



I.A.F



ANAB



ISO9001

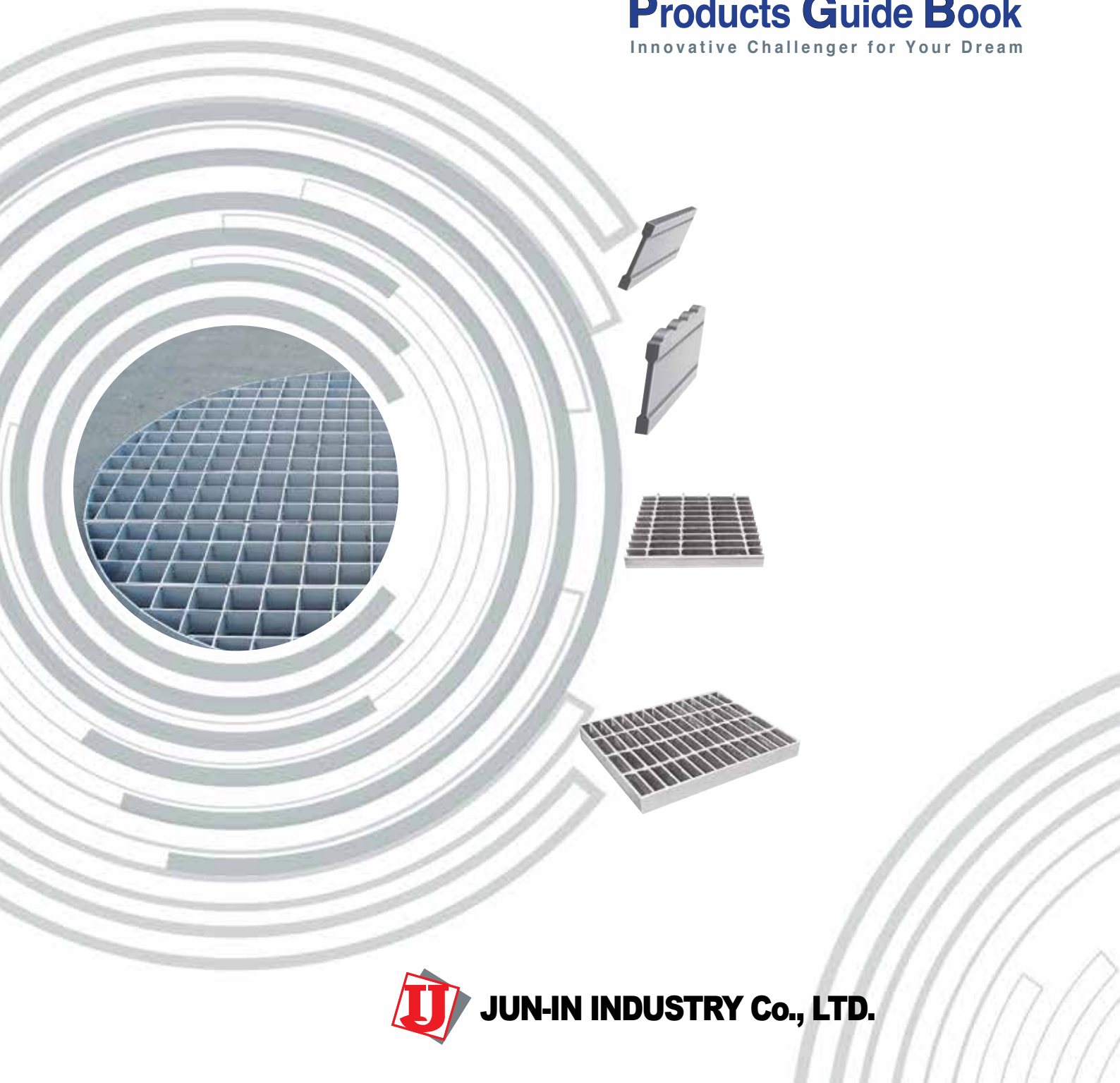


ISO14001

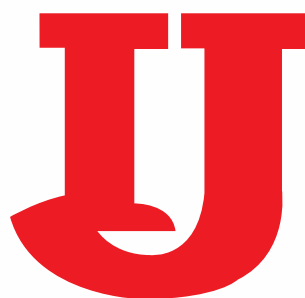
STEEL GRATING

Products Guide Book

Innovative Challenger for Your Dream



JUN-IN INDUSTRY Co., LTD.



Custom Fabrication

JUNIN INDUSTRY Co., Ltd. is a full service grating supplier. All of our products are available in either stock planks and checkered plate, or fully fabricated to suit your individual requirements.

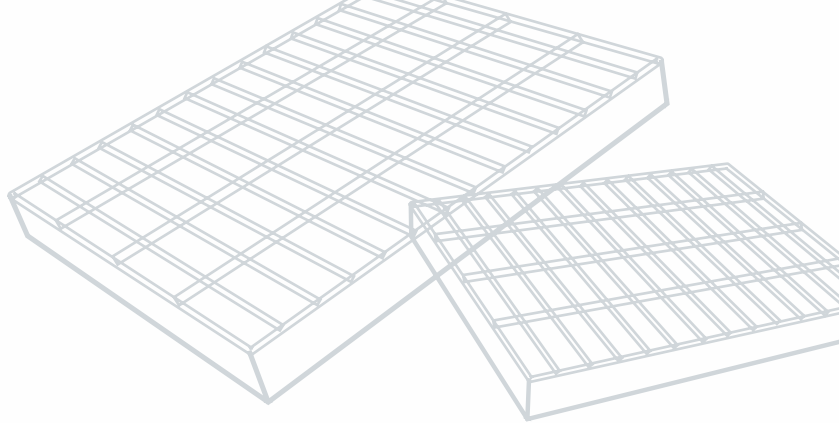
Examples of fabrication include:

- Cutting to size
- Providing cutouts for penetrations in grating panels
- Welding banding, kick plate, or nosing to grating
- Fabricating stair treads
- Custom additions such as checker plate, lifting handles, and hinges
- Circular layouts and radial platforms

Armed with the latest technology in computer aided design and 3-D software applications, **JUNIN INDUSTRY Co., Ltd.** is dedicated to continuous improvement and maximizing efficiencies in the detailing process. Many of today's projects demand just-in-time delivery. Our experienced project managers can effectively coordinate your multi-release schedules to ensure your job site receives the grating they need, when they need it. Grating panels are piece marked and clearly identified on our supplied grating drawings for accurate field installation.

As we are both a manufacturer and fabricator of grating we can offer our customers complete "One Source" responsibility for all their grating needs.





