							
			Dc	0.39	0.87	1.56	2.44	3.52	4.82	6.00	6.75	7.50	8.25	9.00	9.75							
32 × 3	1478	1268	U	201	89.4	50.3	32.2	22.4	14.3	9.53	6.63	4.77	3.53	2.67	2.05							
			Du	0.48	1.09	1.94	3.04	4.39	5.25	6.00	6.75	7.50	8.25	9.00	9.75							
			C	30.2	20.1	15.1	12.1	10.1	8.62	7.31	5.78	4.68	3.87	3.25	2.77							
			Dc	0.39	0.87	1.56	2.44	3.52	4.82	6.00	6.75	7.50	8.25	9.00	9.75							
30 × 5	1631	1365	U	295	131	73.7	47.1	31.4	19.7	13.1	9.08	6.53	4.82	3.64	2.79	2.05						
			Du	0.52	1.16	2.07	3.25	4.50	5.25	6.00	6.75	7.50	8.25	9.00	9.75	10.0						
			C	44.2	29.5	22.1	17.7	14.7	12.6	10.0	7.93	6.43	5.31	4.46	3.80	3.12						
			Dc	0.41	0.93	1.66	2.60	3.76	5.14	6.00	6.75	7.50	8.25	9.00	9.75	10.0						
30 × 3	1387	1208	U	177	78.6	44.2	28.3	18.8	11.8	7.83	5.43	3.91	2.88	2.17								
			Du	0.52	1.16	2.07	3.25	4.50	5.25	6.00	6.75	7.50	8.25	9.00								
			C	26.5	17.7	13.3	10.6	8.84	7.58	6.03	4.76	3.86	3.19	2.68								
			Dc	0.41	0.93	1.66	2.60	3.76	5.15	6.00	6.75	7.50	8.25	9.00								
25 × 5	1364	1194	U	205	90.9	51.2	31.5	18.1	11.3	7.47	5.16	3.69	2.70	2.02								
			Du	0.62	1.40	2.49	3.75	4.50	5.25	6.00	6.75	7.50	8.25	9.00								
			C	30.7	20.5	15.3	12.3															

格栅板成品重量表		Grating Unit Weight Table									
板长≥800, 包边, 镀锌, 单位: kg/m²		Panel Length≥800, Banded, Hot-dip Galvanized, Unit: kg/m²									
扁钢规格 Bearing Bar Size		格栅板晶格尺寸 Mesh Size (mm)									
		20 × 100		20 × 50		30 × 100		30 × 50		40 × 100	
		L-10	L-04	L-10	L-04	L-10	L-04	L-10	L-04	L-10	L-04
FB	20 × 3	29.5		32.5		21.0		24.0		17.0	
		1153	1052	1153	1052	1012	954	1012	954	928	894
FB	25 × 3	36.1		39.1		25.5		28.5		20.5	
		1436	1241	1436	1241	1262	1126	1262	1126	1158	1056
FB	30 × 3	42.7		45.7		30.0		33.0		24.0	
		1717	1418	1717	1418	1511	1289	1511	1289	1387	1208
FB	32 × 3	45.3		48.3		31.8		34.7		25.4	
		1829	1487	1829	1487	1610	1352	1610	1352	1478	1268
FB	38 × 3	53.3		56.3		37.1		40.1		29.6	
		2120	1686	2120	1686	1906	1534	1906	1534	1751	1440
FB	40 × 3	55.9		58.9		38.9		41.9		31.0	
		2201	1751	2201	1751	2004	1593	2004	1593	1842	1495
FB	20 × 5	47.1		50.1		33.0		35.9		26.3	
		1354	1187	1354	1187	1192	1079	1192	1079	1095	1012
FB	25 × 5	58.1		61.1		40.4		43.4		32.1	
		1682	1397	1682	1397	1484	1272	1484	1272	1364	1194
FB	30 × 5	69.1		72.1		47.9		50.9		37.9	
		2005	1595	2005	1595	1774	1454	1774	1454	1632	1365
FB	32 × 5	73.6		76.6		50.9		53.9		40.3	
		2101	1671	2101	1671	1889	1524	1889	1524	1738	1432
FB	38 × 5	86.8		89.8		59.9		62.9		47.3	
		2378	1891	2378	1891	2172	1727	2172	1727	2042	1624
FB	40 × 5	91.2		94.2		62.9		65.9		49.6	
		2467	1962	2467	1962	2255	1793	2255	1793	2120	1686
FB	44 × 5	100.0		103.0		68.9		71.9		54.3	
		2641	2100	2641	2100	2416	1921	2416	1921	2273	1808
FB	50 × 5	113.2		116.2		77.9		80.9		61.2	
		2892	2300	2892	2300	2650	2107	2650	2107	2495	1984
FB	55 × 5	124.3		127.3		85.4		88.4		67.1	
		3094	2460	3094	2460	2838	2257	2838	2257	2674	2127
FB	60 × 5	135.3		138.3		92.9		95.9		72.9	
		3289	2616	3289	2616	3021	2403	3021	2403	2848	2265
FB	65 × 5	146.3		149.3		100.4		103.3		78.7	
		3479	2767	3479	2767	3199	2544	3199	2544	3017	2400
I	25 × 5 × 3	45.6		48.6		32.1		35.1		25.7	
		1649	1376	1649	1376	1451	1251	1451	1251	1332	1173
I	32 × 5 × 3	58.1		61.1		40.6		43.6		32.4	
		2068	1645	2068	1645	1845	1497	1845	1497	1695	1405
I	38 × 5 × 3	67.2		70.2		46.9		49.9		37.3	
		2341	1861	2341	1861	2133	1696	2133	1696	2003	1593
I	44 × 5 × 3	76.9		79.9		53.5		56.5		42.5	
		2601	2068	2601	2068	2373	1887	2373	1887	2230	1773
I	50 × 5 × 3	88.8		91.8		61.6		64.6		48.8	
		2832	2252	2832	2252	2588	2058	2588	2058	2433	1935
I	50 × 7 × 4					82.5		87.8		65.7	
						2793	2221	2793	2221	2630	2091
I	55 × 7 × 4					89.6		94.9		71.3	
						2986	2374	2986	2374	2813	2237
I	60 × 7 × 4					98.5		103.8		78.2	
						3191	2537	3191	2537	3008	2392
I	65 × 7 × 4					104.8		110.1		83.2	
						3362	2674	3362	2674	3171	2522
I	75 × 7 × 4					120.7		126.1		95.6	
						3719	2958	3719	2958	3512	2793

注：其它规格的格栅板重量请咨询我公司专业人员

Note: For other profile grating,either bar size or mesh size, our professional technician can be consulted.

