



SINO GRATING



Steel Grating

PRODUCT CATALOG

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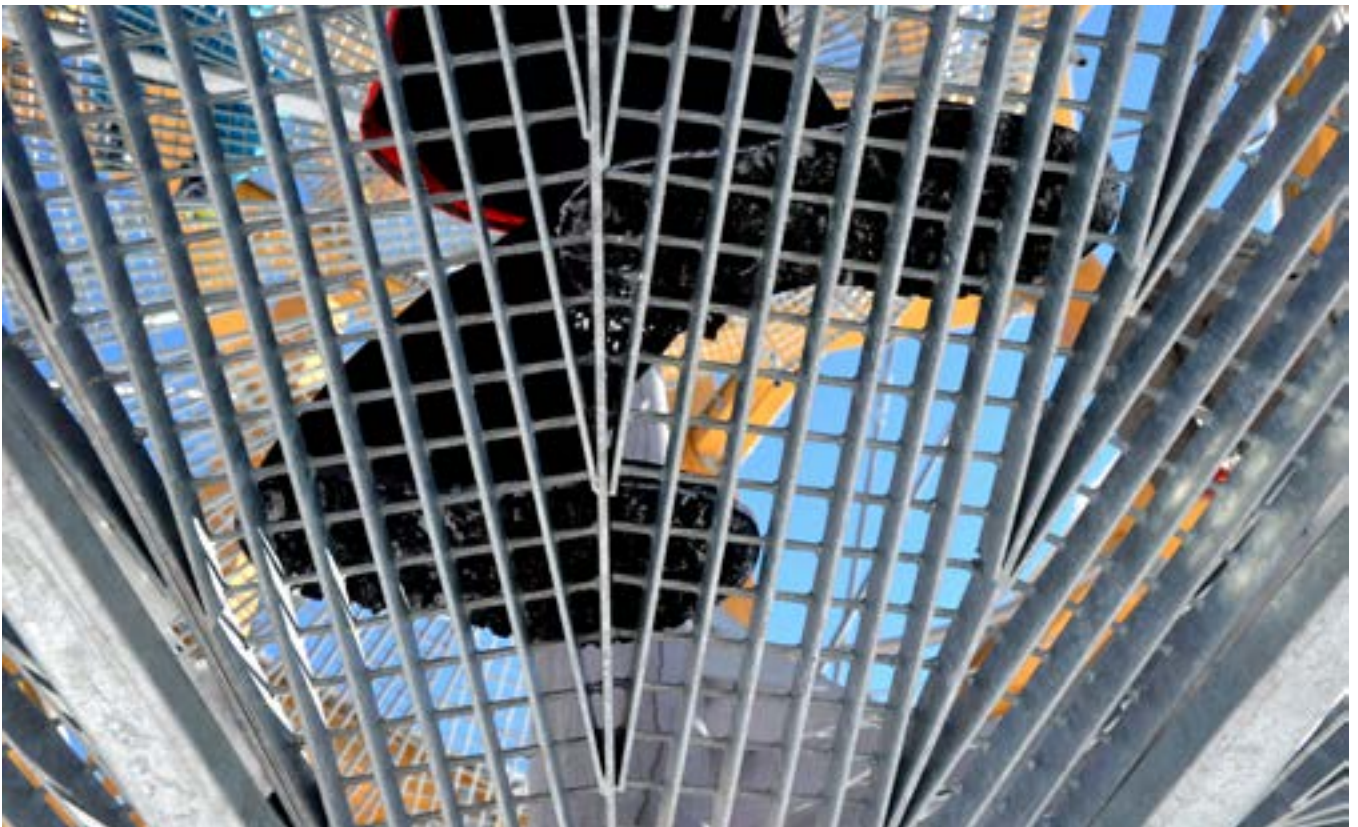


ABOUT US

Sino Grating is one of the largest grating and structures production bases in east China.

As a full-line manufacturer and wholesaler, we offering a vast array of gratings, structures, handrail products and technical supporting. We committed to providing customers with consistently QUICK, STABLE and ACCURARE service. With more than 20 years experience in grating industry, we always adhere to providing customer with continuously high quality, on time delivery, competitive price, and are dedicated to make improvement in every aspect of our operations.

We have extensive experience in a wide variety of projects around the world. We will continue to be committed to creating a better future for our global customers.





PROJECT



- 01-Ocean Platform
- 02-Industrial Flooring
- 03-Stairs
- 04-Steel Mills
- 05-Warehouses
- 06-Sewage Treatment Plant
- 07-Trenches







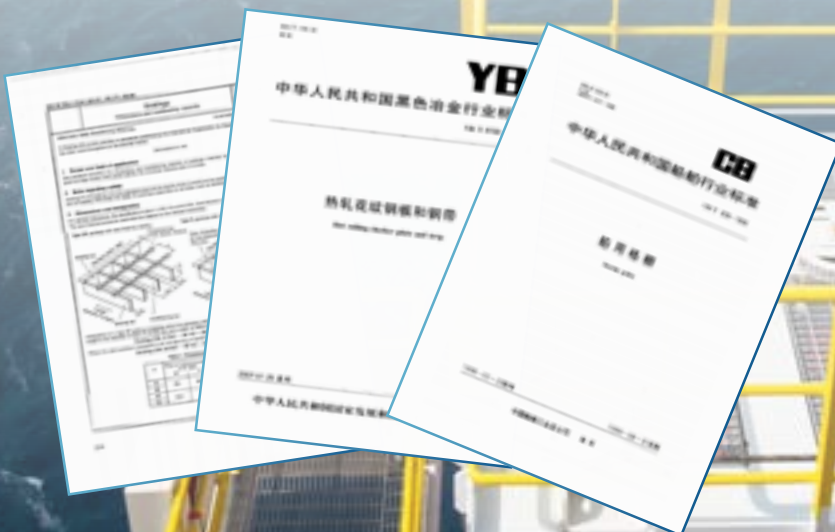
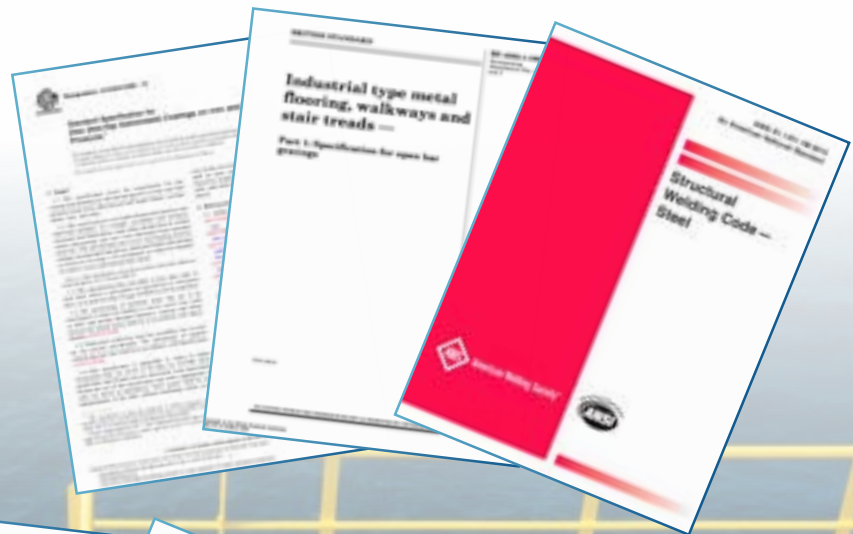
- 08-Treatment Plants
- 09-Airport Engineering
- 10-Walkways
- 11-Maintenance Platforms
- 12-Bridge Decks
- 13-Chemical Plants