Putting Customers First without Compromise

Quality People Delivering Quality Products and Services

Today's construction projects demand the highest quality standards and at **JUNIN INDUSTRY**, we deliver. Since 2009, you have trusted us to supply exceptional metal grating and checkered plate. Our reputation for superior quality and service has rewarded us with the privilege of being specified on On/Offshore Plant and Shipbuilding Projects.

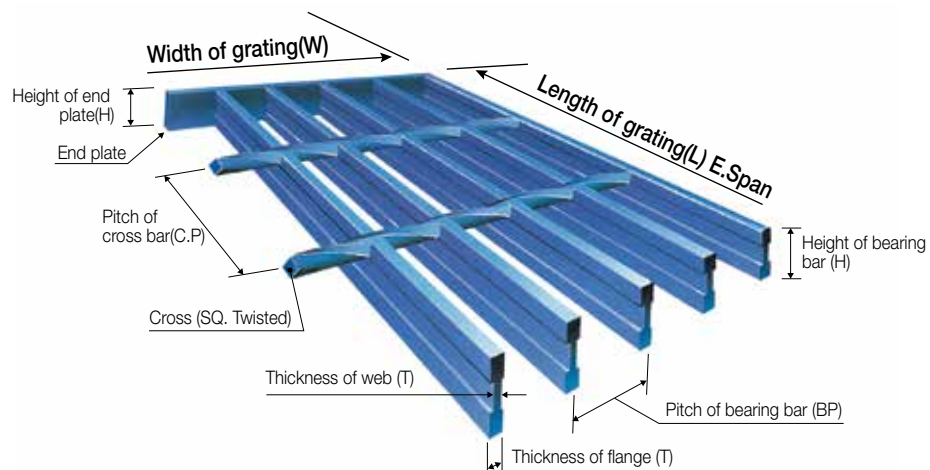
With a commitment to continuous improvement in our safety and quality standards, **JUNIN INDUSTRY** leads the industry. With our strategic network of well-stocked warehouses and fabrication facilities, our products are always readily available.

The friendly and knowledgeable staff in our sales, engineering, and drafting departments can take your requirements from structural drawings to detailed grating drawings and on to completely fabricated, ready-to-install grating.

As we are both a manufacturer and fabricator, we offer our customers complete "One Source" responsibility for all their grating needs.



Grating Construction



I-Bar Type



Flat Bar Type



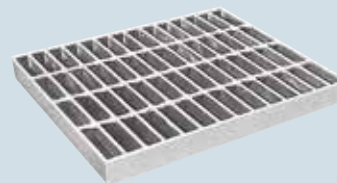
Serrated I-Bar Type



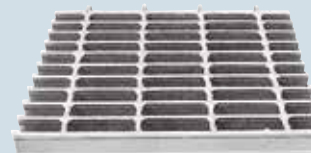
Serrated Flat Bar Type



Banded Type



Opened Type

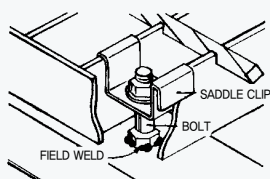


Length and Width of Grating

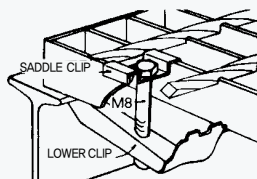
1. Length : Bearing Bar's Length Direction
2. Width : Cross Bar's Length Direction
3. The Maximum Standard Width is 995mm.

Securing Method

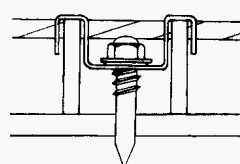
1. Saddle Clip



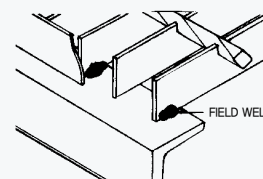
2. Upper / Lower Clip



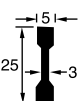
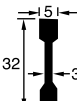
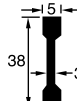
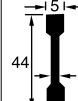
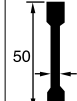
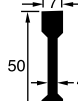
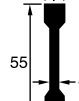
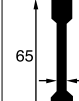
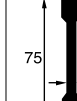
3. Self Drilling Screw

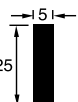
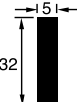
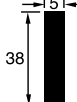
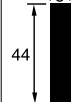
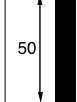
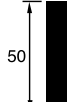
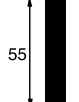
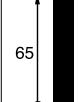
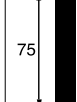


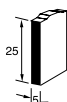
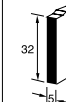
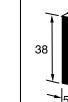
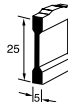
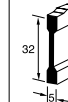
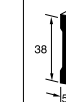
4. Field Welding

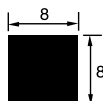
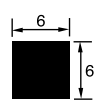
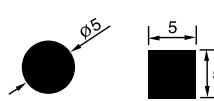


Member Dimension & Section Capability

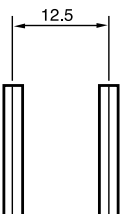
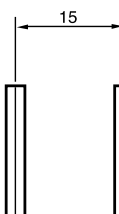
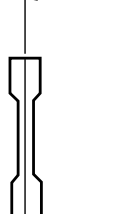
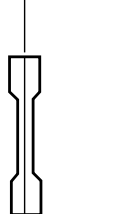
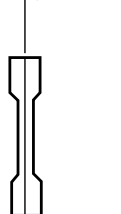
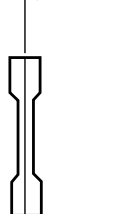
Type	I - Bar	I - 25	I - 32	I - 38	I - 44	I - 50	I - 50 - 2	I - 55	I - 65	I - 75
Bearing Bar	Size (mm)									
	Moment of Inertia (cm ⁴)	0.605	1.251	2.083	3.221	4.609	6.432	8.488	13.960	21.387
	Moment of Section (cm ³)	0.484	0.782	1.096	1.464	1.844	2.573	3.086	4.295	5.703

Type	F - Bar	F - 25	F - 32	F - 38	F - 44	F - 50	F - 50 - 2	F - 55	F - 65	F - 75
Bearing Bar	Size (mm)									
	Moment of Inertia (cm ⁴)	0.651	1.365	2.286	3.549	5.208	6.250	8.319	13.731	21.094
	Moment of Section (cm ³)	0.521	0.853	1.203	1.613	2.083	2.500	3.025	4.225	5.625

Type	Serrated F-Bar	SE - 25	SE - 32	SE - 38	SE - 44	Serrated I-Bar	SE - I25	SE - I32	SE - I38
Bearing Bar	Size (mm)					Size (mm)			
	Moment of Inertia (cm ⁴)	0.534	1.171	2.010	3.176	Moment of Inertia (cm ⁴)	6.432	8.488	13.960
	Moment of Section (cm ³)	0.456	0.770	1.104	1.498	Moment of Section (cm ³)	2.573	3.086	4.295

