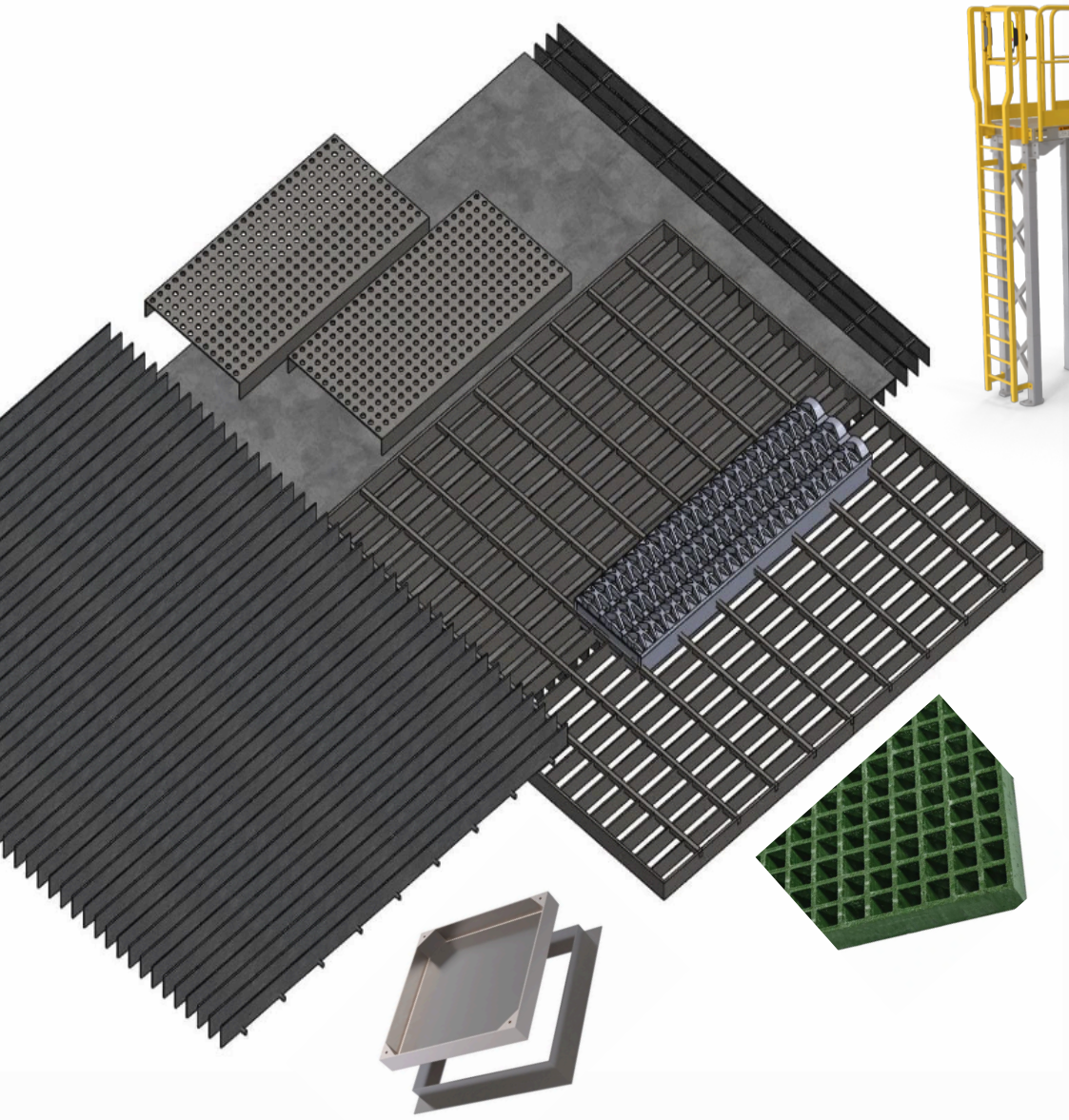
FERROGRATE





www.ferrograte.com

AJMAN, UNITED ARAB EMIRATES



ABOUT US

Ferrograte, established in the year 2002, has emerged to be one of the global leaders in manufacturing & supply of engineering access products. By closely understanding the market needs and demands, Ferrotech is expanding its products range year after year to serve its clients with the right quality products.