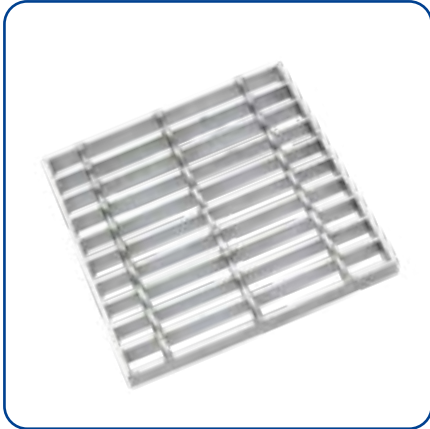


ALL STEEL GRATING PRODUCTION STANDARDS SUPPORTED





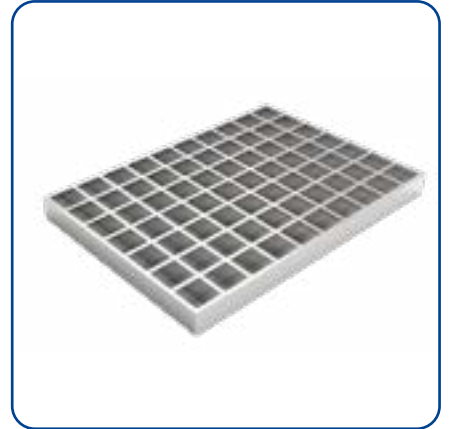
PRODUCT CATEGORY



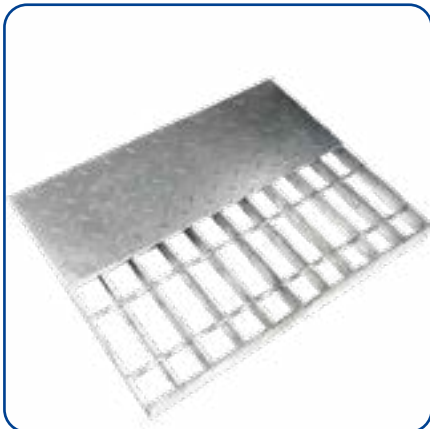
Steel Bar Grating Plain



Steel Bar Grating Serrated



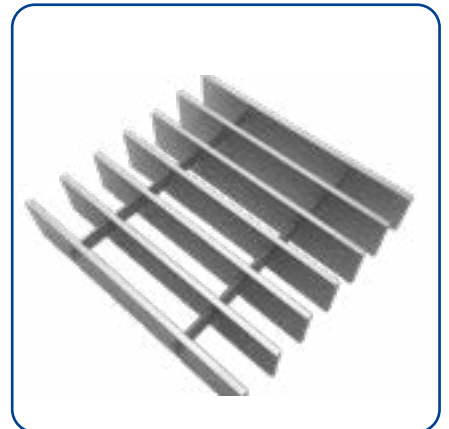
Press Locked Grating



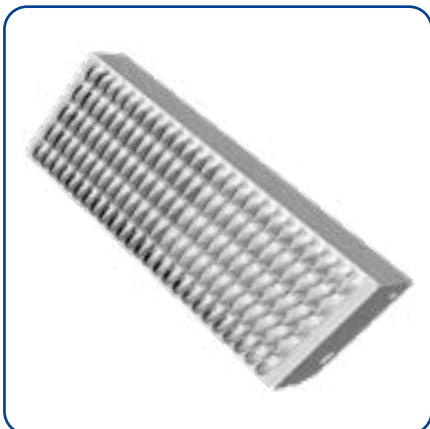
Checked Plate Grating



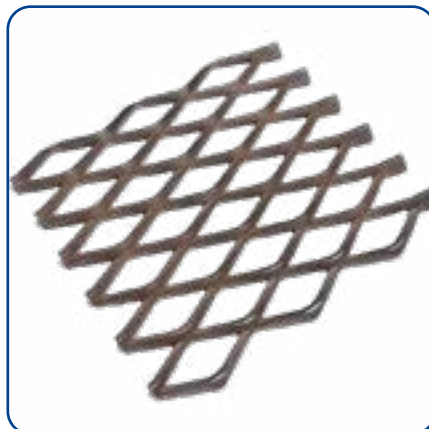
Stainless Bar Grating



Aluminum Bar Grating



Safety Plank Grating



Expanded Mesh



Handrail



STAIR TREADS

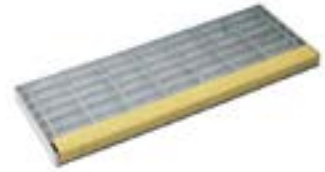
STEEL



T1 – Welded Fixing, No Nosing



T3 – Welded Fixing, Floor plate Nosing



T5 – Welded Fixing, Abrasive Nosing



T2 – Bolted Fixing, No Nosing



T4 – Bolted Fixing, Floor plate Nosing



T6 – Bolted Fixing, Abrasive Nosing

Aluminium



T1 – Welded Fixing, No Nosing



T3 – Welded Fixing, Floor plate Nosing



T5 – Welded Fixing, Abrasive Nosing



T2 – Bolted Fixing, No Nosing



T4 – Bolted Fixing, Floor plate Nosing



T6 – Bolted Fixing, Abrasive Nosing

FRP



Bolted Fixing, Abrasive Nosing



GRATING CLIPS

Tailored to your specific project needs, our grating fastening systems are a high performing solution that sets a new standard.

They are designed to be innovative, ensuring tasks are completed with remarkable efficiency. These systems not only expedite the process but also reduce expenses, making them an economical choice. With a focus on ease of use and enhanced safety, our systems empower you to achieve more with less, revolutionizing the way works.



Fastening Systems	Details	Bearing Bar Center	Mark	Apply	Product Features	
SG-M		30	SG-M30		Drilling holes or welding bolts on beam	Fast and convenient Topside only access needed Removable and reusable Non-trip profile Base steel thickness greater than 20mm may be possible Range of materials to meet corrosion protection needs Eliminating rework on surface coatings
		40	SG-M40			
SG-A		30	SG-A30		In areas where welding or drilling is not permitted	Fast and convenient Topside only access needed Removable and reusable Non-trip profile Base steel thickness greater than 20mm may be possible Range of materials to meet corrosion protection needs Eliminating rework on surface coatings
		40	SG-A40			
SG-T		30	SG-T30		In areas where welding or drilling is not permitted	Installed completely from the top surface of the grating Withstand 6001b maximum force Any panel is easily removed and put back in place later Cordless tooling for total mobility Fit flange thicknesses ranging from 5mm to 20mm Eliminating rework on surface coatings
		40	SG-T40			



MATERIAL & HOT DIP GALVANIZATION STANDARD

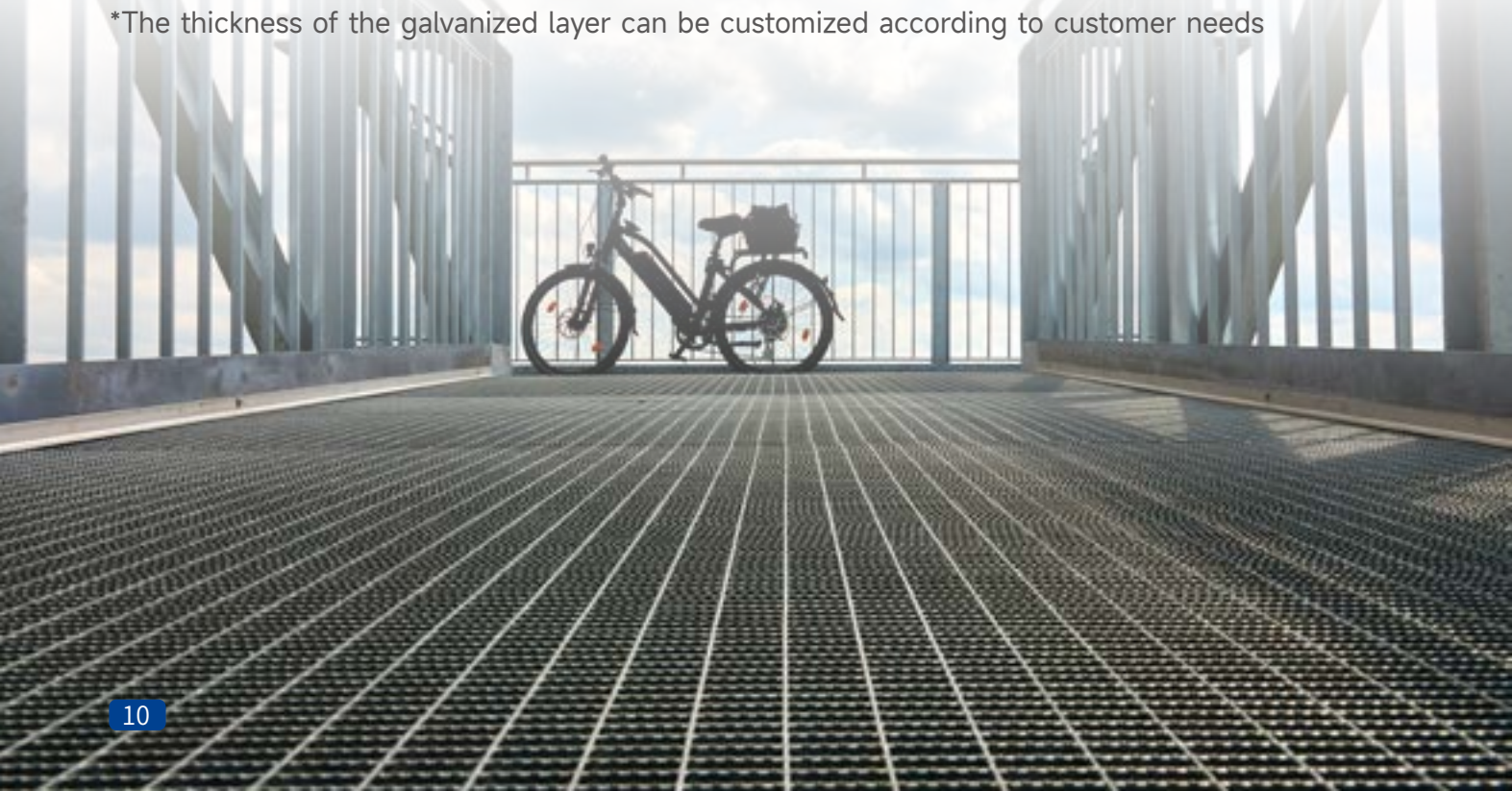
STEEL GRATING MATERIAL

Standard	Manufacture Standard	Steel Material Standard		
		Bearing Bar	Cross Bar	Stainless Steel
China	YB/T 4001.1-2019	GB/T 700 Q235 Q235B	GB/T 700 Q235	ASTM A240 GR304(L)or GR316(L)
USA	ANSI/NAAMM(MBG531-00)	ASTMA1011 CS Type B or ASTM A36	ASTMA510	ASTM A240 GR304(L)or GR316(L)
British	BS4592	BS EN 10025	BS EN 10025	BS EN 10258
Germany	DIN24537-1	DIN EN 10025	DIN EN 10025	DIN EN 10088
Australia	AS1657	BS EN 10025	BS EN 10025	BS EN 10258

