

Platform System



Wall Screen



Equipment Bridge



Fountain System



Catwalk



**iGRID<sup>TM</sup>**

**SUZHOU GRATING CO., LTD.**

# PRODUCTS BROCHURE


**Molded Grating**  
**Pultruded Grating**  
**Accessories**  
**Handrail System**  
**Ladder System**  
**Structure Profile**



## Brief Introduction of Suzhou Grating Co., Ltd.

Suzhou Grating Co., Ltd. is situated in Sino-Singapore Suzhou Industrial Park, with an area of 35,000 square meters. It was jointly set up by American Grating LLC and Good Glory Group (Hong Kong) Limited. It is a large-scale professional manufacturer of quality FRP gratings and specializes in producing high strength molded gratings, pultruded gratings, handrail systems, stairtread, ladders and platform systems. Its products, that enjoy wide popularity, are exported to the United States of America, Europe, Australia, Asia and a dozen of other countries and regions. Since its establishment, Suzhou Grating Co., Ltd. has obtained a number of patents for its invention.

### HISTORY

- ☺ Feb. 1998: Suzhou Grating Co., Ltd. was jointly set up by American Grating LLC and Good Glory Group (Hong Kong) Limited.
- ☺ Oct. 1998: To create the first-rate quality was established as its quality principle.
- ☺ Feb. 1999: Passed ISO9002 quality certification.
- ☺ Feb. 2000: Passed ISO9001 quality certification.
- ☺ Feb. 2000: Obtained USCG certification for its pultruded Phenolic gratings.
- ☺ Apr. 2002: Obtained USCG certification for its molded Phenolic gratings.
- ☺ In 2004: Capital and stock increased.
- ☺ In 2005: Awarded the title of "Suzhou High-tech and New-tech Enterprise".
- ☺ In 2006: Awarded the title of "Jiangsu High-tech and New-tech Enterprise".
- ☺ May 2007: Good Glory Group (Hong Kong) Limited became one hundred percent owner of Suzhou Grating Co., Ltd.
- ☺ Before May 2007: American Grating LLC was responsible for the overseas distribution of the products manufactured by Suzhou Grating Co., Ltd. And the products carried the label of .
- ☺ After May 2007: Suzhou Grating Co., Ltd. takes full responsibility of selling its own products. And the products carry the trademark of "IGRID™".



# C O N T E N T S

## **Molded Grating**

Advantages of Molded Grating	Page 2~5
Mini-Mesh Grating	Page 6
Superspan Grating	Page 7
Molded Grating Load Table	Page 8~10
Leg System for Molded Grating	Page 11
Stairtread, Tread Cover	Page 12

## **Pultruded Grating**

Pedestrian Grating (T Bar)	Page 13~16
Industrial Grating (I Bar)	Page 17~22
Heavy Duty Grating (Forklift & Truck)	Page 23~26
Pultruded Grating Load Table	Page 27~38

## **U.S. Coast Guard Approved Grating**

Instruction	Page 39
Molded and Pultruded Grating, Testing Method	Page 40
USCG Load Table	Page 41~42
Applications at Railway & Subway	Page 42

## **Grating Accessories** Page 43~44

## **FRP Profiles** Page 45

## **FRP Footing Panel** Page 46

## **FRP Handrail System** Page 47~49

## **FRP Ladder System** Page 50~51

## **Special Applications**

Plank Way & Fencing System	Page 52
----------------------------	---------

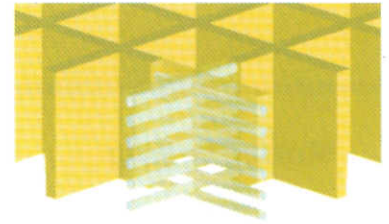
## **Chemical Resistance Guide** Page 53

## **Applications** Page 54~55



## Advantages of Molded Grating

Molded Gratings are manually made, with thermoset resin and continuous fiberglass rovings interwovenly laid up in mold, layer after layer. After resin cures, gratings are then ejected from molds by pin for the following process.



This one piece molded grating features high strength, bidirectional physical properties and high chemical corrosion resistance as well with its high percentage of resin. It provides a solution of long-lasting durability with its non-mechanical connection. More importantly, it can give you a way of cutting pipe penetration, valve access without additional supports for grating owing to its bidirectional strength and interwoven system.

The grating, with its light weight, can reduce cost of support system as compared with steel gratings. It is not only easy to install but easy for maintenance as well. No welding is needed but for some hold-down clips when installing.

Gratings can be fabricated into almost any shape as per project requirements and there is little restriction on color.

Resin Type	Resin Base	Description	Corrosion Resistance	Flame Spread Rating ASTM E84	Available Colors	Max. Oper. Temp.
Type V	Vinyl Ester	Superior Corrosion Resistance and Fire Retardant	Excellent	Class 1, 25 or less	Dark Grey Orange	110° C
Type I	Isophthalic Polyester	Industrial Grade Corrosion Resistance and Fire Retardant	Very Good	Class 1, 25 or less	Green, Yellow Light Grey	105° C
Type F	Isophthalic Polyester	Food Grade Corrosion Resistance and Fire Retardant	Very Good	Class 1, 25 or less	Light Grey	105° C
Type O	Ortho	Moderate Corrosion Resistance and Fire Retardant	Normal	Class 1, 25 or less	Green, Light Grey	70° C
Type P	Phenolic	Low Smoke and Superior Fire Resistance	Very Good	Class 1, 5 or less	Reddish - Brown	130° C

IGRID™ has low smoke density

### Highlighted Features

- Corrosion Resistance
- Easy Installation and Maintenance
- Non-Slip
- Light Weight

### Typical Applications

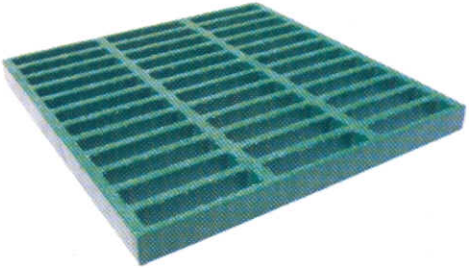
- Flooring System
- Platform's Landing & Stairtread
- Trench Cover
- Catwalk

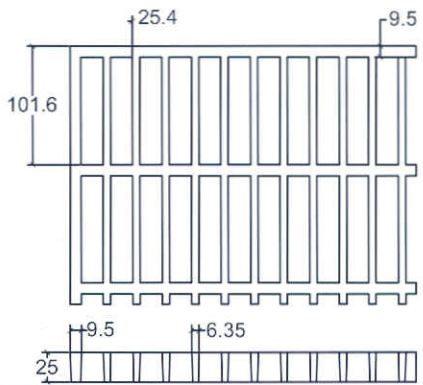
### Engineering Properties

There are a wide range of gratings available for your application, such as square or rectangular mesh gratings as well as gratings specially designed as per ADA requirement.

**25 x 25.4 x 101.6 Rectangular Mesh**
**Full Size: 1220 x 3660**

Approx. Weight: 12.7 kg/sm





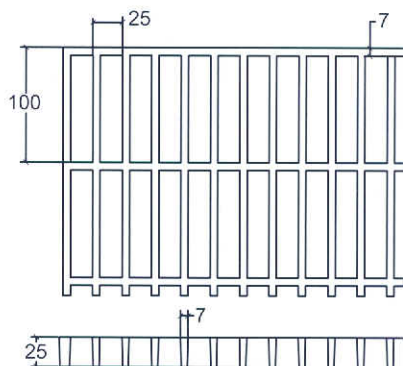
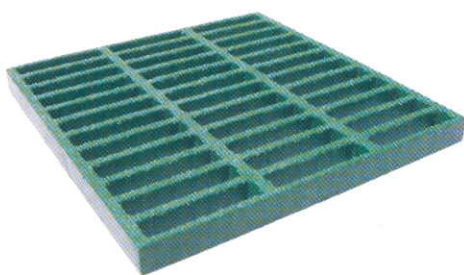
Engineering Properties per 305mm of Width	# of Bars	Load Bar Width	Bar Centers	Opening
A=17.3cm <sup>2</sup> I=9.15cm <sup>4</sup> S=7.37cm <sup>3</sup>	12	6.35 mm	25.4 mm	68%



### 25 x 25 x 100 Rectangular Mesh

Full Size: 1007 x 3007

Approx. Weight: 13.9 kg/sm

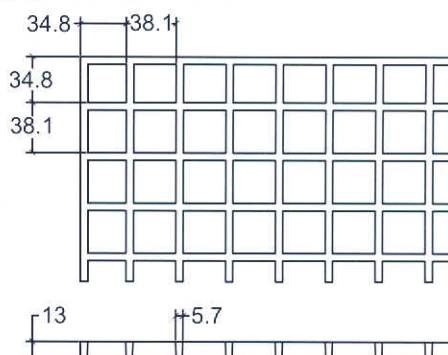
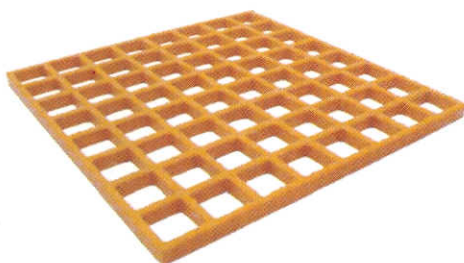


Engineering Properties per 305mm of Width			# of Bars	Load Bar Width	Bar Centers	Opening
A=19.0cm <sup>2</sup>	I=10.6cm <sup>4</sup>	S=8.52cm <sup>3</sup>	12	7 mm	25 mm	67%

### 13 x 38.1 Square Mesh

Full Size: 1220 x 3660

Approx. Weight: 6.5 kg/sm

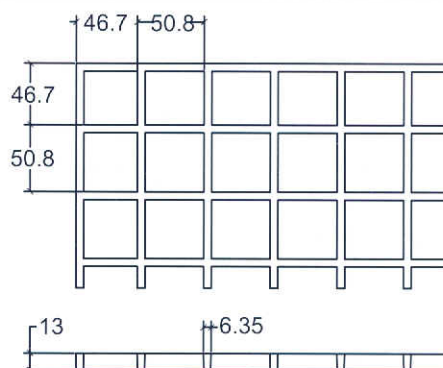
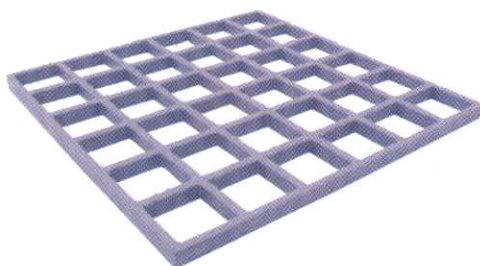


Engineering Properties per 305mm of Width			# of Bars	Load Bar Width	Bar Centers	Opening
A=5.42cm <sup>2</sup>	I=0.71cm <sup>4</sup>	S=1.13cm <sup>3</sup>	8	5.7 mm	38.1 mm	72%

### 13 x 50.8 Square Mesh

Full Size: 1220 x 3660

Approx. Weight: 5.00 kg/sm



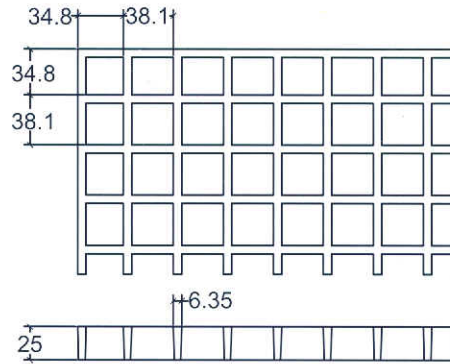
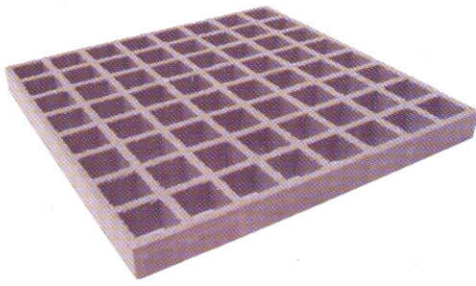
Engineering Properties per 305mm of Width			# of Bars	Load Bar Width	Bar Centers	Opening
A=4.62cm <sup>2</sup>	I=0.58cm <sup>4</sup>	S=0.89cm <sup>3</sup>	6	6.35 mm	50.8 mm	78%



## 25 x 38.1 Square Mesh

Full Size: 1220 x 3660, 1524 x 3048

Approx. Weight: 12.0 kg/sm

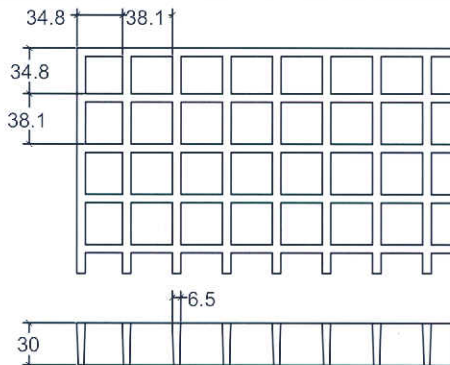
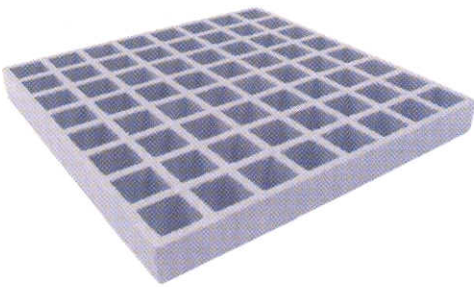


Engineering Properties per 305mm of Width	# of Bars	Load Bar Width	Bar Centers	Opening
A=11.5cm <sup>2</sup> I=6.24cm <sup>4</sup> S=4.91cm <sup>3</sup>	8	6.35 mm	38.1 mm	69%

## 30 x 38.1 Square Mesh

Full Size: 1220 x 3660, 1524 x 3048

Approx. Weight: 14.2 kg/sm

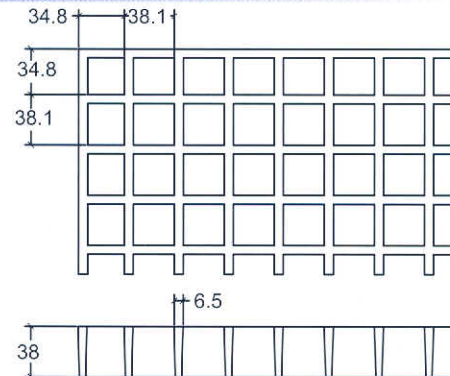
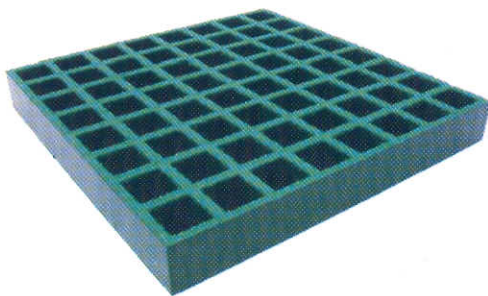


Engineering Properties per 305mm of Width	# of Bars	Load Bar Width	Bar Centers	Opening
A=13.3cm <sup>2</sup> I=9.90cm <sup>4</sup> S=6.60cm <sup>3</sup>	8	6.5 mm	38.1 mm	69%

## 38 x 38.1 Square Mesh

Full Size: 1220 x 3660, 1524 x 3048

Approx. Weight: 19.0 kg/sm



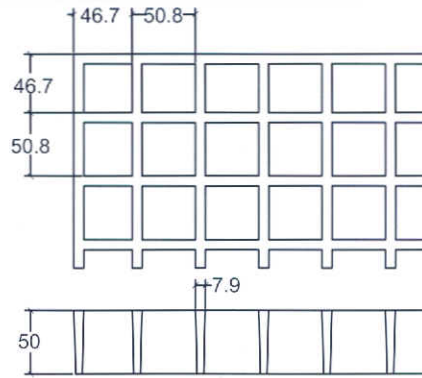
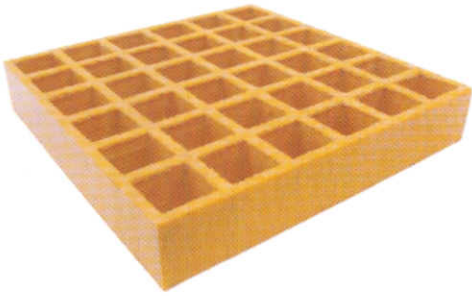
Engineering Properties per 305mm of Width	# of Bars	Load Bar Width	Bar Centers	Opening
A=17.6cm <sup>2</sup> I=20.38cm <sup>4</sup> S=10.64cm <sup>3</sup>	8	6.5 mm	38.1 mm	68%



**50 x 50.8 Square Mesh**

**Full Size: 1220 x 3660**

Approx. Weight: 21.7 kg/sm

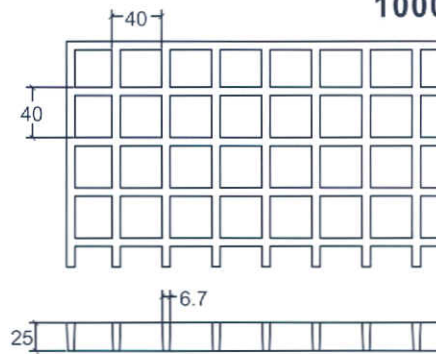
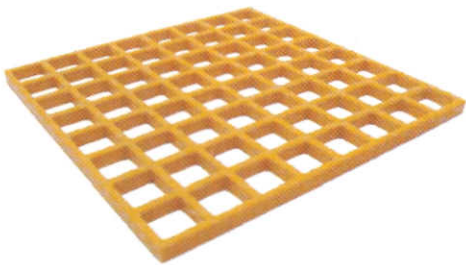


Engineering Properties per 305mm of Width			# of Bars	Load Bar Width	Bar Centers	Opening
A=20.1cm <sup>2</sup>	I=42.8cm <sup>4</sup>	S=16.8cm <sup>3</sup>	6	7.9 mm	50.8 mm	71%

**25 x 40 Square Mesh**

**Full Size: 1007 x 4047  
1000 x 3000**

Approx. Weight: 12.05 kg/sm

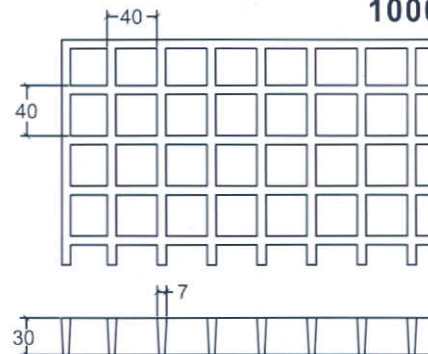
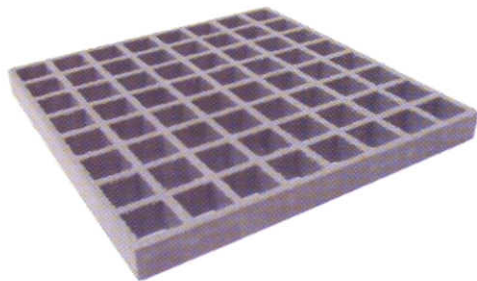


Engineering Properties per 305mm of Width			# of Bars	Load Bar Width	Bar Centers	Opening
A=11.3cm <sup>2</sup>	I=5.88cm <sup>4</sup>	S=4.71cm <sup>3</sup>	8	6.7 mm	40 mm	69%

**30 x 40 Square Mesh**

**Full Size: 1007 x 4047  
1000 x 3000**

Approx. Weight: 14.9 kg/sm



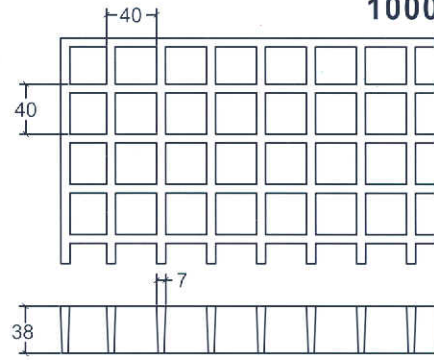
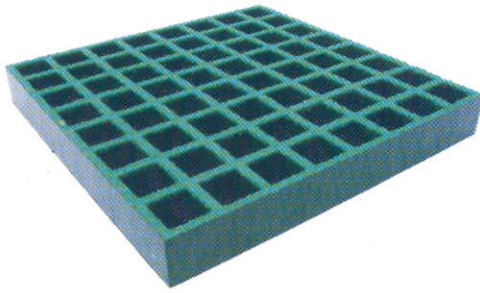
Engineering Properties per 305mm of Width			# of Bars	Load Bar Width	Bar Centers	Opening
A=13.9cm <sup>2</sup>	I=10.42cm <sup>4</sup>	S=6.95cm <sup>3</sup>	8	7 mm	40 mm	68%



## 38 x 40 Square Mesh

Full Size: 1007 x 4047

Approx. Weight: 19.9 kg/sm



1000 x 3000

Engineering Properties per 305mm of Width	# of Bars	Load Bar Width	Bar Centers	Opening
A=18.2cm <sup>2</sup> I=21.9cm <sup>4</sup> S=11.5cm <sup>3</sup>	6	7 mm	40 mm	68%

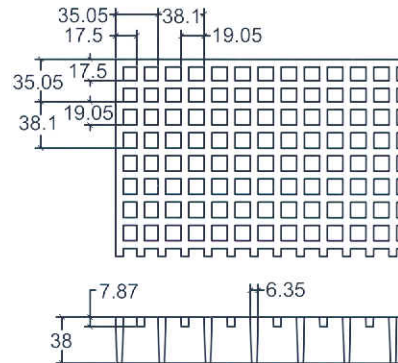
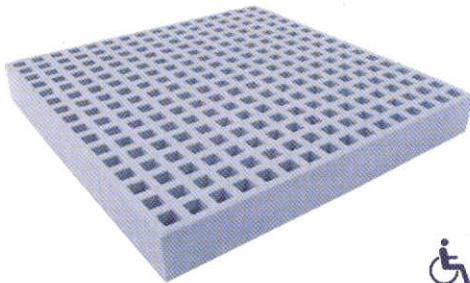
## IGRID™ Mini Mesh Grating

IGRID™ Mini-mesh Molded Grating is specially designed as per ADA requirement with compliant mesh size small enough to prevent small tools and other objects from falling down through the grating. The clear opening is only 12.7mm and reaches the requirement of 15mm ball test. It allows a wheelchair rolling smoothly on its surface, prevents high heel shoes from getting stuck and provides greater foot coverage.

### 38 x 19 Mini Mesh

Full Size: 1220 x 3660

Approx. Weight: 23.1 kg/sm

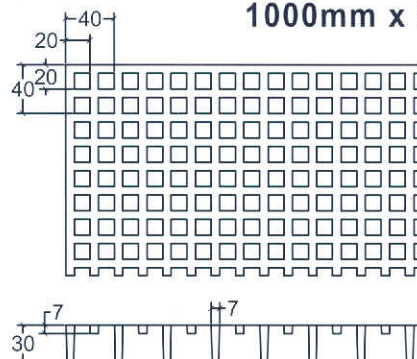
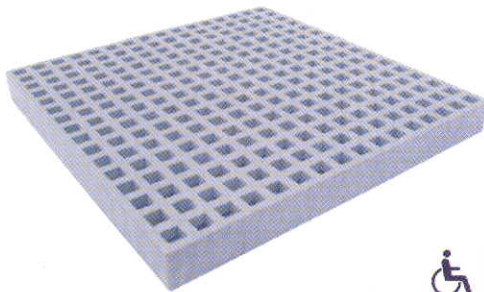


Engineering Properties per 305mm of Width	# of Bars	Load Bar Width	Bar Centers	Opening
A=21.2cm <sup>2</sup> I=30.8cm <sup>4</sup> S=14.7cm <sup>3</sup>	8	6.35 mm	19 mm	44%

### 30 x 20 Mini Mesh

Full Size: 1007mm x 3007mm

Approx. Weight: 18 kg/sm



1000mm x 3000mm

Engineering Properties per 305mm of Width	# of Bars	Load Bar Width	Bar Centers	Opening
A=17.9cm <sup>2</sup> I=17.5cm <sup>4</sup> S=9.3cm <sup>3</sup>	8	7mm	20mm	42%



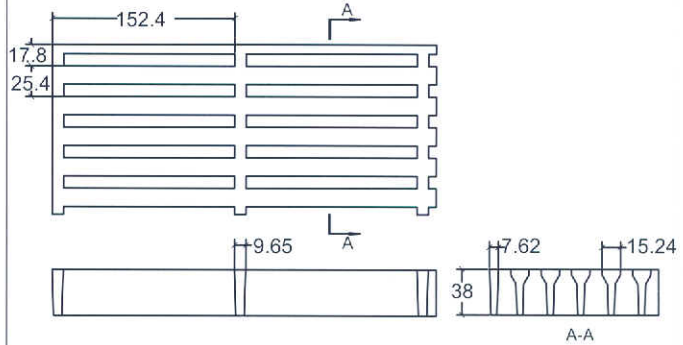
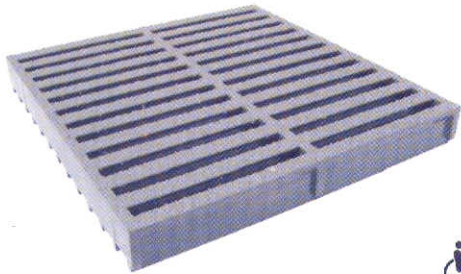
**IGRID™ SUPERSPAN Grating:**

IGRID™ Superspan Molded Grating is specially designed for applications where large span is required and molded grating is used for its effective corrosion resistance. In addition to normal superspan grating (60% opening), there are also special gratings available to meet the requirement of large coverage of footing.

**38 x 25.4 x 152.4 SuperSpan ADA**

**Full Size: 1220 x 3670**

Approx. Weight: 23.0 kg/sm



Engineering Properties per 305mm of Width

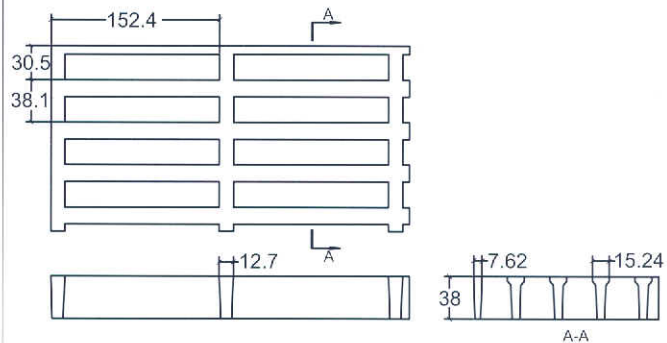
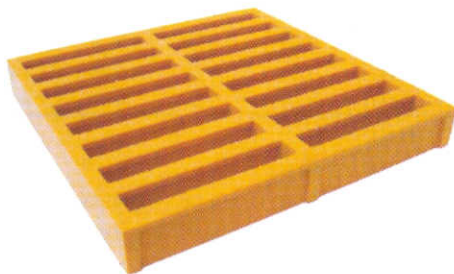
$A=37.1\text{cm}^2$   $I=47.4\text{cm}^4$   $S_T=31.7\text{cm}^3$   $S_B=20.3\text{cm}^3$

# of Bars	Load Bar Width	Bar Centers	Opening
12	15.24 mm	25.4 mm	38%

**38 x 38.1 x 152.4 SuperSpan**

**Full Size: 1220 x 3670**

Approx. Weight: 21.5 kg/sm



Engineering Properties per 305mm of Width

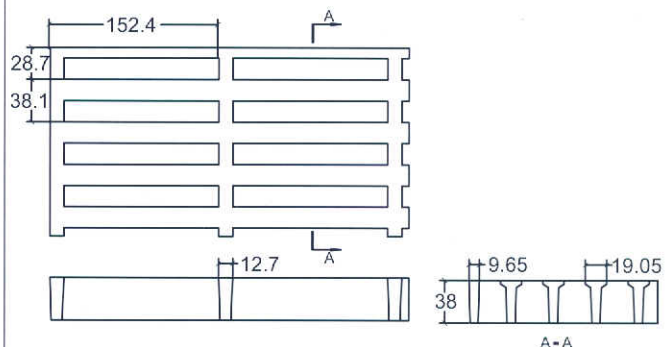
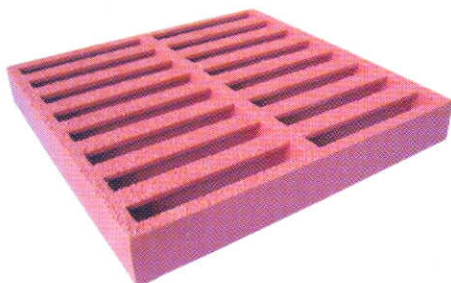
$A=28.3\text{cm}^2$   $I=36.6\text{cm}^4$   $S_T=21.3\text{cm}^3$   $S_B=17.3\text{cm}^3$

# of Bars	Load Bar Width	Bar Centers	Opening
8	15.24 mm	38.1 mm	55%

**38 x 38.1 x 152.4 WF SuperSpan**

**Full Size: 1220 x 3670**

Approx. Weight: 22.6 kg/sm

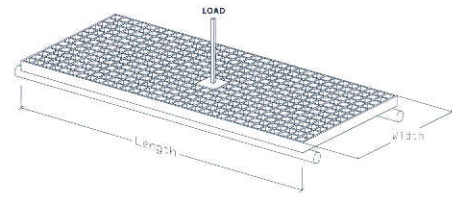


Engineering Properties per 305mm of Width

$A=29.8\text{cm}^2$   $I=39.9\text{cm}^4$   $S_T=24.4\text{cm}^3$   $S_B=18.3\text{cm}^3$