OUR PRESENCE

SAUDI - 2023	METAL TECH ARABIA MANUFACTURING CO.
INDIA - 2023	INDUROTECH COMPOSITES PVT LTD
UAE - 2022	INOX INFRATECH METAL INDUSTRIES
SINGAPORE - 2016	FERROTECH FAR EAST PTE LTD
SAUDI - 2013	SAUDIGRATE W.LL (OMAN GRATING TRADING CO.)
OMAN - 2012	FERROTECH ENGINEERING LLC
INDIA - 2011	FERROTECH STRUCTURALS INDIA PVT LTD
OMAN - 2008	DUBAI ENTERPRISES MODERN TRADING
UAE - 2002	FERROTECH INTERNATIONAL FZE



FERROTECH STRUCTURALS (INDIA) PVT. LTD - UNIT I
LOCATION: CHENNAI, INDIA



FERROTECH STRUCTURALS (INDIA) PVT. LTD - UNIT II
LOCATION: PUNE, INDIA



FERROTECH ENGINEERING LLC
LOCATION: SOHAR, OMAN



INDUROTECH COMPOSITES PVT. LTD.
LOCATION: MADURAI, INDIA



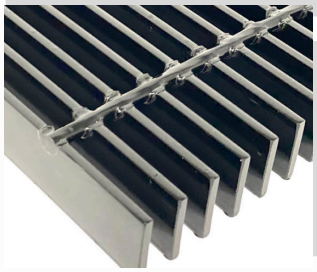
INOX INFRATECH METAL INDUSTRIES LLC
LOCATION: UMM AL QUWAIN, U.A.E



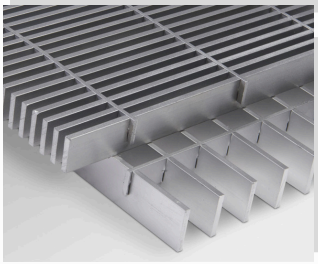
METAL TECH ARABIA MANUFACTURING COMPANY
LOCATION: DAMMAM, K.S.A

PRODUCT RANGE

Electroforged Steel Grating



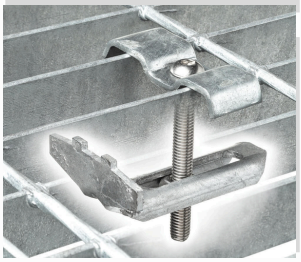