HOT DIP GALVANIZATION

Galvanized Standard	China	USA		
	GB/T 13912	ASTMA123/A 123M		
Material Thickness	$3 \leq t \leq 6$	$1.6 \leq t \leq 3.2$	$3.2 \leq t \leq 4.8$	$4.8 \leq t \leq 6.4$
Minimum Average Thickness(μm)	70	65	75	75
Conversion	$\text{mils} = \mu\text{m} \times 0.03937 \quad \text{oz/ft}^2 = \mu\text{m} \times 0.02316 \quad \text{g/m}^2 = \mu\text{m} \times 7.067$			

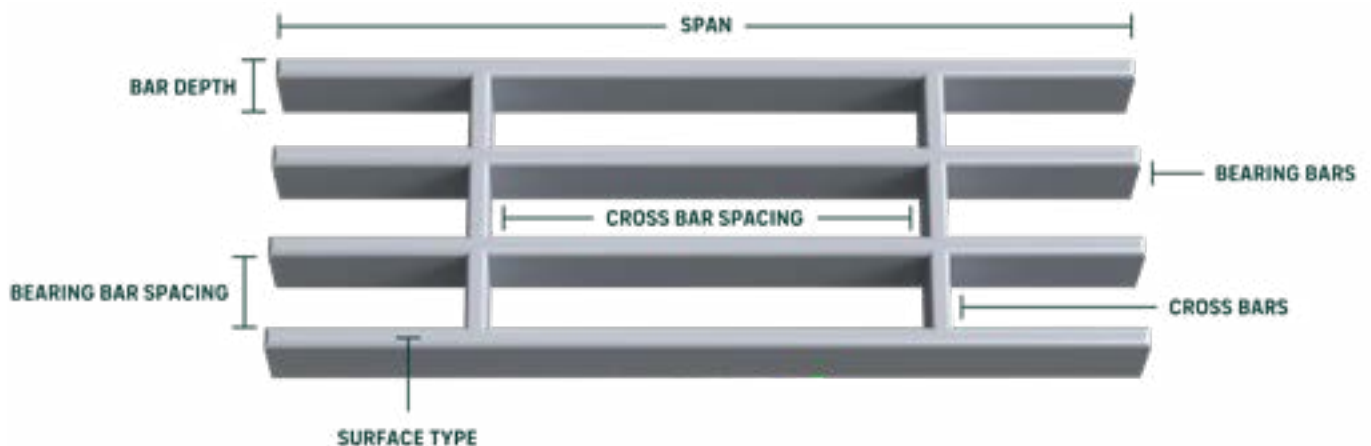
*The thickness of the galvanized layer can be customized according to customer needs





GLOSSARY OF TERMS

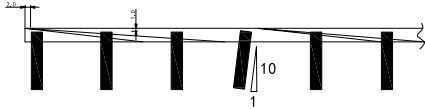
1. Bearing Bar - Loading carrying bars made from steel strip or slit sheet or from rolled or extruded aluminum, extending in the direction of the grating span.
2. Cross Bar - The connection bars, made from steel strip, slit sheet or rolled bars or from rolled or extruded aluminum, which extend across the bearing bars, perpendicular to them. They're bent into a corrugated or sinuous pattern. Where they intersect the bearing bars, welded, forged or mechanically locked to bearing bars.
3. Bearing Bar Centers - The distance center to center of the bearing bars.
4. Cross Bar Centers - The distance center to center of the cross bars.
5. Band - A flat welded to a side or end of grating panel. Or along the line of a cutout, extending neither above nor below bearing bars.
6. Toe Plate- Also called kick plate. A flat bar attached flat against the outer edge of grating or rear edge of tread. Projecting above the top surface of grating or tread to form a lip or curb.
7. Length - Refer to span of grating.
8. Width - The overall dimension of grating panel. Measured normal to the bearing bars.



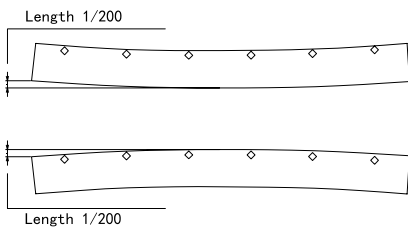


DIMENSION & TOLERANCE & WELDING STANDARDS

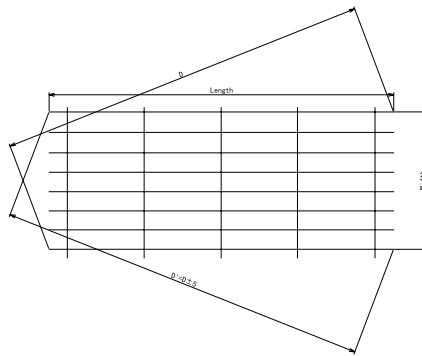
STEEL GRATING DIMENSION & TOLERANCE



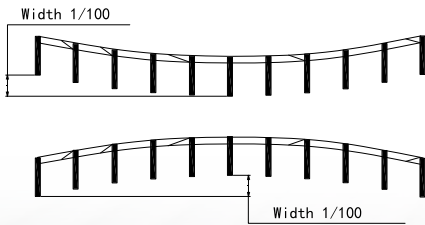
Bearing bars verticality no more than 10% of their width Cross bar location: cross bars shall not be higher than bearing bars top 1mm and ends beyond grating side shall not be greater than 2mm



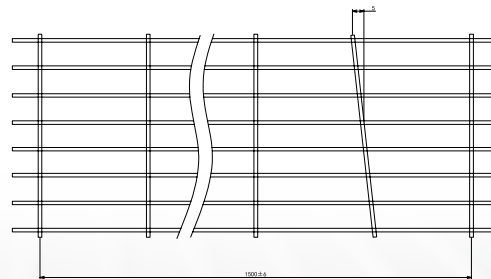
Grating longitudinal bow shall not be more than 1/200 of the length



Grating length allowable deviation + 0 ~ 5 mm, width deviation ±5mm Diagonal allowable deviation less than 5mm



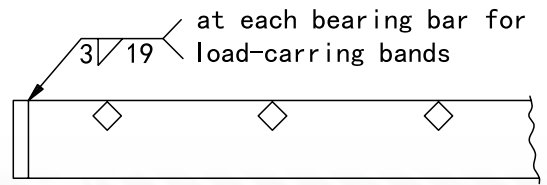
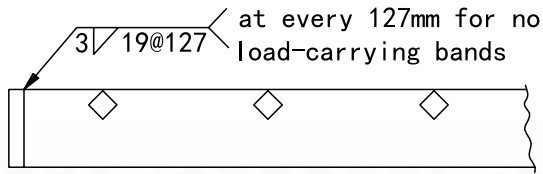
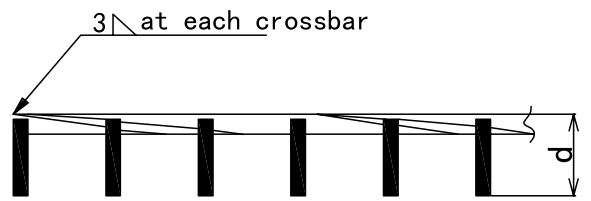
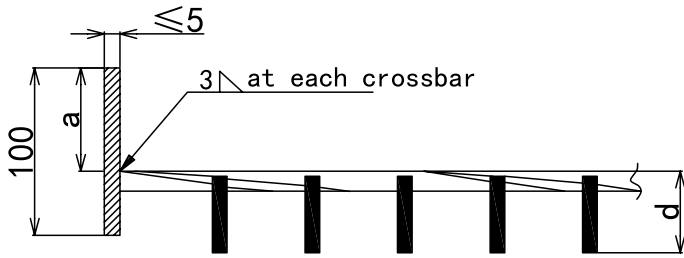
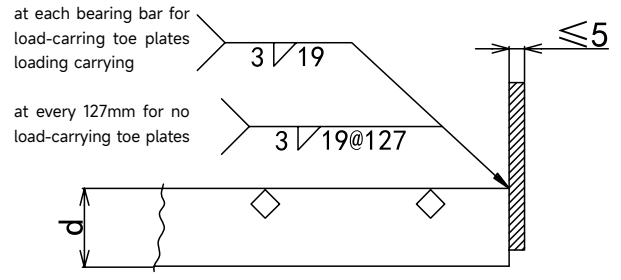
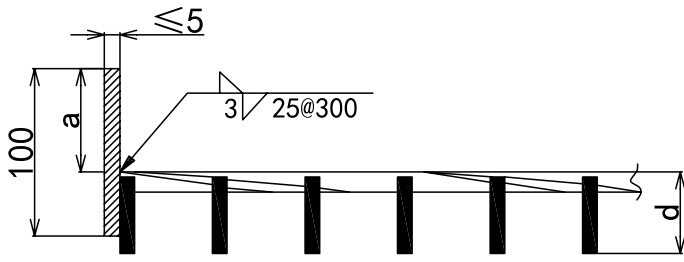
Grating transverse bow shall not be more than 1/100 of the width