订货须知 Order

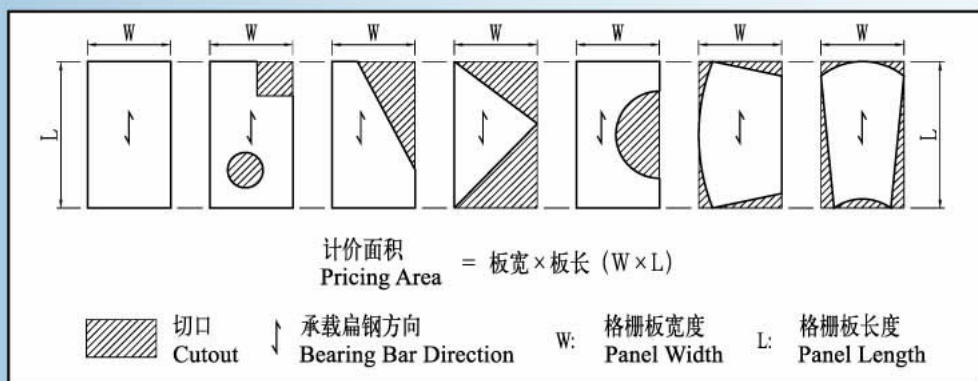
格栅板的计价是按交货面积计算的，单块格栅板的计价面积为其最小包容面积，不扣除缺口或开孔尺寸(如图示)。

由于格栅板型号繁多、用途不一，故需要提供如下的信息：

- 根据格栅板的使用要求选定格栅板的型号，标识清楚；
- 格栅板的表面处理要求（黑铁件或热镀锌）；
- 如需要安装夹具，需注明所需安装夹类型(见第12页)；
- 如不需要我公司设计布置图的，需列出所需格栅板的尺寸与数量。大和格栅的标准板宽为1000mm（名义尺寸），应尽可能的采用此标准宽度。对于小于1000mm宽度的格栅板，请按扁钢根数-格栅板宽度对照表选定；
- 如需要我公司设计布置图，需要提供相应的技术资料，如格栅板设计规范文件、需铺设格栅板的梁布置图、柱立面图、平台开孔布置图等，可向我公司专业人员咨询。

Gratings are priced by panels' area. Each panel's area is based on span times width, with no deduction made for cutouts as drawing shows. Since gratings profiles are diversiform by bar size and mesh size for different usage, specific information as below should be presented to order:

- Grating Profile, including bearing bar profile and size, mesh size;
- Grating Surface Treatment, self color or hot-dip galvanized;
- Fastener Type, if fasteners are demand, fastener type should be specified (see page 12);
- Panels' Size and Quantity, if gratings are ordered without drawings, panels' size and quantity should be specified. DAHE grating panels' standard nominal width is 1000mm, which should be used as more as possible. For other panel width, please choose from "B.Bar Nos. Panel Width" table;
- Technical Detailed Documents, if gratings are ordered with drawings, all detailed technical documents should be presented, which including grating design specific document, beam plan, column plan, etc. Our professional technician can be consulted.



订货、询价样式表 Sample Sheet for Inquiry

上海大和格栅板实业有限公司 Shanghai DAHE Grating Co., Ltd. 大和格栅 TEL: +86-21-5639 1389 FAX: +86-21-666 83234		询价单位: _____ Inquired by: _____	联系人: _____ Contact: _____	TEL: _____ FAX: _____			
格栅板规格 Grating Profile	DG / / /	承载扁钢 Bearing Bar	×	品格尺寸 Mesh Size	×	☐ 齿形 Serrated	☐ "I" 形 I-Bar
格栅板表面处理 Surface Treatment	☐ 黑铁件 Self Color	☐ 热镀锌 Hot-dip Galv.	☐ 不包边 Open End	☐ 两端包边 Banded	☐ 标准安装夹 Standard Type	☐ M型安装夹 M-Type	☐ G型安装夹 G-Type
格栅板尺寸数量表 Grating Panels' Size and Quantity Table				所需安装夹数量 Quantity of Fasteners			
编号 Nos.	格栅板宽 Width (mm)	格栅板长 Length (mm)	数量 (片) Qty (PCs)	单片面积 Unit Area (m²/PC)	总面积 Total Area (m²)	价格 (元) Price (RMB)	需制作格栅板布置图 Order With Drawings
需制作格栅板布置图 Order With Drawings							☐ 格栅板设计规范文件 Grating Design Specific Documents
☐ 梁布置图 Beam Plan Drawings							☐ 结构立面图 Column Plan Drawings
☐ 开孔布置图 Cutout Plan Drawings							☐ 其它资料 Other Documents
合计 TOTAL							

