

MANUFACTURER OF
METAL GRATINGS

- ELECTROFORGED GRATINGS
- MANUAL CUSTOMIZED GRATINGS
- CIRCULAR GRATINGS
- STAIR TREADS
- PLATFORM GRATINGS
- DRAIN GRATINGS

SPECIALIST IN

- HOT DIP GALVANIZED GRATINGS
- SS AND ALUMINIUM GRATINGS
- HEAVY DUTY GRATINGS
- PAINTED GRATINGS

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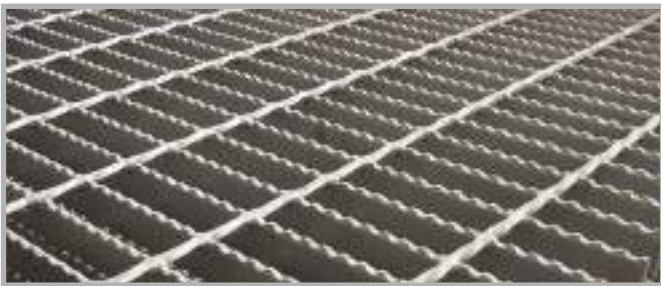
ISO CERTIFICATIONS

ENVIRONMENTAL MANAGEMENT
SYSTEM 14001:2015

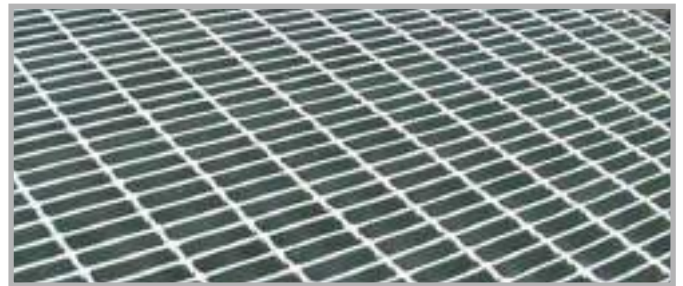
QUALITY MANAGEMENT
SYSTEM 9001:2015

OCCUPATIONAL HEALTH
AND SAFETY MANAGEMENT
SYSTEM 45001:2018

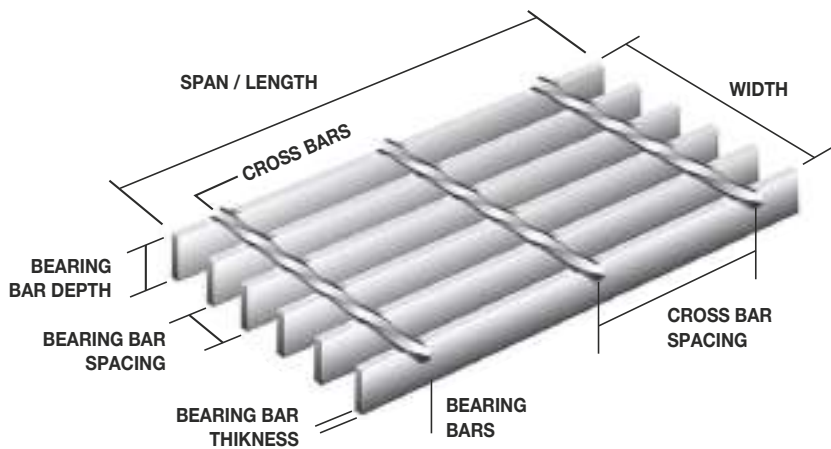
TYPES OF GRATINGS



SERRATED GRATINGS



PLAIN GRATINGS



■ 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 GrA/ASTM A36 and welded with frame bar. Height of Bearing Bar is Considered as 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/ IS 7887:1992

■ MESH

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

■ SPAN/LENGTH

It indicates the length of the Grating panels along the direction of the load bearing bars