Press Lock Grating



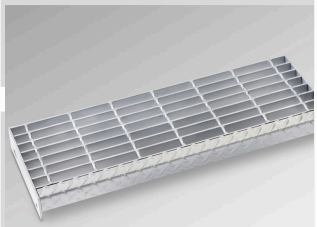
Heavy Duty Grating



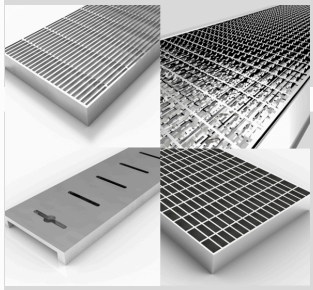
Grating Clamps



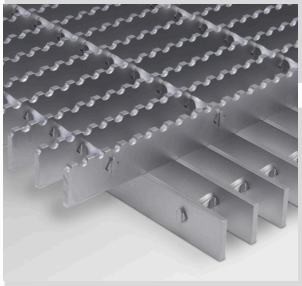
Stair Treads



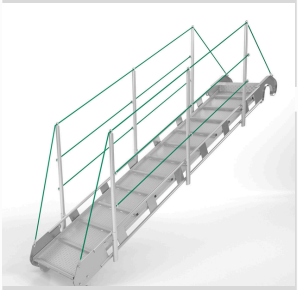
Stainless Steel Products



Aluminium Grating & Manhole Covers



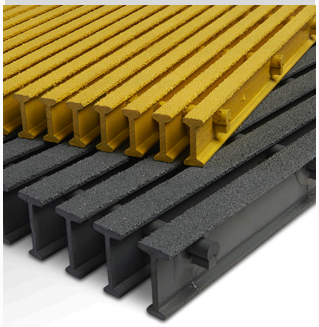
Aluminium Gangway



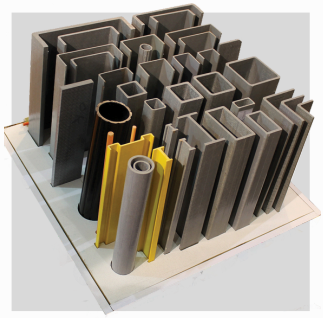
Moulded Grating



Pultruded Grating



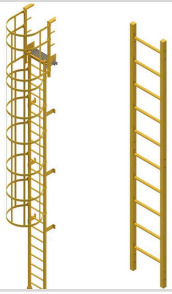
Pultruded Profiles



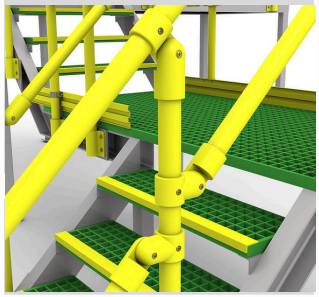
Fiberglass Platform and structures



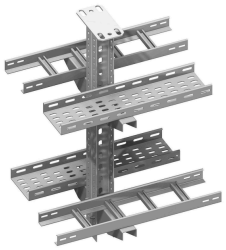
Fiberglass Ladders



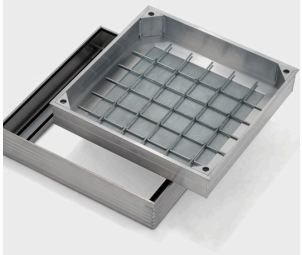
Fiberglass Handrails



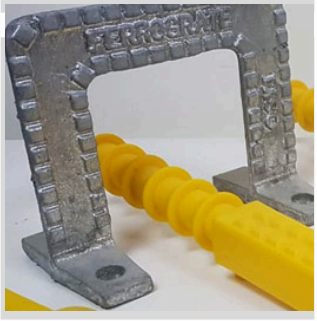
Cable Management



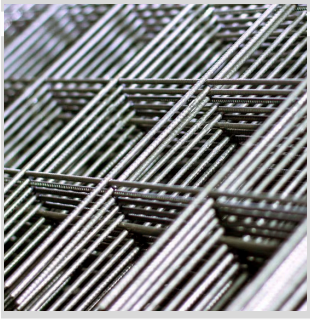
Manhole Covers



Step Irons



Wire Mesh



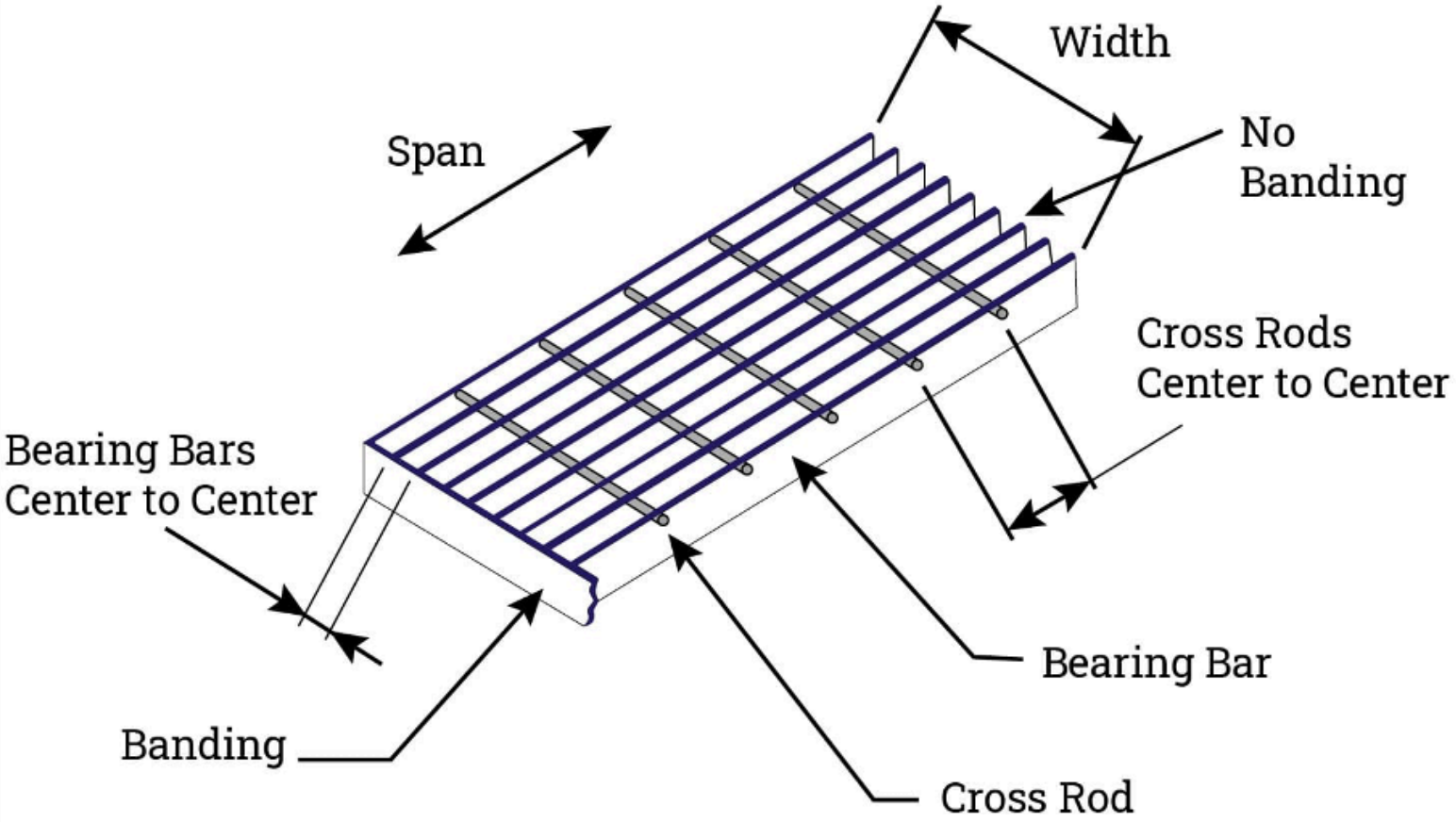
Handrails

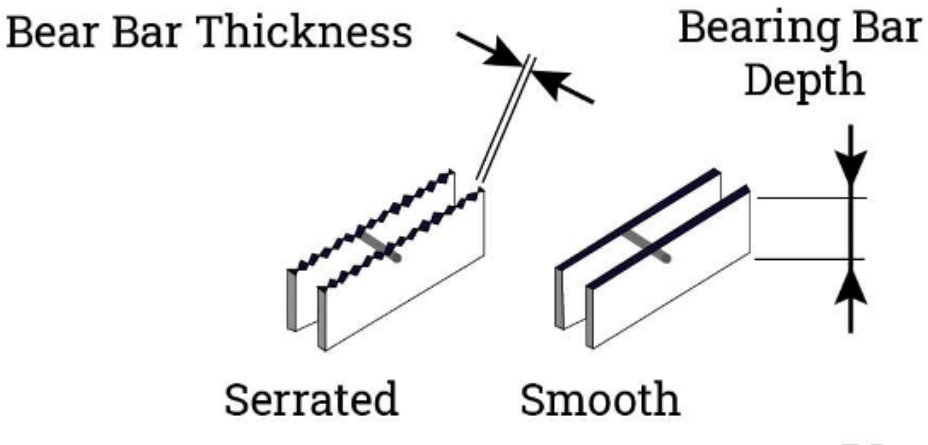


certificates

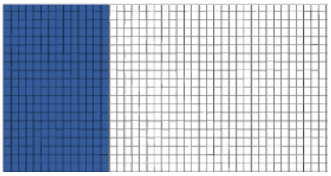