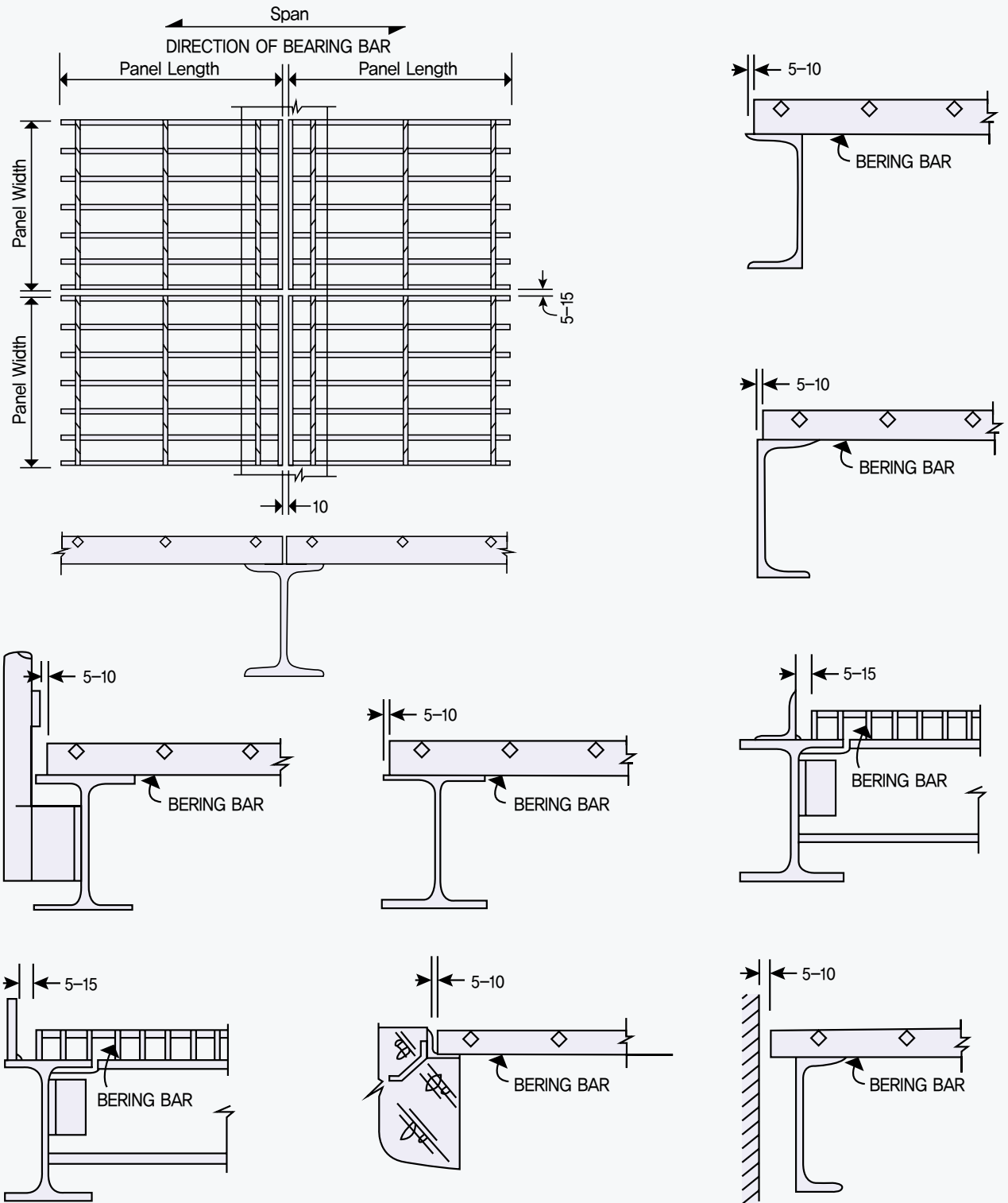
Type	Bearing Bar Pitch	35.3	25 & 30	15 % 12.5
Cross Bar	Size (mm)			

Pitch of Bearing Bar

12.5mm	15.0mm	25.0mm	30.0mm	35.3mm	40.0mm
					

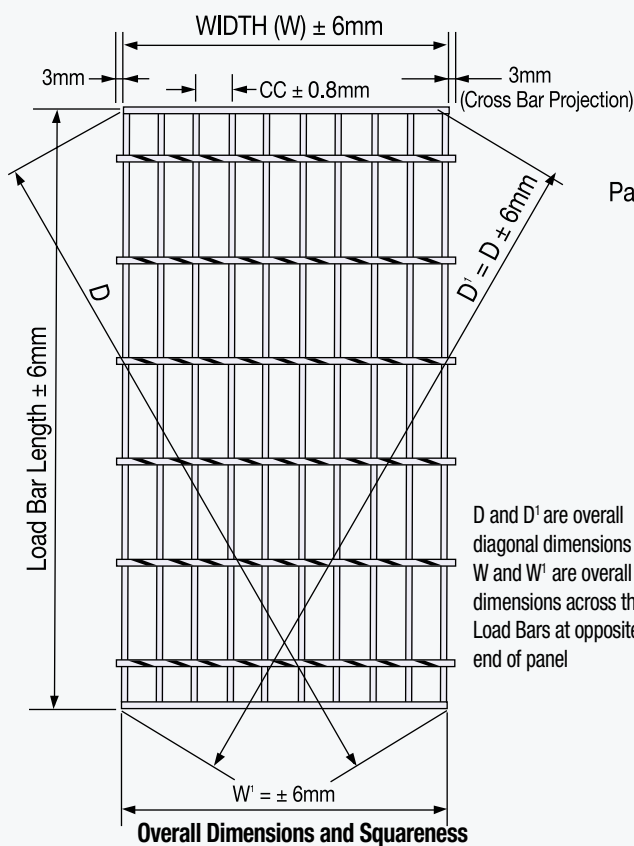
INSTALLATION CLEARANCES

According to the National Association of Architectural Metal Manufacturers (NAAMM) Specification in USA.