■ EDGE BINDING OR FRAME BAR

The Flat bars welded to the open edges of Grating Panel

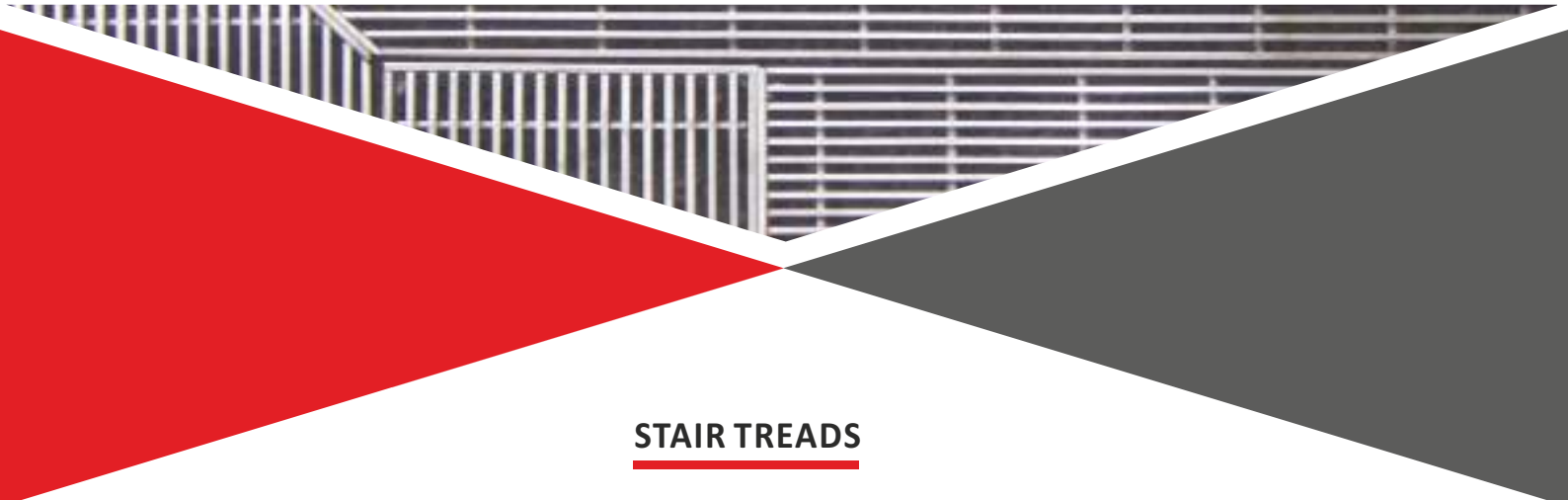
■ WIDTH

Width is measured perpendicular to the bearing bars and across the length of the panel.

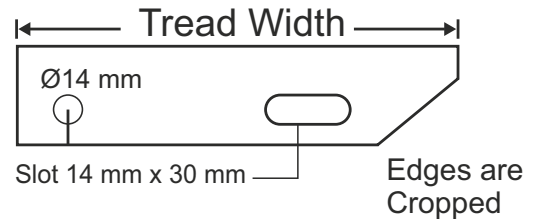
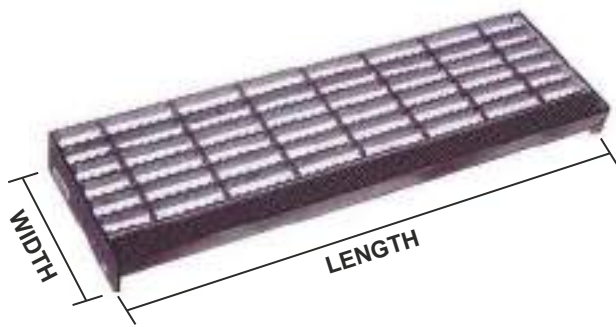
■ CUT OUTS

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

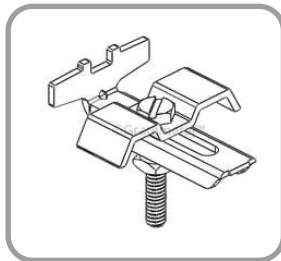




STAIR TREADS



GRATINGS CLAMPS



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, 32 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,
32 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 :**

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.

■ **Standard Mesh of Gratings:**

30 x 100, 75, 50 mm C/C • 35 x 100, 75, 50 mm C/C
41 x 100, 75, 50 mm C/C

■ **Type of Gratings :**

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.