ISO

Terminology for Metal Grating



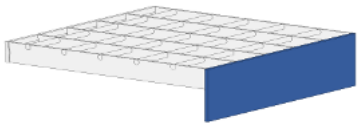


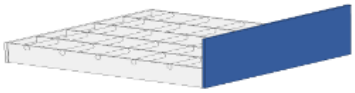
GRATING



COEXTENSIVE CROSS BARS – MAKEUP PANEL - Gratings can be customized with cross bars aligned at specific points. his option is available at an additional cost.

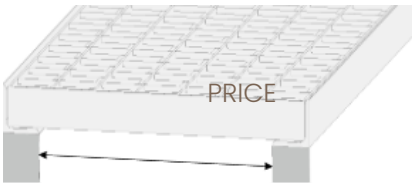
DEEP/ EDGE BAR - An edge bar taller than the load-bearing bars, with the extended section positioned below the grating

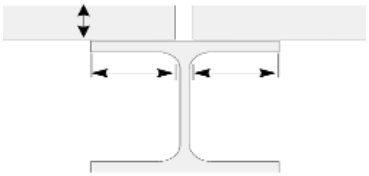




TOE /KICK PLATE - An edge bar that is taller than the load-bearing bars, with an extended section positioned above the grating.

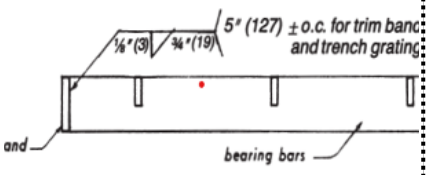
FREESPAN - The unsupported distance between the inner edges of the supporting structures, (Span)



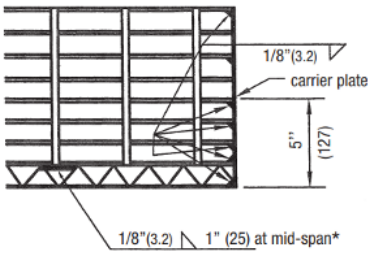


STORAGE WIDTH - The width of the floor support for grating should match the height of the Load bearing bat at floor. we recommend a minimum support resting width of 50 mm.