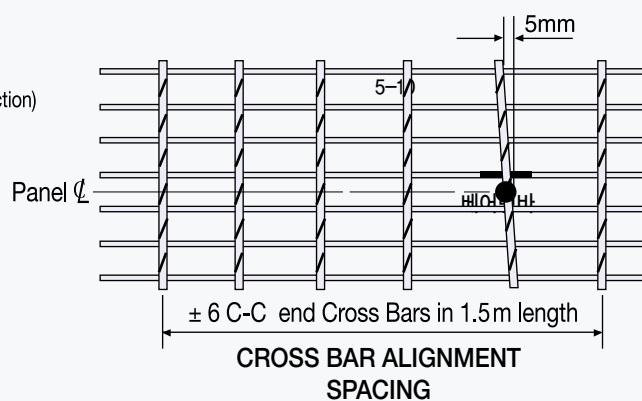
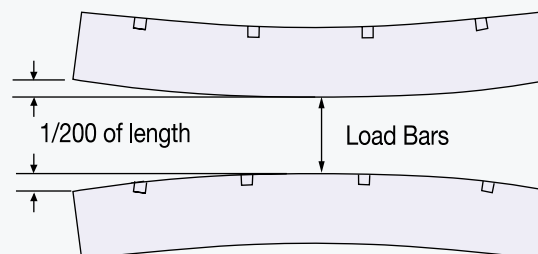
MANUFACTURING TOLERANCES

According to the National Association of Architectural Metal Manufacturers (NAAMM) Specification in USA.



D and D' are overall diagonal dimensions
W and W' are overall dimensions across the Load Bars at opposite end of panel

Overall Dimensions and Squareness

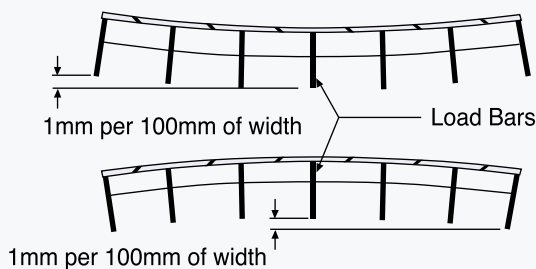


LONGITUDINAL BOW

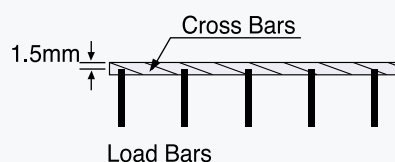
• STANDARD FABRICATION WELDING

Normally, single side (Tack) welding is applied.

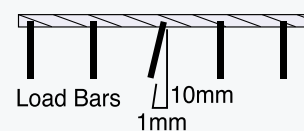
- Optional
1. Both Side Weld : Both side of every Load Bar.
 2. Seal Weld : Weld all around sides of every Load Bar.



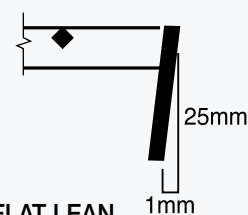
TRANSVERSE BOW



CROSS BAR LOCATION

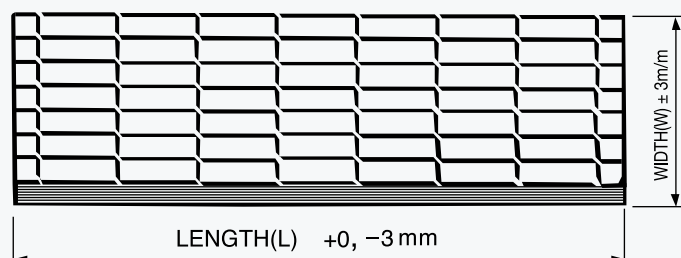


LOAD BAR LEAN



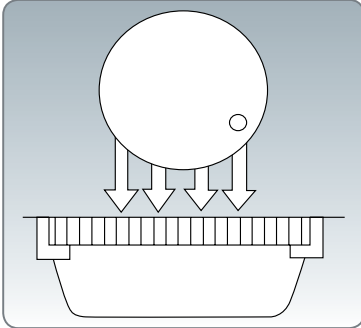
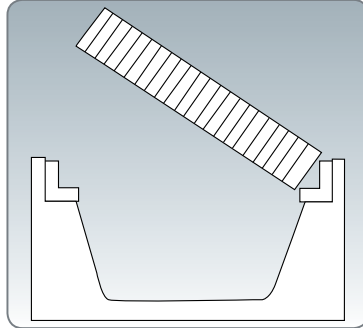
END FLAT LEAN

Fabrication: Edge Bars and end plates welded on side of every Load Bar with a 3mm Fillet Weld or Tack Weld.



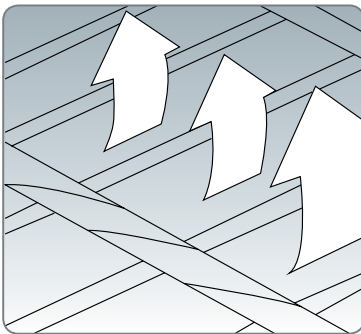
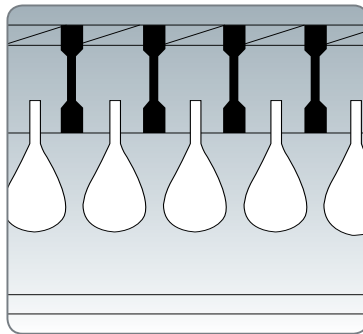
Note : Length of tread is the distance between outer faces of the end plates.

Feature of JUNIN Grating



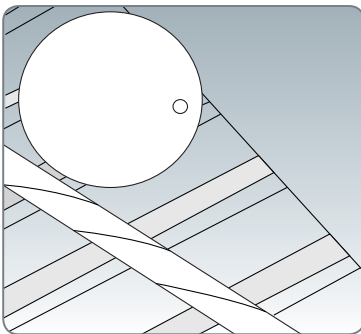
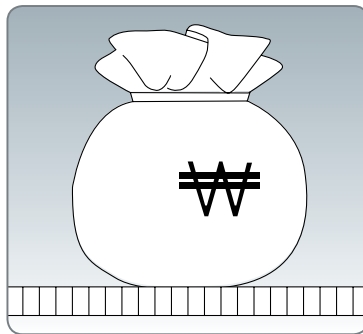
01

- Light Weight and Strong.
- It saves a weight per unit area by a grid shape. It is welded in order to endure a lot offload.



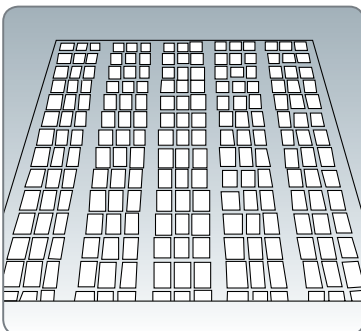
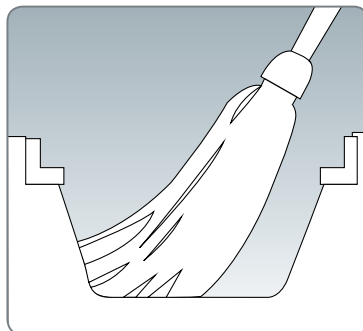
02

- Excellent Light Admission and Ventilation
- The open ration over 70% makes well-light, ventilation, drainage well, and the clean management is possible.



03

- Easy Installation and Removal
- The strict quality control enables to produce the proper products to a site. It is easy to install and construction.



