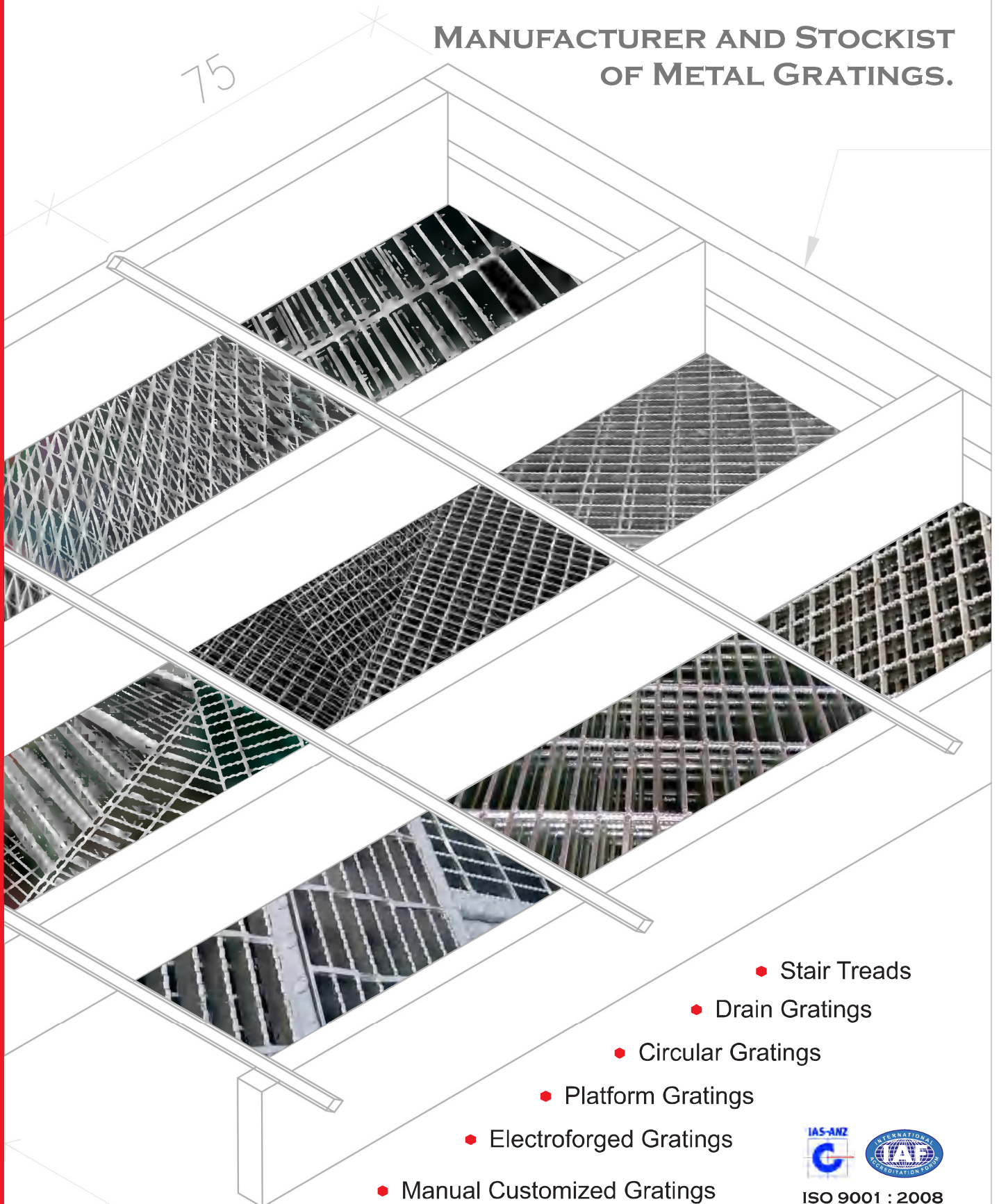


MEET ENGINEERING

MANUFACTURER AND STOCKIST
OF METAL GRATINGS.