# of Bars	Load Bar Width	Bar Centers	Opening
8	19.05 mm	38.1 mm	50%

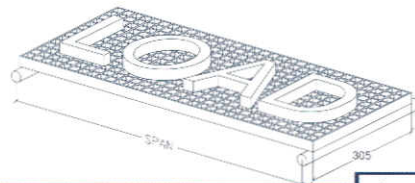




**Point Load Deflection Table:**

SPAN IN MM	STYLE	LOAD IN KGS.									
		100	200	300	400	500	750	1000	2000		
450	13 x 38.1 Square Mesh	3.27	6.55	9.82	13.09						
	13 x 50.8 Square Mesh	4.25	8.50	12.76							
	25 x 38.1 Square Mesh	0.46	0.92	1.38	1.84	2.29	3.44	4.59	9.18		
	30 x 38.1 Square Mesh	0.35	0.69	1.04	1.39	1.73	2.60	3.47	6.94		
	38 x 38.1 Square Mesh	0.16	0.31	0.47	0.63	0.78	1.17	1.57	3.13		
	50 x 50.8 Square Mesh	0.17	0.34	0.50	0.67	0.84	1.26	1.68	3.36		
	25 x 25.4 x 101.6 Rect. Mesh	0.40	0.81	1.21	1.61	2.01	3.02	4.03	8.06		
	25 x 25 x 100 Rect. Mesh	0.38	0.76	1.14	1.51	1.89	2.84	3.79	7.58		
	38 x 19 Mini Mesh	0.18	0.36	0.54	0.72	0.90	1.34	1.79	3.58		
	30 x 20 Mini Mesh	0.23	0.46	0.69	0.92	1.15	1.72	2.29	4.59		
	25 x 40 Square Mesh	0.48	0.96	1.44	1.92	2.41	3.61	4.81	9.62		
	30 x 40 Square Mesh	0.34	0.68	1.02	1.36	1.70	2.55	3.40	6.80		
	38 x 40 Square Mesh	0.15	0.30	0.45	0.60	0.76	1.13	1.51	3.02		
	38 x 25.4 x 152.4 Superspan ADA	0.13	0.27	0.40	0.54	0.67	1.01	1.34	2.69		
38 x 38.1 x 152.4 Superspan	0.14	0.27	0.41	0.55	0.68	1.02	1.37	2.73			
750	38 x 38.1 Square Mesh	0.73	1.46	2.19	2.92	3.65	5.47	7.30	14.59		
	50 x 50.8 Square Mesh	0.48	0.96	1.44	1.92	2.41	3.61	4.81	9.62		
	25 x 25.4 x 101.6 Rect. Mesh	2.09	4.18	6.28	8.37	10.46					
	25 x 25 x 100 Rect. Mesh	1.97	3.93	5.90	7.87	9.83					
	38 x 19 Mini Mesh	0.66	1.32	1.98	2.64	3.30	4.95	6.60	13.20		
	30 x 20 Mini Mesh	1.30	2.60	3.89	5.19	6.49	9.73	12.98			
	25 x 40 Square Mesh	2.68	5.37	8.05	10.73	13.42					
	30 x 40 Square Mesh	1.62	3.24	4.86	6.48	8.10	12.15				
	38 x 40 Square Mesh	0.68	1.36	2.03	2.71	3.39	5.09	6.78	13.56		
	38 x 25.4 x 152.4 Superspan ADA	0.38	0.76	1.14	1.52	1.90	2.85	3.80	7.61		
38 x 38.1 x 152.4 Superspan	0.48	0.95	1.43	1.91	2.38	3.58	4.77	9.53			
900	25 x 38.1 Square Mesh	3.68	7.37	11.05	14.74						
	30 x 38.1 Square Mesh	2.86	5.72	8.58	11.44	14.30					
	38 x 38.1 Square Mesh	1.15	2.31	3.46	4.61	5.76	8.64	11.53			
	50 x 50.8 Square Mesh	0.68	1.37	2.05	2.73	3.41	5.12	6.83	13.65		
	25 x 25.4 x 101.6 Rect. Mesh	3.18	6.36	9.53	12.71						
	25 x 25 x 100 Rect. Mesh	2.99	5.97	8.96	11.95						
	38 x 19 Mini Mesh	0.96	1.92	2.89	3.85	4.81	7.22	9.62			
	30 x 20 Mini Mesh	1.89	3.78	5.67	7.56	9.46	14.18				
	25 x 40 Square Mesh	4.25	8.49	12.74							
	30 x 40 Square Mesh	2.75	5.51	8.26	11.01	13.77					
	38 x 40 Square Mesh	1.07	2.14	3.21	4.28	5.35	8.02	10.69			
	38 x 25.4 x 152.4 Superspan ADA	0.62	1.23	1.85	2.46	3.08	4.62	6.15	12.31		
38 x 38.1 x 152.4 Superspan	0.82	1.65	2.47	3.29	4.12	6.18	8.24				
1050	25 x 38.1 Square Mesh	6.27	12.54								
	30 x 38.1 Square Mesh	3.78	7.56	11.35							
	38 x 38.1 Square Mesh	1.72	3.44	5.15	6.87	8.59	12.88				
	50 x 50.8 Square Mesh	0.97	1.95	2.92	3.89	4.87	7.30	9.73			
	25 x 25.4 x 101.6 Rect. Mesh	5.15	10.29								
	25 x 25 x 100 Rect. Mesh	4.84	9.68								
	38 x 19 Mini Mesh	1.49	2.98	4.46	5.95	7.44	11.16	14.88			
	38 x 25.4 x 152.4 Superspan ADA	0.94	1.88	2.82	3.76	4.70	7.05	9.40			
38 x 38.1 x 152.4 Superspan	1.14	2.28	3.42	4.57	5.71	8.56	11.41				
1200	30 x 38.1 Square Mesh	4.74	9.49	14.23							
	38 x 38.1 Square Mesh	2.18	4.36	6.55	8.73	10.91					
	50 x 50.8 Square Mesh	1.13	2.26	3.39	4.52	5.65	8.48	11.30			
	38 x 19 Mini Mesh	1.86	3.71	5.57	7.43	9.29	13.93				
	38 x 25.4 x 152.4 Superspan ADA	1.20	2.39	3.59	4.79	5.99	8.98	11.97			
	38 x 38.1 x 152.4 Superspan	1.42	2.84	4.26	5.68	7.11	10.66	14.21			

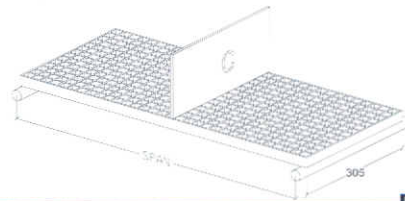




Uniform Load Deflection Table:

SPAN IN MM	STYLE	LOAD IN KG/M <sup>2</sup> OF WIDTH								Max Rec. Load	Apparent EI x 10 <sup>-2</sup> (KG-M <sup>2</sup> )	
		100	200	300	500	750	1000	1500	2000			
500	13 x 38.1 Square Mesh	1.77	3.54	5.32	8.86	13.29					655	0.14
	13 x 50.8 Square Mesh	2.05	4.10	6.15	10.25						549	0.12
	25 x 38.1 Square Mesh	0.24	0.49	0.73	1.22	1.82	2.43	3.65	4.86		3106	1.02
	30 x 38.1 Square Mesh	0.18	0.36	0.55	0.91	1.36	1.82	2.73	3.64		3293	1.36
	38 x 38.1 Square Mesh	0.07	0.15	0.22	0.36	0.54	0.73	1.09	1.45		4747	3.42
	50 x 50.8 Square Mesh	0.04	0.08	0.11	0.19	0.29	0.38	0.57	0.76		10768	6.50
	25 x 25.4 x 101.6 Rect. Mesh	0.17	0.33	0.50	0.83	1.25	1.67	2.50	3.34		4466	1.49
	25 x 25 x 100 Rect. Mesh	0.16	0.31	0.47	0.78	1.18	1.57	2.35	3.14		4752	1.58
	38 x 19 Mini Mesh	0.06	0.11	0.17	0.28	0.42	0.55	0.83	1.11		7182	4.48
	30 x 20 Mini Mesh	0.11	0.22	0.33	0.54	0.82	1.09	1.63	2.18		4123	2.28
	25 x 40 Square Mesh	0.26	0.51	0.77	1.28	1.92	2.56	3.84	5.11		2601	0.97
	30 x 40 Square Mesh	0.17	0.33	0.50	0.83	1.25	1.67	2.50	3.33		2907	1.42
	38 x 40 Square Mesh	0.07	0.14	0.21	0.35	0.53	0.70	1.05	1.40		4909	3.54
	38 x 25.4 x 152.4 Superspan ADA	0.05	0.10	0.14	0.24	0.36	0.48	0.72	0.95		9785	5.20
38 x 38.1 x 152.4 Superspan	0.05	0.09	0.14	0.23	0.34	0.45	0.68	0.91		8368	5.48	
700	25 x 38.1 Square Mesh	0.89	1.77	2.66	4.44	6.65	8.87	13.31			1584	1.07
	30 x 38.1 Square Mesh	0.64	1.29	1.93	3.22	4.83	6.44	9.66	12.89		1680	1.48
	38 x 38.1 Square Mesh	0.25	0.50	0.75	1.26	1.89	2.51	3.77	5.03		2422	3.79
	50 x 50.8 Square Mesh	0.13	0.26	0.39	0.66	0.99	1.32	1.97	2.63		5494	7.24
	25 x 25.4 x 101.6 Rect. Mesh	0.62	1.25	1.87	3.11	4.67	6.23	9.34	12.46		2279	1.53
	25 x 25 x 100 Rect. Mesh	0.59	1.17	1.76	2.93	4.39	5.85	8.78	11.71		2425	1.63
	38 x 19 Mini Mesh	0.19	0.38	0.57	0.95	1.42	1.90	2.85	3.80		3664	5.02
	30 x 20 Mini Mesh	0.38	0.77	1.15	1.92	2.88	3.84	5.76	7.68		2104	2.48
	25 x 40 Square Mesh	0.94	1.89	2.83	4.72	7.08	9.43	14.15			1333	1.01
	30 x 40 Square Mesh	0.61	1.21	1.82	3.03	4.54	6.05	9.08	12.10		1481	1.54
	38 x 40 Square Mesh	0.24	0.49	0.73	1.22	1.82	2.43	3.65	4.86		2505	3.92
	38 x 25.4 x 152.4 Superspan ADA	0.14	0.28	0.41	0.69	1.04	1.38	2.07	2.76		4992	6.90
38 x 38.1 x 152.4 Superspan	0.15	0.30	0.45	0.75	1.13	1.50	2.25	3.00		4269	6.35	
900	25 x 38.1 Square Mesh	2.35	4.69	7.04	11.73						959	1.11
	30 x 38.1 Square Mesh	1.72	3.43	5.15	8.59	12.88					1016	1.51
	38 x 38.1 Square Mesh	0.65	1.30	1.95	3.25	4.88	6.51	9.76	13.02		1465	4.00
	50 x 50.8 Square Mesh	0.35	0.69	1.04	1.74	2.60	3.47	5.21	6.94		3323	7.50
	25 x 25.4 x 101.6 Rect. Mesh	1.66	3.32	4.98	8.29	12.44					1379	1.57
	25 x 25 x 100 Rect. Mesh	1.56	3.12	4.68	7.79	11.69					1467	1.67
	38 x 19 Mini Mesh	0.49	0.98	1.46	2.44	3.66	4.88	7.31	9.75		2217	5.34
	30 x 20 Mini Mesh	1.02	2.04	3.06	5.11	7.66	10.21				1273	2.55
	25 x 40 Square Mesh	2.53	5.06	7.58	12.64						812	1.03
	30 x 40 Square Mesh	1.60	3.19	4.79	7.98	11.97	15.96				897	1.57
	38 x 40 Square Mesh	0.63	1.26	1.89	3.15	4.72	6.29	9.44	12.59		1515	4.14
	38 x 25.4 x 152.4 Superspan ADA	0.36	0.71	1.07	1.78	2.68	3.57	5.35	7.13		3020	7.30
38 x 38.1 x 152.4 Superspan	0.38	0.76	1.14	1.90	2.86	3.81	5.71	7.61		2583	6.84	
1100	30 x 38.1 Square Mesh	3.84	7.67	11.51							680	1.51
	38 x 38.1 Square Mesh	1.44	2.88	4.31	7.19	10.79	14.38				981	4.04
	50 x 50.8 Square Mesh	0.76	1.51	2.27	3.78	5.67	7.57	11.35			2225	7.68
	25 x 25.4 x 101.6 Rect. Mesh	3.65	7.31	10.96							923	1.59
	25 x 25 x 100 Rect. Mesh	3.43	6.87	10.30							982	1.69
	38 x 19 Mini Mesh	1.05	2.11	3.16	5.26	7.89	10.53				1484	5.52
	30 x 20 Mini Mesh	2.23	4.45	6.68	11.13						852	2.61
	30 x 40 Square Mesh	3.46	6.92	10.38							603	1.58
	38 x 40 Square Mesh	1.39	2.78	4.17	6.95	10.43	13.91				1014	4.18
	38 x 25.4 x 152.4 Superspan ADA	0.77	1.55	2.32	3.87	5.81	7.75	11.62			2022	7.50
38 x 38.1 x 152.4 Superspan	0.83	1.66	2.49	4.15	6.23	8.30	12.45			1729	7.00	
1300	38 x 38.1 Square Mesh	2.79	5.58	8.38	13.96						702	4.06
	50 x 50.8 Square Mesh	1.45	2.89	4.34	7.23	10.84	14.46				1593	7.84
	38 x 19 Mini Mesh	2.01	4.03	6.04	10.07						1062	5.63
	38 x 25.4 x 152.4 Superspan ADA	1.49	2.98	4.46	7.44	11.16	14.88				1447	7.62
	38 x 38.1 x 152.4 Superspan	1.59	3.18	4.78	7.96	11.94					1238	7.12
	38 x 40 Square Mesh	2.70	5.40	8.10	13.50						726	4.20
1500	50 x 50.8 Square Mesh	2.53	5.07	7.60	12.67						1196	7.93
	38 x 19 Mini Mesh	3.53	7.06	10.59							798	5.69
	38 x 25.4 x 152.4 Superspan ADA	2.61	5.22	7.83	13.05						1087	7.70
	38 x 38.1 x 152.4 Superspan	2.79	5.59	8.38	13.97						930	7.19
	38 x 40 Square Mesh	4.76	9.52	14.28							526	4.22

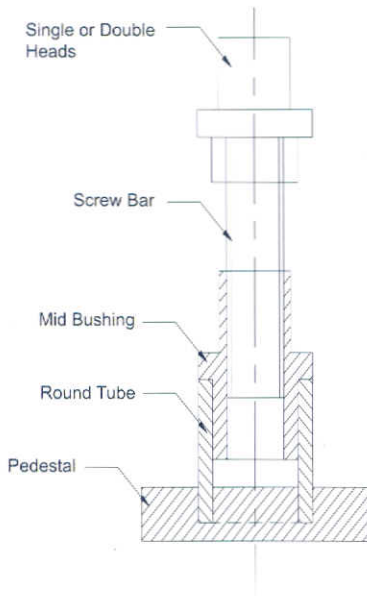




Line Load Deflection Table:

SPAN IN MM	STYLE	LOAD IN KG/M OF WIDTH								Max Rec. Load	Apparent EI x 10 <sup>^2</sup> (KG-M <sup>2</sup> )
		100	200	300	500	750	1000	1500	2000		
500	13 x 38.1 Square Mesh	5.67	11.34							256	0.14
	13 x 50.8 Square Mesh	6.56	13.12							215	0.12
	25 x 38.1 Square Mesh	0.78	1.56	2.33	3.89	5.84	7.78	11.67		1213	1.02
	30 x 38.1 Square Mesh	0.58	1.16	1.75	2.91	4.36	5.82	8.73	11.64	1286	1.36
	38. x 38.1 Square Mesh	0.23	0.46	0.70	1.16	1.74	2.32	3.48	4.64	1854	3.42
	50 x 50.8 Square Mesh	0.12	0.24	0.37	0.61	0.92	1.22	1.83	2.44	4206	6.50
	25 x 25.4 x 101.6 Rect. Mesh	0.53	1.07	1.60	2.67	4.01	5.34	8.01	10.68	1745	1.49
	25 x 25 x 100 Rect. Mesh	0.50	1.00	1.51	2.51	3.77	5.02	7.53	10.04	1856	1.58
	38 x 19 Mini Mesh	0.18	0.35	0.53	0.89	1.33	1.77	2.66	3.54	2805	4.48
	30 x 20 Mini Mesh	0.35	0.70	1.04	1.74	2.61	3.48	5.22	6.96	1611	2.28
	25 x 40 Square Mesh	0.81	1.62	2.44	4.06	6.09	8.12	12.18		1024	0.97
	30 x 40 Square Mesh	0.53	1.07	1.60	2.67	4.00	5.33	8.00	10.67	1136	1.42
	38 x 40 Square Mesh	0.22	0.45	0.67	1.12	1.68	2.24	3.37	4.49	1918	3.54
	38 x 25.4 x 152.4 Superspan ADA	0.15	0.31	0.46	0.76	1.14	1.53	2.29	3.05	3822	5.20
38 x 38.1 x 152.4 Superspan	0.14	0.29	0.43	0.72	1.09	1.45	2.17	2.90	3269	5.48	
700	25 x 38.1 Square Mesh	2.03	4.06	6.09	10.15					867	1.07
	30 x 38.1 Square Mesh	1.47	2.95	4.42	7.36	11.04	14.73			919	1.48
	38. x 38.1 Square Mesh	0.57	1.15	1.72	2.87	4.31	5.75	8.62	11.49	1325	3.79
	50 x 50.8 Square Mesh	0.30	0.60	0.90	1.50	2.26	3.01	4.51	6.02	3004	7.24
	25 x 25.4 x 101.6 Rect. Mesh	1.42	2.85	4.27	7.12	10.68	14.24			1246	1.53
	25 x 25 x 100 Rect. Mesh	1.34	2.68	4.01	6.69	10.03	13.38			1326	1.63
	38 x 19 Mini Mesh	0.43	0.87	1.30	2.17	3.25	4.34	6.51	8.68	2004	5.02
	30 x 20 Mini Mesh	0.88	1.76	2.63	4.39	6.59	8.78	13.17		1150	2.48
	25 x 40 Square Mesh	2.15	4.30	6.45	10.75					731	1.01
	30 x 40 Square Mesh	1.38	2.76	4.14	6.91	10.36	13.81			811	1.54
	38 x 40 Square Mesh	0.56	1.11	1.67	2.78	4.17	5.56	8.34	11.11	1370	3.92
	38 x 25.4 x 152.4 Superspan ADA	0.32	0.63	0.95	1.58	2.37	3.16	4.73	6.31	2730	6.90
38 x 38.1 x 152.4 Superspan	0.34	0.69	1.03	1.72	2.57	3.43	5.15	6.86	2335	6.35	
900	25 x 38.1 Square Mesh	4.17	8.34	12.51						674	1.11
	30 x 38.1 Square Mesh	3.05	6.11	9.16	15.26					715	1.51
	38. x 38.1 Square Mesh	1.16	2.31	3.47	5.79	8.68	11.57			1030	4.00
	50 x 50.8 Square Mesh	0.62	1.23	1.85	3.09	4.63	6.17	9.26	12.34	2337	7.50
	25 x 25.4 x 101.6 Rect. Mesh	2.95	5.90	8.85	14.74					969	1.57
	25 x 25 x 100 Rect. Mesh	2.77	5.54	8.31	13.86					1031	1.67
	38 x 19 Mini Mesh	0.87	1.73	2.60	4.33	6.50	8.67	13.00		1559	5.34
	30 x 20 Mini Mesh	1.82	3.63	5.45	9.08	13.62				895	2.55
	25 x 40 Square Mesh	4.51	9.02	13.53						569	1.03
	30 x 40 Square Mesh	2.83	5.67	8.50	14.17					631	1.57
	38 x 40 Square Mesh	1.12	2.24	3.36	5.60	8.39	11.19			1065	4.14
	38 x 25.4 x 152.4 Superspan ADA	0.63	1.27	1.90	3.17	4.76	6.34	9.51	12.68	2123	7.30
38 x 38.1 x 152.4 Superspan	0.68	1.35	2.03	3.38	5.08	6.77	10.15	13.54	1816	6.84	
1100	30 x 38.1 Square Mesh	5.58	11.16							497	1.51
	38. x 38.1 Square Mesh	2.09	4.18	6.28	10.46					843	4.04
	50 x 50.8 Square Mesh	1.10	2.20	3.30	5.50	8.25	11.01			1912	7.68
	25 x 25.4 x 101.6 Rect. Mesh	5.32	10.63							793	1.59
	25 x 25 x 100 Rect. Mesh	5.00	9.99							844	1.69
	38 x 19 Mini Mesh	1.53	3.06	4.59	7.66	11.48				1275	5.52
	30 x 20 Mini Mesh	3.24	6.48							732	2.61
	30 x 40 Square Mesh	5.04	10.09	15.13						516	1.58
	38 x 40 Square Mesh	2.02	4.05	6.07	10.12					872	4.18
	38 x 25.4 x 152.4 Superspan ADA	1.13	2.25	3.38	5.63	8.45	11.27			1737	7.50
38 x 38.1 x 152.4 Superspan	1.21	2.41	3.62	6.04	9.06	12.07			1486	7.00	
1300	38. x 38.1 Square Mesh	3.44	6.87	10.31						713	4.06
	50 x 50.8 Square Mesh	1.78	3.56	5.34	8.90	13.35				1618	7.84
	38 x 19 Mini Mesh	2.48	4.96	7.43	12.39					1079	5.63
	38 x 25.4 x 152.4 Superspan ADA	1.83	3.66	5.49	9.15	13.73				1470	7.62
	38 x 38.1 x 152.4 Superspan	1.96	3.92	5.88	9.80	14.70				1257	7.12
38 x 40 Square Mesh	3.32	6.65	9.97						738	4.20	
1500	50 x 50.8 Square Mesh	2.70	5.41	8.11	13.51					1402	7.93
	38 x 19 Mini Mesh	3.77	7.53	11.30						935	5.69
	38 x 25.4 x 152.4 Superspan ADA	2.78	5.57	8.35	13.92					1274	7.70
	38 x 38.1 x 152.4 Superspan	2.98	5.96	8.94	14.90					1090	7.19
38 x 40 Square Mesh	5.08	10.16							632	4.22	





## Grating Leg System

Molded grating can be economically supported by perpendicular grating legs made of FRP (fiberglass reinforced plastics) where ordinary support beams are difficult to install or no ordinary support beams can be installed due to the low elevation. In case like this, IGRID<sup>®</sup> leg system is a cost-effective way to support gratings used to cover large span, shallow sewers or pits as well as other similar applications.

FRP legs boast great flexibility in application for its excellent adjustability whose maximum height reaches up to 1524mm. It offers very flexible applications as required by concrete situation.

## Legs Configuration

- NB-F-SH: Fixed height, single head legs with normal base - used internally in panels or at edge of panel
- NB-F-DH: Fixed height, double head legs with normal base - used at intersections of panels
- NB-A-SH: Adjustable height, single head legs with normal base - used internally in panels or at edge of panel
- NB-A-DH: Adjustable height, double head legs with normal base - used at intersections of panels
- DB-F-SH: Fixed height, single head legs with dome base - used internally in panels or at edge of panel
- DB-F-DH: Fixed height, double head legs with dome base - used at intersections of panels
- DB-A-SH: Adjustable height, single head legs with dome base - used internally in panels or at edge of panel
- DB-A-DH: Adjustable height, double head legs with dome base - used at intersections of panels

### Notes:

- A. The standard adjustable legs offer adjustability of plus/minus 25.4mm if there is no special requirement.
- B. Dome base is recommended for stability in the case of footing surface taller than 900mm.
- C. Similarly, Suzhou Grating Co., Ltd. can supply a minimal elevation for drainage with modified support head.

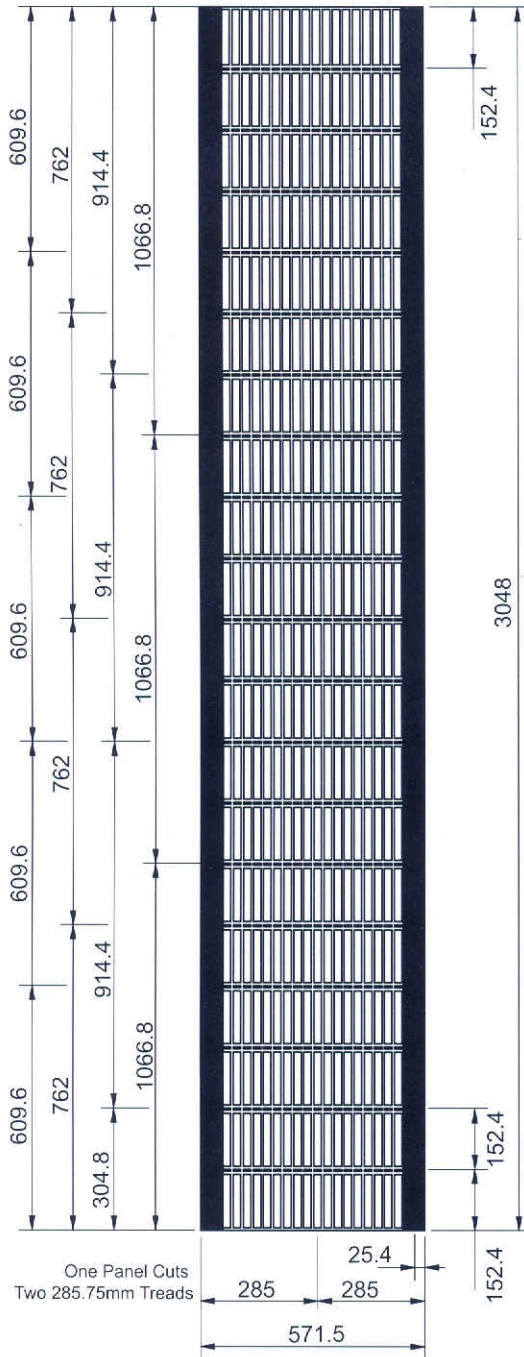
## How to select legs

- A. The choice of legs must be in compliance with the thickness of grating and the load deflection table since different thickness requires different legs. By doing so, you will have a cost-effective solution of support system.
- B. Meanwhile, there is a special kind of leg that can offer support where 4 pieces of gratings join together. Hence, the cost of support is greatly reduced and efficiency is highly improved.



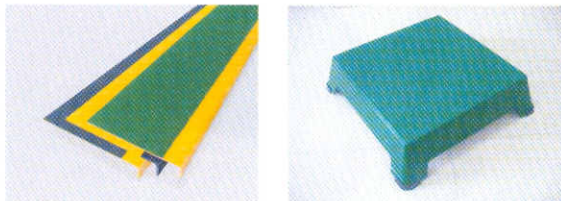


# STAIRTREAD, TREAD COVER



## FRP Treads Cover

FRP Treads Cover can be used to turn the old rusty steel treads into anti-skid ones without replacing them. The installation is easy: you just cover them with FRP treads cover.



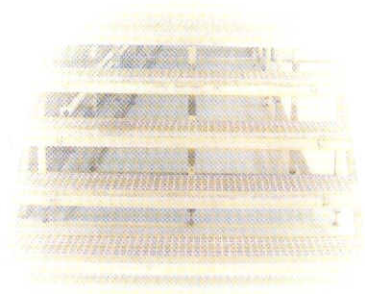
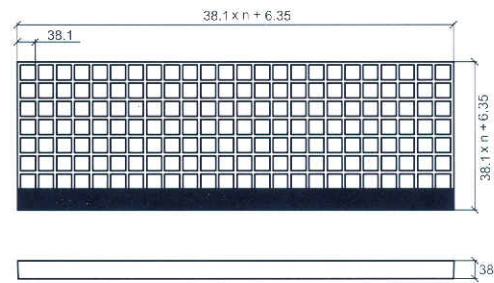
## IGRID™ Stairtread

Suzhou Grating Co., Ltd. can supply anti-skid molded stairtread with solid safety nosing. Almost all kind of gratings can be cut into right sizes and attached with safety nosing in standard colors or custom colors.

The standard panel of stairtread is made in 25.4x152.4mm rectangular mesh, with 152.4mm lengthwise. The whole panel can be cut into any integral stairtread (i.e. the multiple of 6") as required with two ends of treads closed.

It is available in 235mm, 260mm and so on in terms of its width with wide sides closed.

## 38.1mm SQ. mesh Stairtread



## FRP Grating with Plate

For some application with heavy load requirement, grating can be covered with different thickness solid plate to increase its strength for heavy load such as truck, fork lift running over at shop trench etc.

This special covered grating can be used for platforms with no-holes required to prevent tools falling through platform.

These covered gratings can not only be made in molded gratings but also pultruded gratings.

## FRP Work Stands

With rubber cushion, work stands can be placed at any level surface without moving or damage to floor. The work stands can be replaced or removed very conveniently.



## IGRID™ Pultruded Grating

IGRID™ Pultruded Grating is specially fabricated for applications that call for high strength and large span. Since fiberglass is the key contributor to grating's strength, the content of fiberglass in gratings turns out to be a major factor. The pultruded gratings fabricated in our company can contain around 55% fiberglass, which can guarantee the high strength of gratings.

The grating is made by pulling thermoset resin together with fiberglass through a heated mold with temperature control at different sections of the die to facilitate resin to cure.

Under normal conditions, these bearing bars, after drilling holes in them, are assembled with cross bars at a spacing of 152.4mm. (Of course, the spacing can be adjusted as per customer's requirement.)

## Advantages

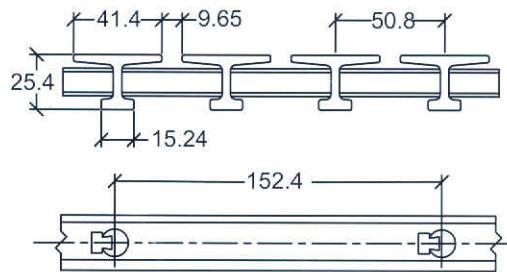
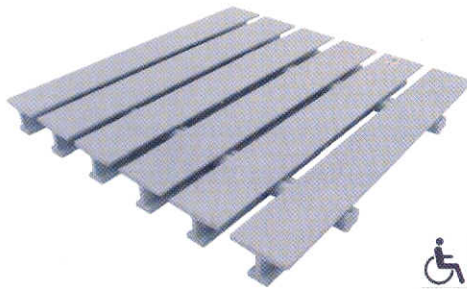
- Corrosion Resistance
- High Stiffness
- Non-Slip



### T-Bar PT-1018

Full Size: 1524 x 6096

Approx. Weight: 11.68 kg/sm

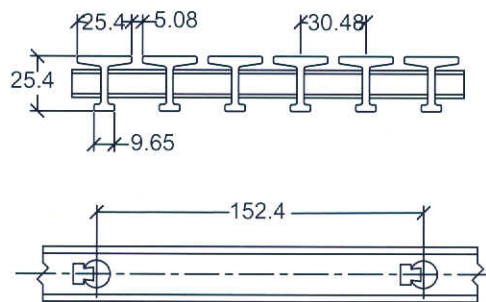
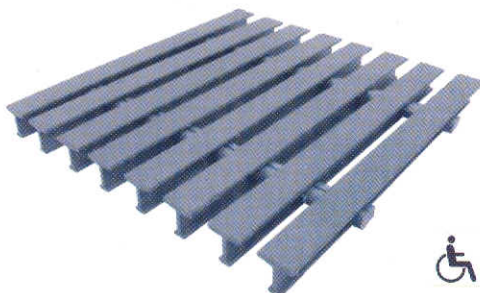


Engineering Properties per 305mm of Width	# of Bars	Load Bar Depth	Bar Centers	Opening
A=18.5cm <sup>2</sup> I=15.4cm <sup>4</sup> S <sub>T</sub> =16.4cm <sup>3</sup> S <sub>B</sub> =9.57cm <sup>3</sup>	6	25.4 mm	50.8 mm	18%

### T Bar PT-1017

Full Size: 1524 x 6096

Approx. Weight: 13.24 kg/sm



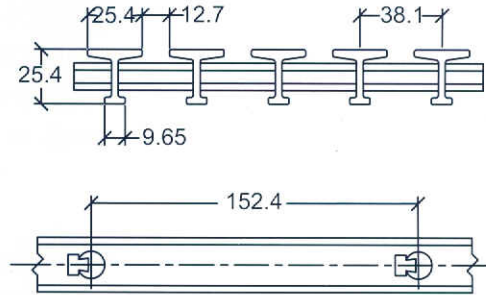
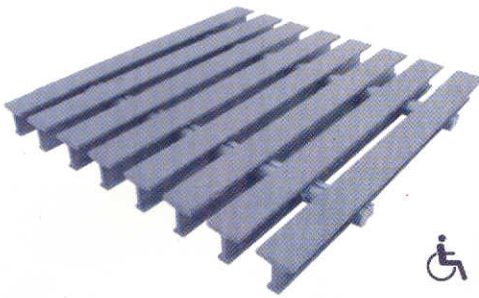
Engineering Properties per 305mm of Width	# of Bars	Load Bar Depth	Bar Centers	Opening
A=18.9cm <sup>2</sup> I=14.2cm <sup>4</sup> S <sub>T</sub> =15.9cm <sup>3</sup> S <sub>B</sub> =8.52cm <sup>3</sup>	10	25.4 mm	30.48 mm	17%



## T Bar PT-1033

Full Size: 1524 x 6096

Approx. Weight: 11.0 kg/sm



Engineering Properties per 305mm of Width

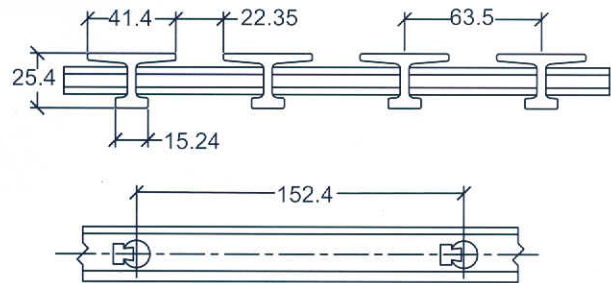
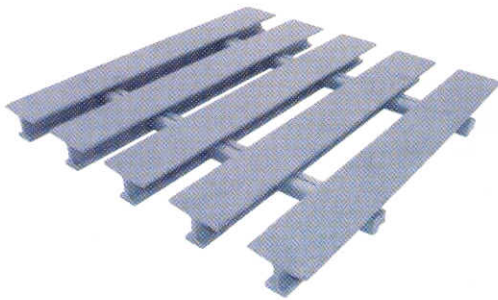
$A=15.1\text{cm}^2$   $I=11.2\text{cm}^4$   $S_T=12.8\text{cm}^3$   $S_B=6.88\text{cm}^3$