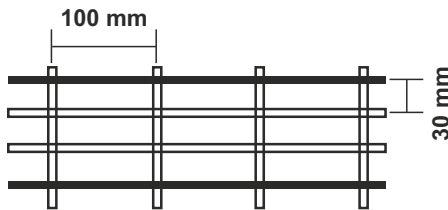
■ **Welding :**

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.

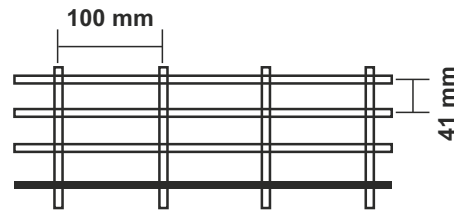
■ **Finishing :**

Hot Dip Galvanized, Painted or Self Finish.

GRATINGS with Load Bearing Bars @ 30mm centres and Cross Bars @ 100



GRATINGS with Load Bearing Bars @ 41mm centres and Cross Bars @ 100



We provide Gratings in both Manual Welded and Electro Forged-Welded in Mild Steel. This type Gratings has high load carrying capacity and is available in the following options :

GRATINGS with Load Bearing Bars @ 30mm centres and Cross Bars @ 100

| Bearing Bar size in mm | Units | SPAN / LENGTH | | | | | | | | | | | | |
|------------------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|-----------|--------------|------------|
| | | 300 | 450 | 600 | 750 | 900 | 1000 | 1200 | 1350 | 1500 | 1650 | 1800 | 1950 | 2000 |
| 25 x 3 | kg/m2 D(mm) | 17505 0.65 | 7780 1.47 | 4377 2.61 | 2575 3.75 | 1490 4.5 | 1086 5 | 628 6 | 136 6.75 | 322 7.5 | 242 8.25 | 187 9 | 147 9.75 | 136 10 |
| 30 x 3 | kg/m2 D(mm) | 25207 0.54 | 11203 1.22 | 6302 2.18 | 4033 3.4 | 2575 45 | 1877 5 | 1086 6 | 763 6.75 | 556 7.5 | 418 8.25 | 322 9 | 253 9.75 | 235 10 |
| 40 x 3 | kg/m2 D(mm) | 44813 0.41 | 19917 0.92 | 11203 1.63 | 7170 2.55 | 4979 3.67 | 4033 4.53 | 2575 6 | 1808 6.75 | 1318 7.5 | 990 8.25 | 763 9 | 600 9.75 | 556 10 |
| 25 x 5 | kg/m2 D(mm) | 29175 0.65 | 12967 1.47 | 7294 2.61 | 4291 3.75 | 1463 4.5 | 1810 5 | 1047 6 | 736 6.75 | 536 7.5 | 403 8.25 | 310 9 | 244 9.75 | 226 10 |
| 30 x 5 | kg/m2 D(mm) | 42012 0.54 | 18672 1.22 | 10503 2.18 | 6722 3.4 | 4291 4.5 | 3128 5 | 1810 6 | 1272 6.75 | 927 7.5 | 696 8.25 | 536 9 | 422 9.75 | 900 10 |
| 32 x 5 | kg/m2 D(mm) | 46396 0.5 | 20190 1.1 | 11676 2.01 | 7648 3.21 | 4813 4.2 | 3773 5 | 2177 6 | 1529 6.75 | 1117 7.5 | 837 8.25 | 648 9 | 307 9.75 | 470 10 |
| 40 x 5 | kg/m2 D(mm) | 74687 0.41 | 33194 0.92 | 18672 1.63 | 11950 2.55 | 8344 3.67 | 6722 4.53 | 4291 6 | 3014 6.75 | 2197 7.5 | 1651 8.25 | 1272 9 | 1000 9.75 | 927 10 |
| 50 x 5 | kg/m2 D(mm) | 116699 0.33 | 51866 0.73 | 29175 1.31 | 18672 2.04 | 12967 2.94 | 10503 3.63 | 7294 5.22 | 5763 6.61 | 4291 7.75 | 3224 8.25 | 2483 9 | 1953 9.75 | 1810 10 |