Cross bar shall not vary more than 5mm in either direction from perpendicular alignment with bearing bars and spacing shall not vary more than 6mm in 1.5m length



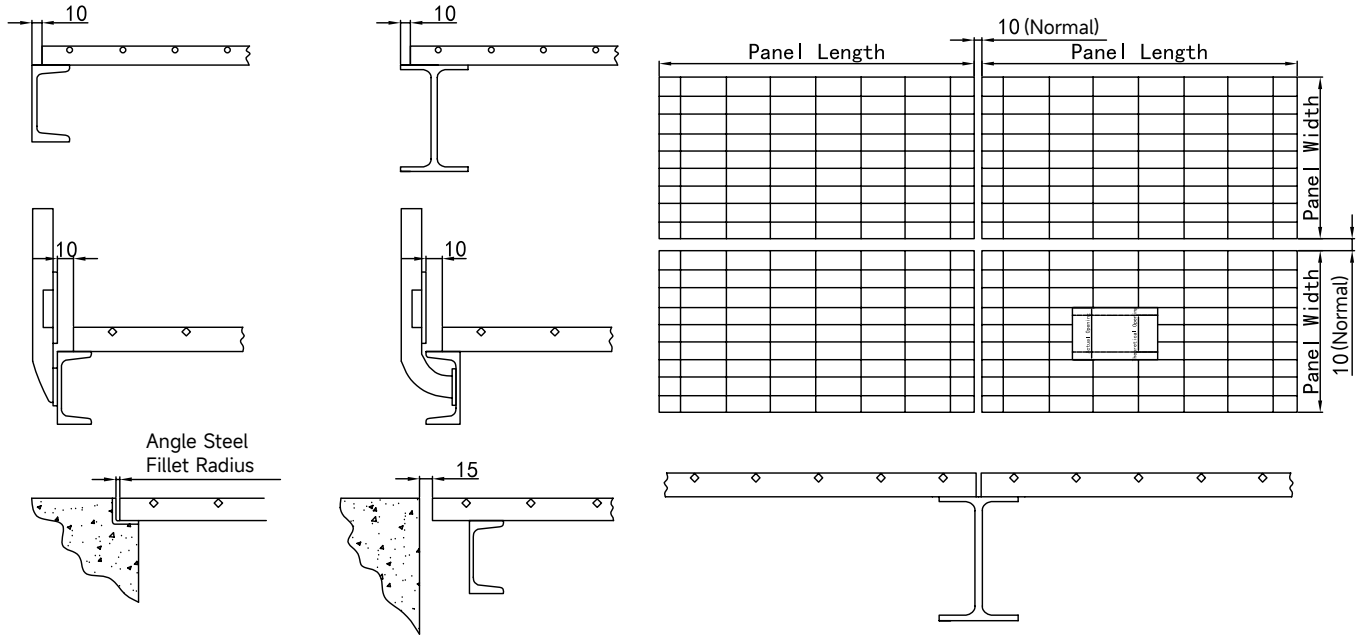
WELDING STANDARDS



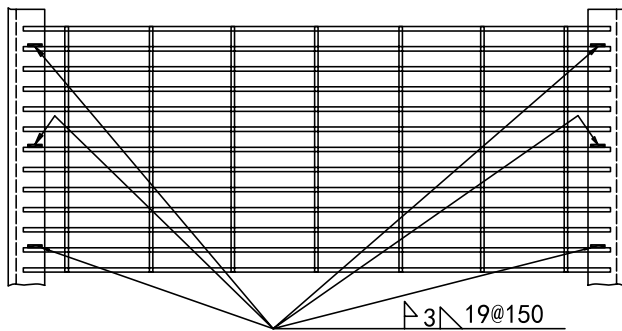
*YB/T 4001.1-2019 regulations at less than 150mm for no load-carrying bands



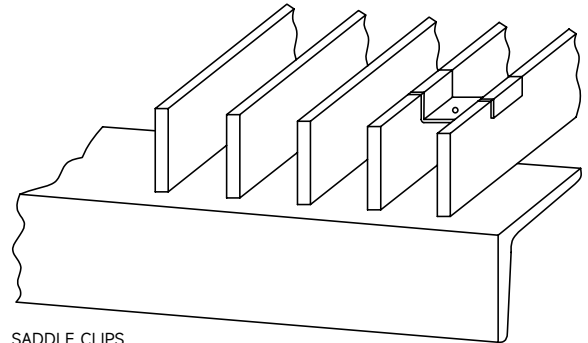
INSTALLATION CLEARANCES



ANCHORING DETAILS



WELDED ANCHORAGE

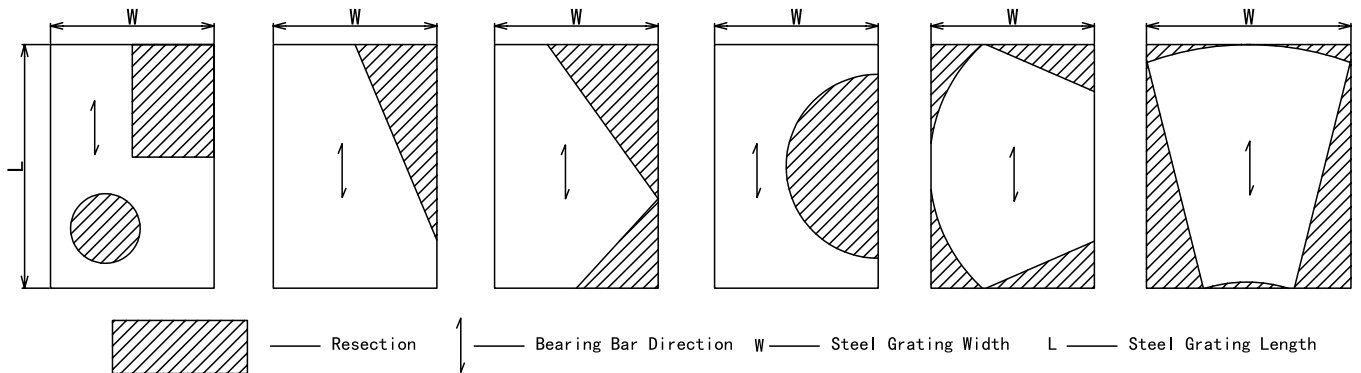


SADDLE CLIPS

Type see page 4

(it is sometimes necessary to cut cross bars during installation for fastener clearance)

AREA MEASUREMENTS

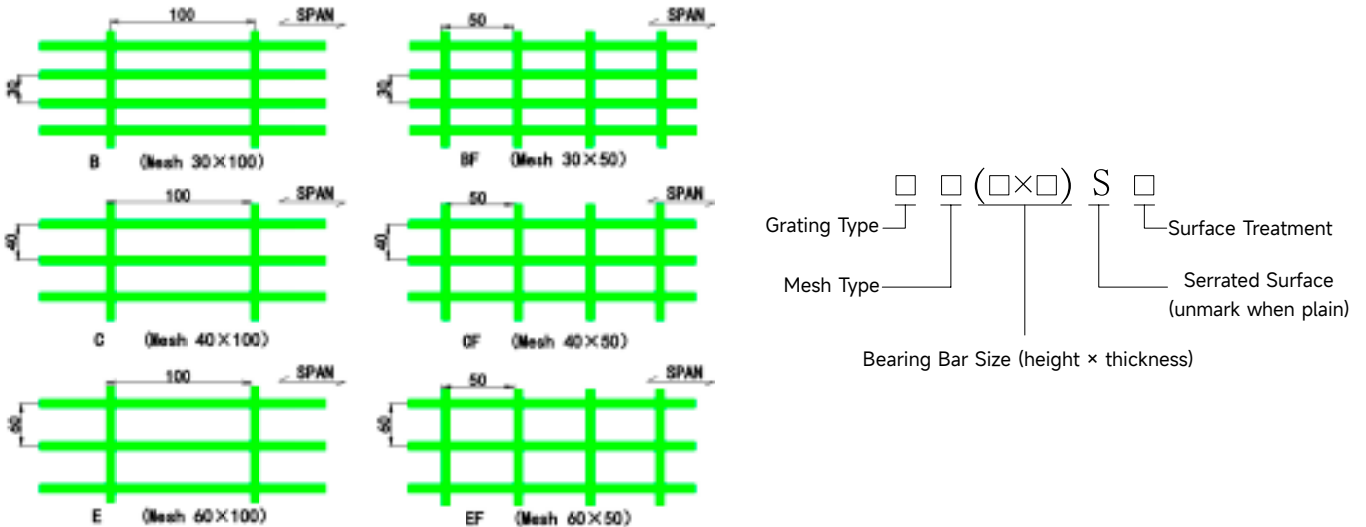


According to YB/T4001.1-2019, the area calculation principle is as following:

The area of the steel grating is calculated based on the external rectangular area ($W \times L$), without deducting the area of the cutout.