# of Bars	Load Bar Depth	Bar Centers	Opening
8	25.4 mm	38.1 mm	33%

## T Bar PT-1035

Full Size: 1524 x 6096

Approx. Weight: 9.77 kg/sm



Engineering Properties per 305mm of Width

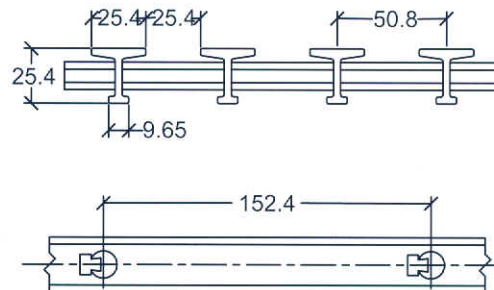
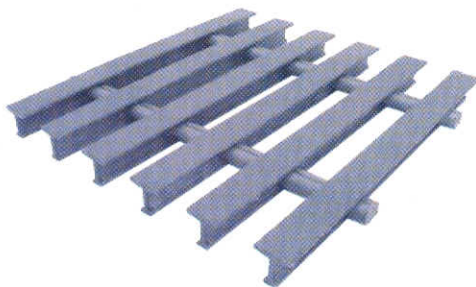
$A=15.4\text{cm}^2$   $I=12.9\text{cm}^4$   $S_T=13.8\text{cm}^3$   $S_B=8.03\text{cm}^3$

# of Bars	Load Bar Depth	Bar Centers	Opening
5	25.4 mm	63.5 mm	35%

## T Bar PT-1050

Full Size: 1524 x 6096

Approx. Weight: 8.85 kg/sm



Engineering Properties per 305mm of Width

$A=11.4\text{cm}^2$   $I=8.74\text{cm}^4$   $S_T=9.67\text{cm}^3$   $S_B=5.08\text{cm}^3$

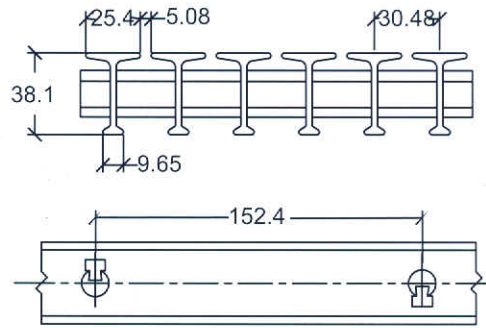
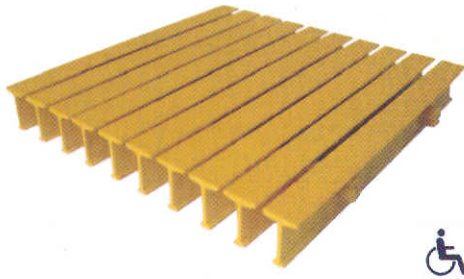
# of Bars	Load Bar Width	Bar Centers	Opening
6	25.4 mm	50.8 mm	50%



**T-Bar PT-1517**

**Full Size: 1524 x 6096**

Approx. Weight: 16.57 kg/sm

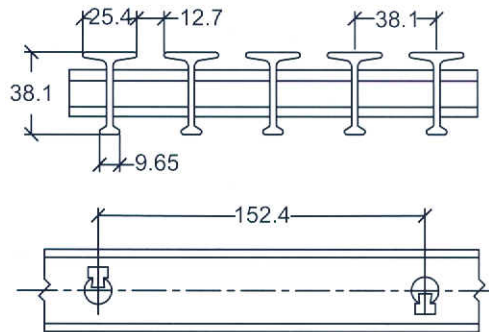
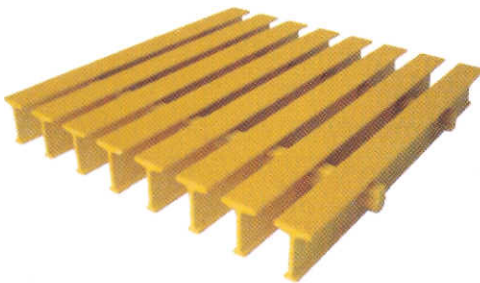


Engineering Properties per 305mm of Width	# of Bars	Load Bar Depth	Bar Centers	Opening
A=19.9cm <sup>2</sup> I=36.6cm <sup>4</sup> S <sub>T</sub> =22.6cm <sup>3</sup> S <sub>B</sub> =16.7cm <sup>3</sup>	10	38.1 mm	30.48 mm	17%

**T-Bar PT-1533**

**Full Size: 1524 x 6096**

Approx. Weight: 13.73 kg/sm

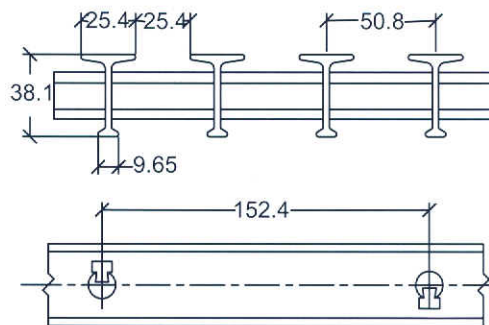
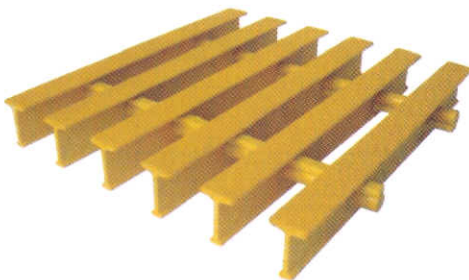


Engineering Properties per 305mm of Width	# of Bars	Load Bar Depth	Bar Centers	Opening
A=16.0cm <sup>2</sup> I=29.1cm <sup>4</sup> S <sub>T</sub> =18.0cm <sup>3</sup> S <sub>B</sub> =13.4cm <sup>3</sup>	8	38.1 mm	38.1 mm	33%

**T Bar PT-1550**

**Full Size: 1524 x 6096**

Approx. Weight: 10.9 kg/sm



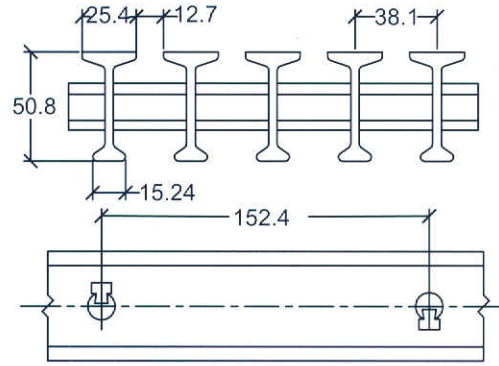
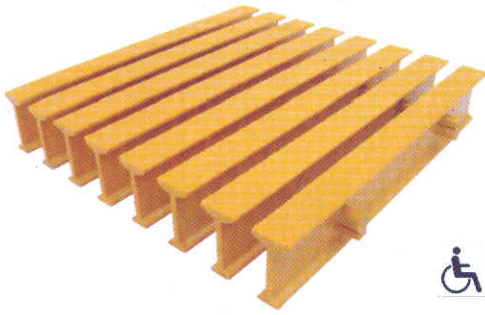
Engineering Properties per 305mm of Width	# of Bars	Load Bar Depth	Bar Centers	Opening
A=11.9cm <sup>2</sup> I=22.1cm <sup>4</sup> S <sub>T</sub> =13.6cm <sup>3</sup> S <sub>B</sub> =9.99cm <sup>3</sup>	6	38.1 mm	50.8 mm	50%



## T Bar PT-2033

Full Size: 1524 x 6096

Approx. Weight: 21.7 kg/sm

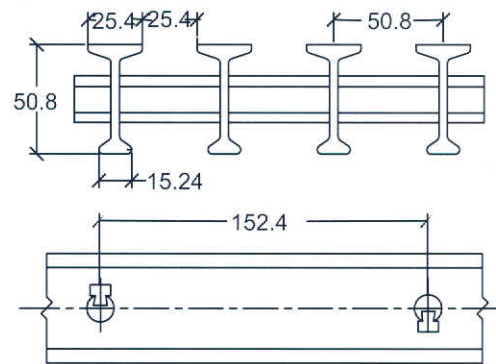
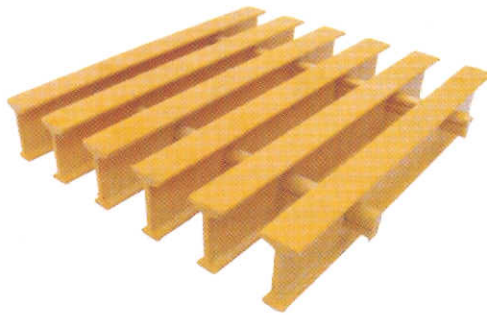


Engineering Properties per 305mm of Width	# of Bars	Load Bar Depth	Bar Centers	Opening
A=28.6cm <sup>2</sup> I=87.8cm <sup>4</sup> S <sub>T</sub> =43.3cm <sup>3</sup> S <sub>B</sub> =28.8cm <sup>3</sup>	8	50.8 mm	38.1 mm	33%

## T Bar PT-2050

Full Size: 1524 x 6096

Approx. Weight: 16.76 kg/sm

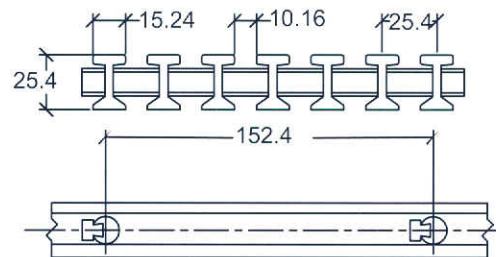
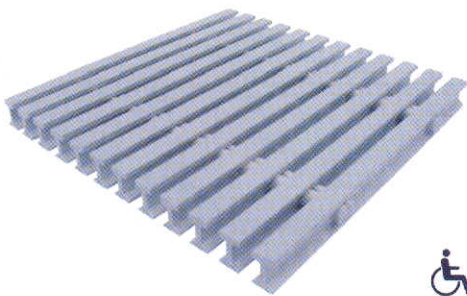


Engineering Properties per 305mm of Width	# of Bars	Load Bar Depth	Bar Centers	Opening
A=20.8cm <sup>2</sup> I=65.8cm <sup>4</sup> S <sub>T</sub> =32.4cm <sup>3</sup> S <sub>B</sub> =21.6cm <sup>3</sup>	6	50.8 mm	50.8 mm	50%

## I Bar PI-1040

Full Size: 1524 x 6096

Approx. Weight: 16.96 kg/sm



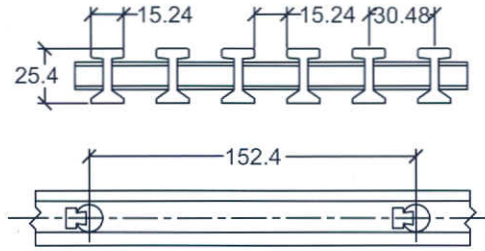
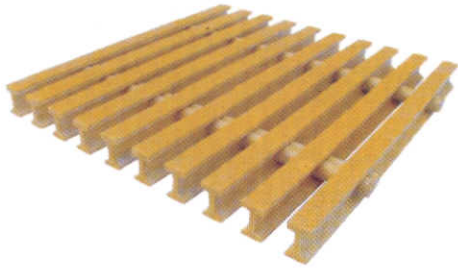
Engineering Properties per 305mm of Width	# of Bars	Load Bar Depth	Bar Centers	Opening
A=23.6cm <sup>2</sup> I=19.1cm <sup>4</sup> S=15.2cm <sup>3</sup>	12	25.4 mm	25.4 mm	40%



**I Bar PI-1050**

**Full Size: 1524 x 6096**

Approx. Weight: 14.51 kg/sm

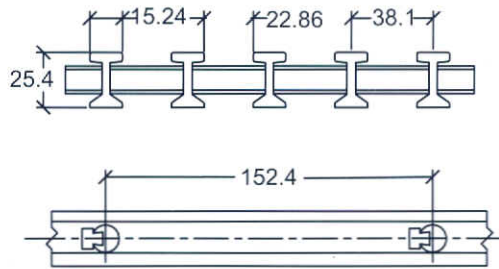
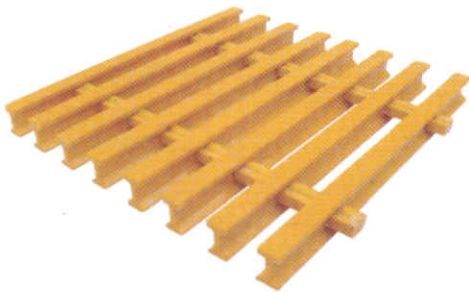


Engineering Properties per 305mm of Width	# of Bars	Load Bar Depth	Bar Centers	Opening
A=19.7cm <sup>2</sup> I=16.2cm <sup>4</sup> S=12.6cm <sup>3</sup>	10	25.4 mm	30.48 mm	50%

**I Bar PI-1060**

**Full Size: 1524 x 6096**

Approx. Weight: 12.07 kg/sm

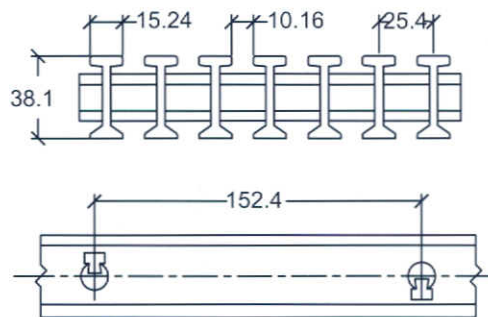
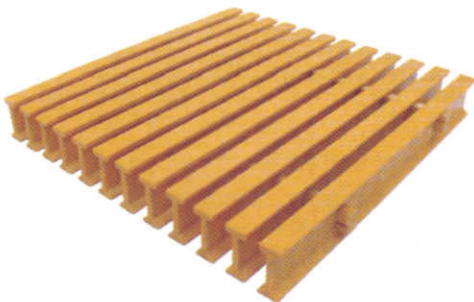


Engineering Properties per 305mm of Width	# of Bars	Load Bar Depth	Bar Centers	Opening
A=15.7cm <sup>2</sup> I=12.9cm <sup>4</sup> S=10.2cm <sup>3</sup>	8	25.4 mm	38.1 mm	60%

**I Bar PI-1540**

**Full Size: 1524 x 6096**

Approx. Weight: 21.99 kg/sm



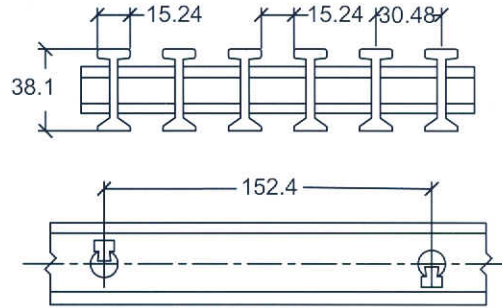
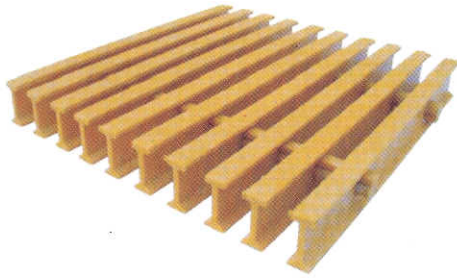
Engineering Properties per 305mm of Width	# of Bars	Load Bar Depth	Bar Centers	Opening
A=30.1cm <sup>2</sup> I=54.9cm <sup>4</sup> S=28.8cm <sup>3</sup>	12	38.1 mm	25.4 mm	40%



## I Bar PI-1550

Full Size: 1524 x 6096

Approx. Weight: 17.59 kg/sm



Engineering Properties per 305mm of Width

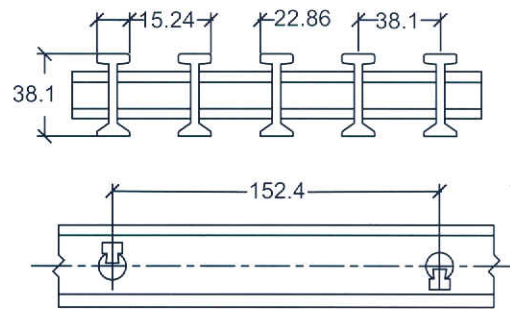
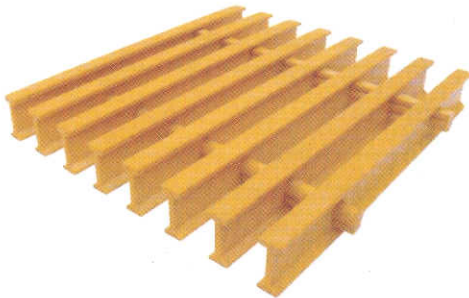
A=25.1cm<sup>2</sup>      I=46.2cm<sup>4</sup>      S=24.1cm<sup>3</sup>

# of Bars	Load Bar Depth	Bar Centers	Opening
10	38.1 mm	30.48 mm	50%

## I Bar PI-1560

Full Size: 1524 x 6096

Approx. Weight: 14.51 kg/sm



Engineering Properties per 305mm of Width

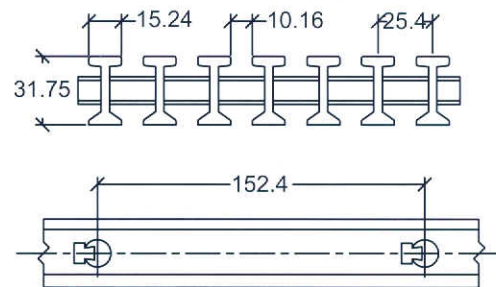
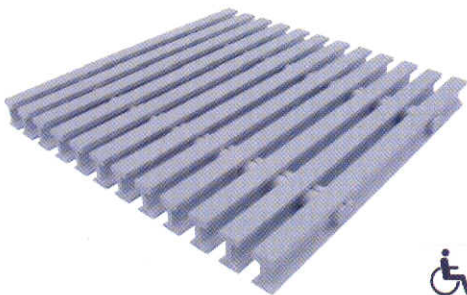
A=20.1cm<sup>2</sup>      I=36.6cm<sup>4</sup>      S=19.2cm<sup>3</sup>

# of Bars	Load Bar Depth	Bar Centers	Opening
8	38.1 mm	38.1 mm	60%

## I Bar PI-1240

Full Size: 1524 x 6096

Approx. Weight: 18.42 kg/sm



Engineering Properties per 305mm of Width

A=26.6cm<sup>2</sup>      I=34.5cm<sup>4</sup>      S=15.2cm<sup>3</sup>

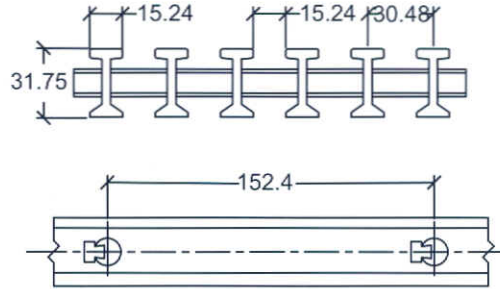
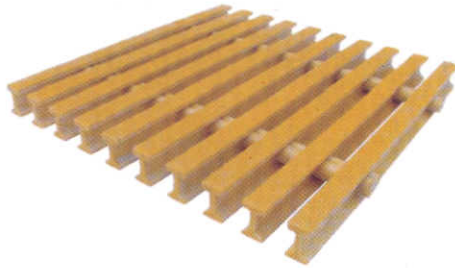
# of Bars	Load Bar Depth	Bar Centers	Opening
12	31.75 mm	25.4 mm	40%



**I Bar PI-1250**

**Full Size: 1524 x 6096**

Approx. Weight: 15.74 kg/sf

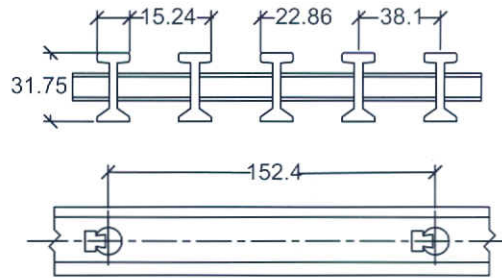
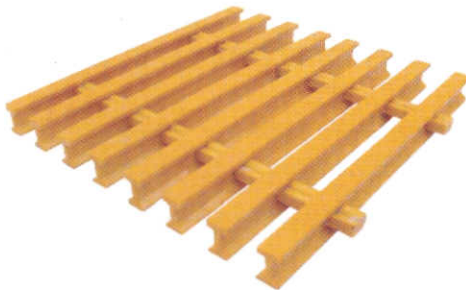


Engineering Properties per 305mm of Width			# of Bars	Load Bar Depth	Bar Centers	Opening
A=22.2cm <sup>2</sup>	I=28.7cm <sup>4</sup>	S=18.0cm <sup>3</sup>	10	31.75 mm	30.48 mm	50%

**I Bar PI-1260**

**Full Size: 1524 x 6096**

Approx. Weight: 13.05 kg/sm

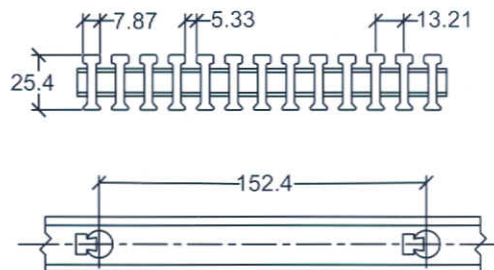
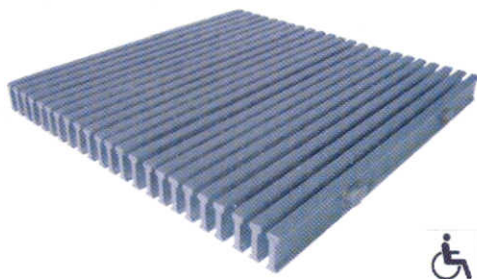


Engineering Properties per 305mm of Width			# of Bars	Load Bar Depth	Bar Centers	Opening
A=17.7cm <sup>2</sup>	I=22.9cm <sup>4</sup>	S=14.4cm <sup>3</sup>	8	31.75 mm	38.1 mm	60%

**I Bar PI-1040-ADA**

**Full Size: 1524 x 6096**

Approx. Weight: 19.84 kg/sm



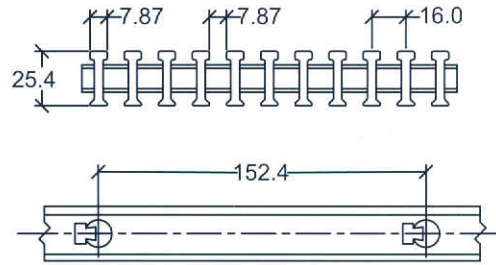
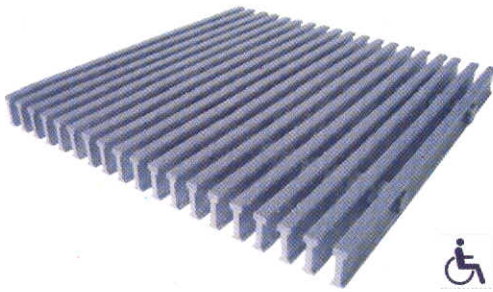
Engineering Properties per 305mm of Width			# of Bars	Load Bar Depth	Bar Centers	Opening
A=28.6cm <sup>2</sup>	I=20.4cm <sup>4</sup>	S=16.1cm <sup>3</sup>	23	25.4 mm	13.21 mm	40%



## I Bar PI-1050-ADA

Full Size: 1524 x 6096

Approx. Weight: 17.10 kg/sm



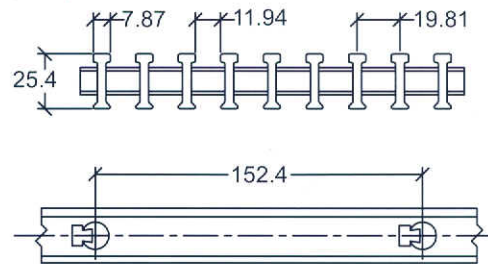
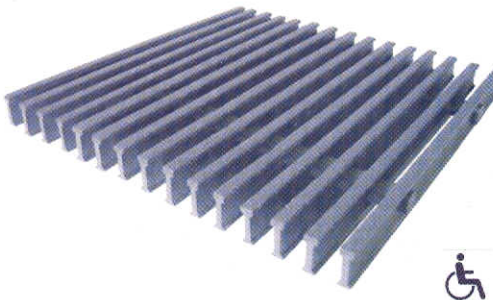
Engineering Properties per 305mm of Width  
 $A=23.7\text{cm}^2$      $I=16.6\text{cm}^4$      $S=13.1\text{cm}^3$

# of Bars	Load Bar Depth	Bar Centers	Opening
19	25.4 mm	16.00 mm	50%

## I Bar PI-1060-ADA

Full Size: 1524 x 6096

Approx. Weight: 14.27 kg/sm



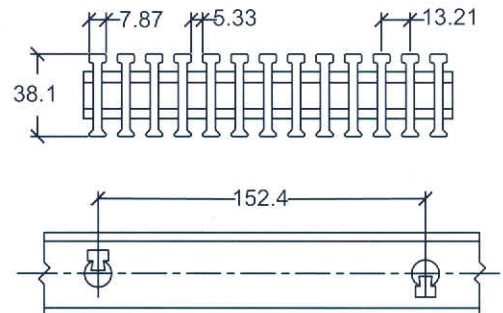
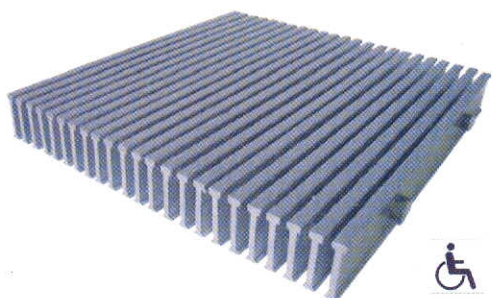
Engineering Properties per 305mm of Width  
 $A=18.7\text{cm}^2$      $I=13.3\text{cm}^4$      $S=10.5\text{cm}^3$

# of Bars	Load Bar Depth	Bar Centers	Opening
15	25.4 mm	19.81 mm	60%

## I Bar PI-1540-ADA

Full Size: 1524 x 6096

Approx. Weight: 26.00 kg/sm



Engineering Properties per 305mm of Width  
 $A=40.2\text{cm}^2$      $I=57.4\text{cm}^4$      $S=30.1\text{cm}^3$

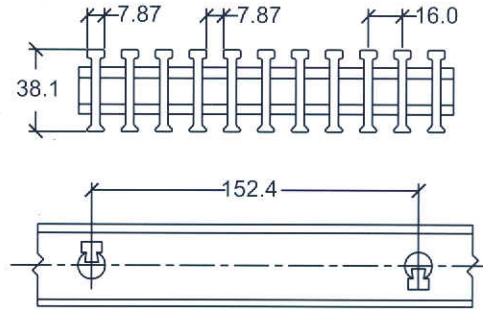
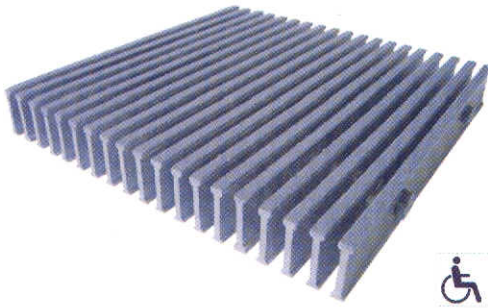
# of Bars	Load Bar Depth	Bar Centers	Opening
23	38.1 mm	13.21 mm	40%



**I Bar PI-1550-ADA**

**Full Size: 1524 x 6096**

Approx. Weight: 22.67 kg/sm

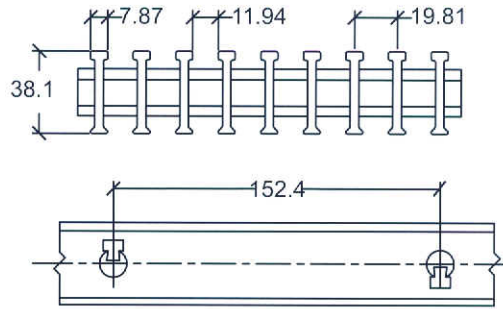
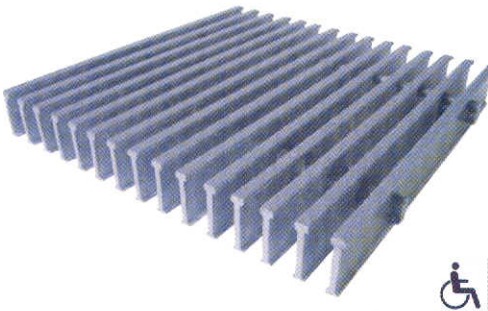


Engineering Properties per 305mm of Width			# of Bars	Load Bar Depth	Bar Centers	Opening
A=33.2cm <sup>2</sup>	I=47.4cm <sup>4</sup>	S=24.9cm <sup>3</sup>	19	38.1 mm	16.00 mm	50%

**I Bar PI-1560-ADA**

**Full Size: 1524 x 6096**

Approx. Weight: 18.28 kg/sm

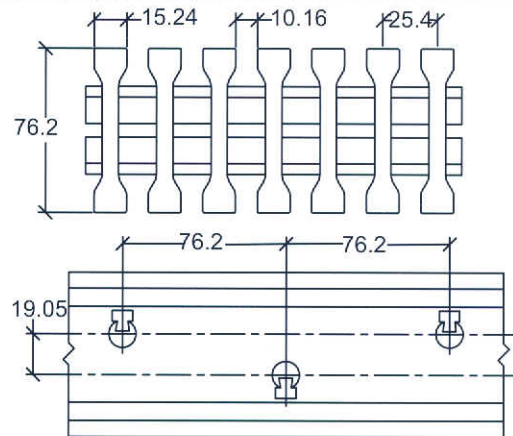
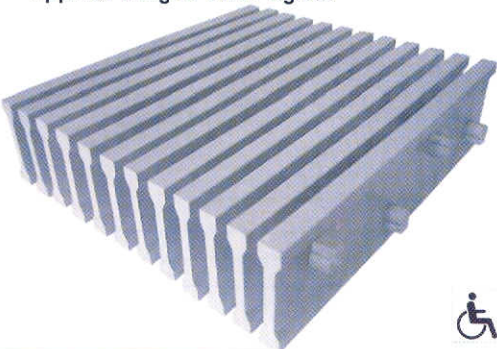


Engineering Properties per 305mm of Width			# of Bars	Load Bar Depth	Bar Centers	Opening
A=26.3cm <sup>2</sup>	I=37.5cm <sup>4</sup>	S=19.6cm <sup>3</sup>	15	38.1 mm	19.81 mm	60%

**Full Size: 1524 x 6096**

**I Bar PI-3040-ADA**

Approx. Weight: 60.01 kg/sm



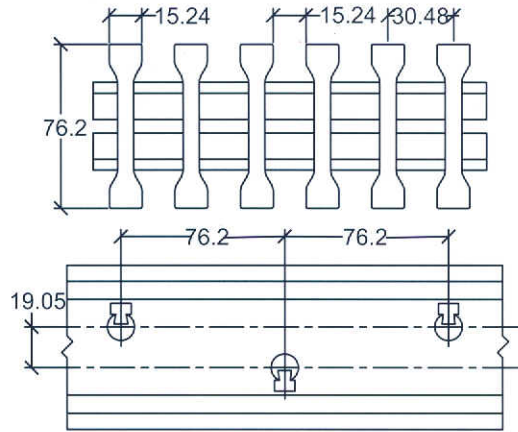
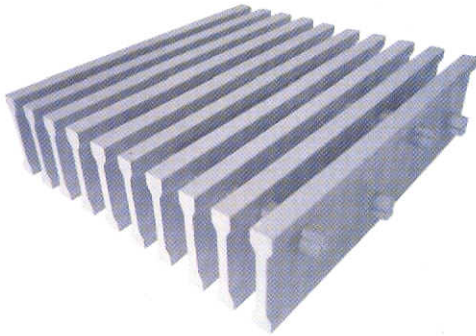
Engineering Properties per 305mm of Width			# of Bars	Load Bar Depth	Bar Centers	Opening
A=93.2cm <sup>2</sup>	I=572.7cm <sup>4</sup>	S=150.4cm <sup>3</sup>	12	76.2 mm	25.4 mm	40%