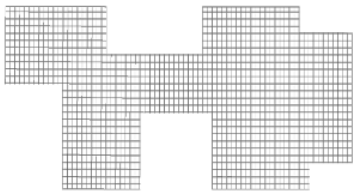
BANDING



STANDARD TRIM BAND

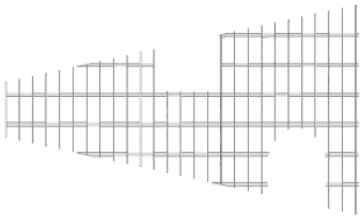


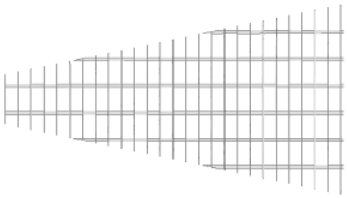
STAIR TREADS



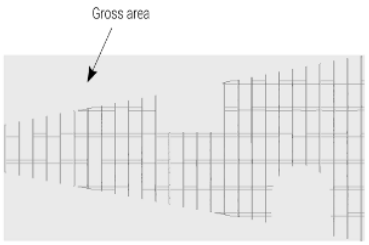
RECTANGULAR / CUTOUTS

ANNULAR/CIRCULAR/IRREGULAR



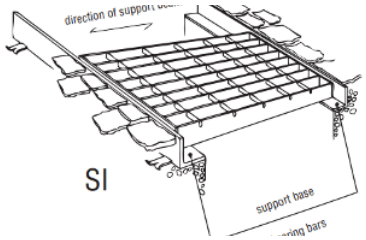


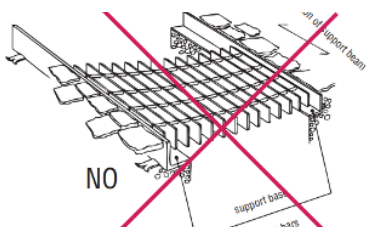
NET AREA MEASUREMENT NET AREA



GROSS AREA MEASUREMENT

CORRECT INSTALLATION - All load-bearing bars should be secured at both ends. The connecting bars must face upward, positioned toward the surface intended for contact with vehicles and/or pedestrians.



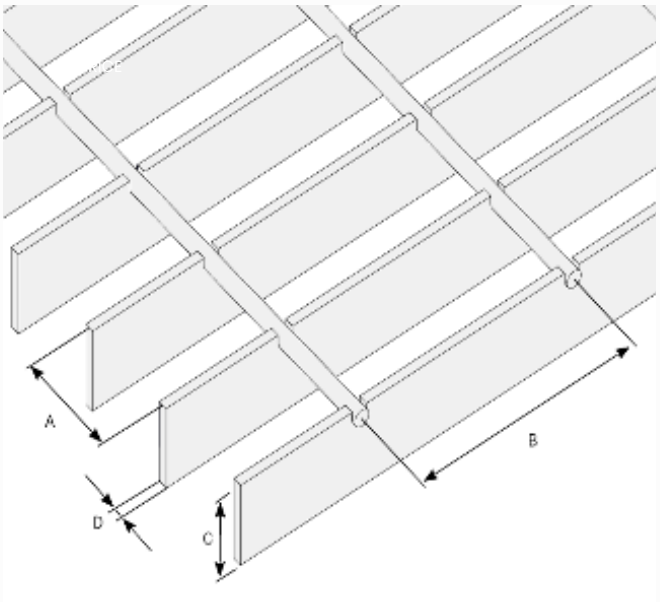


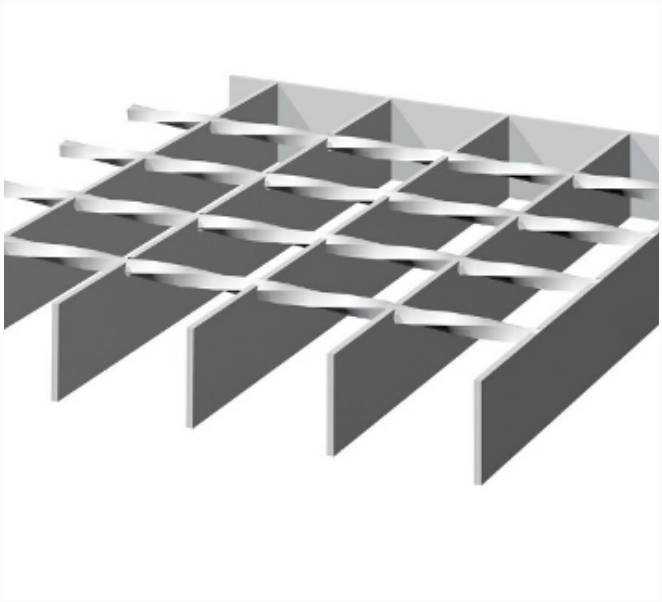
IN CORRECT INSTALLATION - The ends of the load-bearing bars are not aligned with the support structure, resulting in inadequate support.

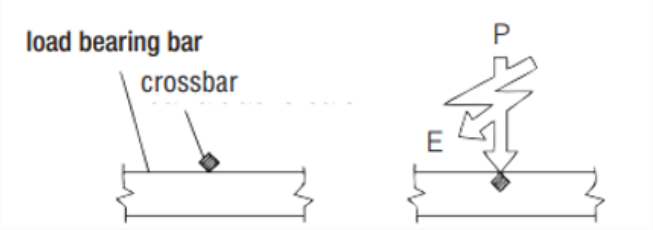


ELECTRO FORGED STEEL GRATINGS

ELECTRO FORGED STEEL GRATING







Electro forged steel grating is produced using the resistance welding method, where load-bearing bars are fused with crossbars under high pressure and high current. This pressure-welding technique ensures a secure welded joint at every intersection of the load-bearing and crossbars, without the addition of any material. This results in the crossbar penetrating into the load-bearing bar, providing exceptional durability, strength, and high load capacity. Additionally, edging bars are welded perpendicular to the bearing bars, enhancing the overall stability of the grating.