GRATING TYPE MARK



Grating Type		Mesh Type	Shape		Material	Surface Treatment
Steel Grating	W	B BF	Serrated Surface	S	Mild Steel	Galvanized(G),Bitumen Dipped(B),Painted(P),Untreated(U)
					Stainless Steel	Acid Cleaning(AC),Electro Polished(E)
Pressure Locked Grating	L	C CF	Plain Surface	unmark	Mild Steel	Galvanized(G),Bitumen Dipped(B),Painted(P),Untreated(U)
		E EF			Stainless Steel	Acid Cleaning(AC),Electro Polished(E)
Aluminium Grating	A				6063-T6 Aluminium	Anodised,Powder Coated,Painted,Untreated

EXAMPLE

- 1.WB(25x5)SG Bearing Bar Center 30mm , Cross Bar Center 100mm, Bearing Bar Size 25mm×5mm , Serrated Surface
Mild Steel ,Galvanized
- 2.AB(25x5)A Bearing Bar Center 30mm , Cross Bar Center 100mm, Bearing Bar Size 25mm×5mm , Plain Surface
Aluminium , Anodised
- 3.LB(25×5)G Bearing Bar Center 30mm , Cross Bar Center 100mm, Bearing Bar Size 25mm×5mm ,Cross Bar Size 25mm×5mm
Plain Surface , Mild Steel , Galvanized

NOTE: if bearing bar and cross bar are different, please indicate respectively
Mark:LB(30x5/20x5)G



QUICK GUIDE

Except for the recommended types below, the steel grating with the bearing bar size over 75x 6 cm can also be designed and produced for application in overloaded & super-span project.

LIGHT & MEDIUM DUTY

MAXIMUM RECOMMENDED SPANS

Bearing Bar Size(mm)	Available for Maintenance Platform			Available for Pedestram			Available for Crowded Pedestram		
	UDL=2.5kPa			UDL=3kPa			UDL=4kPa		
	Deflection=5mm			Deflection=5mm			Deflection=5mm		
	Bearing bar spacing(mm)			Bearing bar spacing(mm)			Bearing bar spacing(mm)		
	30	40	60	30	40	60	30	40	60
20x3	1190	1110	1000	1140	1060	960	1060	980	890
25x3	1410	1310	1180	1350	1250	1130	1250	1170	1050
32x3	1700	1580	1430	1620	1510	1350	1510	1400	1270
40x3	2010	1870	1690	1920	1780	1610	1780	1660	1500
20x5	1350	1260	1140	1290	1200	1090	1200	1120	1010
25x5	1600	1490	1350	1530	1420	1290	1420	1320	1200
32x5	1930	1790	1620	1840	1710	1550	1710	1590	1440
40x5	2280	2120	1920	2180	2030	1830	2030	1890	1700

HEAVY DUTY

MAXIMUM RECOMMENDED SPANS

Bearing Bar Size(mm)	Factory, Workshop, Motor Rooms and Trolley Channel						Heavy Loading Area, Boiler Equipment and Heavy Equipment Area					
	UDL=5kPa						UDL=7.5kPa					
	Deflection=5mm			Deflection=10mm			Deflection=5mm			Deflection=10mm		
	Bearing bar spacing(mm)			Bearing bar spacing(mm)			Bearing bar spacing(mm)			Bearing bar spacing(mm)		
	30	40	60	30	40	60	30	40	60	30	40	60
25x5	1350	1250	1130	1600	1490	1350	1220	1130	1020	1450	1350	1220
32x5	1620	1510	1360	1930	1790	1620	1460	1360	1230	1740	1620	1460
40x5	1920	1780	1610	2280	2120	1920	1730	1610	1460	2060	1920	1730
45x5	2090	1950	1760	2490	2320	2090	1890	1760	1590	2250	2090	1890
50x5	2270	2110	1910	2700	2510	2270	2050	1910	1720	2440	2270	2050
55x5	2440	2270	2050	2900	2700	2440	2200	2050	1850	2620	2440	2200
65x5	2760	2570	2320	3290	3060	2760	2490	2320	2100	2970	2760	2490
75x5	3080	2860	2590	3660	3400	3080	2780	2590	2340	3300	3080	2780
75x6	3220	3000	2710	3830	3560	3220	2910	2710	2440	3460	3220	2910



MILD STEEL GRATING TABLE OF LOADS AND DEFLECTIONS

Bearing Bar Center 30mm

TYPE	Mass kg/m ²		SPAN	PAN	SPAN	SPAN	SPAN	SPAN									
			200	400	600	800	1000	1200									
WB(20x5)	33	U	377	94	41	23	15	10									
WBF(20x5)	36	D	0.34	1.37	3.05	5.44	8.73	12.21									
WB(25x3)	26.3	U	354	88	39	22	14	9	SPAN								
WBF(25x3)	29.3	D	0.28	1.1	2.47	4.43	6.94	9.35	1400								
WB(25x5)	40.4	U	590	147	65	36	23	16	12	SPAN							
WBF(25x5)	43.4	D	0.28	1.1	2.47	4.35	6.82	9.92	13.9	1600							
WB(32x3)	32.8	U	580	145	64	36	23	16	11	9	SPAN						
WBF(32x3)	35.8	D	0.21	0.86	1.93	3.45	5.41	7.85	10.09	14.19	1800						
WB(40x3)	40.3	U	906	223	100	56	36	25	18	14	11						
WBF(40x3)	43.3	D	0.17	0.69	1.54	2.74	4.32	6.25	8.39	11.2	14.21						
WB(32x5)	50.9	U	967	244	107	60	38	26	19	15	11	SPAN					
WBF(32x5)	53.9	D	0.22	0.86	1.94	3.44	5.35	7.64	10.42	14.13	16.81	2000					
WB(38x5)	60.5	U	1252	313	139	78	50	34	25	19	15	12					
WBF(38x5)	63.5	D	0.18	0.74	1.66	2.97	4.66	6.61	9.05	11.81	15.05	18.51					
WB(40x5)	62.9	U	1511	377	167	94	60	41	30	23	18	15	SPAN				
WBF(40x5)	65.9	D	0.17	0.69	1.54	2.76	4.31	6.14	8.37	11.02	13.02	17.8	2200				
WB(50x3)	49.6	U	1416	354	157	88	56	39	28	22	17	14	11				
WBF(50x3)	52.6	D	0.14	0.55	1.24	2.2	3.43	4.97	6.65	8.95	11.16	14.09	16.37				
WB(45x5)	70.4	U	1912	478	212	119	76	53	39	29	23	19	15	SPAN			
WBF(45x5)	73.4	D	0.15	0.61	1.38	2.45	3.83	5.56	7.62	9.73	12.44	15.76	18.39	2400			
WB(50x5)	77.9	U	2361	590	262	147	94	65	48	36	29	23	19	16	SPAN	SPAN	SPAN
WBF(50x5)	80.9	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	2600	2800	3000
WB(65x5)	100.4	U	3990	997	443	248	159	110	81	62	49	39	32	27	23	20	17
WBF(65x5)	103.4	D	0.11	0.42	0.95	1.7	2.65	3.81	5.22	6.84	8.7	10.61	12.82	15.4	18.18	21.4	24.18

U=Uniform load kN/ m² D=Maximum deflection mm
 Spans in the table above have a deflection,D<4mm for U=2kN/ m²,which is a limiting deflection for pedestrian comfort
 If single plate area is less than 1 m², mass will increase.

CONVERSION DATA: SERRATED GRATING													
grating size	20x5	25x3	25x5	32x3	32x5	38x5	40x3	40x5	45x5	50x3	50x5	85x5	
Multiply U by:	-	0.77	0.77	0.81	0.81	0.84	0.87	0.87	0.85	0.88	0.88	0.9	
Multiply deflection by:	-	1.14	1.14	1.11	1.11	1.09	1.07	1.07	1.08	1.07	1.07	1.05	

NOTE:all deflections are theoretical and are based on standard engineering practices.They are provided for design selection only and should not be consider as absolute

STANDARD WIDTH															
Number of bearing bars	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Nominal width	125	155	185	215	245	275	305	335	365	395	425	455	485	515	545
Number of bearing bars	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
Nominal width	575	605	635	665	695	725	755	785	815	845	875	905	935	965	995
															MAX



MILD STEEL GRATING TABLE OF LOADS AND DEFLECTIONS

Bearing Bar Center 40mm

TYPE	Mas kg/m ²		SPAN														
			200	400	600	800	1000	1200									
WC(20x5)	26.3	U	283	70	31	17	11	7									
WCF(20x5)	29.3	D	0.34	1.38	3.08	5.37	8.56	11.48									
WC(25x3)	21.3	U	265	66	29	16	10	7	SPAN								
WCF(25x3)	24.3	D	0.27	1.1	2.45	4.3	6.63	9.71	1400								
WC(25x5)	32.1	U	442	110	29	27	17	12	9								
WCF(25x5)	35.1	D	0.27	1.1	2.48	4.35	6.74	9.84	10.46								
WC(32x3)	26.4	U	435	108	48	27	17	12	8	SPAN							
WCF(32x3)	29.4	D	0.21	0.86	1.93	3.45	5.34	7.86	7.37	1600							
WC(32x5)	40.3	U	725	181	80	45	29	20	14	11	SPAN						
WCF(32x5)	43.3	D	0.21	0.86	1.93	3.45	5.45	7.84	7.7	13.86	1800						
WC(40x3)	32.3	U	880	170	75	42	27	18	12	10	8						
WCF(40x3)	35.3	D	0.17	0.69	1.54	2.74	4.32	8.01	6.08	10.71	13.84						
WC(38x5)	47.71	U	957	239	106	59	38	26	19	14	11	SPAN					
WCF(38x5)	50.74	D	0.18	0.75	1.7	2.99	4.73	6.73	9.16	11.63	14.93	2000					
WC(40x5)	49.6	U	1133	283	125	70	45	31	23	17	13	11					
WCF(40x5)	52.6	D	0.17	0.69	1.54	2.74	4.32	8.2	6.42	10.88	13.45	17.47					
WC(50x3)	39.6	U	1062	265	118	66	42	29	21	16	13	10	SPAN				
WCF(50x3)	42.6	D	0.14	0.55	1.24	2.2	3.43	4.94	4.99	8.71	11.4	13.49	2200				
WC(45x5)	55.4	U	1434	358	159	89	57	39	29	22	17	14	11				
WCF(45x5)	58.4	D	0.15	0.81	1.38	2.44	3.83	5.46	5.67	9.85	12.28	15.53	18.05				
WC(50x5)	61.2	U	1770	442	196	110	70	49	36	27	21	17	14	SPAN		SPAN	
WCF(50x5)	64.2	D	0.14	0.55	1.24	2.2	3.43	5	5.12	8.79	11.02	13.69	16.64	2400		2600	
WC(65x5)	78.7	U	2992	748	332	187	119	83	61	46	36	29	24	20		17	
WCF(65x5)	81.7	D	0.11	0.42	0.95	1.7	2.65	3.84	3.93	6.78	8.54	10.54	12.84	15		21.46	