Full Size: 1524 x 6096

### I Bar PI-3050

Approx. Weight: 50.53 kg/sm

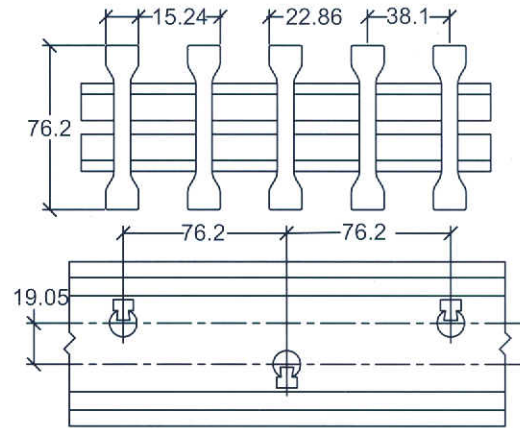
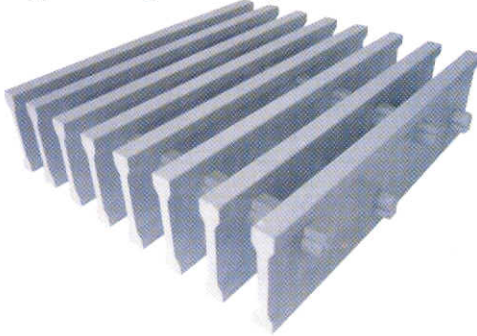


Engineering Properties per 305mm of Width	# of Bars	Load Bar Depth	Bar Centers	Opening
A=77.6cm <sup>2</sup> I=477.4cm <sup>4</sup> S=125.4cm <sup>3</sup>	10	76.2 mm	30.48 mm	50%

Full Size: 1524 x 6096

### I Bar PI-3060

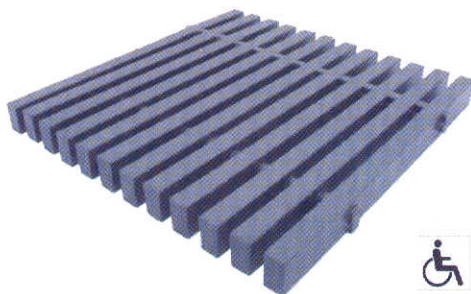
Approx. Weight: 41.05 kg/sm



Engineering Properties per 305mm of Width	# of Bars	Load Bar Depth	Bar Centers	Opening
A=62.1cm <sup>2</sup> I=382.1cm <sup>4</sup> S=100.3cm <sup>3</sup>	8	76.2 mm	38.1 mm	60%

### HD Bar HDPI-1040

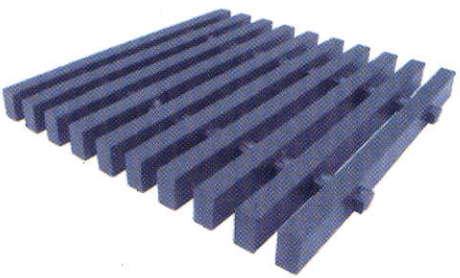
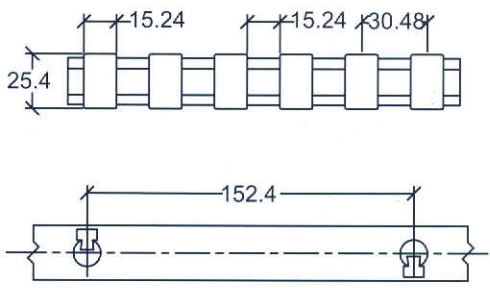
Approx. Weight: 28.54 kg/sm

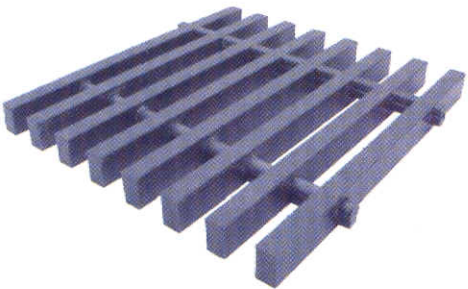
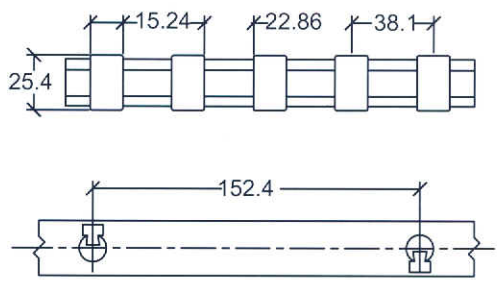


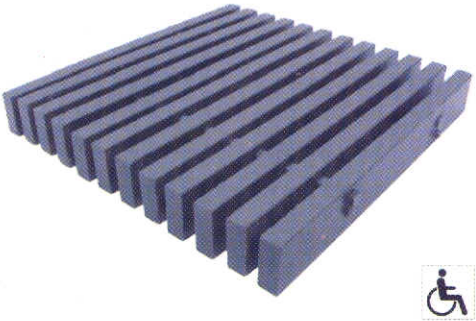
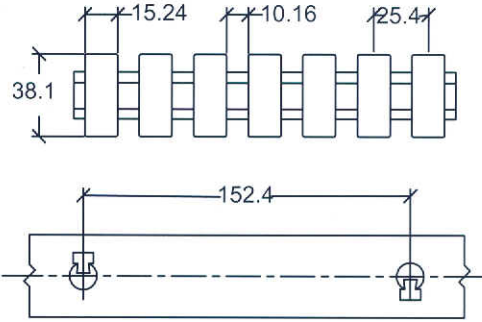
Engineering Properties per 305mm of Width	# of Bars	Load Bar Depth	Bar Centers	Opening
A=46.4cm <sup>2</sup> I=24.9cm <sup>4</sup> S=19.6cm <sup>3</sup>	12	25.4 mm	25.4 mm	40%

Full Size: 1524 x 6096



<b>HD Bar HDPI-1050</b>		<b>Full Size: 1524 x 6096</b>			
<p>Approx. Weight: 24.14 kg/sm</p> 					
<p><b>Engineering Properties per 305mm of Width</b></p> <p>A=38.7cm<sup>2</sup>    I=20.8cm<sup>4</sup>    S=16.4cm<sup>3</sup></p>	<b># of Bars</b>	<b>Load Bar Depth</b>	<b>Bar Centers</b>	<b>Opening</b>	
	10	25.4 mm	30.48 mm	50%	

<b>HD Bar HDPI-1060</b>		<b>Full Size: 1524 x 6096</b>			
<p>Approx. Weight: 19.79 kg/sm</p> 					
<p><b>Engineering Properties per 305mm of Width</b></p> <p>A=30.9cm<sup>2</sup>    I=16.6cm<sup>4</sup>    S=13.1cm<sup>3</sup></p>	<b># of Bars</b>	<b>Load Bar Depth</b>	<b>Bar Centers</b>	<b>Opening</b>	
	8	25.4 mm	38.1 mm	60%	

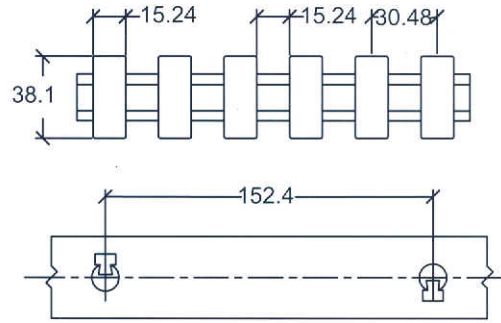
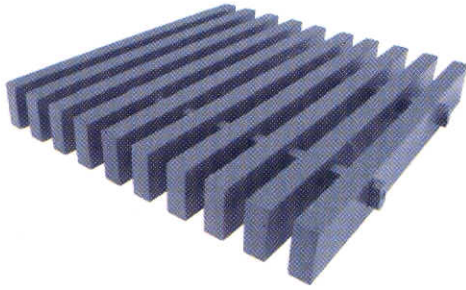
<b>HD Bar HDPI-1540</b>		<b>Full Size: 1524 x 6096</b>			
<p>Approx. Weight: 44.62 kg/sm</p> 					
<p><b>Engineering Properties per 305mm of Width</b></p> <p>A=69.7cm<sup>2</sup>    I=84.5cm<sup>4</sup>    S=44.4cm<sup>3</sup></p>	<b># of Bars</b>	<b>Load Bar Depth</b>	<b>Bar Centers</b>	<b>Opening</b>	
	12	38.1 mm	25.4 mm	40%	



## HD Bar HDPI-1550

Full Size: 1524 x 6096

Approx. Weight: 37.58 kg/sm

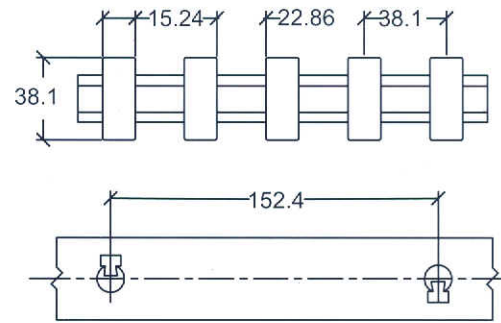
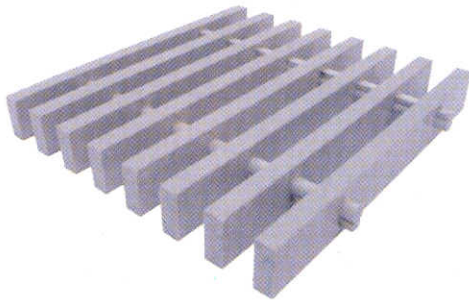


Engineering Properties per 305mm of Width			# of Bars	Load Bar Depth	Bar Centers	Opening
A=58.1cm <sup>2</sup>	I=66.6cm <sup>4</sup>	S=36.9cm <sup>3</sup>	10	38.1 mm	30.48 mm	50%

## HD Bar HDPI-1560

Full Size: 1524 x 6096

Approx. Weight: 30.53 kg/sm

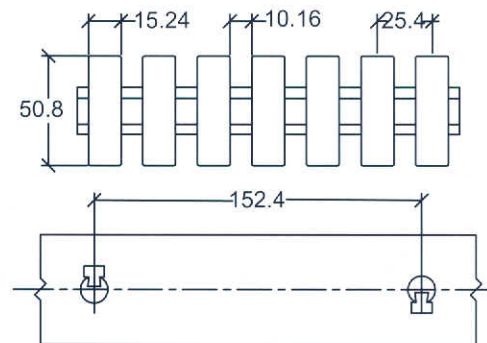
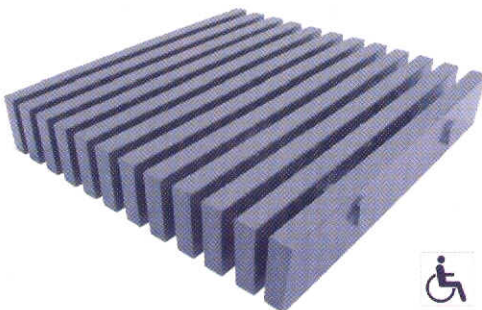


Engineering Properties per 305mm of Width			# of Bars	Load Bar Depth	Bar Centers	Opening
A=26.6cm <sup>2</sup>	I=34.5cm <sup>4</sup>	S=15.2cm <sup>3</sup>	8	38.1 mm	38.1 mm	60%

## HD Bar HDPI-2040

Full Size: 1524 x 6096

Approx. Weight: 57.69 kg/sm



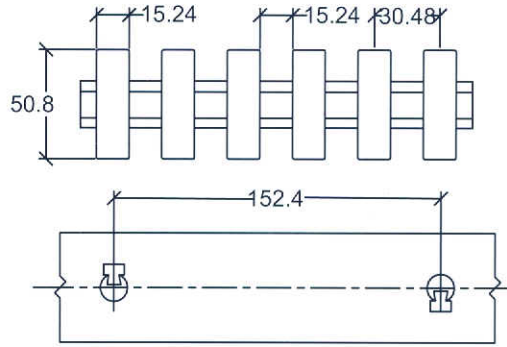
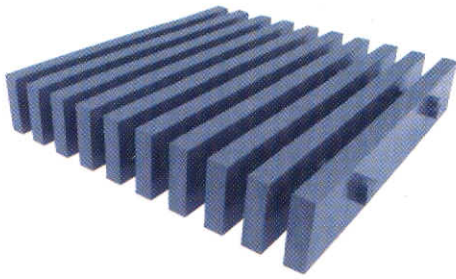
Engineering Properties per 305mm of Width			# of Bars	Load Bar Depth	Bar Centers	Opening
A=26.6cm <sup>2</sup>	I=34.5cm <sup>4</sup>	S=15.2cm <sup>3</sup>	12	50.8 mm	25.4 mm	40%



**HD Bar HDPI-2050**

**Full Size: 1524 x 6096**

Approx. Weight: 48.48 kg/sm



Engineering Properties per 305mm of Width

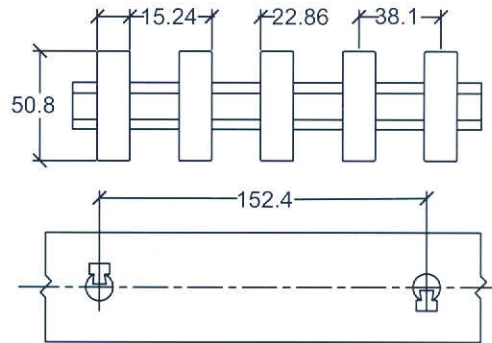
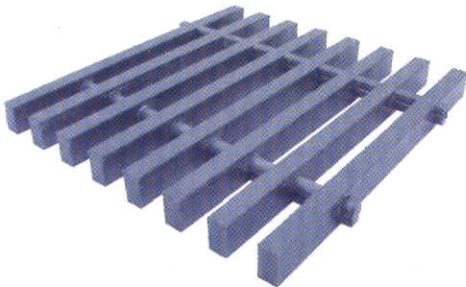
A=77.4cm<sup>2</sup>    I=166.5cm<sup>4</sup>    S=65.5cm<sup>3</sup>

# of Bars	Load Bar Depth	Bar Centers	Opening
10	50.8 mm	30.48 mm	50%

**HD Bar HDPI-2060**

**Full Size: 1524 x 6096**

Approx. Weight: 39.24 kg/sm



Engineering Properties per 305mm of Width

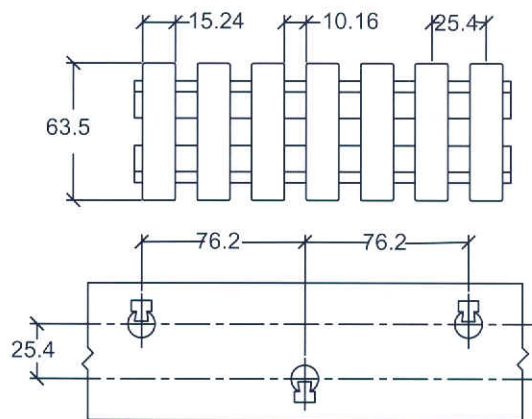
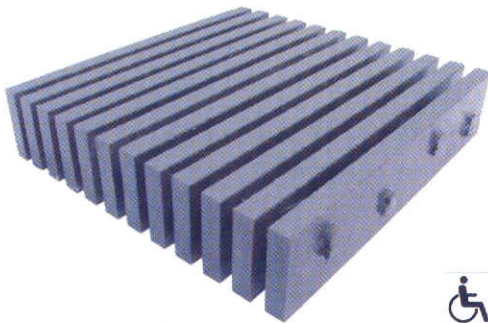
A=61.9cm<sup>2</sup>    I=133.2cm<sup>4</sup>    S=52.4cm<sup>3</sup>

# of Bars	Load Bar Depth	Bar Centers	Opening
8	50.8 mm	38.1 mm	60%

**Full Size: 1524 x 6096**

**HD Bar HDPI-2540**

Approx. Weight: 70.76 kg/sm



Engineering Properties per 305mm of Width

A=116.1cm<sup>2</sup>    I=390.4cm<sup>4</sup>    S=122.9cm<sup>3</sup>

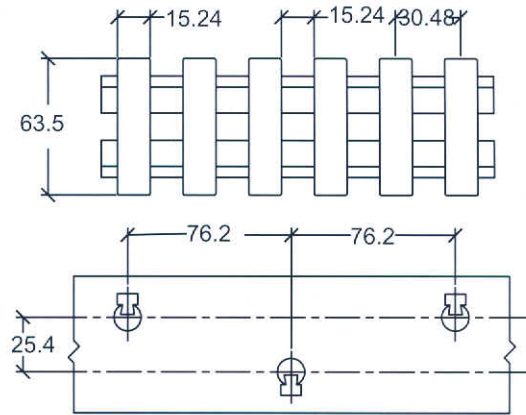
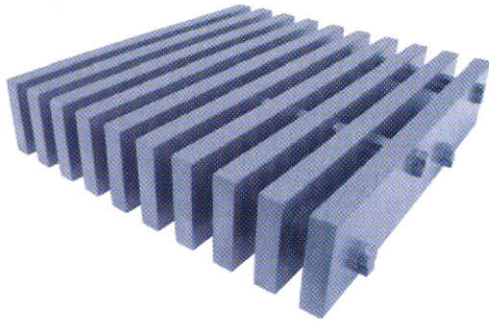
# of Bars	Load Bar Depth	Bar Centers	Opening
12	63.5 mm	25.4 mm	40%



Full Size: 1524x6096

### HD Bar HDPI-2550

Approx. Weight: 59.33 kg/sm



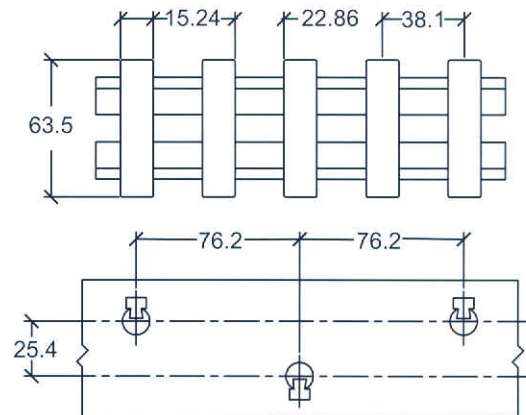
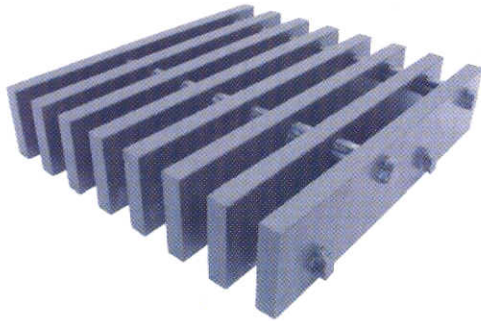
Engineering Properties per 305mm of Width  
 $A=96.7\text{cm}^2$      $I=325.1\text{cm}^4$      $S=102.4\text{cm}^3$

# of Bars	Load Bar Depth	Bar Centers	Opening
10	63.5 mm	30.48mm	50%

Full Size: 1524x6096

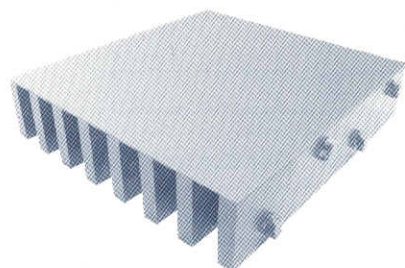
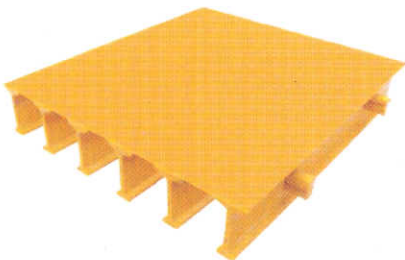
### HD Bar HDPI-2560

Approx. Weight: 47.94 kg/sm



Engineering Properties per 305mm of Width  
 $A=77.4\text{cm}^2$      $I=260.1\text{cm}^4$      $S=81.9\text{cm}^3$

# of Bars	Load Bar Depth	Bar Centers	Opening
8	63.5mm	38.1mm	60%



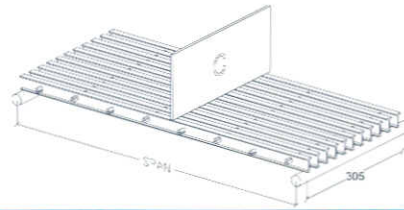
IGRID<sup>™</sup> pultruded grating can be easily covered with FRP solid plate to reach high load requirement without any additional support at pipe penetration or cut-out for equipment.

For this special covered grating, Suzhou Grating Co., Ltd. can also make it slip resistant and conductive for some special applications.

Please contact us for engineering properties and load table via email or telephone. We can also suggest what kind of grating and plate to be used to reach load requirement with consideration of cost-effectiveness and safety.



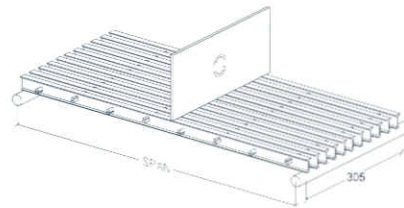
**Line Load Deflection Table:**



SPAN IN MM	STYLE	LOAD IN KG/M OF WIDTH								Max Rec. Load	Apparent EI x 10 <sup>4</sup> (KG-M <sup>2</sup> )
		100	200	300	500	750	1000	1500	2000		
300	PT-1018	0.06	0.12	0.19	0.31	0.46	0.62	0.93	1.23	7736	2.78
	PT-1033	0.08	0.17	0.25	0.42	0.63	0.84	1.27	1.69	5863	2.03
	PT-1035	0.08	0.16	0.24	0.40	0.60	0.80	1.21	1.61	5690	2.13
	PT-1050	0.11	0.22	0.33	0.56	0.83	1.11	1.67	2.23	4398	1.54
	PT-1517	0.03	0.06	0.10	0.16	0.24	0.32	0.48	0.64	15654	5.40
	PT-1533	0.04	0.07	0.11	0.18	0.27	0.36	0.54	0.71	12464	4.80
	PT-1550	0.04	0.08	0.13	0.21	0.32	0.42	0.64	0.85	7884	4.05
500	PT-1018	0.21	0.43	0.64	1.07	1.61	2.15	3.22	4.29	4642	3.70
	PT-1033	0.29	0.58	0.88	1.46	2.19	2.92	4.38	5.84	3518	2.72
	PT-1035	0.27	0.54	0.82	1.36	2.04	2.72	4.08	5.44	3414	2.92
	PT-1050	0.39	0.79	1.18	1.96	2.95	3.93	5.89	7.86	2639	2.02
	PT-1517	0.09	0.19	0.28	0.47	0.70	0.94	1.41	1.88	9392	8.45
	PT-1533	0.11	0.22	0.33	0.56	0.83	1.11	1.67	2.22	7478	7.15
	PT-1550	0.14	0.28	0.43	0.71	1.06	1.42	2.13	2.83	4731	5.60
700	PT-1018	0.55	1.10	1.65	2.76	4.14	5.51	8.27	11.03	3315	3.95
	PT-1033	0.74	1.48	2.21	3.69	5.54	7.38	11.07	14.77	2513	2.95
	PT-1035	0.66	1.32	1.99	3.31	4.97	6.62	9.93	13.24	2439	3.29
	PT-1050	0.98	1.95	2.93	4.88	7.33	9.77	14.65		1885	2.23
	PT-1517	0.22	0.44	0.65	1.09	1.63	2.18	3.26	4.35	6709	10.01
	PT-1533	0.27	0.55	0.82	1.37	2.05	2.74	4.10	5.47	5342	7.96
	PT-1550	0.36	0.72	1.08	1.80	2.70	3.60	5.40	7.20	3379	6.05
900	PT-1018	1.15	2.29	3.44	5.73	8.59	11.46			2579	4.04
	PT-1033	1.52	3.04	4.55	7.59	11.38				1954	3.05
	PT-1035	1.36	2.72	4.08	6.81	10.21	13.62			1897	3.40
	PT-1050	2.00	4.01	6.01	10.02					1466	2.31
	PT-1517	0.44	0.88	1.32	2.19	3.29	4.39	6.58	8.78	5218	10.55
	PT-1533	0.57	1.14	1.70	2.84	4.26	5.68	8.52	11.36	4155	8.15
	PT-1550	0.73	1.47	2.20	3.67	5.51	7.35	11.02	14.70	2628	6.30
1100	PT-1018	2.06	4.11	6.17	10.28					2110	4.11
	PT-1033	2.74	5.47	8.21	13.68					1599	3.09
	PT-1035	2.44	4.87	7.31	12.18					1552	3.47
	PT-1050	3.60	7.19	10.79						1199	2.35
	PT-1517	0.79	1.59	2.38	3.97	5.95	7.94	11.90		4269	10.65
	PT-1533	1.01	2.02	3.04	5.06	7.59	10.12			3399	8.35
	PT-1550	1.29	2.59	3.88	6.47	9.71	12.94			2150	6.53
1300	PT-1517	1.30	2.61	3.91	6.52	9.78	13.04			3612	10.70
	PT-1533	1.65	3.30	4.95	8.26	12.38				2876	8.45
	PT-1550	2.10	4.20	6.29	10.49					1819	6.65
1500	PT-1517	1.99	3.98	5.98	9.96	14.94				3131	10.76
	PT-1533	2.52	5.04	7.56	12.61					2493	8.50
	PT-1550	3.18	6.37	9.55						1577	6.73
1700	PT-1517	2.89	5.78	8.67	14.44					2762	10.80
	PT-1533	3.66	7.33	10.99						2199	8.515
	PT-1550	4.60	9.20	13.80						1391	6.78
1800	PT-1517	3.42	6.85	10.27						2609	10.82
	PT-1533	4.35	8.69	13.04						2077	8.52
	PT-1550	5.45	10.89							1314	6.8



**Line Load Deflection Table:**

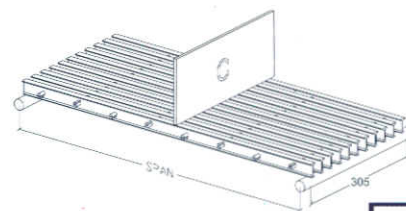


SPAN IN MM	STYLE	LOAD IN KG/M OF WIDTH								Max Rec. Load	Apparent EI x 10 <sup>^2</sup> (KG-M <sup>2</sup> )
		100	200	300	500	750	1000	1500	2000		
300	PT-2033	0.02	0.03	0.05	0.08	0.13	0.17	0.25	0.34	24540	10.1
	PT-2050	0.03	0.07	0.10	0.17	0.26	0.35	0.52	0.70	20130	4.9
	PT-1040	0.03	0.07	0.10	0.16	0.25	0.33	0.49	0.65	12149	5.2
	PI-1050	0.04	0.09	0.13	0.22	0.33	0.43	0.65	0.87	10875	4.0
	PI-1060	0.05	0.11	0.16	0.27	0.40	0.54	0.80	1.07	8741	3.2
	PI-1240	0.03	0.07	0.10	0.16	0.25	0.33	0.49	0.66	16653	5.20
	PI-1250	0.04	0.08	0.12	0.20	0.30	0.40	0.61	0.81	14582	4.25
	PI-1260	0.05	0.10	0.15	0.25	0.37	0.50	0.75	0.99	11556	3.45
	PI-1540	0.02	0.04	0.06	0.10	0.15	0.20	0.30	0.40	21238	8.5
	PI-1550	0.02	0.05	0.07	0.12	0.18	0.24	0.36	0.48	16731	7.1
	PI-1560	0.03	0.07	0.10	0.16	0.25	0.33	0.49	0.66	13556	5.2
	PI-3040	0.00	0.01	0.01	0.02	0.04	0.05	0.07	0.10	90164	35.8
	PI-3050	0.01	0.01	0.02	0.03	0.05	0.07	0.10	0.14	70703	25.0
	PI-3060	0.01	0.02	0.03	0.05	0.07	0.09	0.14	0.18	52416	19.0
500	PT-2033	0.04	0.08	0.12	0.20	0.31	0.41	0.61	0.82	14724	19.5
	PT-2050	0.06	0.11	0.17	0.28	0.42	0.56	0.85	1.13	12078	14.1
	PI-1040	0.13	0.25	0.38	0.63	0.94	1.25	1.88	2.50	7289	6.3
	PI-1050	0.16	0.31	0.47	0.79	1.18	1.57	2.36	3.14	6525	5.1
	PI-1060	0.19	0.38	0.57	0.94	1.42	1.89	2.83	3.78	5245	4.2
	PI-1240	0.10	0.21	0.31	0.52	0.78	1.04	1.56	2.08	9992	7.65
	PI-1250	0.13	0.25	0.38	0.64	0.95	1.27	1.91	2.54	8749	6.25
	PI-1260	0.15	0.31	0.46	0.77	1.15	1.54	2.31	3.08	6933	5.16
	PI-1540	0.05	0.10	0.16	0.26	0.39	0.52	0.78	1.03	12743	15.4
	PI-1550	0.06	0.13	0.19	0.32	0.48	0.63	0.95	1.27	10039	12.5
	PI-1560	0.08	0.16	0.23	0.39	0.58	0.78	1.17	1.56	8134	10.2
	PI-3040	0.01	0.02	0.04	0.06	0.09	0.12	0.19	0.25	54099	64.0
	PI-3050	0.02	0.03	0.05	0.08	0.12	0.16	0.24	0.32	42422	49.0
	PI-3060	0.02	0.04	0.06	0.10	0.16	0.21	0.31	0.42	31449	38.0
700	PT-2033	0.08	0.17	0.25	0.42	0.63	0.84	1.27	1.69	10517	25.8
	PT-2050	0.11	0.21	0.32	0.53	0.80	1.07	1.60	2.14	8627	20.4
	PI-1040	0.32	0.64	0.95	1.59	2.38	3.18	4.76	6.35	5207	6.9
	PI-1050	0.38	0.77	1.15	1.92	2.88	3.83	5.75	7.67	4661	5.7
	PI-1060	0.47	0.93	1.40	2.33	3.49	4.65	6.98	9.31	3746	4.7
	PI-1240	0.24	0.48	0.72	1.20	1.80	2.40	3.60	4.80	7137	9.08
	PI-1250	0.28	0.57	0.85	1.41	2.12	2.83	4.24	5.66	6250	7.70
	PI-1260	0.34	0.69	1.03	1.72	2.58	3.45	5.17	6.89	4952	6.32
	PI-1540	0.12	0.24	0.36	0.60	0.89	1.19	1.79	2.38	9102	18.3
	PI-1550	0.15	0.29	0.44	0.73	1.09	1.45	2.18	2.91	7171	15.0
	PI-1560	0.18	0.36	0.54	0.90	1.34	1.79	2.69	3.59	5810	12.2
	PI-3040	0.02	0.05	0.07	0.12	0.18	0.24	0.37	0.49	38642	89.0
	PI-3050	0.03	0.06	0.09	0.15	0.23	0.30	0.45	0.61	30301	72.0
	PI-3060	0.04	0.08	0.12	0.19	0.29	0.39	0.58	0.78	22464	56.0
900	PT-2033	0.16	0.31	0.47	0.79	1.18	1.57	2.36	3.15	8180	29.4
	PT-2050	0.20	0.40	0.60	1.00	1.50	2.00	2.99	3.99	6710	23.2
	PI-1040	0.65	1.31	1.96	3.27	4.91	6.55	9.82	13.10	4050	7.1
	PI-1050	0.79	1.58	2.37	3.94	5.91	7.89	11.83		3625	5.9
	PI-1060	0.95	1.91	2.86	4.76	7.14	9.53	14.29		2914	4.9
	PI-1240	0.45	0.89	1.34	2.23	3.34	4.45	6.68	8.90	5551	10.40
	PI-1250	0.54	1.09	1.63	2.72	4.08	5.45	8.17	10.89	4861	8.50
	PI-1260	0.68	1.35	2.03	3.38	5.07	6.76	10.14	13.52	3852	6.85
	PI-1540	0.24	0.48	0.71	1.19	1.79	2.38	3.57	4.76	7079	19.5
	PI-1550	0.29	0.58	0.87	1.46	2.18	2.91	4.37	5.82	5577	15.9
	PI-1560	0.36	0.72	1.08	1.80	2.70	3.60	5.40	7.20	4519	12.9
	PI-3040	0.04	0.08	0.13	0.21	0.32	0.42	0.63	0.84	30055	110.0
	PI-3050	0.05	0.10	0.15	0.25	0.37	0.50	0.74	0.99	23568	93.5
	PI-3060	0.06	0.13	0.19	0.32	0.48	0.63	0.95	1.27	17472	73.0