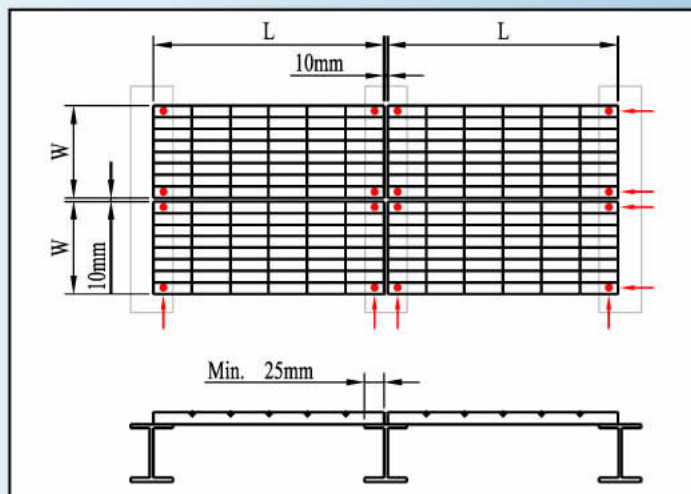
Nos.	W(mm)	Nos.	W(mm)
20mm系列		20mm Series	
51	1010	31	610
50	990	30	590
49	970	29	570
48	950	28	550
47	930	27	530
46	910	26	510
45	890	25	490
44	870	24	470
43	850	23	450
42	830	22	430
41	810	21	410
40	790	20	390
39	770	19	370
38	750	18	350
37	730	17	330
36	710	16	310
35	690	15	290
34	670	14	270
33	650	13	250
32	630	12	230
30mm系列		30mm Series	
34	1000	21	610
33	970	20	580
32	940	19	550
31	910	18	520
30	880	17	490
29	850	16	460
28	820	15	430
27	790	14	400
26	760	13	370
25	730	12	340
24	700	11	310
23	670	10	280
22	640	9	250
40mm系列		40mm Series	
26	1010	16	610
25	970	15	570
24	930	14	530
23	890	13	490
22	850	12	450
21	810	11	410
20	770	10	370
19	730	9	330
18	690	8	290
17	650	7	250

Nos. 格栅板扁钢根数 B. Bar Nos. of Panel
 W 格栅板名义宽度 Panel Nominal Width

格栅板安装时应注意保留板与板之间的间隙，如图例所示，通常为10mm。格栅板的支撑长度不得小于25mm。对于安装不需要再拆卸的格栅板，最为牢固的固定办法是将格栅板直接焊接在支撑梁上；对于需要拆卸的格栅板，可选用相应的大和牌安装夹具。每块格栅板至少需要4个固定点（焊接或使用安装夹具），通常位于格栅板的四个角，对于超长（跨梁安装）、超宽的格栅板，则按每平方米4个固定点安装固定。

Clearance of 10mm between grating panels is usually kept while gratings' installation. The minimum support length for grating panels is 25mm. For panels do not need to be removed after installation, the most secure way is to weld grating panels with support beams together. Meanwhile, proper DAHE Fasteners can be used for removable grating panels. 4 fixing places should be taken for every grating panel, usually at the 4 corners of panel, and extra fixing places for big size panel by average 4 places per square meter.

格栅板的安装 Installation



安装夹具 Fastening Elements

上海大和提供适用于各种类型格栅板的安装夹具，易于安装、拆卸，可满足绝大多数的需要。

SDG offers a line of fasteners, which can satisfy for all requirements, for every type of gratings.



标准型安装夹：使用马鞍夹与下片紧固，此种安装夹可

从格栅板表面穿过安装，现场无需焊接。适用于30mm、40mm系列的格栅板。

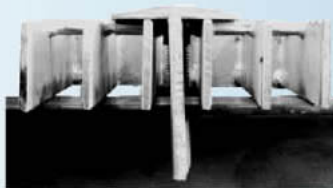
Standard Type Fastener: Using saddle clip and lower clip to fasten grating panels. This set permits easy assembly through the grating from above. It's suitable for 30mm and 40mm series gratings.



M型安装夹：将螺栓头部焊接于梁上，使用

马鞍夹紧固。适用于30mm、40mm系列的格栅板。

M-Type Fastener: Weld the bolt head on supporting beam, using saddle clip fastens. It's suitable for 30mm and 40mm series gratings.



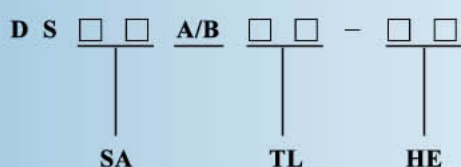
G型安装夹：上海大和专为密型格栅板开发的安装夹具，可从密型格栅板表面

穿过安装，无需焊接，适用于20mm系列的格栅板。

G-Type Fastener: Invented by SDG for close mesh gratings. This set also permits easy assembly through the close mesh gratings from above. It's suitable for 20mm series gratings.

大和标准斜钢梯符合GB4053.2-83国家标准，且满足通用建筑标准设计图集87J431（JSJT-90）的要求。大和钢梯梯梁采用钢板或槽钢，踏步采用大和标准格栅踏步板，产品表面采用热镀锌处理，与大和栏杆配套使用，更具有美观牢固、安装简便、免于维护等优点。

DAHE Standard Stairs are fabricated according to China National Standard GB4053.2-83 and 87J431(JSJT-90) as well. DAHE stairs use steel plate or C-shape beam as stair stringer and DAHE Standard Grating Treads. Matching with DAHE Ball Handrail System, we can offer our customers a full platform solution with reliable, easily erecting and good performance products.



SA: 楼梯角度 Stair Angle

A/B: 梯梁型号, A为钢板, B为槽钢。Stringer Type, A is steel plate, B is C-Shape beam

TL: 楼梯宽度 Stair Width (cm)

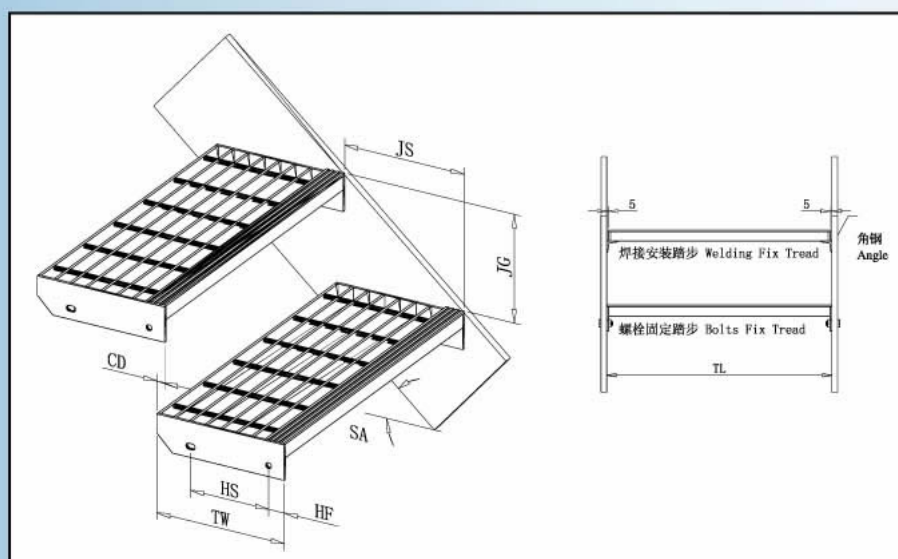
HE: 楼梯高度 Stair Height (m)