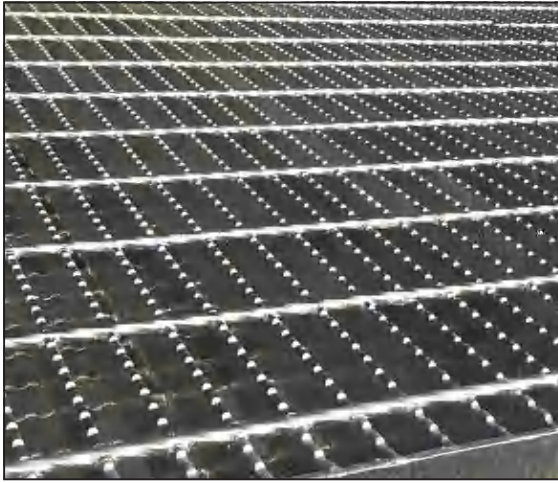
- Stair Treads
- Drain Gratings
- Circular Gratings
- Platform Gratings
- Electroforged Gratings
- Manual Customized Gratings



ISO 9001 : 2008

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TYPE OF GRATINGS

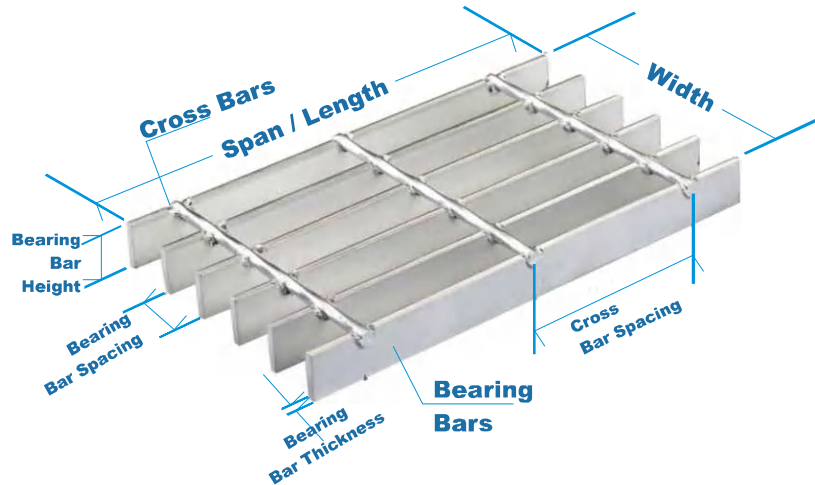


SERRATED GRATING



PLAIN GRATING

NOMENCLATURE OF GRATINGS + PRODUCT SPECIFICATIONS



■ **BEARING BAR OR LOAD BEARING BAR :**

These bars support the load put on the grating and they are made from low carbon steel grade IS 2062 Gr A / ASTM A36 and welded with frame bar. Height of Bearing Bar is Considered as a height of gratings.

■ **CROSS BAR OR SECONDARY BAR :**

They are positioned transversely across bearing bars and are welded into them at their inter section point to provide lateral restraint. In steel Gratings, These are made of square twisted wire rod from low carbon grade steel of SAE 1008 or IS 1786.

■ **MESH :**

It is the distance between two adjacent bearing bars and cross bars.

■ **EDGE BINDING OR FRAME BAR :**

Bar fixed to the edge of the gratings and flush with the top bearing bar.

■ **SPAN / LENGTH :**

Total length between the supports, i.e. the extreme ends of the bearing bars. It is measured parallel to the bearing bar. (Length of the load bearing bar).

■ **WIDTH :**

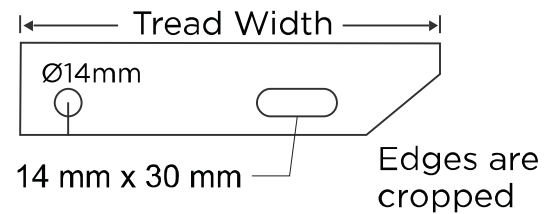
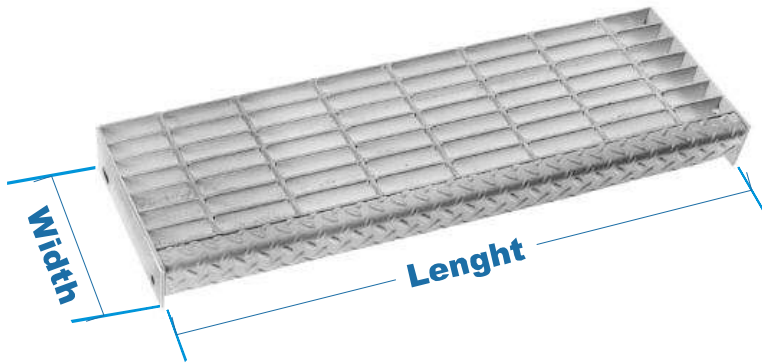
It is the overall width of the measuring 90° to the load bearing bar.