04

- Beautiful appearance
- It is super to a floor of modernized road, factory facilities, ship and bridge. Also it ensures beautiful appearance and sanitation.

MANUFACTURING PROCESS

According to the National Association of Architectural Metal Manufacturers (NAAMM) Specification in USA.



1 Incoming Material ▶▶



2 ▶▶ Projection Welding ▶▶



3 ▶▶ Cutting & Welding ▼



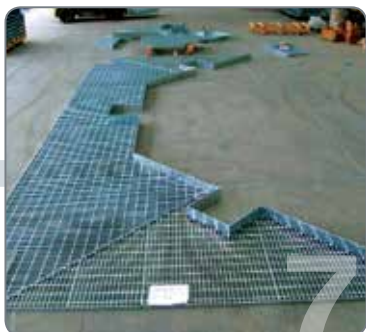
4 ▼ Inspection(H.D.G) ◀◀



5 ◀◀ Hot-dip Galvanizing ◀◀



6 ◀◀ Inspection(Dimension)



7 Final Inspection ▶▶



8 ▶▶ Packing ▶▶



9 ▶▶ Delivery ▼

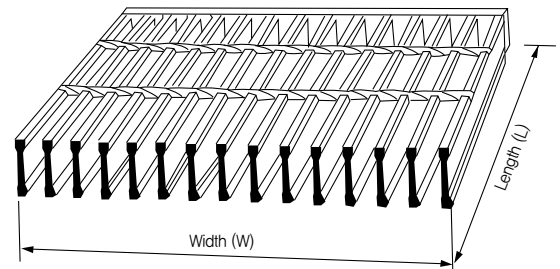


10 ■ Installation

Grating Width & Number of Bearing Bar

Length and Width of Grating

1. Length: Bearing Bar's Length Direction
2. Width : Cross Bar's Length Direction
3. The Maximum Standard Width is 995mm.



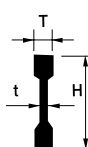
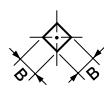
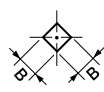
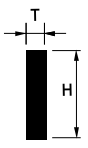
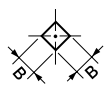
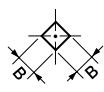
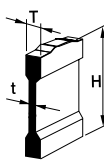
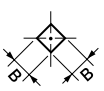
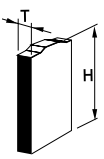
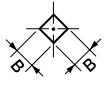
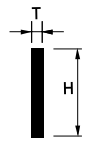
Pith of Bearing Bar

12.5 / 15 / 25 / 30 / 35.3 / 40MM

P : Pitch T : Thickness No : Number of Bearing Bars

P	T	No	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
12.5	3		691	703	716	728	741	753	766	778	791	803	816	828	841	853	866	878	891	903	916	928	941	953	966	978	991
P	T	No	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67
15	3		633	648	663	678	693	708	723	738	753	768	783	798	813	828	843	858	873	888	903	918	933	948	963	978	993
BB	T	No	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
	3		403	428	453	478	503	528	553	578	603	628	653	678	703	728	753	778	803	828	853	878	903	928	953	978	1003
	5		405	430	455	480	505	530	555	580	605	630	655	680	705	730	755	780	805	830	855	880	905	930	955	980	1005
	6		406	431	456	481	506	531	556	581	606	631	656	681	706	731	756	781	806	831	856	881	906	931	956	981	1006
BB	T	No	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
	3		273	273	333	363	393	423	453	483	513	543	573	603	633	663	693	723	753	783	813	843	873	903	933	963	993
	5		275	305	335	365	395	425	455	485	515	545	575	605	635	665	695	725	755	785	815	845	875	905	935	965	995
	6		276	306	336	366	396	426	456	486	516	546	576	606	636	666	696	726	756	786	816	846	876	906	936	966	996
P	T	No	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
	5		146	182	217	252	287	323	358	393	429	464	499	535	570	605	640	676	711	746	782	817	852	888	923	958	993
	6		147	183	218	253	288	324	359	394	430	465	500	536	571	606	641	677	712	747	783	818	853	889	924	959	994
	7		148	184	219	254	289	325	360	395	431	466	501	537	572	607	642	678	713	748	784	819	854	890	925	960	995
BB	T	No	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	3		43	83	123	163	203	243	283	323	363	403	443	483	523	563	603	643	683	723	763	803	843	883	923	963	1003
	5		45	85	125	165	205	245	285	325	365	405	445	485	525	565	605	645	685	725	765	805	845	885	925	965	1005
	6		46	86	126	166	206	246	286	326	366	406	446	486	526	566	606	646	686	726	766	806	846	886	926	966	1006
	7		47	87	127	167	207	247	287	327	367	407	447	487	527	567	607	647	687	727	767	807	847	887	927	967	1007

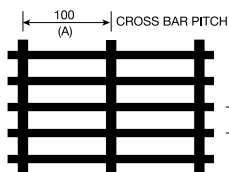
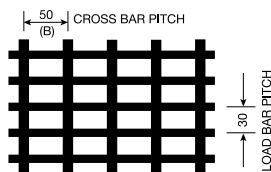
Member Dimension & Section Capability

Type	Member	Bearing bar					Cross bar		
		Pitch	Shape	Size	Moment of	Moment of	Pitch	Shape	Size
I – Bar	I-25	30		I-25x5x3	0.605	0.484	100		6 x 6
	I-32			I-32x5x3	1.251	0.782			
	I-38			I-38x5x3	2.083	1.096			
	I-44			I-44x5x3	3.221	1.464			
	I-50x5T	35.3		I-50x5x3	4.609	1.844			8 x 8
	I-50x7T			I-50x7x4	6.432	2.573			
	I-55			I-55x7x4	8.488	3.086			
	I-65			I-65x7x4	13.96	4.295			
	I-75			I-75x7x4	21.387	5.703			
Flat bar	F-25	30		FB-25x5	0.651	0.521	100		6 x 6
	F-32			FB-32x5	1.365	0.853			
	F-38			FB-38x5	2.286	1.203			
	F-44			FB-44x5	3.549	1.613			
	F-50x5T	35.3		FB-50x5	5.208	2.083			8 x 8
	F-50x6T			FB-50x6	6.25	2.5			
	F-65			FB-65x6	13.731	4.255			
	F-75			FB-75x6	21.093	5.625			
	F-90			FB-90x6	36.45	8.1			
Serrated I-bar	SI-25	30		SI-25x5x3	0.634	0.488	100		6 x 6
	SI-32			SI-32x5x3	1.31	0.797			
	SI-38			SI-38x5x3	2.17	1.11			
	SI-44			SI-44x5x3	3.34	1.49			
	SI-25	15		SI-25x5x3	0.634	0.488			ø 6
	SI-32			SI-32x5x3	1.31	0.797			
	SI-38			SI-38x5x3	2.17	1.11			
	SI-44			SI-44x5x3	3.34	1.49			
Serrated F-bar	SF-25	30		SF-25x5	0.651	0.521	100		6 x 6
	SF-32			SF-32x5	1.365	0.853			
	SF-38			SF-38x5	2.286	1.203			
	SF-44			SF-44x5	3.549	1.613			
Dense Pitch	F-19	12.5		FB-19x3	0.171	0.181	100		ø 5
	F-25			FB-25x3	0.391	0.313			
	F-32			FB-32x3	0.819	0.512			
	F-38			FB-38x3	1.372	0.722			