1000	PT-2033	0.21	0.42	0.62	1.04	1.56	2.08	3.12	4.16	7362	30.5
	PT-2050	0.27	0.53	0.80	1.33	1.99	2.66	3.99	5.31	6039	23.9
	PI-1040	0.89	1.78	2.68	4.46	6.69	8.92	13.38		3645	7.1
	PI-1050	1.07	2.15	3.22	5.36	8.04	10.73			3262	5.9
	PI-1060	1.30	2.59	3.89	6.48	9.72	12.96			2622	4.9
	PI-1240	0.60	1.21	1.81	3.02	4.54	6.05	9.07	12.10	4996	10.50
	PI-1250	0.74	1.48	2.22	3.69	5.54	7.38	11.08	14.77	4375	8.60
	PI-1260	0.91	1.82	2.73	4.56	6.83	9.11	13.67		3467	6.97
	PI-1540	0.32	0.64	0.97	1.61	2.42	3.22	4.84	6.45	6371	19.7
	PI-1550	0.39	0.78	1.18	1.96	2.94	3.92	5.88	7.84	5019	16.2
	PI-1560	0.49	0.97	1.46	2.43	3.65	4.87	7.30	9.73	4067	13.1
	PI-3040	0.05	0.11	0.16	0.27	0.40	0.54	0.81	1.08	27049	118.0
PI-3050	0.06	0.12	0.18	0.31	0.46	0.62	0.92	1.23	21211	103.0	
PI-3060	0.08	0.16	0.24	0.39	0.59	0.78	1.18	1.57	15725	81.0	
1200	PT-2033	0.34	0.68	1.02	1.70	2.55	3.40	5.10	6.80	6135	32.3
	PT-2050	0.44	0.88	1.32	2.19	3.29	4.39	6.58	8.78	5033	25.0
	PI-1040	1.53	3.07	4.60	7.66	11.49				3037	7.2
	PI-1050	1.83	3.66	5.49	9.14	13.72				2719	6.0
	PI-1060	2.21	4.42	6.62	11.04					2185	5.0
	PI-1240	1.03	2.05	3.08	5.14	7.71	10.27			4163	10.68
	PI-1250	1.27	2.53	3.80	6.34	9.50	12.67			3646	8.66
	PI-1260	1.55	3.11	4.66	7.77	11.66				2889	7.06
	PI-1540	0.55	1.10	1.65	2.76	4.14	5.51	8.27	11.03	5310	19.9
	PI-1550	0.67	1.34	2.01	3.36	5.03	6.71	10.07	13.42	4183	16.4
	PI-1560	0.83	1.66	2.49	4.16	6.23	8.31	12.47		3389	13.2
	PI-3040	0.08	0.17	0.25	0.42	0.62	0.83	1.25	1.66	22541	132.0
PI-3050	0.09	0.19	0.28	0.47	0.70	0.94	1.41	1.88	17676	117.0	
PI-3060	0.12	0.23	0.35	0.58	0.87	1.16	1.73	2.31	13104	95.0	
1400	PT-2033	0.53	1.05	1.58	2.64	3.95	5.27	7.91	10.54	5259	33.1
	PT-2050	0.69	1.37	2.06	3.43	5.15	6.86	10.29	13.72	4314	25.4
	PI-1040	2.42	4.84	7.26	12.10					2603	7.2
	PI-1050	2.88	5.77	8.65	14.42					2330	6.0
	PI-1060	3.45	6.90	10.35						1873	5.1
	PI-1240	1.62	3.24	4.86	8.10	12.15				3568	10.76
	PI-1250	2.00	4.01	6.01	10.01					3125	8.70
	PI-1260	2.44	4.89	7.33	12.22					2476	7.13
	PI-1540	0.87	1.74	2.61	4.35	6.52	8.69	13.04		4551	20.1
	PI-1550	1.06	2.12	3.18	5.30	7.95	10.60			3585	16.4
	PI-1560	1.31	2.62	3.94	6.56	9.84	13.12			2905	13.3
	PI-3040	0.12	0.24	0.37	0.61	0.91	1.22	1.83	2.44	19321	143.0
PI-3050	0.14	0.27	0.41	0.69	1.03	1.37	2.06	2.74	15151	127.0	
PI-3060	0.17	0.34	0.51	0.85	1.27	1.69	2.54	3.38	11232	103.0	
1600	PT-2033	0.78	1.56	2.33	3.89	5.83	7.78	11.66		4601	33.5
	PT-2050	1.01	2.03	3.04	5.07	7.61	10.14			3774	25.7
	PI-1540	1.29	2.59	3.88	6.47	9.71	12.94			3982	20.1
	PI-1550	1.58	3.15	4.73	7.89	11.83				3137	16.5
	PI-1560	1.95	3.91	5.86	9.76	14.65				2542	13.3
	PI-3040	0.17	0.35	0.52	0.87	1.30	1.73	2.60	3.47	16906	150.0
	PI-3050	0.20	0.39	0.59	0.98	1.47	1.96	2.93	3.91	13257	133.0
	PI-3060	0.24	0.48	0.72	1.20	1.81	2.41	3.61	4.82	9828	108.0
1800	PT-2033	1.10	2.20	3.30	5.49	8.24	10.99			4090	33.7
	PT-2050	1.44	2.88	4.31	7.19	10.79	14.38			3355	25.8
	PI-1540	1.84	3.68	5.52	9.19	13.79				3540	20.1
	PI-1550	2.24	4.48	6.73	11.21					2789	16.5
	PI-1560	2.77	5.54	8.32	13.86					2259	13.4
	PI-3040	0.24	0.48	0.72	1.20	1.80	2.40	3.61	4.81	15027	154.0
	PI-3050	0.27	0.54	0.81	1.35	2.03	2.70	4.05	5.41	11784	137.0
	PI-3060	0.33	0.66	0.99	1.65	2.48	3.31	4.96	6.61	8736	112.0
2000	PI-3040	0.32	0.65	0.97	1.62	2.43	3.24	4.85	6.47	13525	157.0
	PI-3050	0.36	0.73	1.09	1.81	2.72	3.63	5.44	7.26	10605	140.0
	PI-3060	0.45	0.89	1.34	2.23	3.34	4.46	6.68	8.91	7862	114.0
2200	PI-3040	0.43	0.85	1.28	2.13	3.19	4.25	6.38	8.51	12295	159.0
	PI-3050	0.47	0.95	1.42	2.37	3.56	4.74	7.12	9.49	9641	142.5
	PI-3060	0.58	1.17	1.75	2.91	4.37	5.83	8.74	11.66	7148	116.0
2400	PI-3040	0.55	1.09	1.64	2.73	4.09	5.45	8.18	10.90	11271	161.0
	PI-3050	0.61	1.22	1.84	3.06	4.59	6.12	9.18	12.23	8838	143.5
	PI-3060	0.74	1.49	2.23	3.72	5.58	7.44	11.16	14.88	6552	118.0
2500	PI-3040	0.61	1.22	1.84	3.06	4.59	6.12	9.19	12.25	10820	162.0
	PI-3050	0.69	1.38	2.07	3.45	5.17	6.89	10.34	13.78	8484	144.0
	PI-3060	0.83	1.67	2.50	4.17	6.25	8.34	12.51		6290	119.0



**Line Load Deflection Table:**



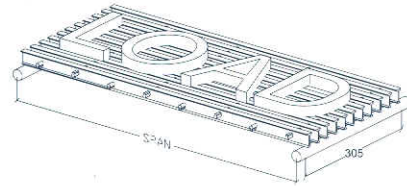
SPAN IN MM	STYLE	LOAD IN KG/M <sup>2</sup> OF WIDTH								Max Rec. Load	Apparent EI x 10 <sup>3</sup> (KG-M <sup>2</sup> )
		100	200	300	500	750	1000	1500	2000		
300	HDPI-1040	0.01	0.02	0.03	0.05	0.08	0.11	0.16	0.21	72795	0.30
	HDPI-1050	0.01	0.03	0.04	0.06	0.10	0.13	0.19	0.26	60165	0.25
	HDPI-1060	0.02	0.03	0.05	0.08	0.12	0.16	0.24	0.32	48737	0.20
	HDPI-1540	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.04	240054	1.52
	HDPI-1550	0.00	0.01	0.01	0.02	0.03	0.04	0.05	0.07	189277	0.90
	HDPI-1560	0.00	0.01	0.01	0.02	0.04	0.05	0.07	0.10	151427	0.66
	HDPI-2040	0.00	0.00	0.01	0.01	0.01	0.02	0.03	0.04	525475	1.81
	HDPI-2050	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.04	425431	1.50
	HDPI-2060	0.00	0.00	0.01	0.01	0.02	0.02	0.04	0.05	330464	1.30
	HDPI-2540	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.03	887344	2.45
	HDPI-2550	0.00	0.00	0.01	0.01	0.01	0.02	0.03	0.04	701799	1.76
	HDPI-2560	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.04	594034	1.50
500	HDPI-1040	0.04	0.08	0.12	0.21	0.31	0.41	0.62	0.83	26206	0.60
	HDPI-1050	0.05	0.09	0.14	0.23	0.34	0.46	0.68	0.91	21660	0.55
	HDPI-1060	0.05	0.11	0.16	0.27	0.41	0.55	0.82	1.09	17545	0.46
	HDPI-1540	0.01	0.02	0.03	0.04	0.07	0.09	0.13	0.18	86420	2.79
	HDPI-1550	0.01	0.02	0.03	0.06	0.08	0.11	0.17	0.23	68140	2.20
	HDPI-1560	0.01	0.03	0.04	0.07	0.11	0.14	0.21	0.28	54514	1.77
	HDPI-2040	0.01	0.01	0.02	0.03	0.04	0.06	0.09	0.12	189171	4.20
	HDPI-2050	0.01	0.02	0.02	0.04	0.06	0.08	0.12	0.17	153155	3.00
	HDPI-2060	0.01	0.02	0.03	0.04	0.07	0.09	0.13	0.18	118967	2.78
	HDPI-2540	0.01	0.01	0.02	0.03	0.04	0.05	0.08	0.10	319444	4.95
	HDPI-2550	0.01	0.01	0.02	0.03	0.05	0.06	0.09	0.12	252648	4.04
	HDPI-2560	0.01	0.01	0.02	0.04	0.06	0.07	0.11	0.15	213852	3.32
700	HDPI-1040	0.12	0.24	0.37	0.61	0.92	1.22	1.83	2.44	13371	0.78
	HDPI-1050	0.14	0.28	0.42	0.70	1.05	1.40	2.10	2.80	11051	0.68
	HDPI-1060	0.17	0.33	0.50	0.84	1.25	1.67	2.51	3.34	8952	0.57
	HDPI-1540	0.03	0.06	0.09	0.15	0.22	0.30	0.44	0.59	44092	3.22
	HDPI-1550	0.04	0.07	0.11	0.18	0.27	0.36	0.54	0.72	34765	2.63
	HDPI-1560	0.05	0.09	0.14	0.23	0.34	0.45	0.68	0.91	27813	2.10
	HDPI-2040	0.02	0.04	0.05	0.09	0.13	0.18	0.26	0.35	96516	5.40
	HDPI-2050	0.02	0.04	0.06	0.11	0.16	0.22	0.32	0.43	78140	4.40
	HDPI-2060	0.02	0.05	0.07	0.12	0.18	0.24	0.36	0.48	60697	4.00
	HDPI-2540	0.01	0.03	0.04	0.07	0.10	0.13	0.20	0.26	162982	7.20
	HDPI-2550	0.01	0.03	0.04	0.07	0.11	0.15	0.22	0.30	128902	6.45
	HDPI-2560	0.02	0.04	0.06	0.09	0.14	0.18	0.28	0.37	109108	5.16
900	HDPI-1040	0.30	0.60	0.90	1.51	2.26	3.01	4.52	6.02	8088	0.87
	HDPI-1050	0.35	0.70	1.05	1.75	2.62	3.50	5.24	6.99	6685	0.75
	HDPI-1060	0.42	0.85	1.27	2.12	3.18	4.23	6.35	8.47	5415	0.62
	HDPI-1540	0.08	0.15	0.23	0.39	0.58	0.77	1.16	1.55	26673	3.37
	HDPI-1550	0.09	0.19	0.28	0.47	0.70	0.94	1.40	1.87	21031	2.78
	HDPI-1560	0.12	0.24	0.36	0.59	0.89	1.18	1.78	2.37	16825	2.20
	HDPI-2040	0.04	0.08	0.12	0.21	0.31	0.41	0.62	0.83	58386	6.30
	HDPI-2050	0.05	0.10	0.14	0.24	0.36	0.48	0.72	0.96	47270	5.45
	HDPI-2060	0.05	0.11	0.16	0.27	0.41	0.55	0.82	1.10	36718	4.75
	HDPI-2540	0.03	0.06	0.08	0.14	0.21	0.28	0.42	0.56	98594	9.36
	HDPI-2550	0.03	0.06	0.09	0.16	0.23	0.31	0.47	0.62	77978	8.38
	HDPI-2560	0.04	0.08	0.12	0.20	0.29	0.39	0.59	0.78	66004	6.65



1100	HDPI-1040	0.63	1.26	1.89	3.16	4.74	6.32	9.47	12.63	5415	0.92
	HDPI-1050	0.76	1.52	2.28	3.80	5.70	7.60	11.39		4475	0.77
	HDPI-1060	0.92	1.84	2.77	4.61	6.92	9.22	13.83		3625	0.63
	HDPI-1540	0.17	0.34	0.50	0.84	1.26	1.68	2.52	3.36	17855	3.46
	HDPI-1550	0.20	0.41	0.61	1.02	1.52	2.03	3.05	4.06	14078	2.86
	HDPI-1560	0.26	0.51	0.77	1.28	1.92	2.56	3.84	5.12	11263	2.27
	HDPI-2040	0.09	0.17	0.26	0.43	0.64	0.85	1.28	1.71	39085	6.80
	HDPI-2050	0.10	0.20	0.30	0.49	0.74	0.98	1.48	1.97	31644	5.90
	HDPI-2060	0.11	0.23	0.34	0.57	0.85	1.14	1.71	2.28	24580	5.10
	HDPI-2540	0.05	0.11	0.16	0.27	0.41	0.54	0.81	1.08	66001	10.72
	HDPI-2550	0.06	0.12	0.19	0.31	0.47	0.62	0.94	1.25	52200	9.32
HDPI-2560	0.08	0.15	0.23	0.38	0.57	0.77	1.15	1.53	44184	7.58	
1300	HDPI-1040	1.21	2.42	3.64	6.06	9.09	12.12			3877	0.94
	HDPI-1050	1.46	2.93	4.39	7.31	10.97	14.63			3204	0.78
	HDPI-1060	1.77	3.54	5.31	8.86	13.28				2595	0.64
	HDPI-1540	0.32	0.64	0.95	1.59	2.38	3.18	4.76	6.35	12784	3.57
	HDPI-1550	0.38	0.77	1.15	1.92	2.88	3.84	5.76	7.68	10080	2.95
	HDPI-1560	0.48	0.97	1.45	2.42	3.63	4.84	7.27	9.69	8064	2.34
	HDPI-2040	0.16	0.32	0.48	0.80	1.20	1.60	2.39	3.19	27984	7.10
	HDPI-2050	0.19	0.37	0.56	0.93	1.39	1.86	2.79	3.72	22656	6.10
	HDPI-2060	0.22	0.44	0.66	1.09	1.64	2.19	3.28	4.38	17599	5.18
	HDPI-2540	0.10	0.19	0.29	0.49	0.73	0.97	1.46	1.95	47255	11.64
	HDPI-2550	0.11	0.23	0.34	0.57	0.86	1.14	1.72	2.29	37374	9.90
HDPI-2560	0.14	0.29	0.43	0.72	1.08	1.43	2.15	2.87	31635	7.90	
1500	HDPI-1040	2.13	4.25	6.38	10.63					2912	0.95
	HDPI-1050	2.56	5.12	7.68	12.80					2407	0.79
	HDPI-1060	3.10	6.20	9.30						1949	0.65
	HDPI-1540	0.56	1.11	1.67	2.78	4.16	5.55	8.33	11.10	9602	3.62
	HDPI-1550	0.67	1.34	2.01	3.35	5.02	6.70	10.05	13.39	7571	3.00
	HDPI-1560	0.84	1.69	2.53	4.22	6.33	8.44	12.66	16.88	6057	2.38
	HDPI-2040	0.28	0.55	0.83	1.39	2.08	2.77	4.16	5.54	21019	7.25
	HDPI-2050	0.32	0.65	0.97	1.62	2.43	3.24	4.86	6.48	17017	6.20
	HDPI-2060	0.38	0.77	1.15	1.92	2.88	3.85	5.77	7.69	13219	5.23
	HDPI-2540	0.17	0.33	0.50	0.83	1.25	1.66	2.49	3.33	35494	12.08
	HDPI-2550	0.20	0.39	0.59	0.98	1.46	1.95	2.93	3.90	28072	10.30
HDPI-2560	0.25	0.50	0.75	1.25	1.87	2.50	3.74	4.99	23761	8.05	
1700	HDPI-1540	0.90	1.81	2.71	4.52	6.77	9.03	13.55		7476	3.67
	HDPI-1550	1.08	2.15	3.23	5.38	8.07	10.76			5894	3.08
	HDPI-1560	1.38	2.76	4.14	6.91	10.36	13.81			4716	2.40
	HDPI-2040	0.45	0.90	1.35	2.25	3.38	4.51	6.76	9.02	16364	7.35
	HDPI-2050	0.53	1.05	1.58	2.63	3.95	5.26	7.89	10.52	13249	6.30
	HDPI-2060	0.63	1.26	1.89	3.14	4.72	6.29	9.43	12.58	10291	5.27
	HDPI-2540	0.27	0.54	0.80	1.34	2.01	2.68	4.02	5.35	27634	12.38
	HDPI-2550	0.32	0.63	0.95	1.59	2.38	3.17	4.76	6.34	21855	10.45
HDPI-2560	0.41	0.81	1.22	2.03	3.05	4.07	6.10	8.13	18499	8.15	
1900	HDPI-2040	0.69	1.39	2.08	3.47	5.21	6.94	10.41	13.88	13100	7.45
	HDPI-2050	0.82	1.63	2.45	4.08	6.12	8.16	12.24		10606	6.34
	HDPI-2060	0.97	1.94	2.91	4.85	7.28	9.70	14.56		8239	5.33
	HDPI-2540	0.41	0.83	1.24	2.07	3.10	4.13	6.20	8.27	22122	12.51
	HDPI-2550	0.49	0.98	1.47	2.46	3.69	4.92	7.37	9.83	17496	10.52
	HDPI-2560	0.63	1.26	1.89	3.14	4.71	6.28	9.43	12.57	14810	8.23
2100	HDPI-2040	1.03	2.06	3.09	5.15	7.72	10.29			10724	7.50
	HDPI-2050	1.21	2.43	3.64	6.07	9.10	12.14			8682	6.36
	HDPI-2060	1.44	2.87	4.31	7.19	10.78	14.37			6744	5.37
	HDPI-2540	0.61	1.23	1.84	3.07	4.60	6.14	9.20	12.27	18109	12.58
	HDPI-2550	0.73	1.46	2.18	3.64	5.46	7.28	10.92	14.56	14322	10.60
	HDPI-2560	0.93	1.86	2.79	4.65	6.97	9.30	13.95		12123	8.30
2300	HDPI-2540	0.88	1.76	2.64	4.40	6.60	8.80	13.20		15097	12.62
	HDPI-2550	1.04	2.09	3.13	5.21	7.82	10.43			11940	10.65
	HDPI-2560	1.33	2.65	3.98	6.63	9.95	13.27			10106	8.37
2500	HDPI-2540	1.23	2.45	3.68	6.13	9.19	12.26			12778	12.65
	HDPI-2550	1.45	2.89	4.34	7.23	10.85	14.46			10106	10.72
	HDPI-2560	1.84	3.69	5.53	9.22	13.83				8554	8.41



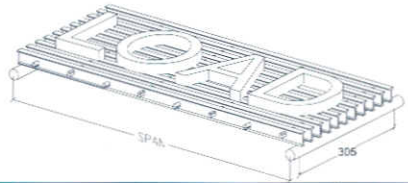
**Uniform Load Deflection Table:**



SPAN IN MM	STYLE	LOAD IN KG/M <sup>2</sup> OF WIDTH								Max Rec. Load	Apparent EI x 10 <sup>^2</sup> (KG-M <sup>2</sup> )
		100	200	300	500	750	1000	1500	2000		
300	PT-1018	0.01	0.02	0.03	0.06	0.09	0.12	0.17	0.23	33008	2.78
	PT-1033	0.02	0.03	0.05	0.08	0.12	0.16	0.24	0.32	25014	2.03
	PT-1035	0.02	0.03	0.05	0.08	0.11	0.15	0.23	0.30	24278	2.13
	PT-1050	0.02	0.04	0.06	0.10	0.16	0.21	0.31	0.42	18764	1.54
	PT-1517	0.01	0.01	0.02	0.03	0.04	0.06	0.09	0.12	66790	5.40
	PT-1533	0.01	0.01	0.02	0.03	0.05	0.07	0.10	0.13	53179	4.80
	PT-1550	0.01	0.02	0.02	0.04	0.06	0.08	0.12	0.16	33640	4.05
500	PT-1018	0.07	0.13	0.20	0.34	0.50	0.67	1.01	1.34	11883	3.70
	PT-1033	0.09	0.18	0.27	0.46	0.68	0.91	1.37	1.82	9005	2.72
	PT-1035	0.08	0.17	0.25	0.42	0.64	0.85	1.27	1.70	8740	2.92
	PT-1050	0.12	0.25	0.37	0.61	0.92	1.23	1.84	2.46	6755	2.02
	PT-1517	0.03	0.06	0.09	0.15	0.22	0.29	0.44	0.59	24044	8.45
	PT-1533	0.03	0.07	0.10	0.17	0.26	0.35	0.52	0.69	19144	7.15
	PT-1550	0.04	0.09	0.13	0.22	0.33	0.44	0.66	0.89	12111	5.60
700	PT-1018	0.24	0.48	0.72	1.21	1.81	2.41	3.62	4.82	6063	3.95
	PT-1033	0.32	0.65	0.97	1.62	2.42	3.23	4.85	6.46	4594	2.95
	PT-1035	0.29	0.58	0.87	1.45	2.17	2.90	4.34	5.79	4459	3.29
	PT-1050	0.43	0.85	1.28	2.14	3.20	4.27	6.41	8.55	3446	2.23
	PT-1517	0.10	0.19	0.29	0.48	0.71	0.95	1.43	1.90	12268	10.01
	PT-1533	0.12	0.24	0.36	0.60	0.90	1.20	1.80	2.39	9768	7.96
	PT-1550	0.16	0.32	0.47	0.79	1.18	1.58	2.36	3.15	6179	6.05
900	PT-1018	0.64	1.29	1.93	3.22	4.83	6.45	9.67	12.89	3668	4.04
	PT-1033	0.85	1.71	2.56	4.27	6.40	8.54	12.81	2779	3.05	
	PT-1035	0.77	1.53	2.30	3.83	5.74	7.66	11.49	2698	3.40	
	PT-1050	1.13	2.25	3.38	5.64	8.45	11.27	2085	2.31		
	PT-1517	0.25	0.49	0.74	1.23	1.85	2.47	3.70	4.94	7421	10.55
	PT-1533	0.32	0.64	0.96	1.60	2.40	3.19	4.79	6.39	5909	8.15
	PT-1550	0.41	0.83	1.24	2.07	3.10	4.13	6.20	8.27	3738	6.30
1100	PT-1018	1.41	2.83	4.24	7.07	10.60	14.14	2455	4.11		
	PT-1033	1.88	3.76	5.64	9.40	14.10	1861	3.09			
	PT-1035	1.67	3.35	5.02	8.37	12.56	1806	3.47			
	PT-1050	2.47	4.95	7.42	12.36	1396	2.35				
	PT-1517	0.55	1.09	1.64	2.73	4.09	5.46	8.18	10.91	4968	10.65
	PT-1533	0.70	1.39	2.09	3.48	5.22	6.96	10.44	13.92	3955	8.35
	PT-1550	0.89	1.78	2.67	4.45	6.67	8.90	13.35	2502	6.53	
1300	PT-1517	1.06	2.12	3.18	5.30	7.95	10.59	3557	10.70		
	PT-1533	1.34	2.68	4.02	6.71	10.06	13.41	2832	8.45		
	PT-1550	1.70	3.41	5.11	8.52	12.78	1792	6.65			
1500	PT-1517	1.87	3.73	5.60	9.34	14.00	2672	10.76			
	PT-1533	2.36	4.73	7.09	11.82	2127	8.50				
	PT-1550	2.99	5.97	8.96	14.93	1346	6.73				
1700	PT-1517	3.07	6.14	9.21	2080	10.80					
	PT-1533	3.89	7.79	11.68	1656	8.515					
	PT-1550	4.89	9.78	14.67	1048	6.78					



**Uniform Load Deflection Table:**



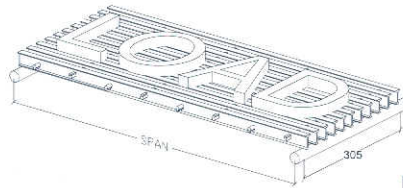
SPAN IN MM	STYLE	LOAD IN KG/M <sup>2</sup> OF WIDTH								Max Rec. Load	Apparent EI x 10 <sup>^2</sup> (KG-M <sup>2</sup> )
		100	200	300	500	750	1000	1500	2000		
300	PT-2033	0.00	0.01	0.01	0.02	0.02	0.03	0.05	0.06	104705	10.1
	PT-2050	0.01	0.01	0.02	0.03	0.05	0.07	0.10	0.13	85890	4.9
	PI-1040	0.01	0.01	0.02	0.03	0.05	0.06	0.09	0.12	51836	5.2
	PI-1050	0.01	0.02	0.02	0.04	0.06	0.08	0.12	0.16	46399	4.0
	PI-1060	0.01	0.02	0.03	0.05	0.08	0.10	0.15	0.20	37295	3.2
	PI-1240	0.01	0.01	0.02	0.03	0.05	0.06	0.09	0.12	71052	5.20
	PI-1250	0.01	0.02	0.02	0.04	0.06	0.08	0.11	0.15	62219	4.25
	PI-1260	0.01	0.02	0.03	0.05	0.07	0.09	0.14	0.19	49305	3.45
	PI-1540	0.00	0.01	0.01	0.02	0.03	0.04	0.06	0.08	90616	8.5
	PI-1550	0.00	0.01	0.01	0.02	0.03	0.05	0.07	0.09	71387	7.1
	PI-1560	0.01	0.01	0.02	0.03	0.05	0.06	0.09	0.12	57841	5.2
	PI-3040	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	384701	35.8
	PI-3050	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.03	301666	25.0
PI-3060	0.00	0.00	0.01	0.01	0.01	0.02	0.03	0.03	223641	19.0	
500	PT-2033	0.01	0.03	0.04	0.06	0.10	0.13	0.19	0.26	37694	19.5
	PT-2050	0.02	0.04	0.05	0.09	0.13	0.18	0.26	0.35	30920	14.1
	PI-1040	0.04	0.08	0.12	0.20	0.29	0.39	0.59	0.78	18661	6.3
	PI-1050	0.05	0.10	0.15	0.25	0.37	0.49	0.74	0.98	16704	5.1
	PI-1060	0.06	0.12	0.18	0.30	0.44	0.59	0.89	1.18	13426	4.2
	PI-1240	0.03	0.06	0.10	0.16	0.24	0.32	0.49	0.65	25579	7.65
	PI-1250	0.04	0.08	0.12	0.20	0.30	0.40	0.60	0.79	22399	6.25
	PI-1260	0.05	0.10	0.14	0.24	0.36	0.48	0.72	0.96	17750	5.16
	PI-1540	0.02	0.03	0.05	0.08	0.12	0.16	0.24	0.32	32622	15.4
	PI-1550	0.02	0.04	0.06	0.10	0.15	0.20	0.30	0.40	25699	12.5
	PI-1560	0.02	0.05	0.07	0.12	0.18	0.24	0.36	0.49	20823	10.2
	PI-3040	0.00	0.01	0.01	0.02	0.03	0.04	0.06	0.08	138493	64.0
	PI-3050	0.01	0.01	0.02	0.03	0.04	0.05	0.08	0.10	108600	49.0
PI-3060	0.01	0.01	0.02	0.03	0.05	0.07	0.10	0.13	80511	38.0	
700	PT-2033	0.04	0.07	0.11	0.18	0.28	0.37	0.55	0.74	19232	25.8
	PT-2050	0.05	0.09	0.14	0.23	0.35	0.47	0.70	0.93	15776	20.4
	PI-1040	0.14	0.28	0.42	0.69	1.04	1.39	2.08	2.78	9521	6.9
	PI-1050	0.17	0.34	0.50	0.84	1.26	1.68	2.52	3.36	8522	5.7
	PI-1060	0.20	0.41	0.61	1.02	1.53	2.04	3.05	4.07	6850	4.7
	PI-1240	0.10	0.21	0.31	0.52	0.79	1.05	1.57	2.10	13050	9.08
	PI-1250	0.12	0.25	0.37	0.62	0.93	1.24	1.86	2.48	11428	7.70
	PI-1260	0.15	0.30	0.45	0.75	1.13	1.51	2.26	3.02	9056	6.32
	PI-1540	0.05	0.10	0.16	0.26	0.39	0.52	0.78	1.04	16644	18.3
	PI-1550	0.06	0.13	0.19	0.32	0.48	0.64	0.95	1.27	13112	15.0
	PI-1560	0.08	0.16	0.24	0.39	0.59	0.78	1.18	1.57	10624	12.2
	PI-3040	0.01	0.02	0.03	0.05	0.08	0.11	0.16	0.21	70659	89.0
	PI-3050	0.01	0.03	0.04	0.07	0.10	0.13	0.20	0.26	55408	72.0
PI-3060	0.02	0.03	0.05	0.09	0.13	0.17	0.26	0.34	41077	56.0	
900	PT-2033	0.09	0.18	0.27	0.44	0.66	0.89	1.33	1.77	11634	29.4
	PT-2050	0.11	0.22	0.34	0.56	0.84	1.12	1.68	2.24	9543	23.2
	PI-1040	0.37	0.74	1.10	1.84	2.76	3.68	5.52	7.37	5760	7.1
	PI-1050	0.44	0.89	1.33	2.22	3.33	4.44	6.65	8.87	5155	5.9
	PI-1060	0.54	1.07	1.61	2.68	4.02	5.36	8.04	10.72	4144	4.9
	PI-1240	0.25	0.50	0.75	1.25	1.88	2.50	3.76	5.01	7895	10.40
	PI-1250	0.31	0.61	0.92	1.53	2.30	3.06	4.60	6.13	6913	8.50
	PI-1260	0.38	0.76	1.14	1.90	2.85	3.80	5.70	7.60	5478	6.85
	PI-1540	0.13	0.27	0.40	0.67	1.00	1.34	2.01	2.68	10068	19.5
	PI-1550	0.16	0.33	0.49	0.82	1.23	1.64	2.46	3.28	7932	15.9
	PI-1560	0.20	0.41	0.61	1.01	1.52	2.03	3.04	4.05	6427	12.9
	PI-3040	0.02	0.05	0.07	0.12	0.18	0.24	0.36	0.47	42745	110.0
	PI-3050	0.03	0.06	0.08	0.14	0.21	0.28	0.42	0.56	33518	93.5
PI-3060	0.04	0.07	0.11	0.18	0.27	0.36	0.54	0.71	24849	73.0	

Continued:

1100	PT-2033	0.19	0.37	0.56	0.93	1.39	1.86	2.78	3.71	7788	31.3
	PT-2050	0.24	0.47	0.71	1.19	1.78	2.37	3.56	4.74	6388	24.5
	PI-1040	0.81	1.63	2.44	4.07	6.10	8.14	12.21		3856	7.1
	PI-1050	0.97	1.95	2.92	4.87	7.31	9.75	14.62		3451	6.0
	PI-1060	1.18	2.36	3.54	5.89	8.84	11.79			2774	4.9
	PI-1240	0.55	1.10	1.64	2.74	4.11	5.48	8.22	10.96	5285	10.60
	PI-1250	0.67	1.35	2.02	3.36	5.04	6.73	10.09	13.45	4628	8.64
	PI-1260	0.83	1.66	2.49	4.14	6.22	8.29	12.43		3667	7.01
	PI-1540	0.29	0.59	0.88	1.47	2.20	2.93	4.40	5.87	6740	19.8
	PI-1550	0.36	0.71	1.07	1.78	2.67	3.56	5.35	7.13	5310	16.3
	PI-1560	0.44	0.88	1.33	2.21	3.31	4.42	6.63	8.84	4302	13.2
	PI-3040	0.05	0.09	0.14	0.23	0.35	0.46	0.69	0.92	28614	126.0
	PI-3050	0.05	0.11	0.16	0.26	0.40	0.53	0.79	1.06	22438	110.0
PI-3060	0.07	0.13	0.20	0.33	0.50	0.66	0.99	1.32	16634	88.0	
1300	PT-2033	0.35	0.69	1.04	1.73	2.60	3.46	5.19	6.92	5576	32.8
	PT-2050	0.45	0.90	1.35	2.25	3.37	4.50	6.75	9.00	4574	25.2
	PI-1040	1.58	3.16	4.74	7.89	11.84				2760	7.2
	PI-1050	1.88	3.77	5.65	9.41	14.12				2471	6.0
	PI-1060	2.26	4.53	6.79	11.31					1986	5.0
	PI-1240	1.06	2.11	3.17	5.28	7.92	10.55			3784	10.74
	PI-1250	1.31	2.61	3.92	6.53	9.79	13.06			3313	8.68
	PI-1260	1.60	3.19	4.79	7.98	11.97				2626	7.10
	PI-1540	0.57	1.13	1.70	2.83	4.25	5.67	8.50	11.34	4826	20.0
	PI-1550	0.69	1.38	2.07	3.46	5.18	6.91	10.37	13.82	3802	16.4
	PI-1560	0.86	1.71	2.57	4.28	6.42	8.55	12.83		3080	13.3
	PI-3040	0.08	0.16	0.25	0.41	0.62	0.82	1.23	1.64	20487	138.0
	PI-3050	0.09	0.18	0.28	0.46	0.69	0.92	1.38	1.84	16065	123.0
PI-3060	0.11	0.23	0.34	0.57	0.85	1.13	1.70	2.27	119099	100.0	
1500	PT-2033	0.60	1.21	1.81	3.02	4.53	6.04	9.06	12.09	4188	33.3
	PT-2050	0.78	1.57	2.35	3.92	5.89	7.85	11.77		3436	25.6
	PI-1040	2.78	5.57	8.35	13.91					2073	7.2
	PI-1050	3.32	6.64	9.96						1856	6.1
	PI-1060	3.95	7.89	11.84						1492	5.1
	PI-1240	1.86	3.73	5.59	9.32	13.98				2842	10.78
	PI-1250	2.30	4.61	6.91	11.52					2489	8.72
	PI-1260	2.81	5.62	8.43	14.05					1972	7.15
	PI-1540	1.00	2.00	3.00	5.00	7.50	10.01			3625	20.1
	PI-1550	1.22	2.44	3.66	6.10	9.15	12.20			2855	16.5
	PI-1560	1.51	3.02	4.53	7.55	11.33				2314	13.3
	PI-3040	0.14	0.28	0.41	0.69	1.03	1.38	2.06	2.75	15388	146.0
	PI-3050	0.15	0.31	0.46	0.77	1.15	1.53	2.30	3.07	12067	131.0
PI-3060	0.19	0.38	0.57	0.95	1.42	1.90	2.84	3.79	8946	106.0	
1700	PT-2033	0.99	1.97	2.96	4.93	7.40	9.87	14.80		3261	33.6
	PT-2050	1.29	2.58	3.87	6.45	9.67	12.90			2675	25.7
	PI-1540	1.65	3.29	4.94	8.24	12.36				2822	20.1
	PI-1550	2.01	4.02	6.03	10.04					2223	16.5
	PI-1560	2.48	4.97	7.45	12.42					1801	13.3
	PI-3040	0.22	0.44	0.65	1.09	1.64	2.18	3.27	4.36	11980	152.0
	PI-3050	0.25	0.49	0.74	1.23	1.84	2.46	3.68	4.91	9394	135.0
	PI-3060	0.30	0.60	0.90	1.51	2.26	3.01	4.52	6.03	6965	110.0
2000	PI-3040	0.40	0.81	1.21	2.02	3.03	4.04	6.07	8.09	8656	157.0
	PI-3050	0.45	0.91	1.36	2.27	3.40	4.54	6.80	9.07	6787	140.0
	PI-3060	0.56	1.11	1.67	2.79	4.18	5.57	8.36	11.14	5032	114.0
2200	PI-3040	0.58	1.17	1.75	2.92	4.39	5.85	8.77	11.69	7154	159.0
	PI-3050	0.65	1.30	1.96	3.26	4.89	6.52	9.79	13.05	5609	142.5
	PI-3060	0.80	1.60	2.40	4.01	6.01	8.01	12.02		4159	116.0
2500	PI-3040	0.96	1.91	2.87	4.78	7.18	9.57	14.35		5540	162.0
	PI-3050	1.08	2.15	3.23	5.38	8.07	10.77			4344	144.0
	PI-3060	1.30	2.61	3.91	6.51	9.77	13.03			3220	119.0



**Uniform Load Deflection Table:**



SPAN IN MM	STYLE	LOAD IN KG/M <sup>2</sup> OF WIDTH								Max Rec. Load	Apparent EI x 10 <sup>3</sup> (KG-M <sup>2</sup> )
		100	200	300	500	750	1000	1500	2000		
300	HDPI-1040	0.01	0.02	0.03	0.05	0.08	0.11	0.16	0.21	72795	0.30
	HDPI-1050	0.01	0.03	0.04	0.06	0.10	0.13	0.19	0.26	60165	0.25
	HDPI-1060	0.02	0.03	0.05	0.08	0.12	0.16	0.24	0.32	48737	0.20
	HDPI-1540	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.04	240054	1.52
	HDPI-1550	0.00	0.01	0.01	0.02	0.03	0.04	0.05	0.07	189277	0.90
	HDPI-1560	0.00	0.01	0.01	0.02	0.04	0.05	0.07	0.10	151427	0.66
	HDPI-2040	0.00	0.00	0.01	0.01	0.01	0.02	0.03	0.04	525475	1.81
	HDPI-2050	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.04	425431	1.50
	HDPI-2060	0.00	0.00	0.01	0.01	0.02	0.02	0.04	0.05	330464	1.30
	HDPI-2540	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.03	887344	2.45
	HDPI-2550	0.00	0.00	0.01	0.01	0.01	0.02	0.03	0.04	701799	1.76
	HDPI-2560	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.04	594034	1.50
500	HDPI-1040	0.04	0.08	0.12	0.21	0.31	0.41	0.62	0.83	26206	0.60
	HDPI-1050	0.05	0.09	0.14	0.23	0.34	0.46	0.68	0.91	21660	0.55
	HDPI-1060	0.05	0.11	0.16	0.27	0.41	0.55	0.82	1.09	17545	0.46
	HDPI-1540	0.01	0.02	0.03	0.04	0.07	0.09	0.13	0.18	86420	2.79
	HDPI-1550	0.01	0.02	0.03	0.06	0.08	0.11	0.17	0.23	68140	2.20
	HDPI-1560	0.01	0.03	0.04	0.07	0.11	0.14	0.21	0.28	54514	1.77
	HDPI-2040	0.01	0.01	0.02	0.03	0.04	0.06	0.09	0.12	189171	4.20
	HDPI-2050	0.01	0.02	0.02	0.04	0.06	0.08	0.12	0.17	153155	3.00
	HDPI-2060	0.01	0.02	0.03	0.04	0.07	0.09	0.13	0.18	118967	2.78
	HDPI-2540	0.01	0.01	0.02	0.03	0.04	0.05	0.08	0.10	319444	4.95
	HDPI-2550	0.01	0.01	0.02	0.03	0.05	0.06	0.09	0.12	252648	4.04
	HDPI-2560	0.01	0.01	0.02	0.04	0.06	0.07	0.11	0.15	213852	3.32
700	HDPI-1040	0.12	0.24	0.37	0.61	0.92	1.22	1.83	2.44	13371	0.78
	HDPI-1050	0.14	0.28	0.42	0.70	1.05	1.40	2.10	2.80	11051	0.68
	HDPI-1060	0.17	0.33	0.50	0.84	1.25	1.67	2.51	3.34	8952	0.57
	HDPI-1540	0.03	0.06	0.09	0.15	0.22	0.30	0.44	0.59	44092	3.22
	HDPI-1550	0.04	0.07	0.11	0.18	0.27	0.36	0.54	0.72	34765	2.63
	HDPI-1560	0.05	0.09	0.14	0.23	0.34	0.45	0.68	0.91	27813	2.10
	HDPI-2040	0.02	0.04	0.05	0.09	0.13	0.18	0.26	0.35	96516	5.40
	HDPI-2050	0.02	0.04	0.06	0.11	0.16	0.22	0.32	0.43	78140	4.40
	HDPI-2060	0.02	0.05	0.07	0.12	0.18	0.24	0.36	0.48	60697	4.00
	HDPI-2540	0.01	0.03	0.04	0.07	0.10	0.13	0.20	0.26	162982	7.20
	HDPI-2550	0.01	0.03	0.04	0.07	0.11	0.15	0.22	0.30	128902	6.45
	HDPI-2560	0.02	0.04	0.06	0.09	0.14	0.18	0.28	0.37	109108	5.16
900	HDPI-1040	0.30	0.60	0.90	1.51	2.26	3.01	4.52	6.02	8088	0.87
	HDPI-1050	0.35	0.70	1.05	1.75	2.62	3.50	5.24	6.99	6685	0.75
	HDPI-1060	0.42	0.85	1.27	2.12	3.18	4.23	6.35	8.47	5415	0.62
	HDPI-1540	0.08	0.15	0.23	0.39	0.58	0.77	1.16	1.55	26673	3.37
	HDPI-1550	0.09	0.19	0.28	0.47	0.70	0.94	1.40	1.87	21031	2.78
	HDPI-1560	0.12	0.24	0.36	0.59	0.89	1.18	1.78	2.37	16825	2.20
	HDPI-2040	0.04	0.08	0.12	0.21	0.31	0.41	0.62	0.83	58386	6.30
	HDPI-2050	0.05	0.10	0.14	0.24	0.36	0.48	0.72	0.96	47270	5.45
	HDPI-2060	0.05	0.11	0.16	0.27	0.41	0.55	0.82	1.10	36718	4.75
	HDPI-2540	0.03	0.06	0.08	0.14	0.21	0.28	0.42	0.56	98594	9.36
	HDPI-2550	0.03	0.06	0.09	0.16	0.23	0.31	0.47	0.62	77978	8.38
	HDPI-2560	0.04	0.08	0.12	0.20	0.29	0.39	0.59	0.78	66004	6.65

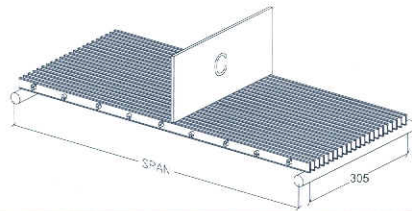


Continued:

1100	HDPI-1040	0.63	1.26	1.89	3.16	4.74	6.32	9.47	12.63	5415	0.92
	HDPI-1050	0.76	1.52	2.28	3.80	5.70	7.60	11.39		4475	0.77
	HDPI-1060	0.92	1.84	2.77	4.61	6.92	9.22	13.83		3625	0.63
	HDPI-1540	0.17	0.34	0.50	0.84	1.26	1.68	2.52	3.36	17855	3.46
	HDPI-1550	0.20	0.41	0.61	1.02	1.52	2.03	3.05	4.06	14078	2.86
	HDPI-1560	0.26	0.51	0.77	1.28	1.92	2.56	3.84	5.12	11263	2.27
	HDPI-2040	0.09	0.17	0.26	0.43	0.64	0.85	1.28	1.71	39085	6.80
	HDPI-2050	0.10	0.20	0.30	0.49	0.74	0.98	1.48	1.97	31644	5.90
	HDPI-2060	0.11	0.23	0.34	0.57	0.85	1.14	1.71	2.28	24580	5.10
	HDPI-2540	0.05	0.11	0.16	0.27	0.41	0.54	0.81	1.08	66001	10.72
	HDPI-2550	0.06	0.12	0.19	0.31	0.47	0.62	0.94	1.25	52200	9.32
HDPI-2560	0.08	0.15	0.23	0.38	0.57	0.77	1.15	1.53	44184	7.58	
1300	HDPI-1040	1.21	2.42	3.64	6.06	9.09	12.12			3877	0.94
	HDPI-1050	1.46	2.93	4.39	7.31	10.97	14.63			3204	0.78
	HDPI-1060	1.77	3.54	5.31	8.86	13.28				2595	0.64
	HDPI-1540	0.32	0.64	0.95	1.59	2.38	3.18	4.76	6.35	12784	3.57
	HDPI-1550	0.38	0.77	1.15	1.92	2.88	3.84	5.76	7.68	10080	2.95
	HDPI-1560	0.48	0.97	1.45	2.42	3.63	4.84	7.27	9.69	8064	2.34
	HDPI-2040	0.16	0.32	0.48	0.80	1.20	1.60	2.39	3.19	27984	7.10
	HDPI-2050	0.19	0.37	0.56	0.93	1.39	1.86	2.79	3.72	22656	6.10
	HDPI-2060	0.22	0.44	0.66	1.09	1.64	2.19	3.28	4.38	17599	5.18
	HDPI-2540	0.10	0.19	0.29	0.49	0.73	0.97	1.46	1.95	47255	11.64
	HDPI-2550	0.11	0.23	0.34	0.57	0.86	1.14	1.72	2.29	37374	9.90
HDPI-2560	0.14	0.29	0.43	0.72	1.08	1.43	2.15	2.87	31635	7.90	
1500	HDPI-1040	2.13	4.25	6.38	10.63					2912	0.95
	HDPI-1050	2.56	5.12	7.68	12.80					2407	0.79
	HDPI-1060	3.10	6.20	9.30						1949	0.65
	HDPI-1540	0.56	1.11	1.67	2.78	4.16	5.55	8.33	11.10	9602	3.62
	HDPI-1550	0.67	1.34	2.01	3.35	5.02	6.70	10.05	13.39	7571	3.00
	HDPI-1560	0.84	1.69	2.53	4.22	6.33	8.44	12.66	16.88	6057	2.38
	HDPI-2040	0.28	0.55	0.83	1.39	2.08	2.77	4.16	5.54	21019	7.25
	HDPI-2050	0.32	0.65	0.97	1.62	2.43	3.24	4.86	6.48	17017	6.20
	HDPI-2060	0.38	0.77	1.15	1.92	2.88	3.85	5.77	7.69	13219	5.23
	HDPI-2540	0.17	0.33	0.50	0.83	1.25	1.66	2.49	3.33	35494	12.08
	HDPI-2550	0.20	0.39	0.59	0.98	1.46	1.95	2.93	3.90	28072	10.30
HDPI-2560	0.25	0.50	0.75	1.25	1.87	2.50	3.74	4.99	23761	8.05	
1700	HDPI-1540	0.90	1.81	2.71	4.52	6.77	9.03	13.55		7476	3.67
	HDPI-1550	1.08	2.15	3.23	5.38	8.07	10.76			5894	3.08
	HDPI-1560	1.38	2.76	4.14	6.91	10.36	13.81			4716	2.40
	HDPI-2040	0.45	0.90	1.35	2.25	3.38	4.51	6.76	9.02	16364	7.35
	HDPI-2050	0.53	1.05	1.58	2.63	3.95	5.26	7.89	10.52	13249	6.30
	HDPI-2060	0.63	1.26	1.89	3.14	4.72	6.29	9.43	12.58	10291	5.27
	HDPI-2540	0.27	0.54	0.80	1.34	2.01	2.68	4.02	5.35	27634	12.38
	HDPI-2550	0.32	0.63	0.95	1.59	2.38	3.17	4.76	6.34	21855	10.45
	HDPI-2560	0.41	0.81	1.22	2.03	3.05	4.07	6.10	8.13	18499	8.15
1900	HDPI-2040	0.69	1.39	2.08	3.47	5.21	6.94	10.41	13.88	13100	7.45
	HDPI-2050	0.82	1.63	2.45	4.08	6.12	8.16	12.24		10606	6.34
	HDPI-2060	0.97	1.94	2.91	4.85	7.28	9.70	14.56		8239	5.33
	HDPI-2540	0.41	0.83	1.24	2.07	3.10	4.13	6.20	8.27	22122	12.51
	HDPI-2550	0.49	0.98	1.47	2.46	3.69	4.92	7.37	9.83	17496	10.52
	HDPI-2560	0.63	1.26	1.89	3.14	4.71	6.28	9.43	12.57	14810	8.23
2100	HDPI-2040	1.03	2.06	3.09	5.15	7.72	10.29			10724	7.50
	HDPI-2050	1.21	2.43	3.64	6.07	9.10	12.14			8682	6.36
	HDPI-2060	1.44	2.87	4.31	7.19	10.78	14.37			6744	5.37
	HDPI-2540	0.61	1.23	1.84	3.07	4.60	6.14	9.20	12.27	18109	12.58
	HDPI-2550	0.73	1.46	2.18	3.64	5.46	7.28	10.92	14.56	14322	10.60
	HDPI-2560	0.93	1.86	2.79	4.65	6.97	9.30	13.95		12123	8.30
2300	HDPI-2540	0.88	1.76	2.64	4.40	6.60	8.80	13.20		15097	12.62
	HDPI-2550	1.04	2.09	3.13	5.21	7.82	10.43			11940	10.65
	HDPI-2560	1.33	2.65	3.98	6.63	9.95	13.27			10106	8.37
2500	HDPI-2540	1.23	2.45	3.68	6.13	9.19	12.26			12778	12.65
	HDPI-2550	1.45	2.89	4.34	7.23	10.85	14.46			10106	10.72
	HDPI-2560	1.84	3.69	5.53	9.22	13.83				8554	8.41



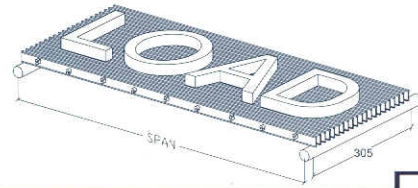
Line Load Table (ADA):



SPAN IN MM	STYLE	LOAD IN KG/M OF WIDTH								Max Rec. Load	Apparent EI x 10 <sup>4</sup> (KG-M <sup>2</sup> )
		100	200	300	500	750	1000	1500	2000		
300	PI-1040-ADA	0.03	0.06	0.09	0.15	0.22	0.30	0.44	0.59	13629	5.81
	PI-1050-ADA	0.05	0.09	0.14	0.23	0.34	0.46	0.69	0.91	11344	3.75
	PI-1060-ADA	0.05	0.10	0.15	0.25	0.37	0.50	0.75	0.99	9355	3.45
	PI-1540-ADA	0.02	0.04	0.05	0.09	0.13	0.18	0.27	0.36	22785	9.60
	PI-1550-ADA	0.02	0.04	0.05	0.09	0.14	0.18	0.27	0.36	18239	9.40
	PI-1560-ADA	0.02	0.04	0.06	0.11	0.16	0.21	0.32	0.42	15203	8.10
500	PI-1040-ADA	0.13	0.25	0.38	0.63	0.94	1.26	1.89	2.52	8177	6.31
	PI-1050-ADA	0.15	0.30	0.45	0.75	1.12	1.49	2.24	2.98	6806	5.32
	PI-1060-ADA	0.18	0.35	0.53	0.88	1.32	1.76	2.65	3.53	5613	4.50
	PI-1540-ADA	0.05	0.10	0.14	0.24	0.36	0.48	0.72	0.96	13671	16.60
	PI-1550-ADA	0.06	0.12	0.18	0.30	0.45	0.60	0.90	1.19	10943	13.30
	PI-1560-ADA	0.07	0.14	0.21	0.36	0.54	0.72	1.07	1.43	9122	11.10
700	PI-1040-ADA	0.32	0.64	0.97	1.61	2.42	3.22	4.83	6.44	5841	6.76
	PI-1050-ADA	0.38	0.75	1.13	1.88	2.82	3.76	5.63	7.51	4862	5.80
	PI-1060-ADA	0.44	0.88	1.31	2.19	3.29	4.38	6.57	8.76	4009	4.97
	PI-1540-ADA	0.12	0.23	0.35	0.58	0.87	1.16	1.74	2.32	9765	18.80
	PI-1550-ADA	0.14	0.28	0.42	0.71	1.06	1.41	2.12	2.83	7817	15.40
	PI-1560-ADA	0.17	0.34	0.51	0.85	1.28	1.71	2.56	3.42	6516	12.75
900	PI-1040-ADA	0.65	1.31	1.96	3.27	4.91	6.55	9.82	13.10	4543	7.07
	PI-1050-ADA	0.78	1.55	2.33	3.88	5.82	7.75	11.63		3781	5.97
	PI-1060-ADA	0.89	1.79	2.68	4.47	6.70	8.94	13.40		3118	5.18
	PI-1540-ADA	0.23	0.47	0.70	1.17	1.75	2.34	3.51	4.68	7595	19.80
	PI-1550-ADA	0.28	0.56	0.85	1.41	2.12	2.82	4.23	5.65	6080	16.40
	PI-1560-ADA	0.35	0.69	1.04	1.73	2.59	3.45	5.18	6.91	5068	13.40
1100	PI-1040-ADA	1.18	2.35	3.53	5.88	8.82	11.76			3717	7.19
	PI-1050-ADA	1.40	2.80	4.20	7.00	10.49	13.99			3094	6.04
	PI-1060-ADA	1.60	3.20	4.79	7.99	11.98				2551	5.29
	PI-1540-ADA	0.42	0.83	1.25	2.08	3.12	4.16	6.25	8.33	6214	20.30
	PI-1550-ADA	0.50	1.01	1.51	2.52	3.78	5.05	7.57	10.09	4974	16.75
	PI-1560-ADA	0.62	1.24	1.86	3.10	4.64	6.19	9.29	12.38	4146	13.65
1300	PI-1040-ADA	1.92	3.85	5.77	9.62	14.43				3145	7.25
	PI-1050-ADA	2.29	4.59	6.88	11.47					2618	6.08
	PI-1060-ADA	2.60	5.21	7.81	13.01					2159	5.36
	PI-1540-ADA	0.67	1.34	2.01	3.35	5.03	6.71	10.06	13.41	5258	20.80
	PI-1550-ADA	0.82	1.64	2.45	4.09	6.14	8.18	12.27		4209	17.05
	PI-1560-ADA	1.01	2.03	3.04	5.07	7.61	10.15			3508	13.75
1500	PI-1040-ADA	2.94	5.88	8.82	14.70					2726	7.29
	PI-1050-ADA	3.50	7.00	10.51						2269	6.12
	PI-1060-ADA	3.94	7.88	11.82						1871	5.44
	PI-1540-ADA	1.02	2.04	3.06	5.10	7.65	10.21			4557	21.00
	PI-1550-ADA	1.25	2.50	3.75	6.25	9.37	12.50			3648	17.15
	PI-1560-ADA	1.55	3.09	4.64	7.74	11.61				3041	13.85
1700	PI-1040-ADA	4.26	8.52	12.79						2405	7.32
	PI-1050-ADA	5.06	10.13							2002	6.16
	PI-1060-ADA	5.69	11.39							1651	5.48
	PI-1540-ADA	1.48	2.96	4.44	7.39	11.09	14.79			4021	21.10
	PI-1550-ADA	1.81	3.62	5.43	9.05	13.58				3219	17.23
	PI-1560-ADA	2.24	4.48	6.72	11.20					2683	13.93



**Uniform Load Table (ADA):**



SPAN IN MM	STYLE	LOAD IN KG/M <sup>2</sup> OF WIDTH								Max Rec. Load	Apparent EI x 10 <sup>^2</sup> (KG-M <sup>2</sup> )
		100	200	300	500	750	1000	1500	2000		
300	PI-1040-ADA	0.01	0.01	0.02	0.03	0.04	0.06	0.08	0.11	58151	5.81
	PI-1050-ADA	0.01	0.02	0.03	0.04	0.06	0.09	0.13	0.17	48401	3.75
	PI-1060-ADA	0.01	0.02	0.03	0.05	0.07	0.09	0.14	0.19	39916	3.45
	PI-1540-ADA	0.00	0.01	0.01	0.02	0.03	0.03	0.05	0.07	97215	9.60
	PI-1550-ADA	0.00	0.01	0.01	0.02	0.03	0.03	0.05	0.07	77818	9.40
	PI-1560-ADA	0.00	0.01	0.01	0.02	0.03	0.04	0.06	0.08	64866	8.10
500	PI-1040-ADA	0.04	0.08	0.12	0.20	0.29	0.39	0.59	0.79	20934	6.31
	PI-1050-ADA	0.05	0.09	0.14	0.23	0.35	0.47	0.70	0.93	17424	5.32
	PI-1060-ADA	0.06	0.11	0.17	0.28	0.41	0.55	0.83	1.10	14370	4.50
	PI-1540-ADA	0.01	0.03	0.04	0.07	0.11	0.15	0.22	0.30	34997	16.60
	PI-1550-ADA	0.02	0.04	0.06	0.09	0.14	0.19	0.28	0.37	28015	13.30
	PI-1560-ADA	0.02	0.04	0.07	0.11	0.17	0.22	0.34	0.45	23352	11.10
700	PI-1040-ADA	0.14	0.28	0.42	0.70	1.06	1.41	2.11	2.82	10681	6.76
	PI-1050-ADA	0.16	0.33	0.49	0.82	1.23	1.64	2.46	3.29	8890	5.80
	PI-1060-ADA	0.19	0.38	0.58	0.96	1.44	1.92	2.88	3.83	7332	4.97
	PI-1540-ADA	0.05	0.10	0.15	0.25	0.38	0.51	0.76	1.01	17856	18.80
	PI-1550-ADA	0.06	0.12	0.19	0.31	0.46	0.62	0.93	1.24	14293	15.40
	PI-1560-ADA	0.07	0.15	0.22	0.37	0.56	0.75	1.12	1.49	11914	12.75
900	PI-1040-ADA	0.37	0.74	1.10	1.84	2.76	3.68	5.52	7.37	6461	7.07
	PI-1050-ADA	0.44	0.87	1.31	2.18	3.27	4.36	6.54	8.72	5378	5.97
	PI-1060-ADA	0.50	1.01	1.51	2.51	3.77	5.03	7.54	10.05	4435	5.18
	PI-1540-ADA	0.13	0.26	0.39	0.66	0.99	1.32	1.97	2.63	10802	19.80
	PI-1550-ADA	0.16	0.32	0.48	0.79	1.19	1.59	2.38	3.18	8646	16.40
	PI-1560-ADA	0.19	0.39	0.58	0.97	1.46	1.94	2.91	3.89	7207	13.40
1100	PI-1040-ADA	0.81	1.62	2.42	4.04	6.06	8.08	12.12		4325	7.19
	PI-1050-ADA	0.96	1.92	2.89	4.81	7.22	9.62	14.43		3600	6.04
	PI-1060-ADA	1.10	2.20	3.30	5.49	8.24	10.98			2969	5.29
	PI-1540-ADA	0.29	0.57	0.86	1.43	2.15	2.86	4.29	5.72	7231	20.30
	PI-1550-ADA	0.35	0.69	1.04	1.73	2.60	3.47	5.20	6.94	5788	16.75
	PI-1560-ADA	0.43	0.85	1.28	2.13	3.19	4.26	6.39	8.51	4825	13.65
1300	PI-1040-ADA	1.56	3.13	4.69	7.82	11.73				3097	7.25
	PI-1050-ADA	1.86	3.73	5.59	9.32	13.98				2578	6.08
	PI-1060-ADA	2.11	4.23	6.34	10.57					2126	5.36
	PI-1540-ADA	0.54	1.09	1.63	2.72	4.09	5.45	8.17	10.90	5177	20.80
	PI-1550-ADA	0.66	1.33	1.99	3.32	4.99	6.65	9.97	13.30	4144	17.05
	PI-1560-ADA	0.82	1.65	2.47	4.12	6.18	8.24	12.37		3454	13.75
1500	PI-1040-ADA	2.76	5.51	8.27	13.78					2326	7.29
	PI-1050-ADA	3.28	6.57	9.85						1936	6.12
	PI-1060-ADA	3.69	7.39	11.08						1597	5.44
	PI-1540-ADA	0.96	1.91	2.87	4.78	7.18	9.57	14.35		3889	21.00
	PI-1550-ADA	1.17	2.34	3.51	5.86	8.79	11.72			3113	17.15
	PI-1560-ADA	1.45	2.90	4.35	7.25	10.88	14.51			2595	13.85
1700	PI-1040-ADA	4.53	9.06	13.58						1811	7.32
	PI-1050-ADA	5.38	10.76							1507	6.16
	PI-1060-ADA	6.05	12.10							1243	5.48
	PI-1540-ADA	1.57	3.14	4.71	7.85	11.78				3027	21.10
	PI-1550-ADA	1.92	3.85	5.77	9.62	14.43				2423	17.23
	PI-1560-ADA	2.38	4.76	7.14	11.90					2020	13.93



## U.S. COAST GUARD APPROVED GRATING

USCG approved gratings were designed and developed by Suzhou Grating Co., Ltd. with the aim of getting extreme fire resistance and low flame spread. Suzhou Grating Co., Ltd. is the legitimate patent holder of these USCG gratings.

IGRID™ Phenolic Grating (including Molded & Pultruded) is manufactured and shaped by using high strength fiberglass soaked in Phenolic ester and then passing through heated die. The grating has passed the USCG test and is mainly used in such areas as offshore oil platforms, oceangoing oil tankers and other industries where up to level 2 performance is required.

The impact resistance of the Phenolic grating is greater than that of steel grating under the same testing condition.



### Highlighted Features

- Corrosion Resistance
- Easy Installation and Maintenance
- Extreme Fire Resistance
- Light Weight

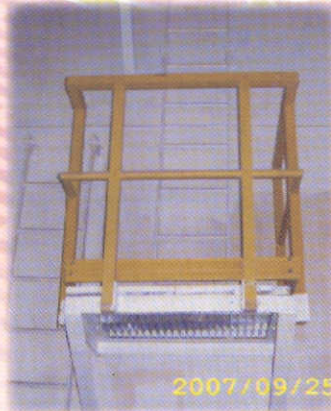
### Typical Applications

- Offshore Oil Platform
- Oceangoing Oil Tanker
- Ocean Vessel



With its high fire resistance, low flame spread and light weight, IGRID™ USCG Approved Phenolic Gratings are mostly used in areas such as Offshore Oil Platform and Ocean Vessel with consideration of weight design and especially for semi-submersible platform, offshore stations, etc. USCG approved Phenolic grating is less than 1/3 the weight of steel which gives designer more flexibility when doing weight and structure design.

These types of gratings can be very easily installed with hold-down fasteners and very conveniently cut-out for pipe or cable penetration.





## USCG APPROVED MOLDED GRATING

IGRID™ Phenolic Molded Grating is integrally cast produced with load bar and bearing bar interwoven together to offer bidirectional strength. The USCG approved grating can be used in cases where more pipe penetration or cutout is required. There would be no additional supports in most cases because this one-piece construction of grating offers very excellent bidirectional strength, superior impact and corrosion resistance.

- Corrosion Resistance
- Easy Installation and Maintenance
- Extreme Fire Resistant
- Light Weight

IGRID™ Phenolic Grating can also be made with conductive surface for electrostatic discharge and in any custom color.

## U.S. COAST GUARD TESTING

IGRID™ Phenolic Grating produced by Suzhou Grating Co., Ltd. is approved by U.S. Coast Guard by passing both level 2 and level 3 tests. The USCG test requires sample grating to be exposed to 927°C (1700°F) for one hour as per ASTM E-119. The sample that we supplied carried 140 psf uniformed load during the test, exceeding the requirement of 94 psf by a factor of 1.49.

## USCG APPROVED PULTRUDED GRATING

IGRID™ Phenolic Pultruded Grating is made with bearing bar and cross bar mechanically connected in order to offer one directional super strength. The USCG approved grating can be used in cases where greater span is required owing to environment or construction. There would be additional supports in most cases where pipe penetration or cutout is required for cable, etc. The grating offers good corrosion resistance and superior one directional impact resistance.

- Unidirectional Strength
- Easy Installation
- Superior Corrosion Resistance
- Impact Resistance

### Level 3 Acceptance:

Grating is required not to fail within 100°C in comparison with a steel grating and withhold a center load of 40kg.

### Level 2 Acceptance:

Grating must pass level 3 test and still be intact to withhold a minimum uniformed load of 4.5kpa (94 psf).