■ **CUT OUTS:**

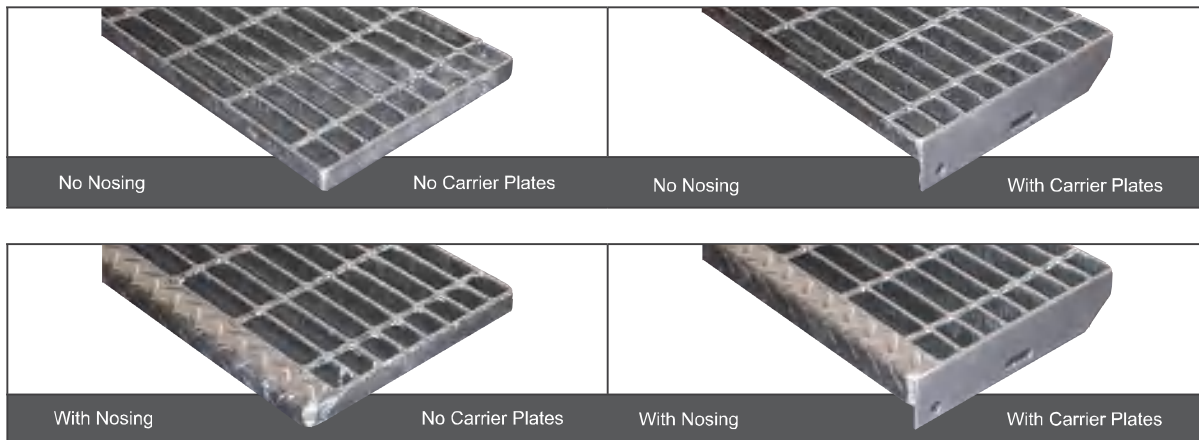
The area of the gratings removed to allow structure, pipe, plant, obstruction or handrails to be fitted in.



STAIR TREADS



CARRIER PLATES

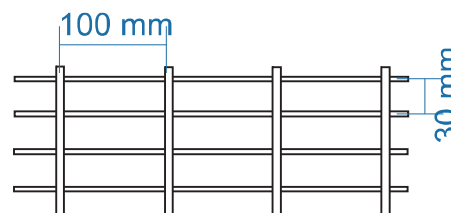


REQUIRED SPECIFICATION WHILE ORDERING GRATINGS

- **Materials :**
Mild Steel, Stainless Steel.
- **Size of Frame Bar :**
25 x 5 mm, 25 x 6 mm, 30 x 5 mm, 30 x 6 mm, 40 x 5 mm, 40 x 6 mm, 50 x 6 mm, 75 x 8 mm, 75 x 10 mm or as per design requirement.
- **Size of Bearing Bar :**
25 x 3 mm, 25 x 5 mm, 25 x 6 mm, 30 x 3 mm, 30 x 5 mm, 30 x 6 mm, 40 x 5 mm, 40 x 6 mm, 50 x 6 mm, 75 x 8 mm, 75 x 10 mm or as per design requirement.
- **Size of Cross Bar :**
6, 8, 10 mm Square Twisted Bar (Across), 8, 10, 12 mm TMT Round or Round Rod, 12 x 3 mm, 20 x 3 mm, 20 x 5 mm, 20 x 6 mm, 25 x 5 mm, 25 x 6 mm, 30 x 5 mm, 40 x 5 mm Flat or as per design requirement.
- **Type of Grating:**
Plain or Serrated (Electro forged or Manual)
- **Size / Dimension of Grating:**
Standard 1 mtr x 1 mtr Manual, 1 mtr x 6 mtr Electroforged or as per Client Requirement.
- **Type of Nosing At Stairs:**
Size of Nosing Angle (Plain or Chequered) 35 x 35 x 3 mm, 40 x 40 x 3 mm, 35 x 35 x 5 mm, 40 x 40 x 5 mm Regular size.
- **Welding:**
Standard all 4 corners full welding, Bearing bar to cross bar tack welding, Bearing bar to frame bar every fifth member full welding for electro forged and alternative for one side for manual gratings or as Per Client Requirement.
- **Finishing:** Hot Dip Galavnizing, Redoxide, Painted, or Black Condition.