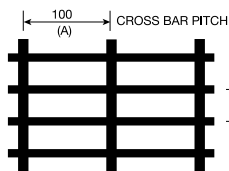
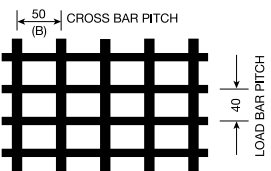
Grating

Weight Of Grating(kg/m²)

Series 30 – Bearing Bar Pitch = 30mm		
Type of Bearing Bar	Weight(kg/m ²)	
	Banded	Opened
I-Bar 25 x 5 x 3	31.4	29.5
I-Bar 32 x 5 x 3	38.6	36.1
I-Bar 38 x 5 x 3	44.2	41.3
I-Bar 44 x 5 x 3	50.5	47.1
I-Bar 50 x 5 x 3	55.4	51.5
F-Bar 25 x 3	23.3	22.1
F-Bar 32 x 3	29.1	27.6
F-Bar 38 x 3	34.2	32.4
F-Bar 25 x 5	38.1	36.2
F-Bar 32 x 5	48.1	45.6
F-Bar 38 x 5	56.5	53.5
F-Bar 44 x 5	65.0	61.6
F-Bar 50 x 5	73.6	69.7

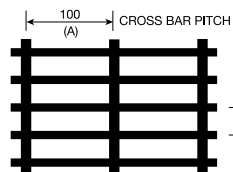
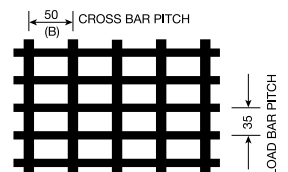


Series 40 – Bearing Bar Pitch = 40mm		
Type of Bearing Bar	Weight(kg/m ²)	
	Banded	Opened
I-Bar 25 x 5 x 3	25.1	23.1
I-Bar 32 x 5 x 3	30.9	28.4
I-Bar 38 x 5 x 3	35.2	32.2
I-Bar 44 x 5 x 3	40.1	36.6
I-Bar 50 x 5 x 3	44	40.1
I-Bar 50 x 7 x 4	61.5	56.8
I-Bar 55 x 7 x 4	66.6	61.4
I-Bar 65 x 7 x 4	77.4	71.3
I-Bar 75 x 5 x 4	88.5	81.4
F-Bar 25 x 5	30.3	28.3
F-Bar 32 x 5	38.1	35.6
F-Bar 38 x 5	44.7	41.7
F-Bar 44 x 5	51.3	47.8



Serrated bar have the same weight with the unstriated bar.

Series 35 – Bearing Bar Pitch = 35.3mm		
Type of Bearing Bar	Weight(kg/m ²)	
	Banded	Opened
I-Bar 25 x 5 x 3	27.4	25.4
I-Bar 32 x 5 x 3	33.8	31.3
I-Bar 38 x 5 x 3	38.6	35.6
I-Bar 44 x 5 x 3	44	40.5
I-Bar 50 x 5 x 3	48.3	44.4
I-Bar 50 x 7 x 4	67.5	62.8
I-Bar 55 x 7 x 4	73.2	68
I-Bar 65 x 7 x 4	85.2	79.1
I-Bar 75 x 5 x 4	97.4	90.3
F-Bar 25 x 5	33.2	31.2
F-Bar 32 x 5	41.8	39.3
F-Bar 38 x 5	49.1	46.1
F-Bar 44 x 5	56.4	53



• Banded Type



• Opened Type



Stair Treads

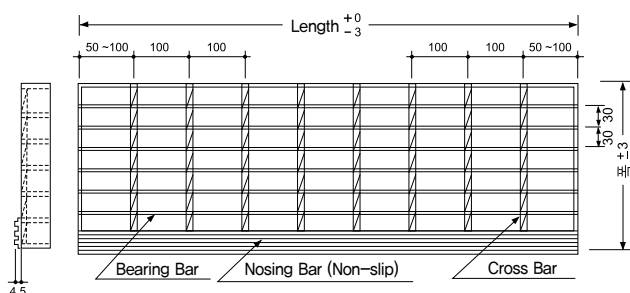
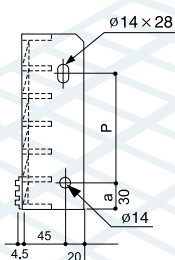


Welding Type



Bolting Type

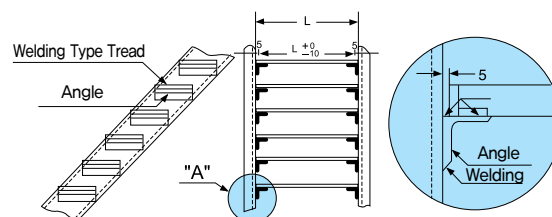
Detailed Drawing



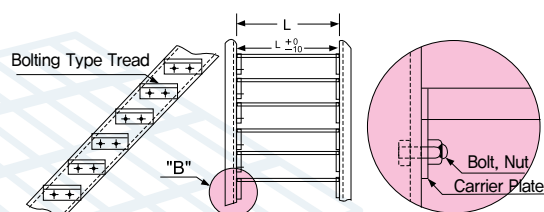
Pitch of Hole

Width(W)	Pitch(P)
215	120
245	150
275	180

Installed by Welding



Installed by Bolt

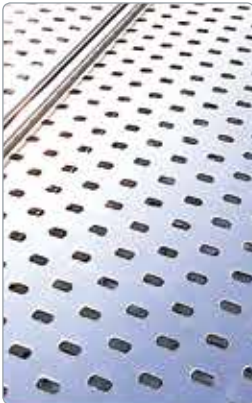


Standard Dimension and Weights

By Bolting By Welding (Unit : kg)