GRATINGS with Load Bearing Bars @ 41mm centres and Cross Bars @ 100

| Bearing Bar size in mm | Units | SPAN / LENGTH | | | | | | | | | | | | |
|------------------------|----------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------|--------------|------------|
| | | 300 | 450 | 600 | 750 | 900 | 1000 | 1200 | 1350 | 1500 | 1650 | 1800 | 1950 | 2000 |
| 25 x 3 | kg/m2 D(mm) | 12945 0.65 | 5753 1.47 | 3237 2.61 | 1904 3.75 | 1102 4.5 | 804 5 | 465 6 | 326 6.75 | 238 7.5 | 178 8.25 | 138 9 | 108 9.75 | 100 10 |
| 30 x 3 | kg/m2 D(mm) | 18641 0.54 | 8285 1.22 | 4660 2.18 | 2983 3.4 | 1904 4.5 | 1388 5 | 804 6 | 564 6.75 | 411 7.5 | 309 8.25 | 238 9 | 188 9.75 | 173 10 |
| 40 x 3 | kg/m2 D(mm) | 33140 0.41 | 14582 0.92 | 8285 1.63 | 5302 2.55 | 3682 3.67 | 2983 4.53 | 1904 6 | 1337 6.75 | 975 7.5 | 732 8.25 | 564 9 | 444 9.75 | 411 10 |
| 25 x 5 | kg/m2 D(mm) | 21576 0.65 | 9589 1.47 | 5394 2.61 | 3173 3.75 | 1836 4.5 | 1339 5 | 720 6 | 545 6.75 | 397 7.5 | 298 8.25 | 229 9 | 180 9.75 | 167 10 |
| 30 x 5 | kg/m2 D(mm) | 31068 0.54 | 13808 1.22 | 7767 2.18 | 4971 3.4 | 3173 4.5 | 2314 5 | 1339 6 | 940 6.75 | 685 7.5 | 515 8.25 | 397 9 | 312 9.75 | 290 10 |
| 32 x 5 | kg/m2 D(mm) | 36199 0.5 | 14888 1.1 | 8565 2.01 | 5608 3.21 | 3538 4.2 | 2768 5 | 1601 6 | 1124 6.75 | 820 7.5 | 616 8.25 | 474 9 | 373 9.75 | 346 10 |
| 40 x 5 | kg/m2 D(mm) | 55233 0.41 | 24548 0.92 | 13808 1.63 | 8838 2.55 | 6137 3.67 | 4971 4.53 | 3173 6 | 2229 6.75 | 1624 7.5 | 1221 8.25 | 940 9 | 739 9.75 | 685 10 |
| 50 x 5 | kg/m2 D(mm) | 86301 0.33 | 38356 0.73 | 21576 1.31 | 13808 2.04 | 9589 2.94 | 7767 3.63 | 5394 5.22 | 4261 6.61 | 3173 7.75 | 2384 8.25 | 1836 9 | 1445 9.75 | 1339 10 |

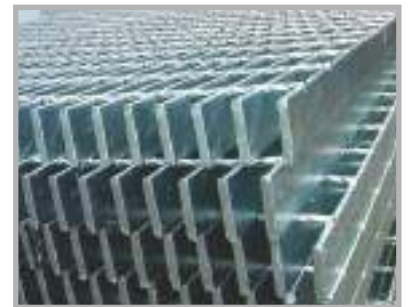
Safe Uniformly distributed loads (U.D.L.) in kg per square metre on simply supported panels with deflections (D) in mm. Based on a maximum Load, the Load table is made considering permissible stress of 165 Kg/mm² which allows for a safety factor of 1.6.

GRATINGS APPLICATIONS

- Operating Platforms
- Stair Treads
- Equipment Platform
- Industrial Floorings
- Maintenance Walkways
- Drain Covers - Drain Gratings
- Stairway and Catwalks
- Marine Industries
- Power Plants
- Tank Landings

ADVANTAGES OF STEEL GRATINGS

- High Impact Strength
- Maintenance Free
- Fire Retardant
- Corrosion Resistant
- Easy To Install
- Safe and Long Lasting
- With serration notches made on top of the load bearing bar improves skid resistance





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