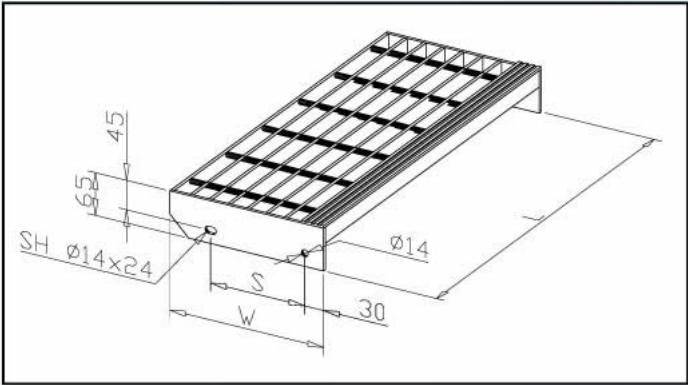
示例 Example: DS45A80-2.5

采用钢板作为梯梁，角度为 45° ，梯宽800mm，楼梯高度2500mm

Using steel plate as stringer, stair angle is 45° and width 800mm, height 2500mm.



角度 SA	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°
A型梯梁 A-Type Stringer	-180 × 8	-180 × 8	-160 × 8	-160 × 8	-160 × 8	-160 × 8	-140 × 8	-140 × 8	-140 × 8	-140 × 8
B型梯梁 B-Type Stringer	[18	[18	[18a	[18a	[16	[16	[16a	[16a	[14a	[14a
级高 JG	160	175	185	200	210	225	235	245	255	265
级深 JS	277	250	220	200	176	158	136	114	93	71
踏步宽 TW	305	275	245	215	215	185	155	155	125	95
孔距 HS	150		100			75			50	



大和格栅踏步作为钢梯的标准踏步板，根据安装方法及防滑沿口形式可分为：

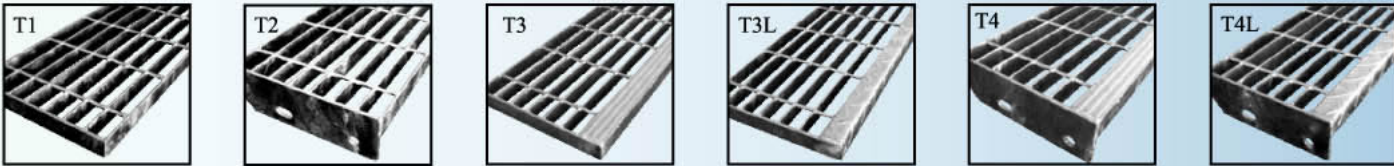
- T1型 — 焊接安装无沿口 T3型 — 焊接安装平沿口
T3L型 — 焊接安装直角沿口 T2型 — 螺栓固定无沿口
T4型 — 螺栓固定平沿口 T4L型 — 螺栓固定直角沿口
- 等六种形式。图例为T4型踏步的典型示意图，图中安装孔距与踏步宽度的对应关系见表。我们推荐从我公司标准踏步板表中选用相应的型号及规格。

DAHE Grating Tread, as standard stairway tread, according to its fix method and nosing bar type, can be distinguished to six types as:

- T1 — Welding without nosing bar
T3 — Welding with nosing bar
T3L — Welding with checkered plate as nosing bar
T2 — Bolts fixing without nosing bar
T4 — Bolts fixing with nosing bar
T4L — Bolts fixing with checkered plate as nosing bar.

We recommend to choose the proper tread type from our standard tread table as below.

踏步板宽度 Tread Width	W (mm)	145 155	185 215	205 215	245	265 275	305
安装孔距 Holes' Spacing	S (mm)	50	75		100		150



踏步板重量表 Weight Table of Grating Tread (kg/PC)

格栅板规格 Grating Type	踏步板宽 Tread Width	500		550		600		650		700 (max.)	
		T2	T4	T2	T4	T2	T4	T2	T4	T2	T4
DG253/20/100	145	3.6	4.1	3.9	4.4	4.3	4.7	4.6	5.1	4.9	5.4
	185	4.4	5.0	4.8	5.4	5.2	5.8	5.6	6.2	6.0	6.6
	205	4.7	5.4	5.2	5.9	5.6	6.3	6.0	6.7	6.5	7.2
	245	5.5	6.3	6.0	6.8	6.5	7.3	7.0	7.8	7.5	8.3
DG253/30/100	155	3.0	3.5	3.3	3.8	3.5	4.1	3.8	4.3	4.1	4.6
	185	3.4	4.0	3.7	4.3	4.0	4.7	4.3	5.0	4.6	5.3
	215	3.8	4.6	4.2	4.9	4.5	5.2	4.9	5.6	5.2	5.9
	245	4.3	5.1	4.6	5.5	5.0	5.8	5.4	6.2	5.8	6.6

备注：
载荷条件：100kg集中载荷
挠度<1/300*板长
20mm系列适用于公共场合；30mm
系列适用于一般工业场合。

Notes:
Load: 100kg Concentrate
Deflection < 1/300*L
20mm series for public area; 30mm
series for industrial.