Type	Bearing Bar	Width	500	550	600	650	700	750	800	850	900	950	1000	1100	1200	b
F525	F25 x 5	215	6.2	6.6	7.1	7.6	8.1	8.6	9.1	9.5	10.0	10.5	11.0	12.0	12.9	120
			5.3	5.7	6.2	6.7	7.2	7.7	8.2	8.6	9.1	9.6	10.1	11.1	12.1	-
		245	6.9	7.4	8.0	8.5	9.0	9.5	10.1	10.6	11.2	11.7	12.3	13.3	14.4	150
			5.9	6.4	6.9	7.4	8.0	8.5	9.1	9.6	10.2	10.7	11.2	12.3	13.4	-
		275	7.6	8.1	8.8	9.3	10.0	10.5	11.1	11.7	12.3	12.9	13.5	14.7	15.9	180
			6.5	7.0	7.6	8.2	8.8	9.4	10.0	10.6	11.2	11.7	12.4	13.5	14.7	-
F532	F32 x 5	215	7.3	7.8	8.5	9.0	9.6	10.2	10.8	11.4	12.0	12.6	13.2	14.4	15.6	120
			6.5	7.1	7.7	8.2	9.2	9.4	10.1	10.6	11.2	11.8	12.4	13.6	14.8	-
		245	8.1	8.7	9.4	10.1	10.8	11.4	12.1	12.7	13.4	14.0	14.7	16.1	17.4	150
			7.2	7.9	8.6	9.2	9.9	10.5	11.2	11.8	12.5	13.2	13.8	15.2	16.5	-
		275	9.0	9.7	10.4	11.1	11.9	12.6	13.3	14.0	14.8	15.5	16.3	17.7	19.2	180
			8.0	8.7	9.4	10.1	10.9	11.6	12.4	13.0	13.8	14.5	15.3	16.7	18.2	-
I525	I25 x 5 x 3	215	5.5	5.8	6.3	6.7	7.1	7.5	7.9	8.3	8.8	9.1	9.6	10.4	11.2	120
			4.6	4.9	5.4	5.8	6.2	6.6	7.0	7.4	7.9	8.2	8.7	9.5	10.3	-
		245	6.2	6.6	7.1	7.5	8.0	8.5	9.0	9.4	9.9	10.3	10.8	11.7	12.7	150
			5.2	5.6	6.1	6.5	7.0	7.5	8.0	8.4	8.9	9.3	9.8	10.7	11.7	-
		275	6.9	7.3	7.9	8.4	8.9	9.4	10.0	10.5	11.0	11.5	12.0	13.0	14.1	180
			5.8	6.2	6.8	7.3	7.8	8.3	8.9	9.4	9.9	10.4	10.9	11.9	13.0	-
I532	I32 x 5 x 3	215	6.1	6.6	7.1	7.6	8.1	8.5	9.0	9.5	10.0	10.5	11.0	11.9	12.9	120
			5.4	5.9	6.4	6.9	7.4	7.8	8.3	8.8	9.3	9.8	10.3	11.2	12.2	-
		245	6.9	7.4	8.0	8.5	9.1	9.6	10.2	10.7	11.3	11.8	12.4	13.5	14.5	150
			6.0	6.5	7.1	7.6	8.2	8.7	9.3	9.8	10.4	10.9	11.5	12.6	13.6	-
		275	7.7	8.3	9.0	9.5	10.1	10.7	11.4	11.9	12.6	13.1	13.8	15.0	16.2	180
			6.7	7.3	8.0	8.5	9.1	9.7	10.4	10.9	11.6	12.1	12.8	14.0	15.2	-

Hot Dip Galvanizing



Specification

KS, JIS(KS D8308, JIS H8641)

Grade	Mark	weight of zinc coating (g/m ²)	Time of uniformity test
1	A	ZHD A	-
	B	ZHD B	-
2	35	ZHD 35	350g/m ² over
	40	ZHD 40	400g/m ² over
	45	ZHD 45	450g/m ² over
	50	ZHD 50	500g/m ² over
	55	ZHD 55	550g/m ² over
3	35A	ZHD 35A	350g/m ² over
	40A	ZHD 40A	400g/m ² over
	40B	ZHD 40B	400g/m ² over
	45B	ZHD 45B	450g/m ² over
	50B	ZHD 50B	500g/m ² over
	55C	ZHD 55C	550g/m ² over

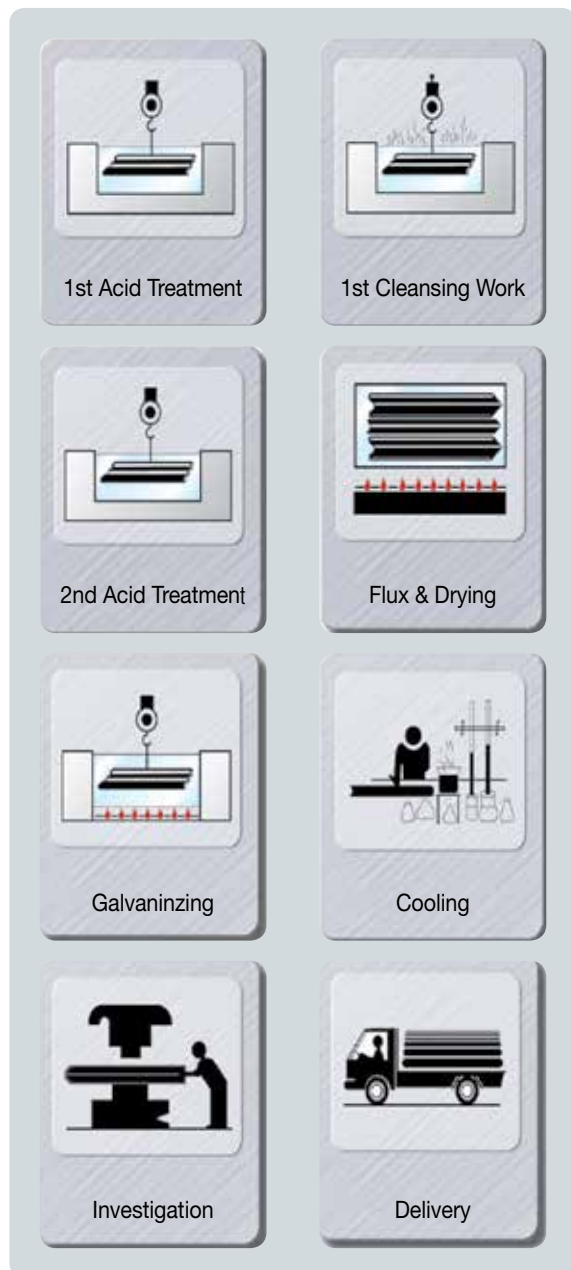
BS(BS729)

Category		Minimum average coating weight for any individual test area (g/m ²)
Steel which are not centrifuged	5mm thick and over	610
	Under 5mm but not less than 2mm	460
	Under 2mm but not less than 1mm	335
Gray and malleable iron castings		610
Threaded work and other articles which are centrifuged		305