U=Uniform load kN/ m² D=Maximum deflection mm

Spans in the table above have a deflection,D<4mm for U=2kN/ m²,which is a limiting deflection for pedestrian comfort
If single plate area is less than 1 m² , mass will increase.

CONVERSION DATA: SERRATED GRATING													
grating size	20x5	25x3	25x5	32x3	32x5	38x5	40x3	40x5	45x5	50x3	50x5	85x5	
Multiply U by:	-	0.77	0.77	0.81	0.81	0.84	0.87	0.87	0.85	0.88	0.88	0.9	
Multiply deflection by:	-	1.14	1.14	1.11	1.11	1.09	1.07	1.07	1.08	1.07	1.07	1.05	

NOTE:all deflections are theoretical and are based on standard engineering practices.They are provided for design selection only and should not be consider as absolute

STANDARD WIDTH													
Number of bearing bars	4	5	6	7	8	9	10	11	12	13	14	15	
Nominal width	125	165	205	245	285	325	365	405	445	485	525	585	
Number of bearing bars	16	17	18	19	20	21	22	23	24	25	26		
Nominal width	605	645	685	725	765	805	845	885	925	965	1005		
												MAX	



MILD STEEL GRATING TABLE OF LOADS AND DEFLECTIONS

Bearing Bar Center 60mm

TYPE	Mass kg/m ²		SPAN																
			200	400	600	800	1000												
WE(20x5)	19.82	U	173	43	19	10	6	SPAN											
WEF(20x5)	22.84	D	0.35	1.4	3.15	5.26	7.79												
WE(25x3)	15.62	U	180	45	20	11	7	1200											
WEF(25x3)	18.64	D	0.28	1.12	2.54	4.44	6.95												
WE(25x5)	24.02	U	301	75	22	18	12	10	SPAN										
WEF(25x5)	27.04	D	0.28	1.12	2.51	4.35	7.13	9.95											
WE(32x3)	19.15	U	295	73	32	18	11	8	1400										
WEF(32x3)	22.17	D	0.22	0.87	1.93	3.45	5.17	7.85											
WE(32x5)	29.9	U	493	123	54	30	19	13	10	SPAN									
WEF(32x5)	32.92	D	0.22	0.88	0.94	1.09	5.35	7.64	10.96										
WE(40x3)	23.18	U	462	115	51	28	18	12	9	1600									
WEF(40x3)	26.21	D	0.17	0.7	1.57	2.47	4.32	6.01	8.4										
WE(38x5)	34.94	U	695	173	77	43	27	19	14	10	SPAN								
WEF(38x5)	37.96	D	0.18	0.73	1.66	2.94	4.54	6.65	9.14	11.24									
WE(40x5)	36.62	U	770	192	85	48	30	21	15	12	1800								
WEF(40x5)	39.64	D	0.18	0.7	1.57	2.82	4.33	6.3	9.38	11.52									
WE(50x3)	28.22	U	722	180	80	45	28	20	14	11	8	SPAN							
WEF(50x3)	32.24	D	0.14	0.56	1.26	2.25	3.43	5.1	6.66	8.97	10.52								
WE(45x5)	40.82	U	975	243	108	60	39	27	19	15	12	2000							
WEF(45x5)	43.84	D	0.18	0.62	1.4	2.47	3.93	5.68	7.44	10.08	13								
WE(50x5)	45.02	U	1204	301	133	75	48	33	24	18	14	12	SPAN						
WEF(50x5)	48.04	D	0.14	0.56	1.26	2.26	3.52	5.05	6.84	8.8	11.03	14.49							
WE(65x5)	57.62	U	2035	508	228	127	81	56	41	31	25	20	2200	SPAN	SPAN	SPAN			
WEF(65x5)	60.64	D	0.06	0.24	0.54	0.97	1.51	2.17	2.97	3.85	5.01	6.16							
													7.3	9.11	10.87				

U=Uniform load kN/ m² D=Maximum deflection mm

Spans in the table above have a deflection, D<4mm for U=2kN/ m², which is a limiting deflection for pedestrian comfort. If single plate area is less than 1 m², mass will increase.

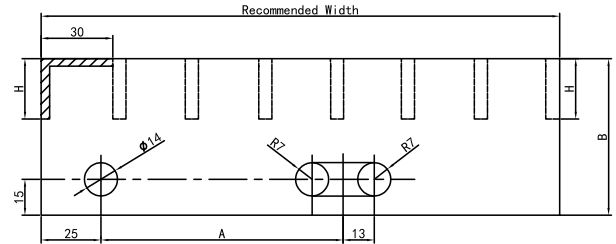
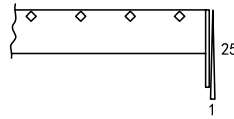
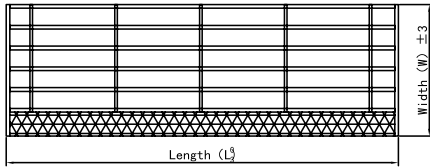
STANDARD WIDTH													
grating size	20x5	25x3	25x5	32x3	32x5	38x5	40x3	40x5	45x5	50x3	50x5	85x5	
Multiply U by:	-	0.77	0.77	0.81	0.81	0.84	0.87	0.87	0.85	0.88	0.88	0.9	
Multiply deflection by:	-	1.14	1.14	1.11	1.11	1.09	1.07	1.07	1.08	1.07	1.07	1.05	

NOTE:all deflections are theoretical and are based on standard engineering practices.They are provided for design selection only and should not be consider as absolute

STANDARD WIDTH																
Number of bearing bars	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
Nominal width	125	185	245	305	385	425	485	545	605	665	725	785	845	905	965	
																MAX



TREADS

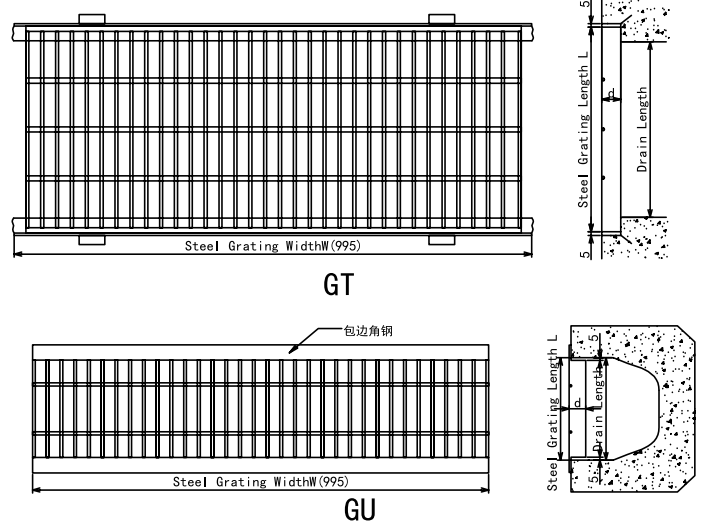
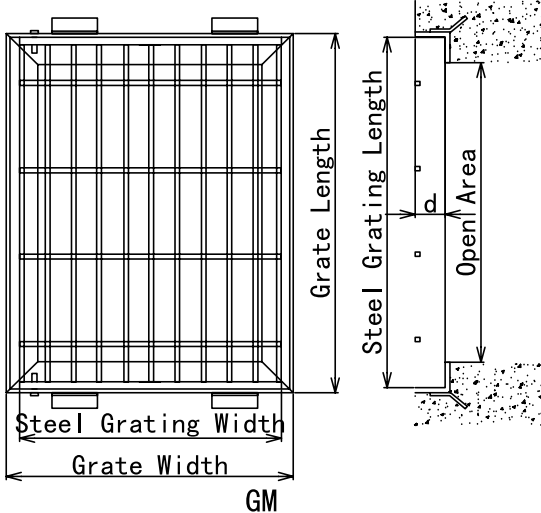