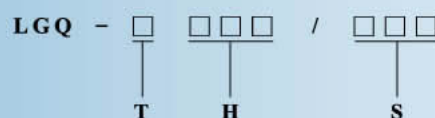
格栅板规格 Grating Type	踏步板宽 Tread Width	800		850		900		950		1000		1100		1200 (max.)	
		T2	T4	T2	T4	T2	T4	T2	T4	T2	T4	T2	T4	T2	T4
DG255/20/1001	185	7.7	8.3	8.3	8.9	8.9	9.5	9.5	10.1	10.1	10.7	10.7	11.3	11.3	11.9
	205	8.4	9.0	9.0	9.7	9.7	10.4	10.3	11.0	11.0	11.7	11.7	12.3	12.3	13.0
	245	9.8	10.6	10.5	11.3	11.3	12.1	12.1	12.9	12.8	13.7	13.6	14.4	14.4	15.2
	265	10.5	11.3	11.3	12.2	12.1	13.0	12.9	13.8	13.8	14.6	14.6	15.5	15.4	16.3
DG255/30/1001	185	5.8	6.4	6.2	6.9	6.7	7.3	7.1	7.8	7.6	8.2	8.0	8.7	8.5	9.1
	215	6.5	7.2	7.0	7.7	7.5	8.3	8.0	8.8	8.6	9.3	9.1	9.8	9.6	10.3
	245	7.3	8.1	7.8	8.6	8.4	9.2	9.0	9.8	9.5	10.3	10.1	10.9	10.6	11.5
	275	8.0	8.9	8.6	9.5	9.2	10.2	9.9	10.8	10.5	11.4	11.1	12.0	11.7	12.6

格栅板规格 Grating Type	踏步板宽 Tread Width	800		850		900		950		1000		1100		1200 (max.)	
		T2	T4	T2	T4	T2	T4	T2	T4	T2	T4	T2	T4	T2	T4
DG325/20/1001	205	13.6	14.2	14.4	15.1	15.2	15.9	16.0	16.7	16.9	17.5	18.5	19.2	20.1	20.8
	245	15.9	16.7	16.8	17.7	17.8	18.6	18.8	19.6	19.7	20.5	21.6	22.5	23.6	24.4
	265	17.0	17.9	18.1	18.9	19.1	20.0	20.1	21.0	21.1	22.0	23.2	24.1	25.3	26.2
	305	19.3	20.4	20.5	21.5	21.7	22.7	22.8	23.9	24.0	25.0	26.4	27.4	28.7	29.7
DG325/30/1001	215	10.4	11.1	11.0	11.8	11.7	12.4	12.3	13.0	12.9	13.6	14.2	14.9	15.4	16.1
	245	11.6	12.4	12.3	13.1	13.0	13.8	13.7	14.5	14.4	15.2	15.8	16.6	17.2	18.0
	275	12.8	13.7	13.6	14.5	14.3	15.3	15.1	16.0	15.9	16.8	17.4	18.3	18.9	19.9
	305	14.9	15.9	14.8	15.9	15.7	16.7	16.5	17.5	17.4	18.4	19.0	20.0	20.7	21.7

大和栏杆是一种新型球节点栏杆结构, 具有安装简便、易于运输、经济美观等诸多优点。产品符合中国GB4053.3-88及通用建筑标准设计规范87J432等标准, 同时满足英国BS6399、BS6180等标准。产品表面采用热镀锌处理, 免于维护和保养。这种新颖的结构适用于任何需要的地方。由于其为现场组装, 使得大和栏杆可根据现场实际情况随意调节。

DAHE Handrail is a railing system with all rails' connections hidden in the post ball. This site assembling handrail system makes it an open system which can be adjusted according to the site situation freely. All parts of DAHE handrail system are separated as pipes or bars shape, which are easily package and transportation with space saving and damage free. It's suitable for any places where need handrail system protection.

大和栏杆的牌号 Code of DAHE Handrail



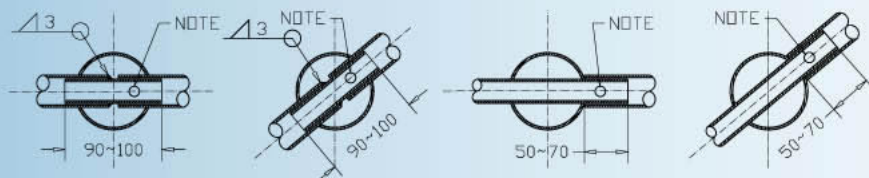
T: 字母A、B或C, 分别表示轻型、重型、超重型栏杆 Letter A, B or C, to distinguish Light Type, Heavy Type and Grand Type
H: 栏杆高度, 见示意图 Height of Handrail (cm)
S: 立柱间距, 见示意图 Posts Spacing (cm)

大和栏杆的安装 Assemble

大和栏杆在安装时, 应先确定立柱位置, 如梁上未预先留有安装孔的可现场钻孔或焊接。然后将横杆及相应的弯头穿过立柱球节, 调整横杆位置使得横杆间的接点位于立柱球内, 将横杆略抽出球节, 采用销钉或点焊的形式联结固定横杆间的接点。最后将联结处置于球节内, 采用销钉或点焊的形式将横杆及弯头与立柱固定。待横杆调整固定完毕后, 将立柱底座与梁联结固定。

To assemble handrail follow steps as below:

1. Fixing posts, if there is no bolt hole on beam, site drilling can be implemented.
2. Traversing pipes, all connection places between pipes should be within in post ball.
3. Fixing pipes, pull pipes little and fix pipes with each other as sketch above.
4. Fixing pipes with post balls, hide connection between pipes and fix with balls.



相同管径的联结 Same Size Pipes' Connection

不同管径的联结 Different Size Pipes' Connection

NOTE: 现场安装时钻孔配锥销固定或点焊固定 Drilling at site, using pin fixing, or tack welding

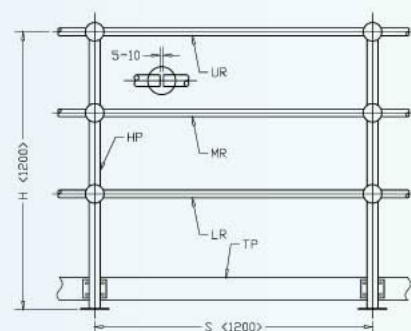
大和栏杆的部件 Parts

如示意图所示大和栏杆由立柱、弯头、横杆、踢脚板等组成:

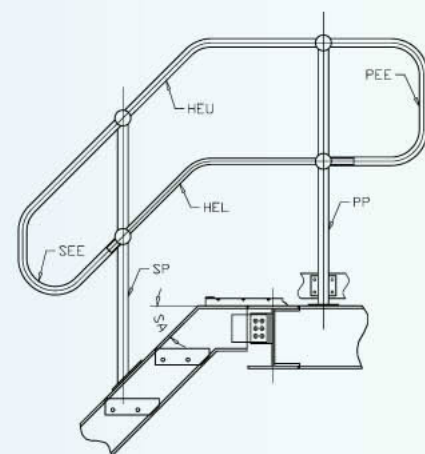
1. 立柱可分为底装式(Z-1)、侧装式(Z-2)、弯装式(Z-3)等三种, 又可分别分为带踢脚板(数字后加T注明)或不带踢脚板两类, 具体形式见后页;
2. 弯头可分为: 平台端部弯头、斜梯端部弯头、直角弯头、斜弯头等四种;
3. 横杆为热镀锌直焊缝管, 统一长度供货, 现场根据需要切割;
4. 踢脚板为100x5mm扁钢, 统一长度供货, 现场根据需要切割钻孔;

As the sketch shows, DAHE Handrail System is composed by posts, elbows, rail pipes and toe plates.