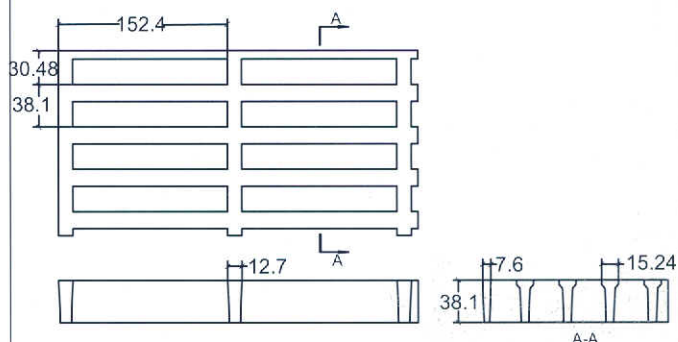
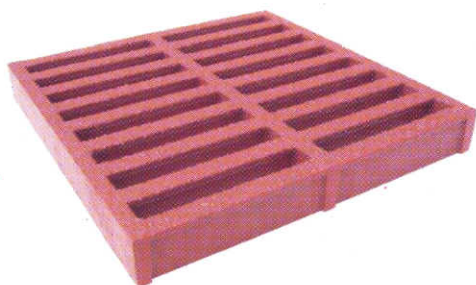
### ASTM E-84-00a

- Flame Spread Index: 5
- Smoke Developed Index: 5

### 38.1 x 38.1 x 152.4 SuperSpan

### Full Size: 1220 x 3670

Approx. Weight: 19.55 kg/sm



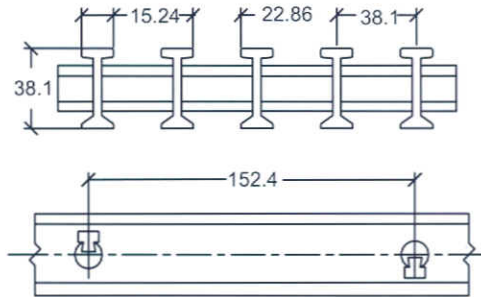
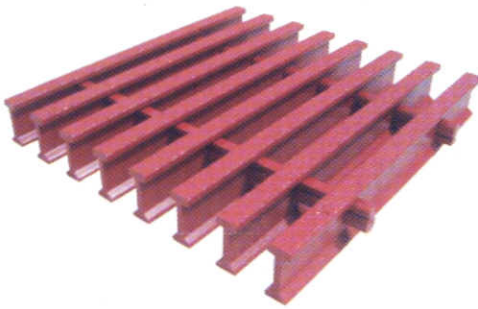
Engineering Properties per 305mm of Width	# of Bars	Load Bar Width	Bar Centers	Opening
A=28.6cm <sup>2</sup> I=87.8cm <sup>4</sup> S <sub>x</sub> =43.3cm <sup>3</sup> S <sub>y</sub> =28.8cm <sup>3</sup>	8	15.24mm	38.1mm	55%



**PHI-1560 Pultruded Grating**

**Full Size: 1524 x 6096**

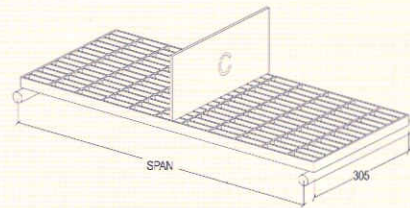
Approx. Weight: 14.95 kg/sm



**Engineering Properties per 305mm of Width**

A=20.1cm<sup>2</sup>      I=36.6cm<sup>4</sup>      S=19.2cm<sup>3</sup>

# of Bars	Load Bar Width	Bar Centers	Opening
8	15.24mm	38.1mm	60%

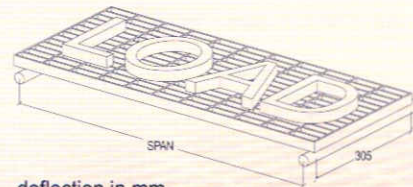


**Concentrated Load Table (Molded Grating):**

38.1 x 38.1 x 152.4 SuperSpan molded grating (USCG)

deflection in mm

span mm	CONCENTRATED LOAD (KG/M) OF WIDTH								Max. Rec. Load	Average EI x 100 kg-m2
	100	200	300	500	750	1000	1500	2000		
300	0.04	0.09	0.13	0.21	0.32	0.43	0.64	0.86	5720	4.00
400	0.08	0.16	0.24	0.41	0.61	0.81	1.22	1.63	4290	5.00
500	0.14		0.42	0.70	1.05	1.40	2.11	2.81	3432	5.65
600	0.22	0.44	0.66	1.11	1.66	2.21	3.32	4.42	2860	6.20
700	0.34	0.67	1.01	1.68	2.52	3.37	5.05	6.73	2451	6.47
800	0.49	0.99	1.48	2.46	3.69	4.93	7.39	9.85	2145	6.60
900	0.69	1.39	2.08	3.46	5.20	6.93	10.39	13.86	1907	6.68
1000	0.94	1.88	2.82	4.70	7.06	9.41	14.11		1716	6.75
1100	1.24	2.47	3.71	6.19	9.28	12.37			1560	6.83
1200	1.59	3.18	4.77	7.95	11.93				1430	6.90
1300	2.00	4.01	6.01	10.02					1320	6.96
1400	2.49	4.98	7.47	12.45					1226	7.00



**Uniform Load Table (Molded Grating):**

38.1 x 38.1 x 152.4 SuperSpan molded grating (USCG)

deflection in mm

span mm	UNIFORM LOAD (KG/M <sup>2</sup> ) OF WIDTH								Max. Rec. Load	Average EI x 100 kg-m2
	100	200	300	500	750	1000	1500	2000		
300	0.01	0.02	0.02	0.04	0.06	0.08	0.12	0.16	24406	4.00
400	0.02	0.04	0.06	0.10	0.15	0.20	0.30	0.41	13728	5.00
500	0.04	0.09	0.13	0.22	0.33	0.44	0.66	0.88	8786	5.65
600	0.08	0.17	0.25	0.41	0.62	0.83	1.24	1.66	6101	6.20
700	0.15	0.29	0.44	0.74	1.10	1.47	2.21	2.95	4483	6.47
800	0.25	0.49	0.74	1.23	1.85	2.46	3.69	4.93	3432	6.60
900	0.39	0.78	1.17	1.95	2.92	3.90	5.85	7.80	2712	6.68
1000	0.59	1.18	1.76	2.94	4.41	5.88	8.82	11.76	2197	6.75
1100	0.85	1.70	2.55	4.25	6.38	8.51	12.76		1815	6.83
1200	1.19	2.39	3.58	5.96	8.95	11.93			1525	6.90
1300	1.63	3.26	4.89	8.14	12.21				1300	6.96
1400	2.18	4.36	6.53	10.89					1121	7.00



## Concentrated Load Table (Pultruded Grating):

PHI-1560 phenolic pultruded grating(USCG) Deflection in mm

Span in mm	CONCENTRATED LOAD (KG/M) OF WIDTH								Max. Rec. Load	Average EI x 100 kg-m2
	100	200	300	500	750	1000	1500	2000		
300	0.03	0.07	0.10	0.16	0.25	0.33	0.49	0.66	9416	5.20
400	0.06	0.12	0.18	0.30	0.45	0.60	0.90	1.20	7062	6.80
500	0.10	0.19	0.29	0.48	0.73	0.97	1.45	1.94	5650	8.20
600	0.15	0.29	0.44	0.73	1.10	1.47	2.20	2.93	4708	9.35
700	0.21	0.43	0.64	1.06	1.60	2.13	3.19	4.26	4035	10.23
800	0.30	0.59	0.89	1.48	2.21	2.95	4.43	5.91	3531	11.01
900	0.40	0.79	1.19	1.98	2.97	3.96	5.93	7.91	3139	11.70
1000	0.52	1.04	1.56	2.59	3.89	5.18	7.78	10.37	2825	12.25
1100	0.67	1.33	2.00	3.33	4.99	6.66	9.98	13.31	2568	12.70
1200	0.84	1.69	2.53	4.22	6.33	8.44	12.66		2354	13.00
1300	1.06	2.11	3.17	5.28	7.93	10.57			2173	13.20
1400	1.32	2.63	3.95	6.58	9.86	13.15			2018	13.25
1500	1.61	3.23	4.84	8.07	12.10				1883	13.28

## Uniform Load Table (Pultruded Grating):

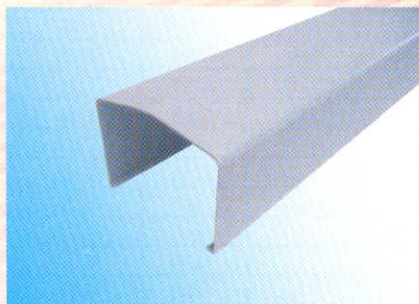
PHI-1560 phenolic pultruded grating(USCG) Deflection in mm

Span in mm	UNIFORM LOAD (KG/M <sup>2</sup> ) OF WIDTH								Max. Rec. Load	Average EI x 100 kg-m2
	100	200	300	500	750	1000	1500	2000		
300	0.01	0.01	0.02	0.03	0.05	0.06	0.09	0.12	40175	5.20
400	0.01	0.03	0.04	0.07	0.11	0.15	0.22	0.30	22598	6.80
500	0.03	0.06	0.09	0.15	0.23	0.30	0.45	0.60	14463	8.20
600	0.06	0.11	0.17	0.28	0.41	0.55	0.83	1.10	10044	9.35
700	0.09	0.19	0.28	0.47	0.70	0.93	1.40	1.86	7379	10.23
800	0.15	0.30	0.44	0.74	1.11	1.48	2.21	2.95	5650	11.01
900	0.22	0.45	0.67	1.11	1.67	2.23	3.34	4.45	4464	11.70
1000	0.32	0.65	0.97	1.62	2.43	3.24	4.86	6.48	3616	12.25
1100	0.46	0.92	1.37	2.29	3.43	4.58	6.86	9.15	2988	12.70
1200	0.63	1.27	1.90	3.17	4.75	6.33	9.50	12.66	2511	13.00
1300	0.86	1.72	2.58	4.29	6.44	8.59	12.88		2139	13.20
1400	1.15	2.30	3.45	5.75	8.63	11.51			1845	13.25
1500	1.51	3.03	4.54	7.56	11.35	15.13			1607	13.28

## Applications at Railway & Subway

IGRID<sup>®</sup> Phenolic Grating, with its light weight and high fire resistance, is popularly used at such areas as subway escaping platform which is designed for passengers to run away in case of accident.

Suzhou Grating Co., Ltd. is an expert at making this kind of platform with special design for load requirements, offering you a better solution of replacing steel gratings with FRP ones that are corrosion resistant.



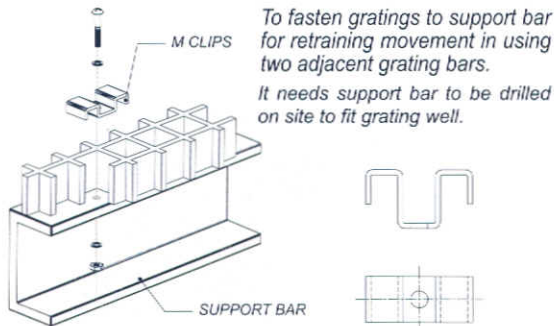
To complete the railway products line, Suzhou Grating Co., Ltd. also develops safety cover for 3rd rail. This cover is manufactured in pultrusion technology which allows cover to be cut into any length according to actual installation requirements.



Suzhou Grating Co., Ltd. has developed its own product lines by offering clips, adjustable legs and post pedestal in addition to gratings. The clips will help to join gratings together and fasten gratings to support system so as to secure the whole structure.

Suzhou grating Co., Ltd. supplies various types of clips for its gratings. Normally, the maximum distance between clips should be no more than 1220mm in consideration of grating's strength. All clips are made of SS316 stainless steel with thickness at 1.5mm except for some kinds of T clips which are made from FRP.

## M Clips

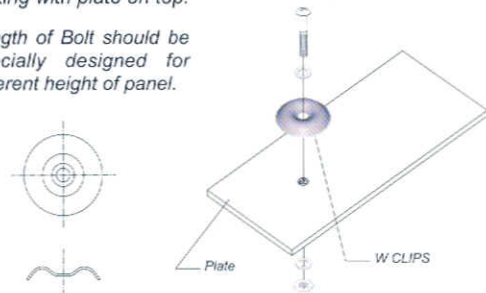


To fasten gratings to support bar for restraining movement in using two adjacent grating bars. It needs support bar to be drilled on site to fit grating well.

## W Clips

Made specially for plate or grating with plate on top.

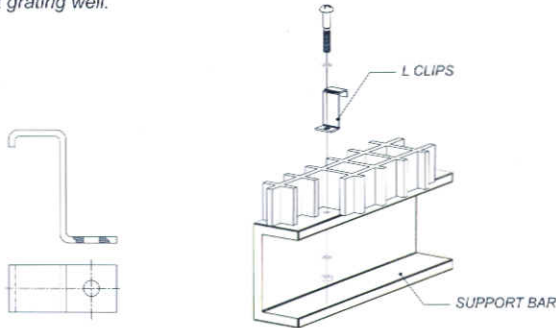
Length of Bolt should be specially designed for different height of panel.



## L Clips

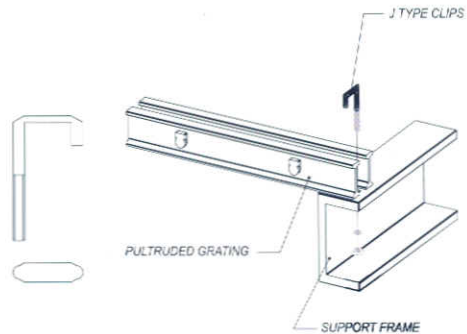
To fasten gratings panels to support bar for moderate loads.

It needs support bar to be drilled on site to fit grating well.



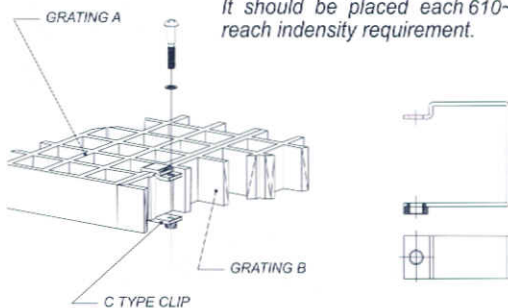
## J Clips

To secure grating to support bar conveniently.



## C Clips

For joining two ends of molded grating together simply. It should be placed each 610~914mm to reach indensity requirement.

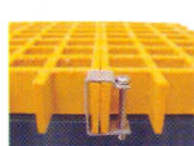
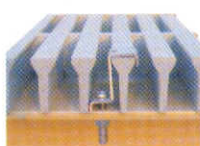
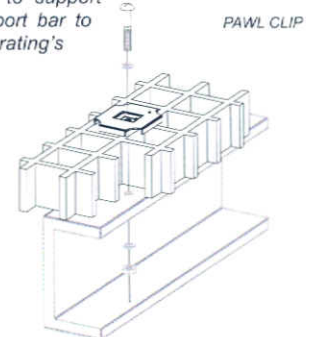


## PAWL Clips

Specially designed to meet high strength requirement of connecting to support frame. This needs the support bar to be drilled on site to fit grating's mesh well.

Test result: No deflection of clips in condition of 1500kg/m<sup>2</sup> load, 4 clips on 4 sm.

Using for 38mm square mesh molded grating only.

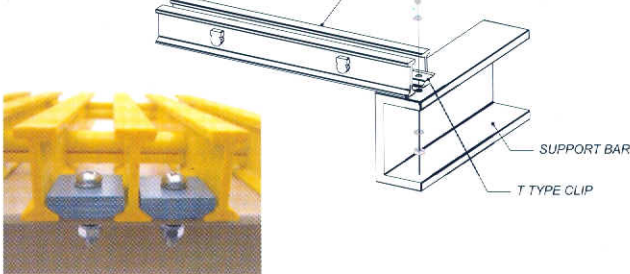




## T Clips

To fasten pultruded grating to support frame conveniently.

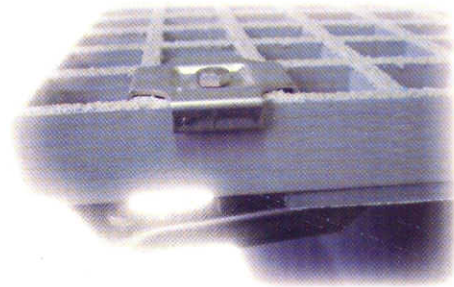
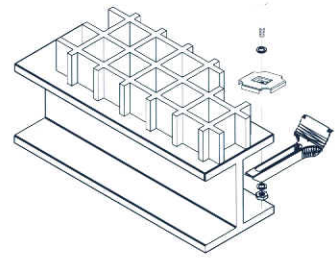
It needs support bar to be drilled on site to fit grating well.



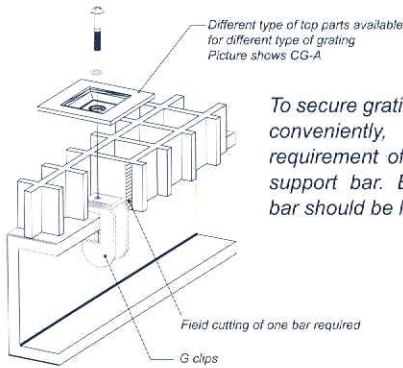
Suzhou Grating Co., Ltd. offers FRP T clips which is specially designed for different openings of grating. Both for molded grating and pultruded grating.

## CY Clips

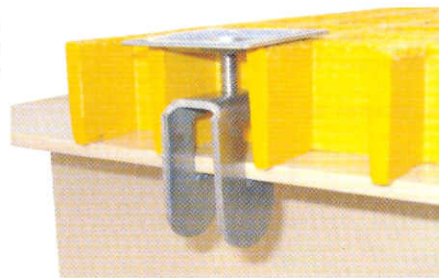
This part should be used together with some other types of clip to avoid drilling holes in support frame. The clip gives function of protecting support bar. It can be used for both molded and pultruded gratings.



## G Clips



To secure grating to support bar conveniently, there is no requirement of drilling holes in support bar. But thickness of bar should be less than 20mm.



## CSSM Clips

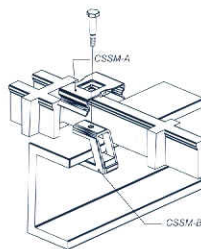
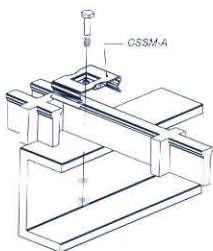
Specially designed to meet high strength requirement of connecting to support frame.

Test result: No deflection of clips in condition of 1500kg/m<sup>2</sup> load, 4 clips on square 4sm panel.

Using for Super Span molded as well as 25 or 38mm Pultruded. Grating with 60% opening.

### PLAN A

Using CSSM-A with CSSM-B together in order to avoid drilling any hole in support frame.



### PLAN B

Using CSSM-A only, frame should be drilled on site.

## CSSM-B Clips

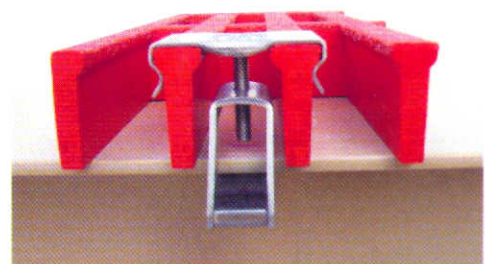
This part should be used together with some other types of clip to avoid drilling holes in support frame.

The black rubber gives function of protecting support bar. It can be used for both molded and pultruded gratings.

For molded grating, it can be used together with Type CM, Pawl and CG-A, etc.

For pultruded grating, it can be used together with Type F, CSSM-A, CT, CM, etc.

A steel strip can be added at the bottom of rubber in order to make the clip conducting.

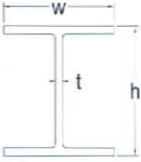





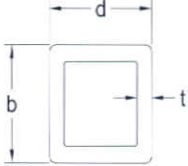
Suzhou Grating Co., Ltd. not only offers gratings, accessories but also FRP structural shapes that can be used to support gratings. These structural shapes are used in cases where steel supports can not be used or where there is a requirement for light weight support. Hence, FRP structural shapes can be a good substitute for steel and aluminum support system.

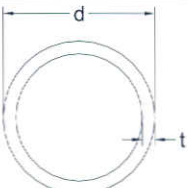
**Profiles List:**

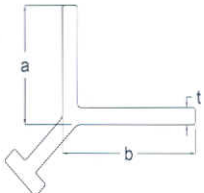
SHAPE	Available Size				Picture
	a (mm)	b (mm)	t (mm)	Description	
	50	50	6	L50 x 50 x 6 Angle	
	76	76	6	L76 x 76 x 6 Angle	
	76	76	9.5	L76 x 76 x 9.5 Angle	
	101.6	101.6	9.5	L101.6 x 101.6 x 9.5 Angle	
	152	152	13	L152 x 152 x 13 Angle	

BEAM	w (mm)	h (mm)	t (mm)	Description	Picture
		101.6	101.6	6	
152		152	6	W152 x 152 x 6 Beam	
203		203	9.5	W203 x 203 x 9.5 Beam	
101.6		203	9.5	I 203 x 101.6 x 9.5 Beam	

CHANNELS	d (mm)	b (mm)	t (mm)	Description	Picture
		152	41	6	
203		55.6	9.5	C203 x 55.6 x 9.5 Channel	
254		70	13	C254 x 70 x 13 Channel	

SQUARE & RECT. TUBE	d (mm)	b (mm)	t (mm)	Description	Picture
		63.5	63.5	6	
50.8		50.8	6	TS50.8 x 6 Tube	
50.8		50.8	5	TS50.8 x 5 Tube	
41		41	6	TS41 x 6 Tube	
60		80	6	TR 60 x 80 x 6 Rect. Tube	
41		41	6	TS 41 x 6 Tube	

ROUND TUBE	d (mm)	t (mm)	Description	Picture
		32	3	
38		3	RD38 x 3 Tube	
44		3	RD44 x 3 Tube	
50.8		3	RD50.8 x 3 Tube	
50.8		6	RD50.8 x 6 Tube	
76.2		6	RD76.2 x 6 Tube	

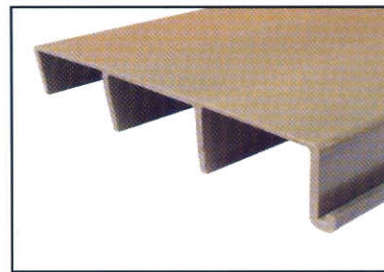
EMBED ANGLE	a (mm)	b (mm)	t (mm)	Description	Picture
		38	50.8	6	
38		38	6	38 x 38 x 6 Embed Angle	

\*\*\* Please call us for load table or any other special requirement.



## Interlock Plank

Interlocking plank is a system of 305mm wide fiberglass panel designed to be interlocked for a continuous solid surface in very light weight. It supplies a cost-effective way to get high strength and mostly used to replace wood, aluminum or steel planks in environments where corrosion creates routine maintenance problems or unsafe conditions. Complete load tables and properties are available.



Interlocking plank is manufactured of pultruded fiberglass reinforced polyester, making it particularly well suited to corrosive environments. The standard resin system is a fire retardant polyester resin meeting requirements of Class 1 rating of 25 when tested according to ASTM E-84. The resin is UV inhibited and the composite includes a surface veil on all exposed surfaces for enhanced corrosion and UV protection. Other resins and colors are available upon request.

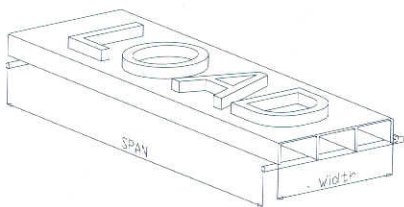
Standard interlock plank is made in 54mm deep and 305mm sections. The stocked length is 3096mm. For other custom length, please call us. This plank can be made in smooth surface as well as gritted surface for anti-slip.

### Features & Benefits

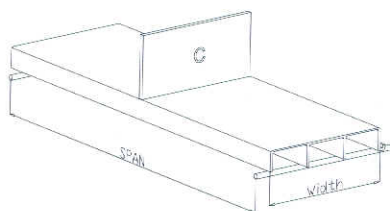
- Corrosion Resistance
- Low Conductivity
- Light Weight
- Easily Transported

### Typical Applications

- Roofing Walkways
- Temporary Flooring
- Scaffolding
- Air-tight Flooring for WTP



span mm	Uniform Load kg/m <sup>2</sup>										
	100	200	300	400	500	750	1000	1500	2000	3000	4000
500	0.03	0.06	0.10	0.13	0.16	0.24	0.32	0.48	0.64	0.96	1.28
600	0.04	0.09	0.13	0.18	0.22	0.33	0.44	0.66	0.89	1.33	1.77
700	0.06	0.13	0.19	0.25	0.32	0.48	0.64	0.95	1.27	1.91	2.54
800	0.09	0.19	0.28	0.37	0.46	0.70	0.93	1.39	1.86	2.78	3.71
900	0.14	0.28	0.41	0.55	0.69	1.03	1.38	2.06	2.75	4.13	5.50
1000	0.20	0.40	0.61	0.81	1.01	1.51	2.02	3.03	4.04	6.06	8.07
1100	0.29	0.58	0.86	1.15	1.44	2.16	2.88	4.32	5.76	8.64	11.52
1200	0.40	0.80	1.19	1.59	1.99	2.99	3.98	5.97	7.96	11.95	
1300	0.54	1.08	1.62	2.16	2.70	4.05	5.40	8.10	10.80		
1400	0.72	1.43	2.15	2.87	3.58	5.37	7.17	10.75	14.33		
1500	0.93	1.86	2.79	3.72	4.66	6.98	9.31	13.97			



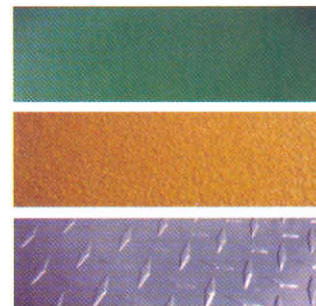
span mm	Concentrated Load kg/m										
	100	200	300	400	500	750	1000	1500	2000	3000	4000
500	0.10	0.21	0.31	0.41	0.51	0.77	1.03	1.54	2.05	3.08	4.10
600	0.12	0.24	0.35	0.47	0.59	0.89	1.18	1.77	2.36	3.54	4.72
700	0.15	0.29	0.44	0.58	0.73	1.09	1.45	2.18	2.90	4.36	5.81
800	0.19	0.37	0.56	0.74	0.93	1.39	1.86	2.78	3.71	5.57	7.42
900	0.24	0.49	0.73	0.98	1.22	1.83	2.45	3.67	4.89	7.34	9.78
1000	0.32	0.65	0.97	1.29	1.61	2.42	3.23	4.84	6.46	9.69	12.92
1100	0.42	0.84	1.26	1.68	2.09	3.14	4.19	6.28	8.38	12.57	
1200	0.53	1.06	1.59	2.12	2.65	3.98	5.31	7.96	10.62		
1300	0.66	1.33	1.99	2.66	3.32	4.98	6.64	9.96	13.29		
1400	0.82	1.64	2.46	3.28	4.10	6.14	8.19	12.29			
1500	0.99	1.99	2.98	3.97	4.97	7.45	9.93	14.90			

## FRP Solid Plate

Suzhou Grating Co., Ltd. also offers FRP solid plate which can be attached to gratings (molded and pultruded) for some applications where no opening of footing surface is allowed. At the same time, this attached plate will increase strength of grating very well so that supports can be set at a larger span than normally required to reduce the cost.

This plate can be made up of Iso, Ortho, Vinyl ester with any color specially required.

Several kinds of surfaces are available. Gritted, Smooth and Diamond.





## IGRID™ FRP Handrail System



IGRID™ handrail system is designed to meet the configuration and loading requirements of OSHA standard. It is corrosion resistant, virtually maintenance free, and easy to install.

The standard handrail system is assembled with top rails and posts (50.8mm square tubes) manufactured by the pultrusion process. The middle rails are 38mm round tubes while the kickplate is 101.6 x 13 (corrugated) x 3mm thick pultruded fiberglass shape. Our standard industrial handrail is a 2-rail system of pultruded structural shapes with UV (ultraviolet) inhibitors and synthetic surfacing that will allow a resin rich surface.

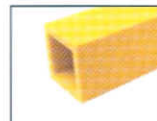
Handrail can be made not only in safety yellow but also in gray color as per special requirement.


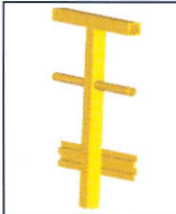



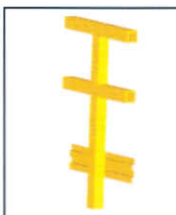


### Handrail Styles

Suzhou Grating Co., Ltd. can offer design, engineering, fabrication and installation of handrail systems, platform systems and other special solutions as required by specific projects.



\*\*\* Special roundrail system is also available. See the following page for detail.



Standard Handrail System (Floor mounted)		Standard Handrail System (Side mounted)	
	Top Rail: 50.8 x 6mm Square Tube Post: 50.8 x 6mm Square Tube Mid Rail: 38 x 3mm Round tube Kickplate: 101.6 x 3mm Corrugated plate Pedestal: FRP part		Top Rail: 50.8 x 6mm Square Tube Post: 50.8 x 6mm Square Tube Mid Rail: 38 x 3mm Round tube Kickplate: 101.6 x 3mm Corrugated plate Pedestal: SS Bracket or Anchor to wall
Light Duty Handrail System (Floor mounted)		Light Duty Handrail System (Side mounted)	
	Top Rail: 50.8 x 5mm Square Tube Post: 50.8 x 5mm Square Tube Mid Rail: 38 x 3mm Round tube Kickplate: 101.6 x 3mm Corrugated plate Pedestal: FRP part		Top Rail: 50.8 x 5mm Square Tube Post: 50.8 x 5mm Square Tube Mid Rail: 38 x 3mm Round tube Kickplate: 101.6 x 3mm Corrugated plate Pedestal: SS Bracket or Anchor to wall
Heavy Duty Handrail System (Floor mounted)		Heavy Duty Handrail System (Side mounted)	
	Top Rail: 50.8 x 6mm Square Tube Post: 50.8 x 6mm Square Tube Mid Rail: 50.8 x 6mm Round tube Kickplate: 101.6 x 3mm Corrugated plate Pedestal: FRP part		Top Rail: 50.8 x 6mm Square Tube Post: 50.8 x 6mm Square Tube Mid Rail: 50.8 x 6mm Round tube Kickplate: 101.6 x 3mm Corrugated plate Pedestal: SS Bracket or Anchor to wall
Ergonomic Handrail System (Floor mounted)		Ergonomic Handrail System (Side mounted)	
	Top Rail: 54 x 38 x 6mm Oval Tube Post: 50.8 x 6mm Square Tube Mid Rail: 50.8 x 6mm Round tube Kickplate: 101.6 x 3mm Corrugated plate Pedestal: FRP part		Top Rail: 54 x 38 x 6mm Oval Tube Post: 50.8 x 6mm Square Tube Mid Rail: 50.8 x 6mm Round tube Kickplate: 101.6 x 3mm Corrugated plate Pedestal: SS Bracket or Anchor to wall

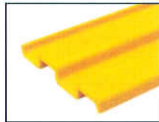


## IGRID™ RoundRail System

IGRID™ handrail system is specially designed to replace steel handrail system in some applications where corrosion resistance is required. This handrail system is designed according to requirements of OSHA 1910.23 standard. It is corrosion resistant, virtually maintenance free, and easy to install. This special design allows handrail to be shipped in parts and the total assembly can take place on the site so that the cost of shipment can be greatly reduced.

The standard handrail system is assembled with rails and posts (50.8mm round tubes) manufactured by the pultrusion process. Kickplate is 101.6x13mm (corrugated) x 3mm thick pultruded fiberglass shape. Our standard industrial round handrail is a 2-rail system of pultruded structural shapes with UV (ultraviolet) inhibitors and synthetic surfacing that will allow a resin rich surface. Suzhou Grating Co., Ltd. can also offer multi-rail system and rail quantity depends on custom requirement.

Handrail can be made not only in gray, safety yellow but also in other colors as required by customers.