Bearing Bar Size	Steel Treads			
	Maximum Tread Length			
	@30o.c.		@40o.c.	
	Plain	Serrated	Plain	Serrated
20x5	750	-	650	-
25x3	750	650	600	550
25x5	1000	850	800	700
32x5	1400	1200	1200	1000
40x5	1700	1600	1600	1500

Recommend Tread			Width
@30o.C.	@40o.c.		Bolt Center Distance
T1-T6	T1-T2	T3-T4	A
125	125	115	45
155	165	155	75
185			75
215	205	195	100
245	245	235	100
275	285	275	150
305	325	315	150

Dimension B in tread with carrier plate detail		
Grating Depth h	Dimension B	H
≤ 32	65	h
>32	>70	h

GRATES



SPAN	Load 2000kg		6000kg		14000kg		20000kg		25000kg	
	Wheel Load 8kN		24kN		56kN		80kN		100kN	
	Print Area 200x160		200x240		200x500		200x500		200x500	
	T-2		T-6		T-14		T-20		T-25	
	30	40	30	40	30	40	30	40	30	40
100	20x5	20x5	25x5	25x5	25x5	25x5	25x5	25x5	32x5	32x5
200	20x5	20x5	32x5	32x5	32x5	32x5	38x5	40x5	45x5	45x5
300	25x5	30x5	38x5	40x5	45x5	50x5	50x5	55x5	50x5	60x5
400	25x5	35x5	50x5	55x5	50x5	60x5	55x5	70x5	65x5	75x6
500	45x5	50x5	50x5	65x5	60x5	70x6	75x5	75x8	75x6	75x8
600	50x5	55x5	55x5	75x5	75x5	75x8	75x8	80x8	80x8	90x8

For special heavy load requirements, please provide the use place and the use of detailed parameters, such as wheel load and tire print area, we suggest selection, be determined by the customer, such as the ditch in the airport.



PRESS-LOCKED GRATING

Press-locked grating or pressure-locked grating incorporates tight-fitting, slotted bearing bar and cross bars locked together. The permanent locking of the bars is accomplished by slotting the bearing bars with a wider “dovetail” shape at the bottom of the slot.

The bearing bar slot is usually 1/2 the depth of the cross bar. The cross bars are slotted to a depth slightly less than half the bar depth. When bars are pressed together under hydraulic pressure, the cross bars are forced into the “dovetail” shape of the bearing bar notch, forming a strong and rigid unit.

Features:

1. The mesh specifications of the press-locked steel grating are diverse, which can meet the needs of different users.
2. The press-locked steel grating has the same load-bearing capacity and mesh structure as the press-welded steel grating.
3. The press-locked steel grating has better lateral force performance than the press-welded steel grating.
4. The load-bearing type selection of the press-locked steel grating refers to the ordinary steel grating, or you can consult our company directly.

STAINLESS STEEL GRATING

Stainless steel grating is made of stainless steel bearing bar and stainless steel twisted rod (or round bar). Through pressure-welding, compared with mild steel grating, it is more good looking and anti-rust. It's widely used in food, marine, construction and health care industries.

Material conforms to ASTM A240 GR304(L) or GR316(L).

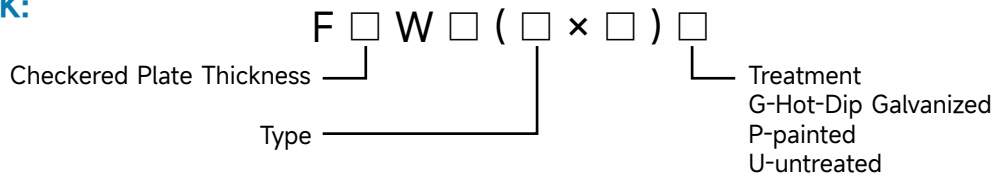
Loads and deflections of stainless steel grating could refer to mild steel grating.

COMPOSITE STEEL GRATING

Composite steel grating is made of steel grating as base plate and checkered plate welded on the surface.

During layout design, usually select standard checkered plate width (1060 mm or 1025 mm) to carry on the reasonable configuration.

TYPE MARK:



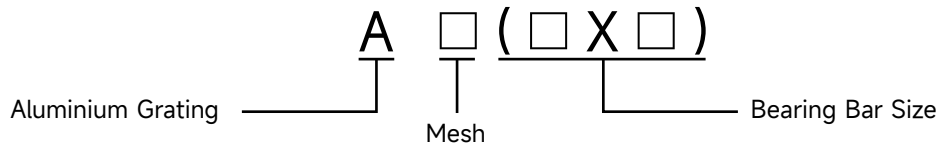
EXAMPLE: F3WB(25×5)G



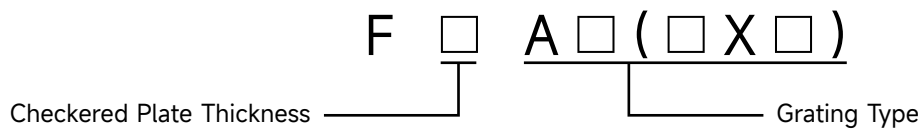


ALUMINUM GRATING

ALUMINIUM GRATING



COMPOSITE ALUMINIUM GRATING



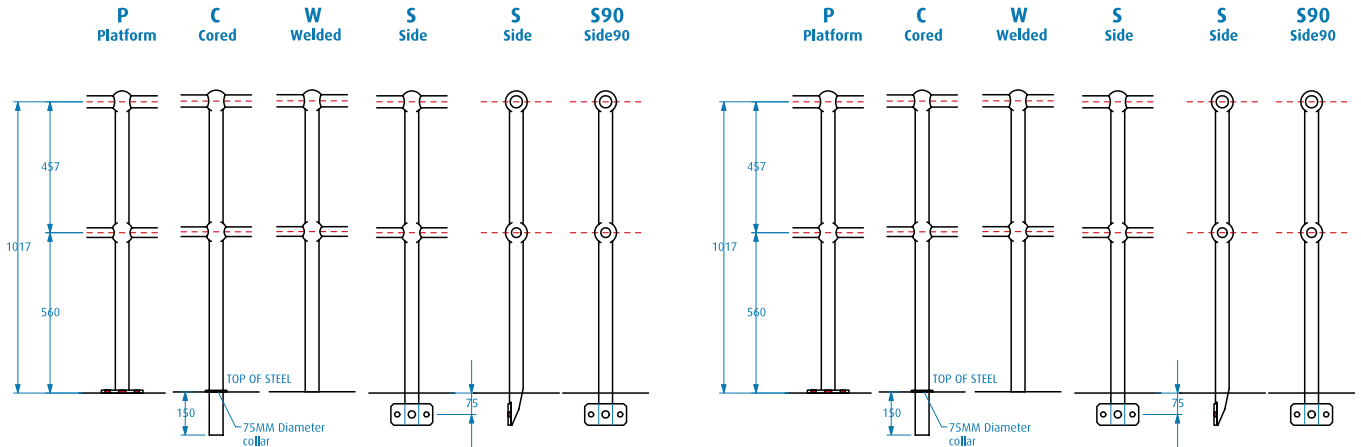
QUICK GUIDE

Bearing Bar Size(mm)	Available for Maintenance Platform			Available for Pedestram			Available for Crowded Pedestram		
	UDL=2.5kPa			UDL=3kPa			UDL=4kPa		
	Deflection=5mm			Deflection=5mm			Deflection=5mm		
	Bearing bar spacing (mm)			Bearing bar spacing (mm)			Bearing bar spacing (mm)		
	30	40	60	30	40	60	30	40	60
20×5	1004	936	848	986	919	832	920	857	776
25×3	1074	1001	906	1028	958	867	958	893	808
25×5	1215	1134	1027	1163	1085	983	1086	1012	916
32×3	1290	1203	1090	1235	1151	1042	1152	1073	971
32×5	1458	1361	1234	1396	1303	1181	1304	1216	1101
40×3	1522	1420	1287	1457	1359	1231	1360	1267	1147
38×5	1654	1545	1402	1585	1480	1342	1481	1381	1252
40×5	1717	1604	1456	1646	1537	1394	1538	1435	1300
50×3	1794	1675	1519	1719	1604	1453	1605	1496	1355
45×5	1871	1749	1589	1794	1676	1521	1677	1566	1419
50×5	2021	1890	1717	1938	1811	1645	1813	1692	1535
65×5	2444	2289	2083	2347	2196	1996	2198	2054	1864