1. Posts: There are 3 types of fixing way, bottom fixing (Z-1), side fixing (Z-2), bend fixing (Z-3). Add "T" after number to present handrail system with toe plate. See next page.
2. Elbows: Platform End Elbow, Stair End Elbow, Right-angle Elbow, Angle Elbow.
3. Rail Pipes: Hot-dip galvanized welding pipe, supplied by uniform length, cut at site according to using.
4. Toe Plates: Flat bar 100x5 mm, supplied by uniform length, cut and drill at site according to using.



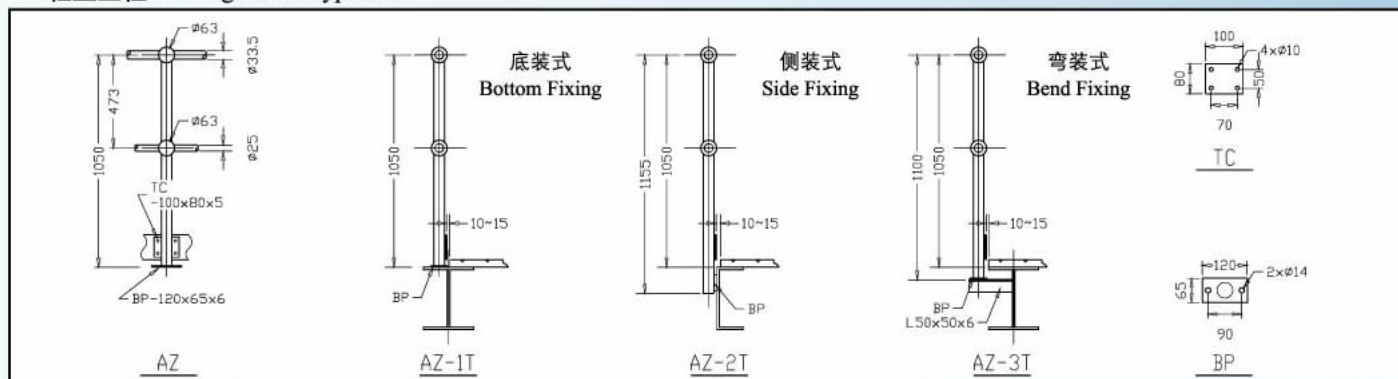
H: 栏杆高度 Height of Handrail HP: 球节立柱 Handrail Post
S: 立柱间距 Spacing between Posts TP: 踢脚线 Toe Plate
UR, MRLR: 上、中、下横杆 Upper/Middle/Lower Rails



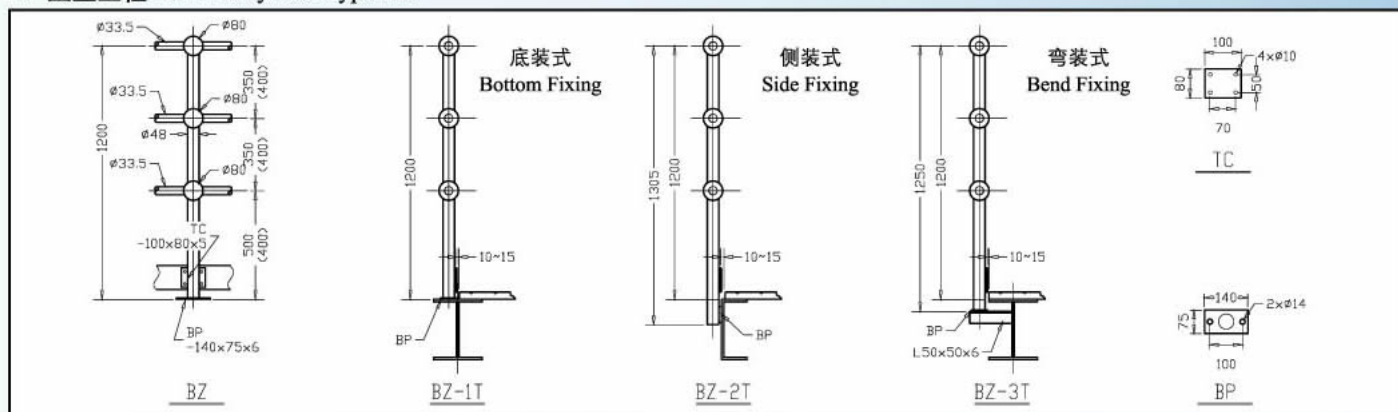
PP: 平台立柱 Platform Post SP: 斜梯立柱 Stair Post
SEE: 斜梯栏杆端部弯头 Stair Handrail End Elbow
PEE: 平台栏杆端部弯头 Platform Handrail End Elbow
SA: 斜梯角度 Stair Angle
HEU/HEL: 斜弯头 Rail Angle Elbow