APPLICATIONS

- Industrial Flooring
- Walkways and Platforms
- Drainage Covers
- Stair Treads
- Security Fencing

MATERIAL: Mild Steel, ASTM A36,S275JR, ASTM A1011, also special grade available based on the requirement, Like S355/ JR/ JO/ etc.

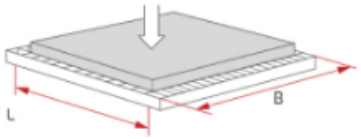
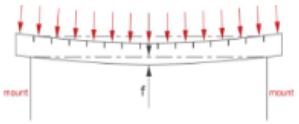
FINISH: Black, Self Colour, Hot Dip Galvanised, Painted, Powder coated,

GRATING SIZES RANGE-

LOAD BAR HEIGHT -C- (mm) – 25, 30, 32, 35, 40, 45, 50mm up to 100mm, also imperial sizes available custom made as per the client requirement,

LOAD BAR THICKNESS – D- (mm) – 3,4,4.5,5,6,8,10MM also imperial sizes available custom made as per the client requirement,

LOAD BAR PITCH - (mm) - A- 17.5,22,22.5,24,25,30,33,34,40,41,44,48mm.
CROSS BAR PITCH- (mm) – 25,30,33,34,38,50, up to 100mm

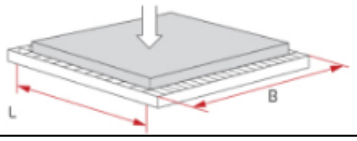
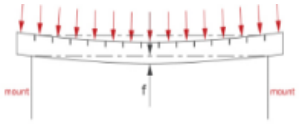
Load Value - (KN/m²) Maximum Deflection – mm Material: Steel S275 JR	UDL LOAD 	DEFLECTION 

Uniformly Distributed Load Table for Grating with 30mm Load Bar Pitch

30 x 100 mm PITCH														
Bearing Bar Size	Span-MM	SPAN IN MILLIMETRES												
	Def -MM	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100
25 x 3	UDL- KN/m²	114.91	51.07	28.73	18.39	12.77	9.38	7.18	5.67	4.60	3.80	3.19	2.72	2.35
	DEFLECTION -	0.47	1.05	1.86	2.91	4.19	5.70	7.45	9.42	11.63	14.08	16.75	19.66	22.80
30 x 3	UDL- KN/m²	165.47	73.54	41.37	26.47	18.39	13.51	10.34	8.17	6.62	5.47	4.60	3.92	3.38
	DEFLECTION -	0.39	0.87	1.55	2.42	3.49	4.75	6.21	7.85	9.70	11.73	13.96	16.39	19.00
35 x 3	UDL- KN/m²	225.22	100.10	56.30	36.03	25.02	18.39	14.08	11.12	9.01	7.45	6.26	5.33	4.60
	DEFLECTION -	0.33	0.75	1.33	2.08	2.99	4.07	5.32	6.73	8.31	10.06	11.97	14.04	16.29
40 x 3	UDL- KN/m²	294.16	130.74	73.54	47.07	32.68	24.01	18.39	14.53	11.77	9.72	8.17	6.96	6.00
	DEFLECTION -	0.29	0.65	1.16	1.82	2.62	3.56	4.65	5.89	7.27	8.80	10.47	12.29	14.25
40 x 4	UDL- KN/m²	392.22	174.32	98.05	62.75	43.58	32.02	24.51	19.37	15.69	12.97	10.89	9.28	8.00
	DEFLECTION -	0.29	0.65	1.16	1.82	2.62	3.56	4.65	5.89	7.27	8.80	10.47	12.29	14.25
25 x 5	UDL- KN/m²	191.51	85.12	47.88	30.64	21.28	15.63	11.97	9.46	7.66	6.33	5.32	4.53	3.91
	DEFLECTION -	0.47	1.05	1.86	2.91	4.19	5.70	7.45	9.42	11.63	14.08	16.75	19.66	22.80
30 x 5	UDL- KN/m²	275.78	122.57	68.94	44.12	30.64	22.51	17.24	13.62	11.03	9.12	7.66	6.53	5.63
	DEFLECTION -	0.39	0.87	1.55	2.42	3.49	4.75	6.21	7.85	9.70	11.73	13.96	16.39	19.00
32 x 5	UDL- KN/m²	313.77	139.46	78.44	50.20	34.86	25.61	19.61	15.50	12.55	10.37	8.72	7.43	6.40
	DEFLECTION -	0.36	0.82	1.45	2.27	3.27	4.45	5.82	7.36	9.09	11.00	13.09	15.36	17.82
35 x 5	UDL- KN/m²	375.36	166.83	93.84	60.06	41.71	30.64	23.46	18.54	15.01	12.41	10.43	8.88	7.66
	DEFLECTION -	0.33	0.75	1.33	2.08	2.99	4.07	5.32	6.73	8.31	10.06	11.97	14.04	16.29
40 x 5	UDL- KN/m²	490.27	217.90	122.57	78.44	54.47	40.02	30.64	24.21	19.61	16.21	13.62	11.60	10.01
	DEFLECTION -	0.29	0.65	1.16	1.82	2.62	3.56	4.65	5.89	7.27	8.80	10.47	12.29	14.25
50 x 5	UDL- KN/m²	766.05	340.47	191.51	122.57	85.12	62.53	47.88	37.83	30.64	25.32	21.28	18.13	15.63
	DEFLECTION -	0.23	0.52	0.93	1.45	2.09	2.85	3.72	4.71	5.82	7.04	8.38	9.83	11.40
60 x 5	UDL- KN/m²	1103.11	490.27	275.78	176.50	122.57	90.05	68.94	54.47	44.12	36.47	30.64	26.11	22.51
	DEFLECTION -	0.19	0.44	0.78	1.21	1.75	2.38	3.10	3.93	4.85	5.87	6.98	8.19	9.50
70 x 5	UDL- KN/m²	1501.46	667.31	375.36	240.23	166.83	122.57	93.84	74.15	60.06	49.63	41.71	35.54	30.64
	DEFLECTION -	0.17	0.37	0.66	1.04	1.50	2.04	2.66	3.37	4.16	5.03	5.98	7.02	8.14