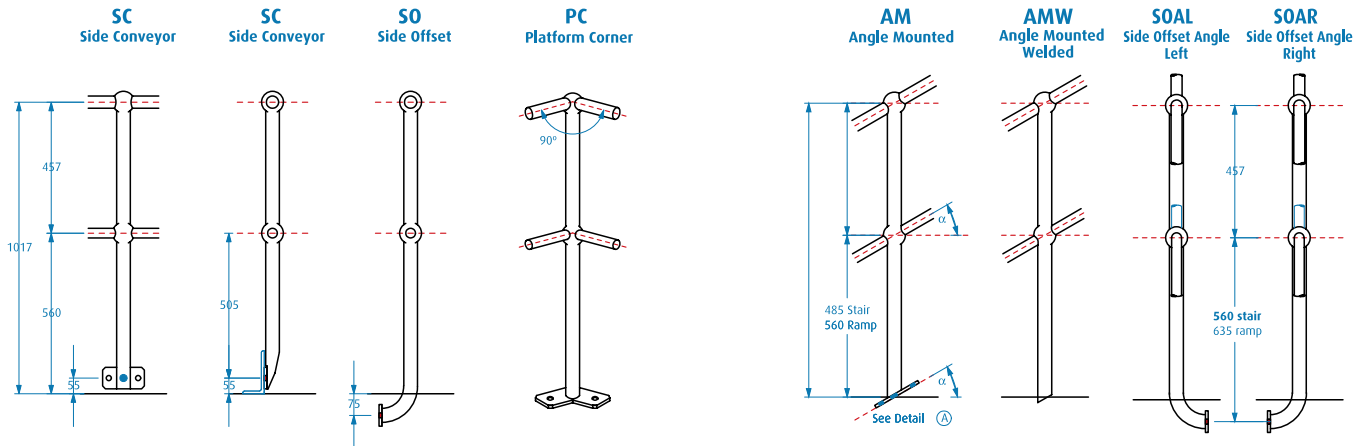
BALL JOINT HANDRAIL SYSTEM

BALL JOINT HANDRAIL



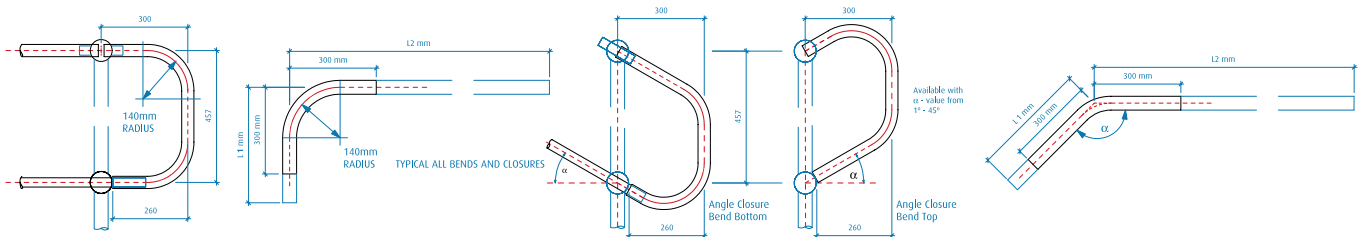
Stanchion Type

Stanchion Type



Stanchion Type

Stanchion Type

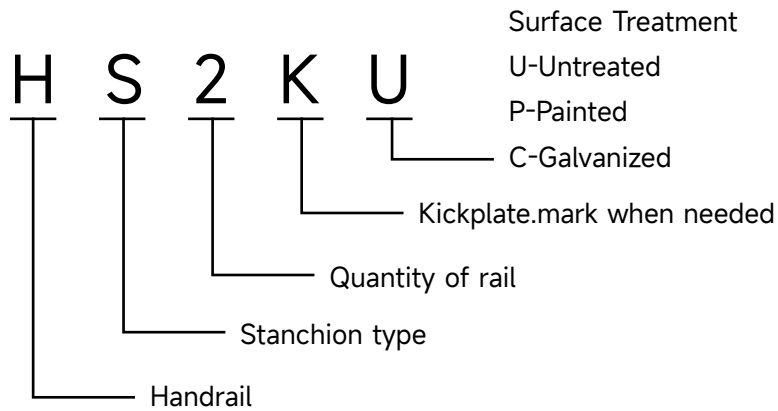


Ball joint handrail is easy installation, durable and widely used in mining, power ,petrochemical, etc. conform to BS6399,AS1650-1985 and Chinese standard GB4053.3/GB17888.3.



Material Type	Stanchion		Handrail	
	Stanchion Pipe	Ball	Top-rail	Knee-rail
Standard	Ø48×3	Ø76×3	Ø42.3×2.75	Ø33.5×2.75
Economical	Ø42×3	Ø66×3	Ø33.5×2.5	Ø26.8×2.5

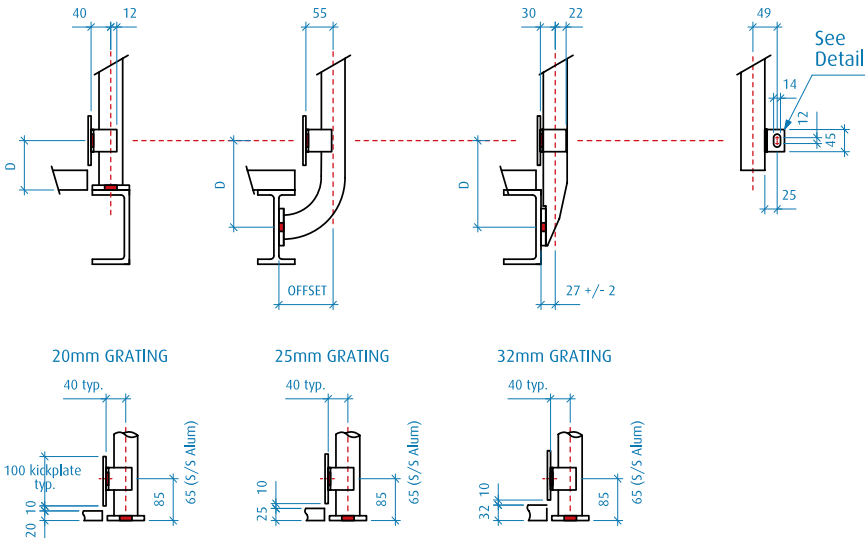
TYPE MARK





BALL JOINT HANDRAIL SYSTEM

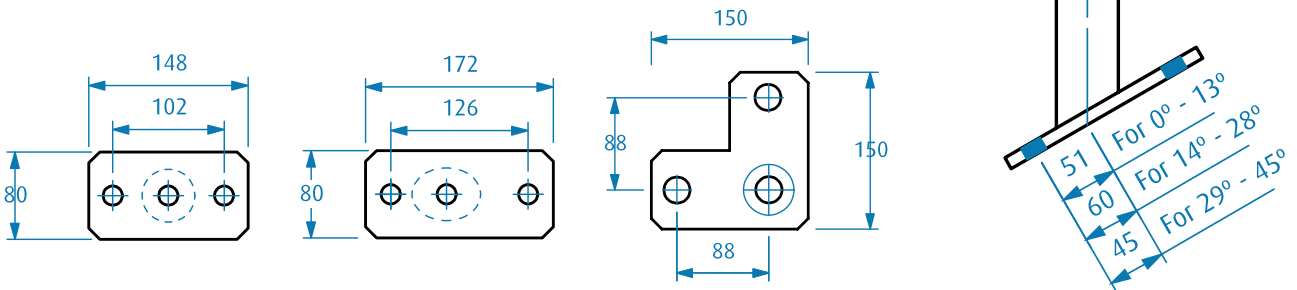
CLEARANCE



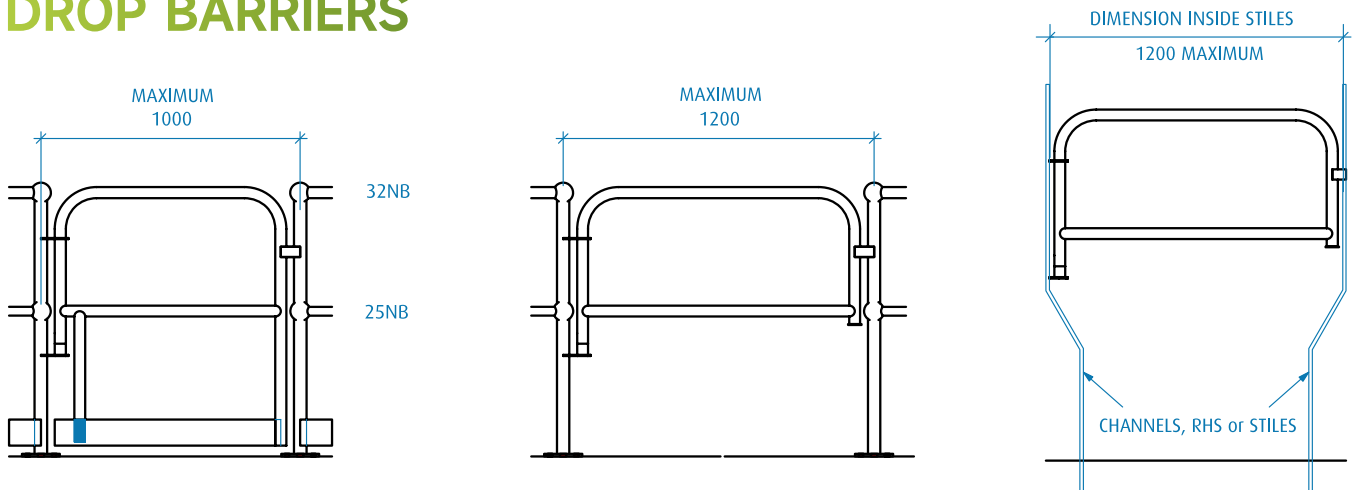
Size D				
mm		20,25,32	40,45,50	60,65
P,W,C	D=60	D=85	D=100	D=120
S &SO	D=135	D=160	D=180	D=195

SO Type Column Support Dimensions	
Channel Model	Support Length
#16	110
#18	110
#20	110
#22	110
#25a	110
#28a	110
#32a	130
#36a	130
#40a	130

BASE PLATES



DROP BARRIERS





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