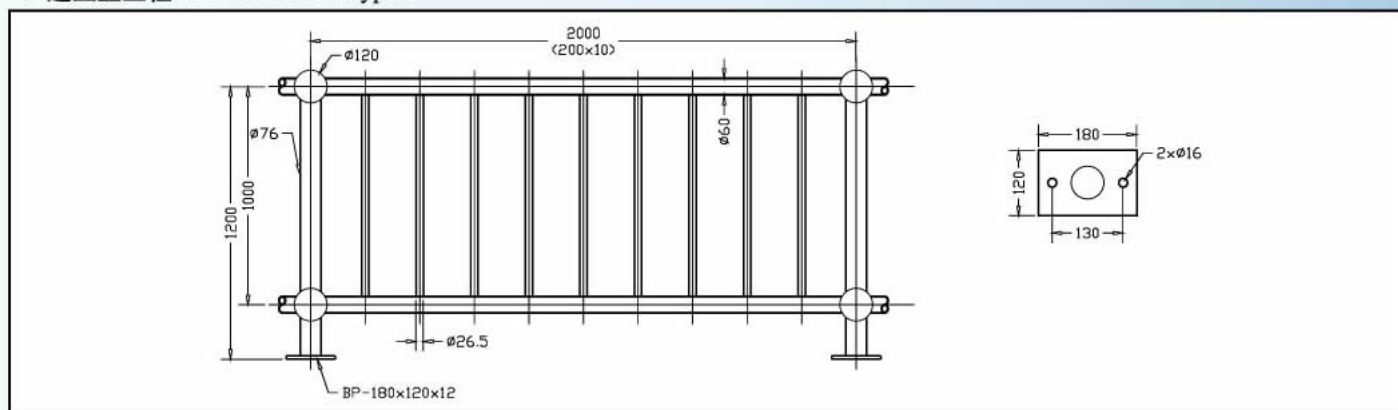
1. 轻型立柱 AZ Light Post Type AZ



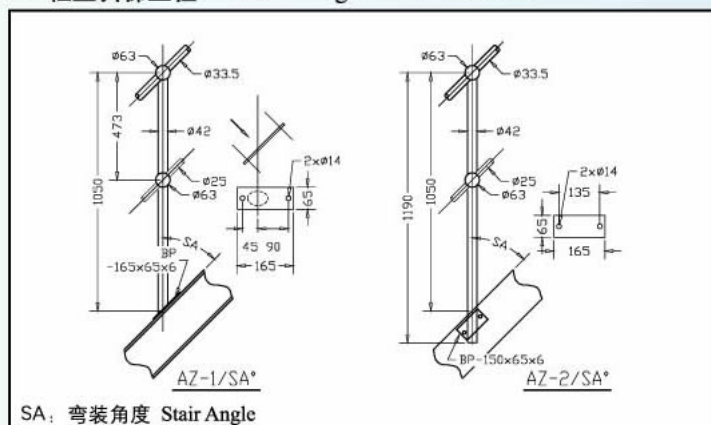
2. 重型立柱 BZ Heavy Post Type BZ



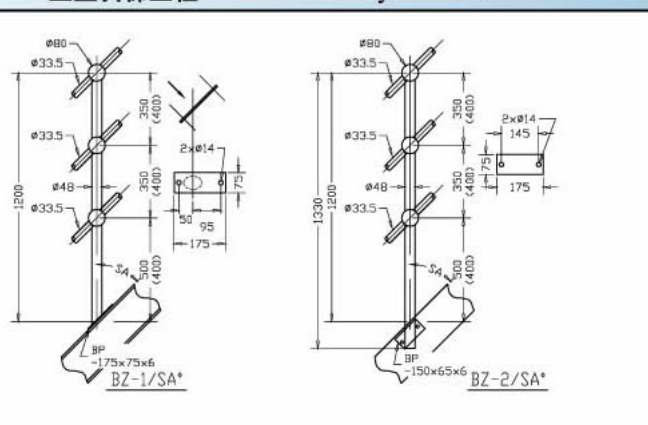
3. 超重型立柱 CZ Grand Post Type CZ



4. 轻型斜梯立柱 AZ/θ° Light Stair Post AZ/θ°



5. 重型斜梯立柱 BZ/θ° Heavy Stair Post BZ/θ°



SA: 弯装角度 Stair Angle

在一些特殊场合下，需要全封闭的平台。为此，我们专门开发了复合格栅板以满足这样的需求。其结构是以格栅板为龙骨，覆以3mm花纹板，焊接成整体后热镀锌防腐。这样结合了两者的优点，充分利用了材料，降低了成本。

SDG developed Composite Grating for places where need continues platform. This Composite Grating is using grating as support keel, while covered by 3mm checkered plate. By combining advantages from both materials, it is material saving and less cost.

复合格栅板的牌号为 (Composite Grating's Code is) : **DGP**

复合格栅板重量表 Composite Grating Weight Table

规格 Code	厚度 Depth(mm)	格栅板型号 Grating Type	单重(kg/m ²) Unit W'gt	最大跨度 Max. Span(mm)
DGP20	23	DG205/60/100	45.3	1100
DGP25	28	DG255/60/100I	49.3	1300
DGP32	35	DG325/60/100I	55.0	1500
DGP38	41	DG385/60/100I	60.0	1700
DGP44	47	DG445/60/100I	64.8	2000
DGP50	53	DG505/60/100I	69.7	2200

表中最大跨度下的载荷为 (Load of max. span) : 5.0KN/m²

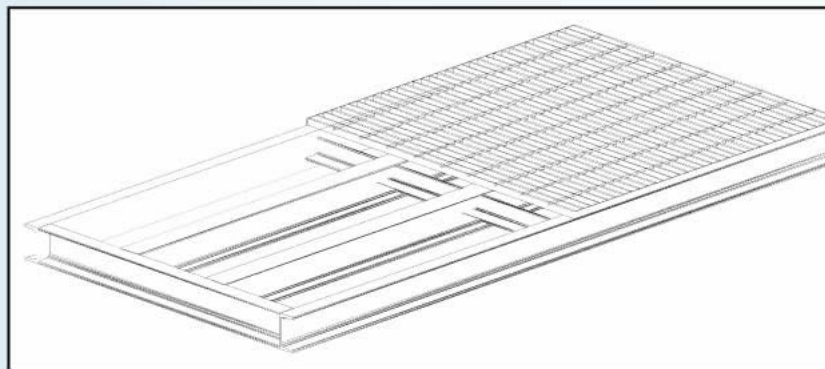


大跨度平台

GREAT SPAN PLATFORM

当格栅板跨度大于3米时，我们推荐采用我公司特别设计的标准大跨度平台，以降低整体造价。其设计依据为：匀布面载荷 $\leq 3.0\text{KN/m}^2$ ，最大挠度 $\leq L/500$ 。

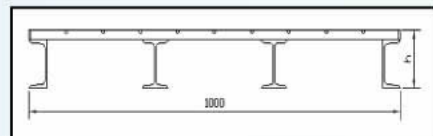
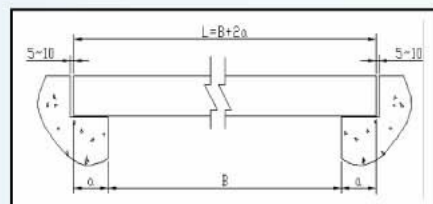
When panel span is more than 3 meters, DAHE Great Span Platform is recommended for its lower material using. The design of Great Span Platform is according to condition as: under uniform load 3.0KN/m^2 , the biggest deflection is no more than $1/500$ of panel length.