ASTM

Class of Material	Designation	Minimum weight of zinc coating OZ/ft ²	
		Average of specimens tested	Any individual specimen
Product fabricated from rolled, pressed and forged steel shapes, plates bars and strip 1/8"-3/16"1/4"	A123	2.00 2.30	1.80 2.00
Class A-Castings-Malleable iron, steel	A153	2.00	1.80
Class B-Rolled, pressed and forged articles (except those that would be included under class C and D)			
B-1-3/16"(4.76mm)and over in thickness and over 8: (203.2mm) in length		2.00	1.80
B-2-Under 3/16" in thickness and over 8" in length		1.50	1.25
B-3-8 : and under in length and any thickness		1.30	1.10
Class C-Bolts and drive screw(over 3/8"(9.52mm) in diameter) and similar articles. Washes 3/16" and 1/4"(4.76mm and 6.35mm) thick		1.25	1.00
Class-D-Screws, stove bolts, and bolts (3/8"and under in diameter), rivets, and similar article. Washers under 3/16 : thick		1.00	0.85
Class A-Castings gray iron, malleable iron, steel	A386	2.00	1.80
Class B-Rolled, pressed and forged steel			
B-1-3/16"(4.76mm) and over in thickness		2.00	1.80
B-2-Under 1/16"(4.76mm) in thickness		1.50	1.25
Class C-Bolts and drive screws (over 3/8"(9.52mm) in diameter) and similar articles		1.25	1.00
Class D-Bolts and drive screws (3/8 (9.52mm) and under in diameter) and similar articles		1.00	1.85

Process

**01. 1st acid treatment**

Acid treatment is conducted for 30 minutes after Grating is put into hydrochloric acid (15%~20%)

02. 1st Cleansing work

Cleansing will be conducted for acid Grating to get rid of remaining acid or iron salt.

03. 2nd acid treatment

Oxidized steel on Grating surface will be completely removed by conducting 2nd acid treatment for cleaned product (for 5 minutes in hydrochloric acid of 7~10%)

04. 2nd Cleansing work

Cleansing work will be conducted for product which has been undergone 2nd acid treatment.

05. Acid treatment investigation

Acid treatment investigation for pre-treated Grating will be conducted. And Acid treatment will be conducted again for faulty products.

06. Flux

Concentration of zinc chloride and ammonium chloride will be kept as 30% since forming film on steel surface will make galvanizing efficient.

07. Drying

Explosion during galvanizing work will be prevented by pre-heating of 200°C and drying.

08. Galvanizing

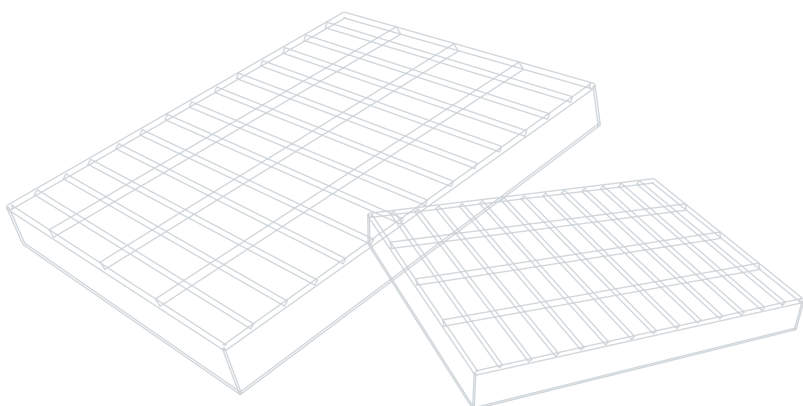
Galvanizing will be conducted in zinc liquid (440°C). And the product will be drawn up slowly (when dip time reaches 90 seconds) after removing oxidizer.

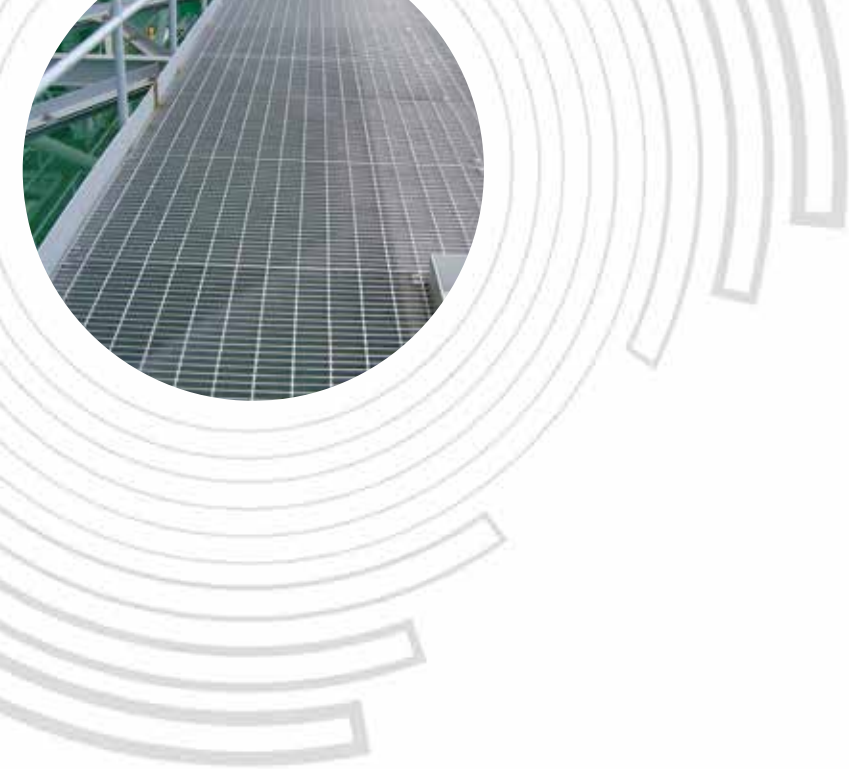
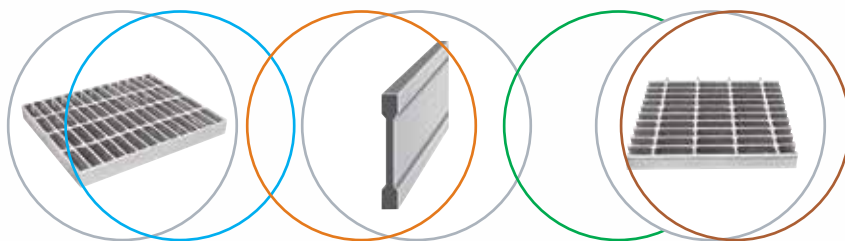
09. Cooling

Water cooling will be conducted to suppress development with Alloy layer and surface oxidation prevention.

10. Investigation and Delivery

Packaging and Delivery will be conducted when no problem is found during investigation of coating and exterior.





Innovative Challenger for Your Dream



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