Uniformly Distributed Load Table for Grating with 41mm Load Bar Pitch

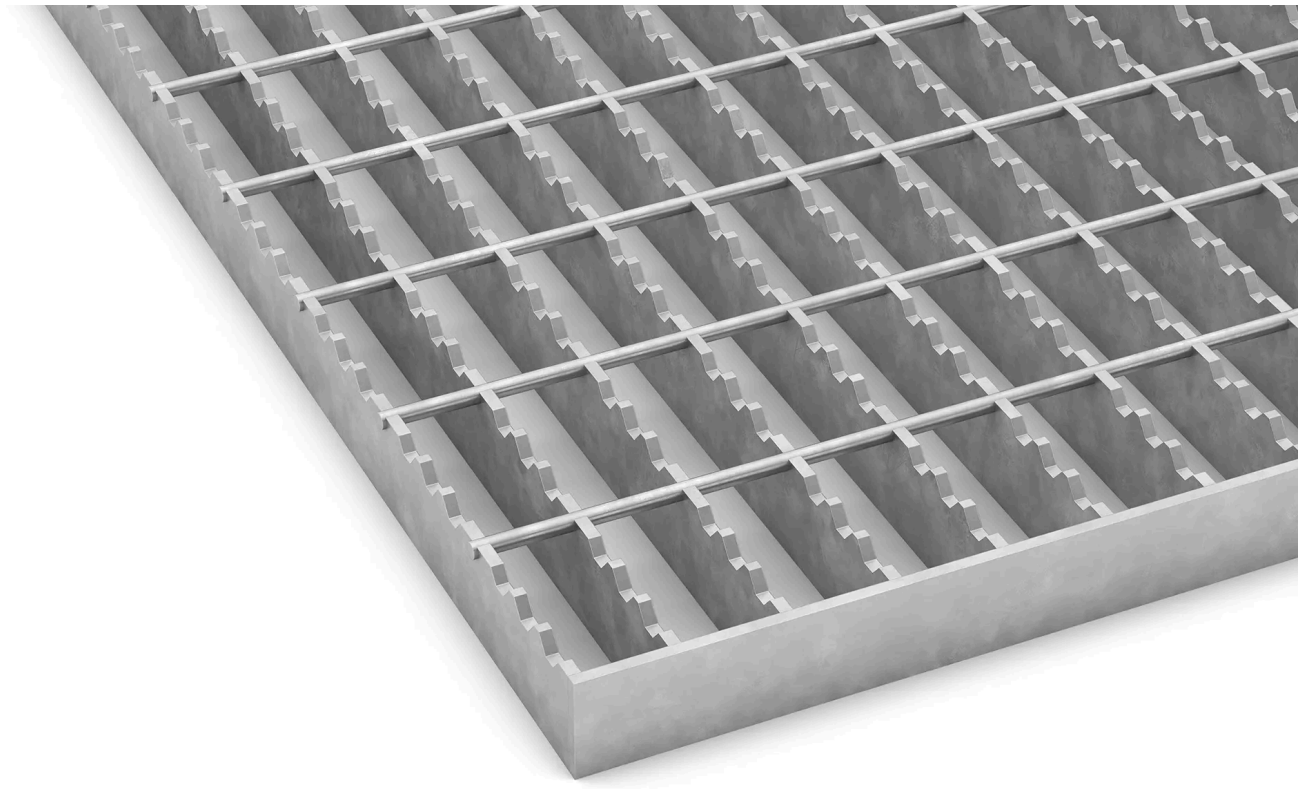
41 x 100 mm PITCH														
Bearing Bar Size	Span-MM	SPAN IN MILLIMETRES												
	Def -MM	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100
25 x 3	UDL- KN/m²	84.08	37.37	21.02	13.45	9.34	6.86	5.25	4.15	3.36	2.78	2.34	1.99	1.72
	DEFLECTION -	0.47	1.05	1.86	2.91	4.19	5.70	7.45	9.42	11.63	14.08	16.75	19.66	22.80
30 x 3	UDL- KN/m²	121.07	53.81	30.27	19.37	13.45	9.88	7.57	5.98	4.84	4.00	3.36	2.87	2.47
	DEFLECTION -	0.39	0.87	1.55	2.42	3.49	4.75	6.21	7.85	9.70	11.73	13.96	16.39	19.00
35 x 3	UDL- KN/m²	164.79	73.24	41.20	26.37	18.31	13.45	10.30	8.14	6.59	5.45	4.58	3.90	3.36
	DEFLECTION -	0.33	0.75	1.33	2.08	2.99	4.07	5.32	6.73	8.31	10.06	11.97	14.04	16.29
40 x 3	UDL- KN/m²	215.24	95.66	53.81	34.44	23.92	17.57	13.45	10.63	8.61	7.12	5.98	5.09	4.39
	DEFLECTION -	0.29	0.65	1.16	1.82	2.62	3.56	4.65	5.89	7.27	8.80	10.47	12.29	14.25
40 x 4	UDL- KN/m²	286.99	127.55	71.75	45.92	31.89	23.43	17.94	14.17	11.48	9.49	7.97	6.79	5.86
	DEFLECTION -	0.29	0.65	1.16	1.82	2.62	3.56	4.65	5.89	7.27	8.80	10.47	12.29	14.25
25 x 5	UDL- KN/m²	140.13	62.28	35.03	22.42	15.57	11.44	8.76	6.92	5.61	4.63	3.89	3.32	2.86
	DEFLECTION -	0.47	1.05	1.86	2.91	4.19	5.70	7.45	9.42	11.63	14.08	16.75	19.66	22.80