大跨度平台的牌号为 (Great Span Platform's Code is) : **ZG (A/B)**

大跨度平台选用表 Table of Dreat-Span Platform

规格 Code	型钢规格 Beam Profile	厚度 Depth h (mm)	钢格板规格 Grating Type	搁置长度 a (mm)	适用跨度 Max. Span(mm)
ZGA100a	C10a	120	DG205/30/100	≥ 50	3000~4000
ZGA100b	C10b	120	DG205/30/100	≥ 60	4000~4500
ZGA145	C12.6	146	DG205/30/100	≥ 75	4500~5000
ZGA150	C12.6+I12.6	151	DG255/30/100I	≥ 80	5000~6000
ZGA165	C14a+I14	165	DG255/30/100I	≥ 100	6000~7000
ZGA185	C16a+I16	185	DG255/30/100I	≥ 100	7000~8500
ZGA205	C18a+I18	205	DG255/30/100I	≥ 100	8500~10000





上海大和积数十年的工程经验，为客户提供全方位的平台解决方案。

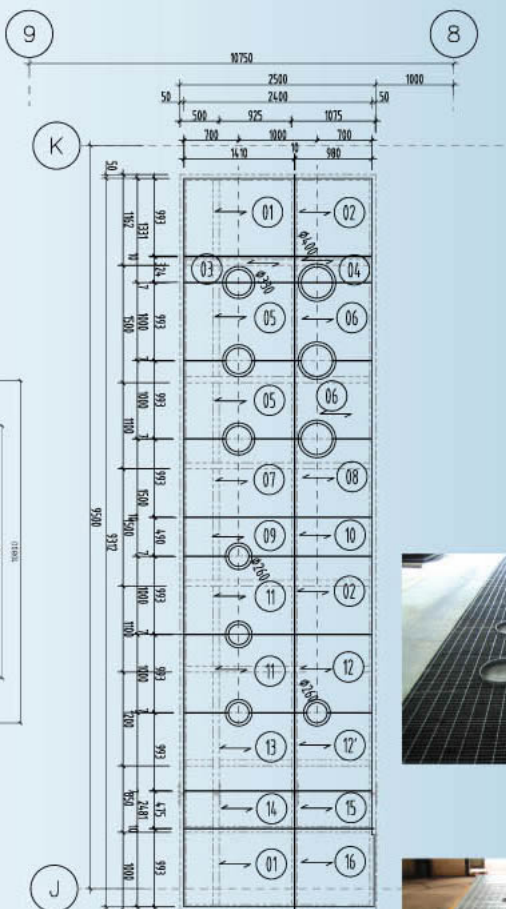
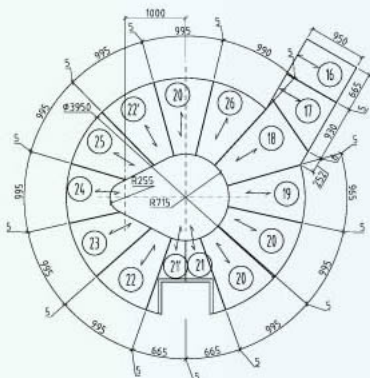
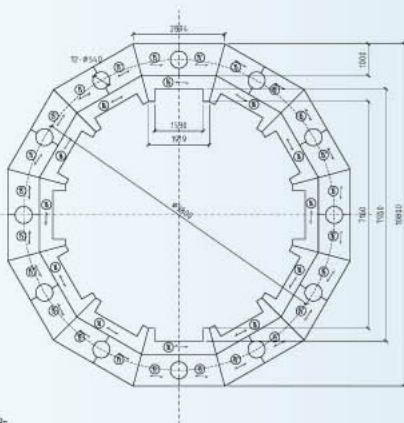
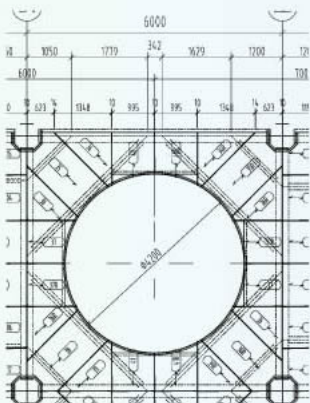
公司更于2004年自主研发了基于AutoCAD平台的格栅板辅助设计系统，每块格栅板的编号、数量统计、清单制作、详图绘制均由计算机自动计算完成。该系统极大地降低了人为错误的可能，大幅度提高了设计效率。在此系统下设计格栅板布置图确保我们的产品可以做到现场零切割。

上海作为国内的经济、交通中心，同时又是全国最大的港口，无论交货地点位于国内任何地方乃至全球任何一个国家，我们均能确保客户及时获得我们的产品。

Experience With decades of professional experiences, SDG offers full solution of platform from walkway to stairway and handrail system.

Technique In 2004, SDG developed a Grating Design Auto System based on AutoCAD by own. Jobs like each grating panel's mark number pointing, quantity statistics, panels' list, detailed drawing of cut-out and etc., are all done by computer automatically. This system avoids any possibility of man-made mistake, and assures no site-cut-off of our products.

Transportation We locates in the biggest port city in China, Shanghai, where guarantee us to send our products to any places in the world rapidly.



上海大和代表 SDG Official Presentative



大和格栅

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上海大和格栅板实业有限公司
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上海大和格栅板实业有限公司厂址一览图