GRATING with load Bearing bars @ 30 mm centres & Cross bars @ 100

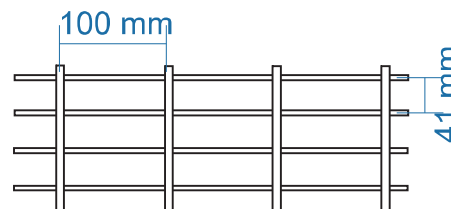
We provide grating in both Manual Welded and electro forge-welded in mild steel. This Type grating has high load carrying capacity and is available in the following options:



Bearing Bar Size in mm	Units	SPAN / LENGTH												
		300	450	600	750	900	1000	1200	1350	1500	1650	1800	1950	2000
25x3	kg/m ²	17505	7780	4377	2575	1490	1086	628	136	322	242	187	147	136
	D(mm)	0.65	1.47	2.61	3.75	4.5	5	6	6.75	7.5	8.25	9	9.75	10
30x3	kg/m ²	25207	11203	6302	4033	2575	1877	1086	763	556	418	322	253	235
	D(mm)	0.54	1.22	2.18	3.4	4.5	5	6	6.75	7.5	8.25	9	9.75	10
40x3	kg/m ²	44813	19917	11203	7170	4979	4033	2575	1808	1318	990	763	600	556
	D(mm)	0.41	0.92	1.63	2.55	3.67	4.53	6	6.75	7.5	8.25	9	9.75	10
25x5	kg/m ²	29175	12967	7294	4291	1463	1810	1047	736	536	403	310	244	226
	D(mm)	0.65	1.47	2.61	3.75	4.5	5	6	6.75	7.5	8.25	9	9.75	10
30x5	kg/m ²	42012	18672	10503	6722	4291	3128	1810	1272	927	696	536	422	900
	D(mm)	0.54	1.22	2.18	3.4	4.5	5	6	6.75	7.5	8.25	9	9.75	10
32x5	kg/m ²	46396	20190	11676	7648	4813	3773	2177	1529	1117	837	648	507	470
	D(mm)	0.5	1.1	2.01	3.21	4.2	5	6	6.75	7.5	8.25	9	9.75	10
40x5	kg/m ²	74687	33194	18672	11950	8344	6722	4291	3014	2197	1651	1272	1000	927
	D(mm)	0.41	0.92	1.63	2.55	3.67	4.53	6	6.75	7.5	8.25	9	9.75	10
50x5	kg/m ²	116699	51866	29175	18672	12967	10503	7294	5763	4291	3224	2483	1953	1810
	D(mm)	0.33	0.73	1.31	2.04	2.94	3.63	5.22	6.61	7.75	8.25	9	9.75	10

GRATING with load Bearing bars @ 41 mm centres & Cross bars @ 100

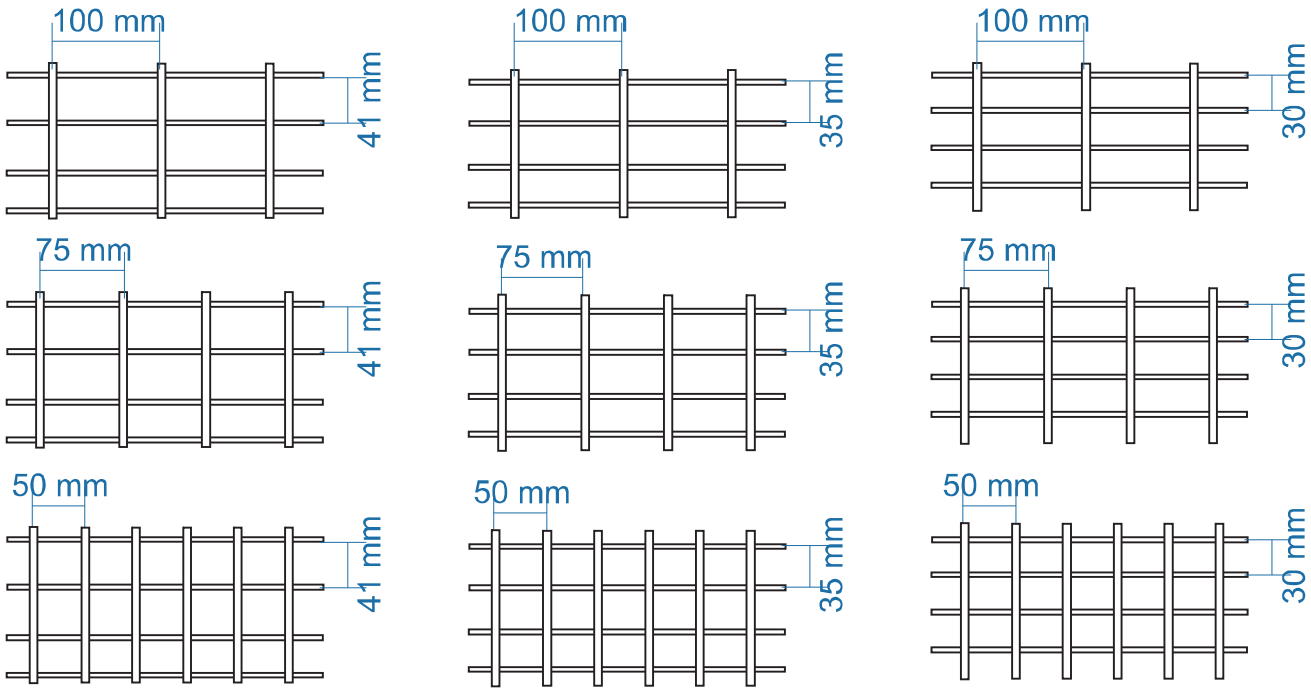
We provide grating in both Manual Welded and electro forge-welded in mild steel. This Type grating has high load carrying capacity and is available in the following options:



Bearing Bar Size in mm	Units	SPAN / LENGTH												
		300	450	600	750	900	1000	1200	1350	1500	1650	1800	1950	2000
25x3	kg/m ²	12945	5753	3237	1904	1102	804	465	326	238	178	138	108	100
	D(mm)	0.65	1.47	2.61	3.75	4.5	5	6	6.75	7.5	8.25	9	9.75	10
30x3	kg/m ²	18641	8285	4660	2983	1904	1388	804	564	411	309	238	188	173
	D(mm)	0.54	1.22	2.18	3.4	4.5	5	6	6.75	7.5	8.25	9	9.75	10
40x3	kg/m ²	33140	14582	8285	5302	3682	2983	1904	1337	975	732	564	444	411
	D(mm)	0.41	0.92	1.63	2.55	3.67	4.53	6	6.75	7.5	8.25	9	9.75	10
25x5	kg/m ²	21576	9589	5394	3173	1836	1339	720	545	397	298	229	180	167
	D(mm)	0.65	1.47	2.61	3.75	4.5	5	6	6.75	7.5	8.25	9	9.75	10
30x5	kg/m ²	31068	13808	7767	4971	3173	2314	1339	940	685	515	397	312	290
	D(mm)	0.54	1.22	2.18	3.4	4.5	5	6	6.75	7.5	8.25	9	9.75	10
32x5	kg/m ²	36199	14888	8565	5608	3538	2768	1601	1124	820	616	474	373	346
	D(mm)	0.5	1.1	2.01	3.21	4.2	5	6	6.75	7.5	8.25	9	9.75	10
40x5	kg/m ²	55233	24548	13808	8838	6137	4971	3173	2229	1624	1221	940	739	685
	D(mm)	0.41	0.92	1.63	2.55	3.67	4.53	6	6.75	7.5	8.25	9	9.75	10
50x5	kg/m ²	86301	38356	21576	13808	9589	7767	5394	4261	3173	2384	1836	1445	1339
	D(mm)	0.33	0.73	1.31	2.04	2.94	3.63	5.22	6.61	7.75	8.25	9	9.75	10

Safe Uniformly distributed loads (U.D.L.) in kg per square metre on simply supported panels with deflections (D) in mm. Based on a maximum Load table is made considering permissible stress of 165 Kg/mm² which allows for a safety factor of 1.6.

Standard Mesh of Gratings



Approximate Weight Chart For Standard Mesh Size of Grating (KG/SQM)