Floor Mounted FRP Base



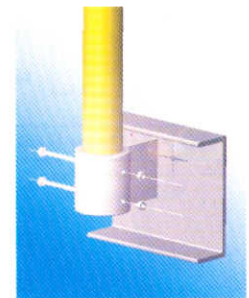
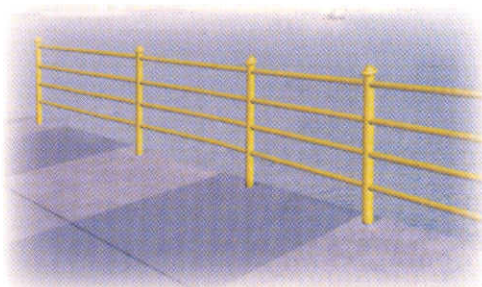
Floor Mounted SS Base

## IGRID™ Aesthetic Guardrail

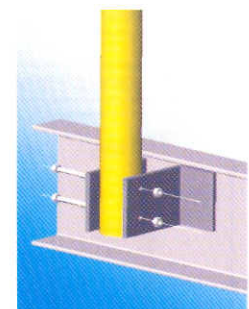
IGRID™ handrail system can be designed for some applications such as garden guardrail, park railing with any color required for aesthetic purposes, and customized shapes can also be supplied.

Aesthetic shapes can be made in both pultruded process and hand lay-up according to actual sizes required. Please contact us if there is any special requirement on this guardrail.

Pictures below show typical applications for aesthetics.



Side Mounted SS Base



Side Mounted FRP Angle

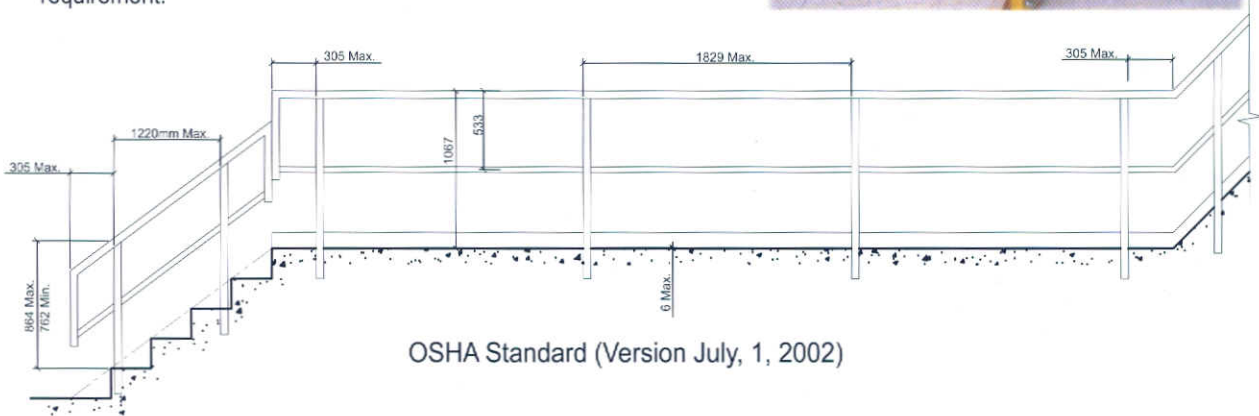


## Typical Handrail System

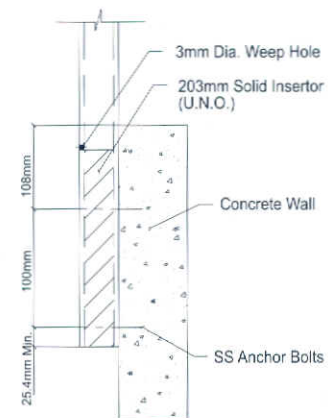
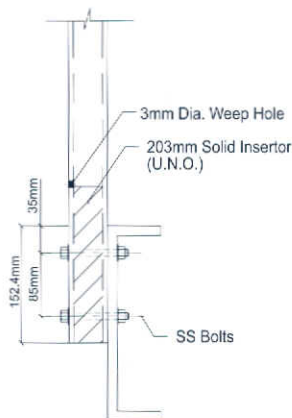
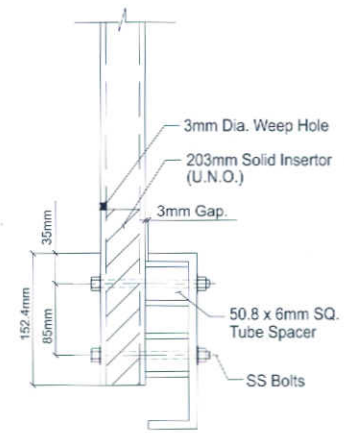
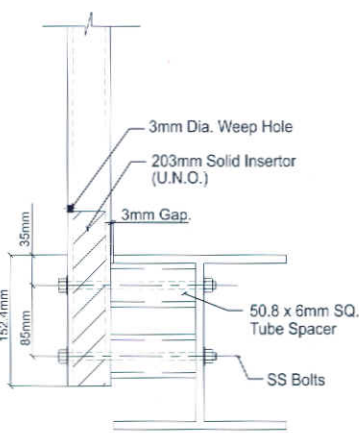
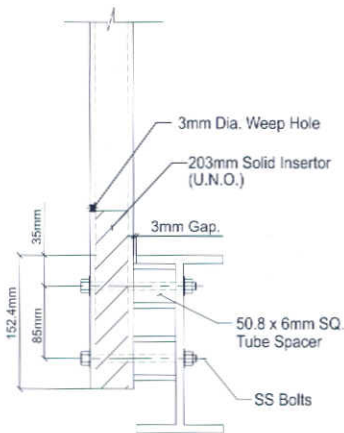
Handrail systems supplied by Suzhou Grating Co., Ltd. are designed in strict accordance with OSHA 1910.23 specification.

Suzhou Grating Co., Ltd. can offer not only standard handrail system, but also some other custom railings for industrial application, such as 3-5 rails guard railing, picket railing for villadom or park application.

For handrail longer than 6096mm, handrail shall be separated at 1/3 of space between two posts and connected on site with solid plug and epoxy. Kickplate is supplied at all level floors without any special requirement.



## Handrail Mounted Detail





## IGRID™ FRP Ladder System

IGRID™ Ladder System is designed as per the OSHA 1910.27 standard. Its cage system is determined by the height of the ladder while its anti-skid resistance secures a high level of safety. The components of the ladder system can be packed separately and shipped in compact kit form as per the installation instructions and requirements so as to facilitate the installation process.

FRP ladder and cage systems have been in continuous use in chemical plants and other corrosive environment. And they are also used in cases where ladder and cage systems are immersed in liquids, like pools, deep wells, etc.

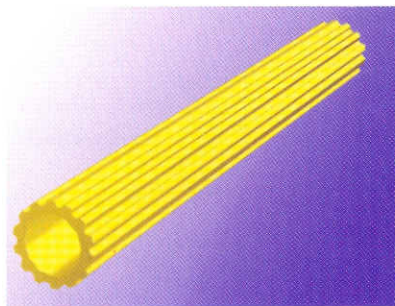
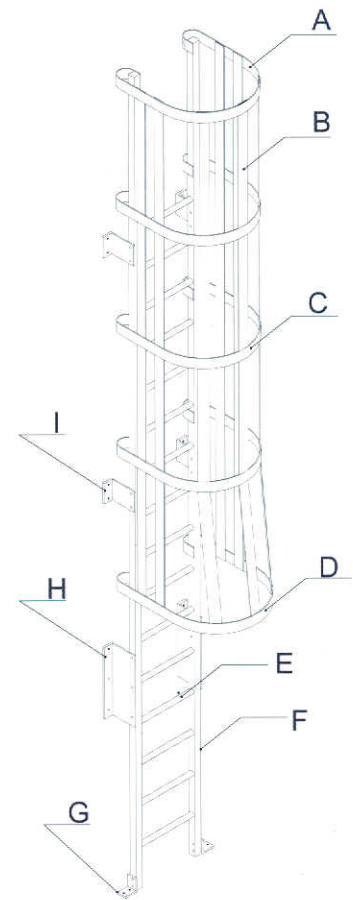
In addition to standard ladder systems, Suzhou Grating Co., Ltd. also offers a range of customized components to facilitate the connection between ladder system and platform structure (e.g.: handrails, walls, rest platform for high tank, etc.)

## IGRID™ FRP Ladder Size Indication

IGRID™ Ladders are fabricated at a standard 457mm rung width configuration with 305mm rung spacing. The ladders of varied lengths can be produced as required by the specific projects. The rungs are 25.4mm Dia. solid bars covered with grit for maximum anti-skid resistance. The whole system complies with the strict requirements of OSHA 1910.27.

Also, 32mm Dia. corrugated tube is available for rung system.

Ladder Detail



No.	Name	Description
A	Top Hoop	686mm from centerline of ladder rung to inside of hoop 76.2mm wide x 6mm thickness hand lay-up Pre-drilled holes
B	Vertical Bar	50.8mm wide x 6mm stripe bar
C	Intermediate Hoop	686mm from centerline of ladder rung to inside of hoop 76.2mm wide x 6mm thickness hand lay-up Pre-drilled holes
D	Bottom Hoop	787mm from centerline of ladder rung to inside of hoop 76.2mm wide x 6mm thickness hand lay-up Pre-drilled holes
E	Rung	∅25.4mm solid gritted rod, ∅32mm fluted tube available
F	Post	50.8x50.8x6mm thickness tube
G	Floor Mount Clip	101.6x101.6x9.5mm angle, 70mm long, Two per set
H	Bottom Wall Mount Bracket	76x203x9.5mm angle, 457mm long, Two per set
I	Wall Mount Bracket	76x203x9.5mm angle, 152mm long

## Advantages

IGRID™ Ladder and cage systems are produced by using a premium grade polyester resin with fire retardant and UV inhibitor additives. Hence, they are durable and long-lasting even under the harsh outdoor conditions.

The cage system is drilled and assembled immediately after fabrication so that field assembly is made much easier. Not only is installation efficiency greatly improved but also no welding is needed as well.

## Ladder and Accessory Specification

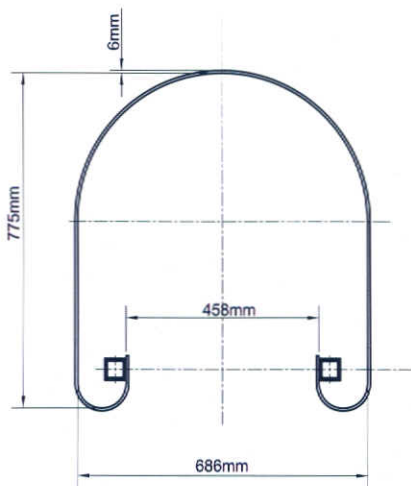
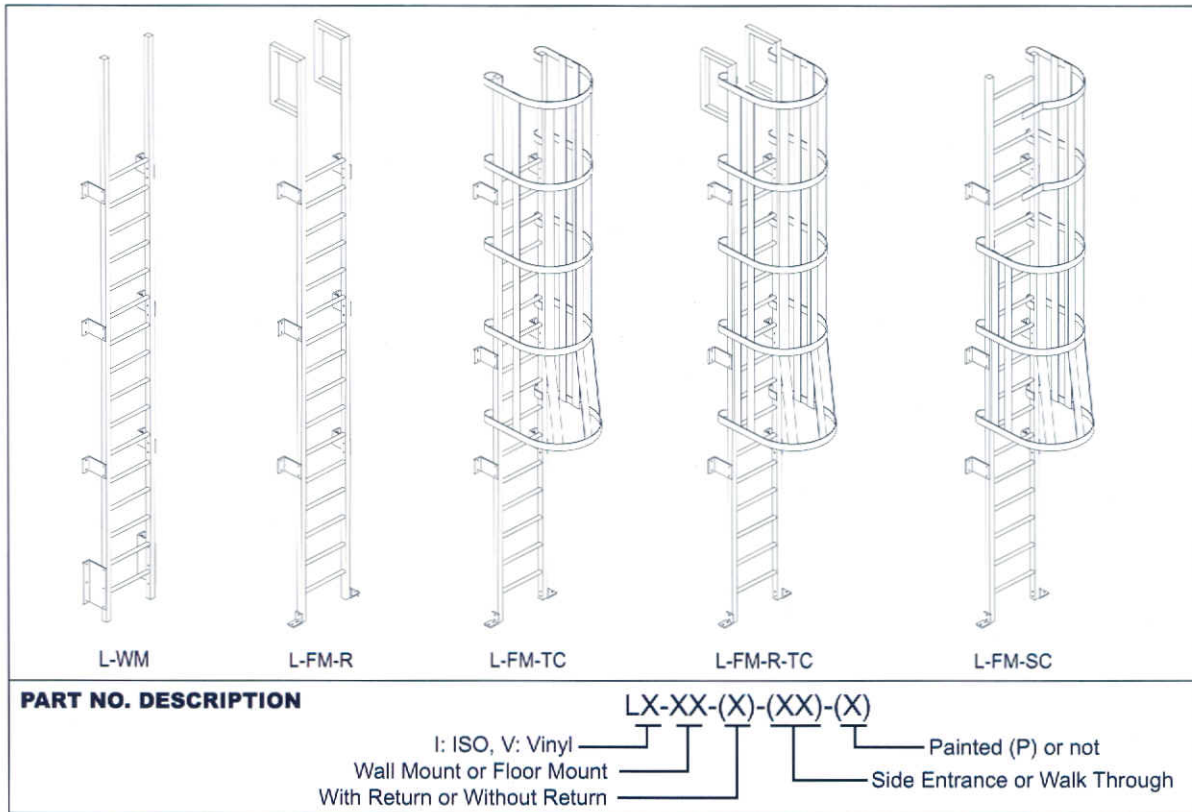
*All materials are Isophthalic polyester, fire retardant.*

Maximum length without splice	7000mm
Maximum ladder length with cage	10000mm
Inside width ( inside post to post )	457mm
Wall thickness of Post	6mm
Fasteners	SS304
Rung spacing ( center to center )	305mm

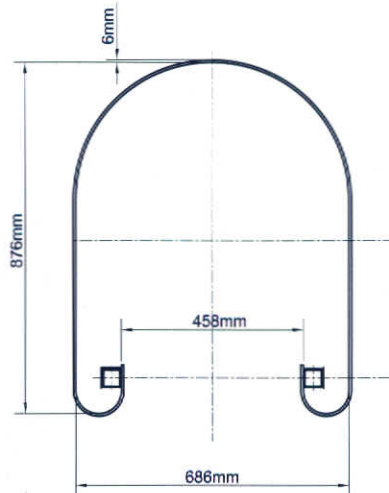


# IGRID™ FRP Ladder Installation

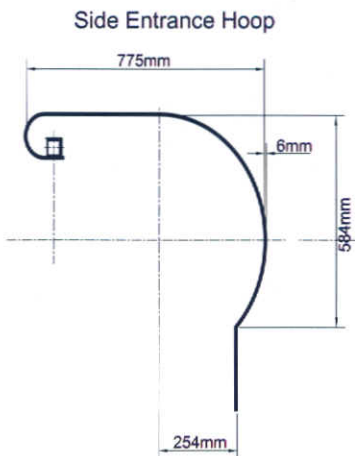
# Handrails, Ladders



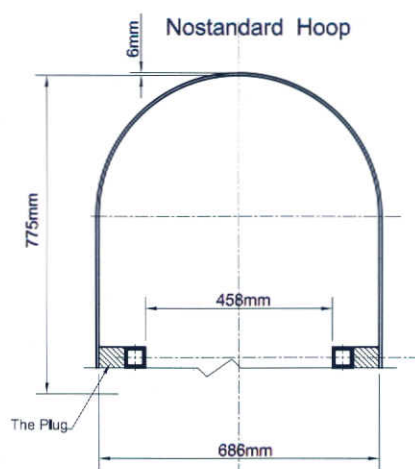
Standard Middle Hoop



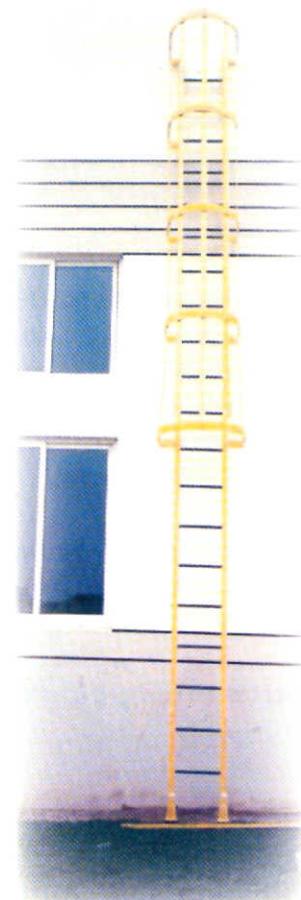
Standard Bottom Hoop



Side Entrance Hoop

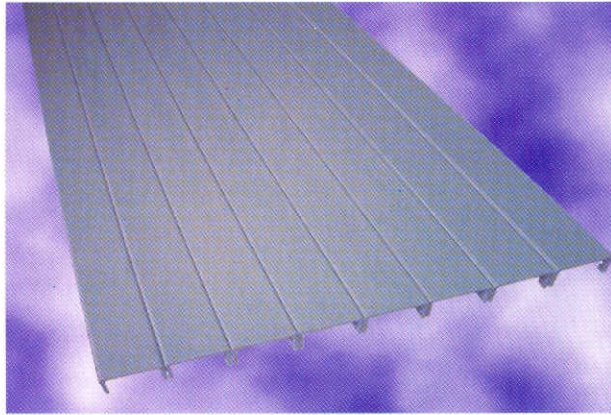


Nostandard Hoop





## IGRID™ Special Applications



### IGRID™ Plank Way

Suzhou Grating Co., Ltd. also supplies some other special products which can be used in such special areas as Plank way along cliff / lake, industrial fencing system where corrosion resistance is required. Pultruded structural shapes with UV (ultraviolet) inhibitors and synthetic surfacing will allow a resin rich surface to supply a way of outdoor application.

Products include C89 x 38 x 5mm, C 140 x 38 x 6mm channels which are mostly applied to replace the wooden plank way along the cliff or beside the lake, in order to reduce the cost of

replacing rotten wood board. FRP products are maintenance free with its corrosion resistance and easy installation.

IGRID™ channels can be gritted on top surface for optimal slip resistance with safety foot traffic consideration. Color can be custom selected as per end users' requirements.

\*\*\* Please contact us for maximum span allowance with footing structure design. Suzhou Grating Co., Ltd. can also give you suggestion of spanning requirement and deflection calculation.

### IGRID™ Fencing System

IGRID™ fencing system is specially designed for such areas where uninvited entry or trespass should be avoided. The typical applications are for industries or bussiness.

There are a great number of shapes that can be used for fencing system with UV inhibitor to get UV protection. Suzhou Grating Co., Ltd. can offer you a cost-effective design with cosideration of actual size required and for some aesthetic purpose according to project location and surrounding circumstances.

Pictures on the right show you two typical applications at industrial area. Top one is made up of round shapes and rectangular tube is used for the bottom fencing system.

Color can be changed according to custom reuquirements.





CHEMICAL ENVIRONMENT	% Concentration	Temp °C	IGRID MOLDED GRATING				IGRID PULTRUDED GRATING			
			VINYL	TRANSPARENT		ISO	GPI	VINYL		ISO
				VINYL	ISO			VINYL	ISO	
A	Acetic Acid	25	MAX	C	C	C	S	C	C	
	Acetic Acid	50	MAX	C	C	C	S	C	C	
	Aluminum Hydroxide	ALL	MAX	C	C	C	C	C	C	
	Ammonium Chloride	ALL	48.8	C	C	C	C	C	C	
	Ammonium Bicarbonate	15	48.8	C	C	C	S	C	S	
	Ammonium Bicarbonate	50	48.8	C	C	C	S	S	I	
	Ammonium Hydroxide	20	26.6	S	C	N	N	I	N	
Ammonium Sulfate	ALL	48.8	C	C	C	C	C	S		
B	Benzene	100	65.5	I	S	I	N	I	N	
	Benzoic Acid (SAT)	SAT	MAX	C	C	C	S	C	C	
	Borax (SAT)	SAT	MAX	C	C	C	S	C	S	
C	Calcium Carbonate	ALL	MAX	C	C	C	S	C	C	
	Calcium Nitrate	ALL	MAX	C	C	C	C	C	C	
	Carbon Tetrachloride	100	26.6	I	C	N	N	I	N	
	Chlorine, Dry Gas *	ALL	MAX	C	C	C	S	C	S	
	Chlorine Water (SAT)	SAT	48.8	C	C	I	N	I	N	
	Chromic Acid	50	65.5	I	S	N	N	I	N	
	Citric Acid	ALL	MAX	C	C	C	C	C	C	
	Copper Chloride	ALL	MAX	C	C	C	C	C	C	
	Copper Cyanide	ALL	60	C	C	S	I	S	I	
	Copper Nitrate	ALL	MAX	C	C	C	C	C	C	
	E	Ethanol	10	48.8	C	C	S	S	C	S
		Ethanol	50	48.8	C	C	I	I	C	I
Ethylene Glycol		ALL	65.5	C	C	C	S	C	S	
F	Ferric Chloride	100	MAX	C	C	C	C	C	C	
	Ferrous Chloride	ALL	MAX	C	C	C	C	C	C	
	Formaldehyde 0-50%	50	48.8	S	C	I	I	S	I	
G	Gasoline	ALL	48.8	C	C	C	S	C	S	
	Glucose	ALL	48.8	C	C	C	C	C	C	
	Glycerin	100	MAX	C	C	C	S	C	S	
H	Hydrobromic Acid	50	MAX	S	S	S	I	I	N	
	Hydrochloric Acid	10	MAX	C	C	S	S	S	S	
	Hydrochloric Acid	37	MAX	I	C	S	I	I	I	
	Hydrogen Peroxide	30	26.6	C	C	N	N	S	N	
L	Lactic Acid	100	MAX	C	C	C	C	C	C	
	Lithium Chloride (SAT)	SAT	MAX	N	C	N	N	N	N	
M	Magnesium Chloride	ALL	MAX	C	C	C	C	C	C	
	Magnesium Nitrate	ALL	MAX	C	C	C	C	C	C	
	Magnesium Sulfate	ALL	MAX	C	C	C	C	C	C	
	Mercuric Chloride	ALL	MAX	C	C	C	C	C	C	
	Mercurous Chloride	ALL	MAX	C	C	C	S	C	S	
N	Nickel Chloride	ALL	MAX	C	C	C	C	C	C	
	Nickel Sulfate	ALL	MAX	C	C	C	C	C	C	
	Nitric Acid	20	48.8	S	C	S	I	I	I	
O	Oxalic Acid	ALL	65.5	C	C	C	S	C	S	
P	Perchloric Acid	30	32.2	S	C	I	I	I	I	
	Phosphoric Acid	80	MAX	C	C	C	C	C	S	
	Potassium Chloride	ALL	MAX	C	C	C	C	C	C	
	Potassium Dichromate	ALL	MAX	C	C	C	C	C	C	
	Potassium Nitrate	ALL	MAX	C	C	C	C	C	C	
	Potassium Sulfate	ALL	MAX	C	C	C	C	C	C	
	Propylene Glycol	ALL	MAX	C	C	C	S	C	S	
S	Sodium Acetate	ALL	MAX	C	C	C	C	C	C	
	Sodium Bisulfate	ALL	26.6	S	C	S	I	C	I	
	Sodium Bromide	ALL	26.6	C	C	C	C	C	C	
	Sodium Cyanide	ALL	26.6	C	C	I	I	S	I	
	Sodium Hydroxide	10	MAX	C	C	I	N	I	N	
	Sodium Hydroxide	50	MAX	S	C	N	N	N	N	
	Sodium Nitrate	ALL	MAX	C	C	C	C	C	C	
	Sodium Sulfate	ALL	MAX	C	C	C	C	C	C	
	Sulfuric Acid	10	MAX	C	C	S	S	C	S	
	Sulfuric Acid	25	MAX	C	C	S	S	S	I	
	Sulfuric Acid	75	37.7	C	C	I	I	I	N	
T	Tartaric Acid	ALL	MAX	C	C	C	S	C	S	
V	Vinegar	ALL	MAX	C	C	C	S	C	S	
W	Water, Distilled	ALL	MAX	C	C	C	C	C	C	
Z	Zinc Nitrate	100	MAX	C	C	C	C	C	C	
	Zinc Sulfate	100	MAX	C	C	C	C	C	C	

C - Continuous exposure of the grating to the Chemical Environment listed at the temperature listed.

S - Frequent exposure of the grating to splashes and spills the Chemical Environment listed with that environment at the temperature listed .

I - Infrequent exposure of the grating to splashes and spills from the Chemical Environment listed with that environment at the temperature listed and the spill immediately cleaned up or washed from the grating .

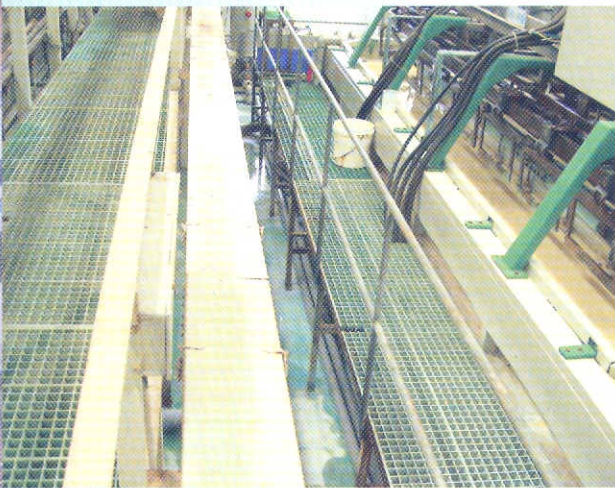
N - Not recommended for the concentrations and temperatures listed .

T - Test

MAX temperature is 115°C for transparent Vinyl molded grating ,85°C for molded Vinyl and pultruded Vinyl grating,71.1°C for molded ISO and pultruded ISO grating , 65.5°C for molded GPI grating.

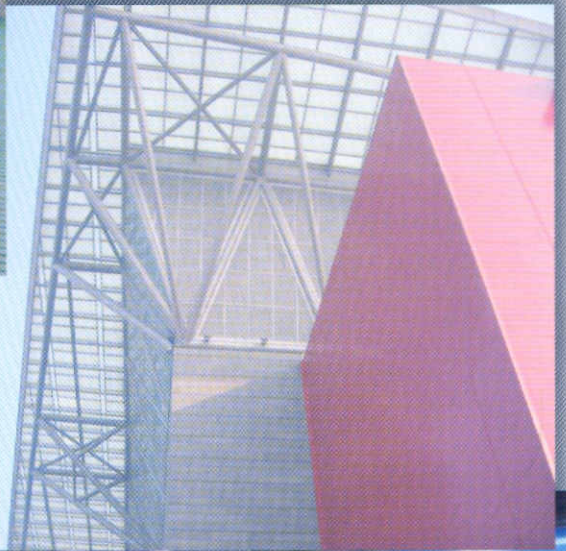
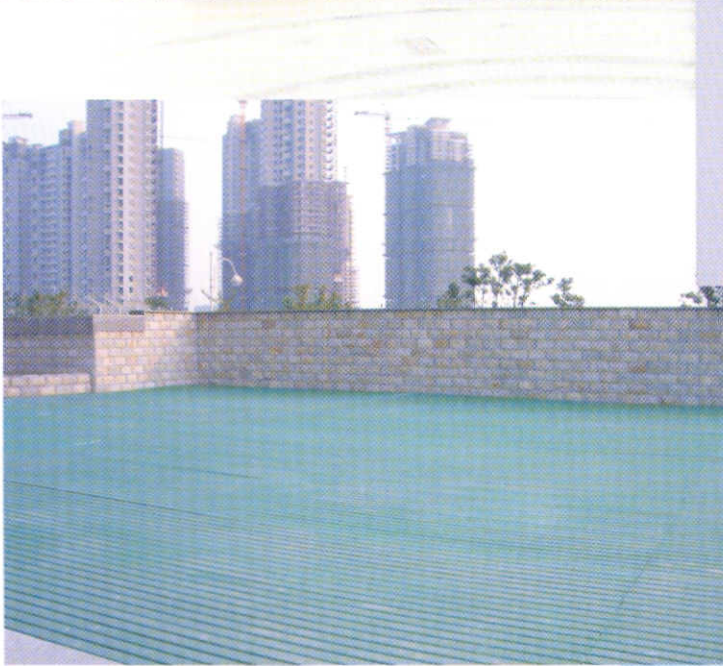


# Applications





# Applications





## WARRANTY

THE WARRANTY OF A ONE-YEAR PERIOD FROM DATE OF SHIPMENT IS GIVEN TO EACH PURCHASER OF A PRODUCT PROVIDED BY THE COMPANY, ON CONDITION THAT THE PRODUCT CONFORMS TO THE APPLICABLE SPECIFICATIONS AND IS FREE OF DEFECTS IN MATERIALS AND WORKMANSHIP WITHIN THE CONTROL OF COMPANY.

## DISCLAIMER OF WARRANTY

ALL WARRANT OBLIGATIONS OF COMPANY AND ALL REMEDIES, RELIEF AND MEASURE OF DAMAGES AGAINST COMPANY ARE LIMITED EXCLUSIVELY TO REPAIR OR REPLACEMENT OF ANY DEFECT PRODUCT OR REFUND OF PURCHASE PRICE OF DEFECT PRODUCT (AT COMPANY'S SOLE OPTION); AND ALL CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES (INCLUDING BUT WITHOUT LIMITATION, LABOR, LOSS OF USE OR PROFITS, TRANSPORTATION, INCREASED EXPENSES OF OPERATION, OR DAMAGE TO PERSONS OR PROPERTY) RESULTING FROM THE BREACH OF ANY WARRANTY OBLIGATION OF COMPANY ARE EXCLUDED. THE FOREGOING LIMITED WARRANTY IS IN LIEU OF AND COMPANY DISCLAIMS ANY AND ALL OTHER WARRANTIES, TO PURCHASER OR OTHERWISE, IMPLICIT OR EXPLICIT, ORAL OR WRITTEN, ARISING BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE OR OTHERWISE, INCLUDING BUT WITHOUT LIMITATION ALL WARRANTIES AS TO CONDITION, DESIGN, OPERATION, USE, QUALITY, CAPACITY, INSTALLATION, WORKMANSHIP, SERVICING, LATENT DEFECTS, COMPLIANCE WITH ANY LAW, ORDINANCE, RULE, CONTRACT, REGULATION OR SPECIFICATION, "MERCHANTABILITY" FITNESS FOR ANY PARTICULAR PURPOSE, AND ALL OTHER QUALITIES AND CHARACTERISTICS WHATSOEVER.

NO DEALER, AGENT OR EMPLOYEE OF COMPANY IS AUTHORIZED TO MAKE ANY MODIFICATION, EXTENSIONS OR ADDITION TO THE LIMITED WARRANTIES. COMPANY MAKES NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND WHETHER EXPRESS OR IMPLIED (EITHER IN FACT OR BY OPERATION OF LAW) WITH RESPECT TO THE PRODUCT PROVIDED BY COMPANY. COMPANY EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES OF NONINFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. COMPANY MAY HAVE OTHER STATUTORY RIGHTS. HOWEVER, TO THE FULL EXTENT PERMITTED BY LAW, THE DURATION OF STATUTORY REQUIRED WARRANTIES, IF ANY, SHALL BE LIMITED TO THE ABOVE LIMITED WARRANTY PERIOD. HOWEVER, IN NO EVENT WILL WARRANTIES PROVIDED BY LAW, IF ANY, APPLY UNLESS THEY ARE REQUIRED TO APPLY BY STATUTE.

### Contact:

Address: 63 Fengting Avenue, Weiting, Suzhou Industrial Park,  
Suzhou, Jiangsu, China 215122

Tel: 00(86)-512-88858888, 88858897

Fax: 00(86)-512-62745888

Email: [service@szgrating.com](mailto:service@szgrating.com)

Website: [www.szgrating.com](http://www.szgrating.com)



Unit E, 18/FI., Phase 2,  
Kingsford Industrial Bldg.,  
26-32 Kwai Hei St., Kwai Chung,  
N.T., Hong Kong  
Tel : 2409 6999 Fax : 2419 0033  
Email : [info@vantek-hk.com](mailto:info@vantek-hk.com)  
Website : [www.vantek-hk.com](http://www.vantek-hk.com)

香港新界葵涌葵喜街26-32號金發工業大廈2期18樓E室