BEARING BAR SIZE											
Mesh Size	25x3	30x3	40x3	25x5	30x5	32x5	40x5	50x5	25x6	30x6	40x6
41x100	20.00	23.00	29.00	30.00	35.00	37.00	45.00	55.50	35.00	41.00	53.50
35x100	22.00	25.50	33.00	34.00	40.00	42.00	51.50	63.50	40.00	47.00	61.00
30x100	25.00	29.00	37.00	38.50	45.00	48.00	58.50	72.00	45.00	53.00	69.50
41x75	21.50	24.50	30.50	31.50	37.00	39.00	47.00	57.00	37.00	43.00	55.00
35x75	24.00	27.00	34.50	35.50	41.50	44.00	53.00	65.00	41.50	48.50	62.50
30x75	26.50	30.00	38.50	40.00	47.00	49.50	60.00	74.00	47.00	55.00	71.00
41x50	24.50	27.50	34.00	35.00	40.00	42.00	50.00	60.50	40.00	46.00	58.00
35x50	27.00	30.50	37.50	39.00	44.50	47.00	56.50	68.00	44.50	51.50	66.00
30x50	29.50	33.50	42.00	43.00	50.00	52.50	63.50	77.00	50.00	56.00	74.50
41x41	26.50	30.00	36.00	37.00	42.00	44.00	52.00	62.50	42.00	48.00	60.50

The above weight are considering Cross bar size of square twisted 6 mm for 3 mm thick Bearing Bar & 8 mm for 5/6 mm thick Bearing Bar. Standard Thickness of 5/6 mm Considered for Frame Bar. Weight shown are approximate with in tolerance of +-5% (kg).



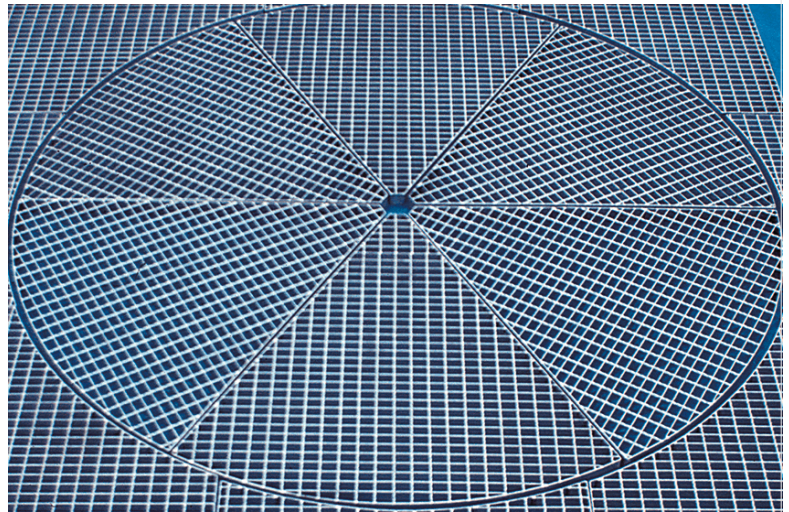
GRATING APPLICATIONS

- Equipment Platform
- Industrial Floorings
- Maintenance Walkways
- Drain covers – Drain Gratings
- Stairway and Catwalks
- Marine Industries
- Operating Platforms
- Power plant
- Stair treads
- Tank Landings



ADVANTAGES OF STEEL GRATING

- Corrosion resistant
- Fire retardant
- High impact strength
- Easy to install
- Maintenance Free
- Safe & Long Lasting
- With serration notches made on tip of the load bearing bar improves skid resistance.



GRATING FIXING CLAMPS

Universal type 3 piece grating fixing clamps are suitable for all major type of gratings from 30 mm cc to 45 mm cc



OTHER PRODUCTS



- Hand Rails & Stairs.
- Cable Tray.
- Structural Works.
- Anchor Flange.
- Anchor / Foundation Bolts.
- Deflector Plate.
- Insulating Gasket Kit.

WORKING UNDER ALL MAJOR TPI AGENCIES

- TUV NORD, TUV SUD, BUREAU VERITAS,
- DNV, TATA, SGS, IRS, LLOYDS, RINA, BAX COUNSCL

MAJOR CLIENTS / END USER SERVED

- Gas Authority of India Ltd.
- Oil & Natural Gas Corporation.
- Indian Oil Corporation.
- Hindustan Petroleum Ltd.
- Bharat Oman Refinery.
- Reliance Industries Ltd.
- Hindustan Petroleum Mittal Refinery Ltd.
- TATA Projects Ltd.
- Bygging India Ltd.
- Black & Veatch.
- Larson & Toubro Ltd.
- Cairn India Ltd.
- Bridge & Roof Company (I) Ltd.
- IOT Anwasha Engineering Ltd.
- Mackenzie Hydro Carbon Pty Ltd.
- Adani Power Ltd.
- Lanxess India Pvt. Ltd.
- Meghmani Industries Ltd.
- Gujarat Flurochemicals Ltd.
- Deepak Nitrite Ltd.





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