30 x 5	UDL- KN/m²	201.79	89.68	50.45	32.29	22.42	16.47	12.61	9.96	8.07	6.67	5.61	4.78	4.12
	DEFLECTION -	0.39	0.87	1.55	2.42	3.49	4.75	6.21	7.85	9.70	11.73	13.96	16.39	19.00
32 x 5	UDL- KN/m²	229.59	102.04	57.40	36.73	25.51	18.74	14.35	11.34	9.18	7.59	6.38	5.43	4.69
	DEFLECTION -	0.36	0.82	1.45	2.27	3.27	4.45	5.82	7.36	9.09	11.00	13.09	15.36	17.82
35 x 5	UDL- KN/m²	274.66	122.07	68.66	43.95	30.52	22.42	17.17	13.56	10.99	9.08	7.63	6.50	5.61
	DEFLECTION -	0.33	0.75	1.33	2.08	2.99	4.07	5.32	6.73	8.31	10.06	11.97	14.04	16.29
40 x 5	UDL- KN/m²	358.74	159.44	89.68	57.40	39.86	29.28	22.42	17.72	14.35	11.86	9.96	8.49	7.32
	DEFLECTION -	0.29	0.65	1.16	1.82	2.62	3.56	4.65	5.89	7.27	8.80	10.47	12.29	14.25
50 x 5	UDL- KN/m²	560.52	249.12	140.13	89.68	62.28	45.76	35.03	27.68	22.42	18.53	15.57	13.27	11.44
	DEFLECTION -	0.23	0.52	0.93	1.45	2.09	2.85	3.72	4.71	5.82	7.04	8.38	9.83	11.40
60 x 5	UDL- KN/m²	807.15	358.74	201.79	129.14	89.68	65.89	50.45	39.86	32.29	26.68	22.42	19.10	16.47
	DEFLECTION -	0.19	0.44	0.78	1.21	1.75	2.38	3.10	3.93	4.85	5.87	6.98	8.19	9.50
70 x 5	UDL- KN/m²	1098.63	488.28	274.66	175.78	122.07	89.68	68.66	54.25	43.95	36.32	30.52	26.00	22.42
	DEFLECTION -	0.17	0.37	0.66	1.04	1.50	2.04	2.66	3.37	4.16	5.03	5.98	7.02	8.14

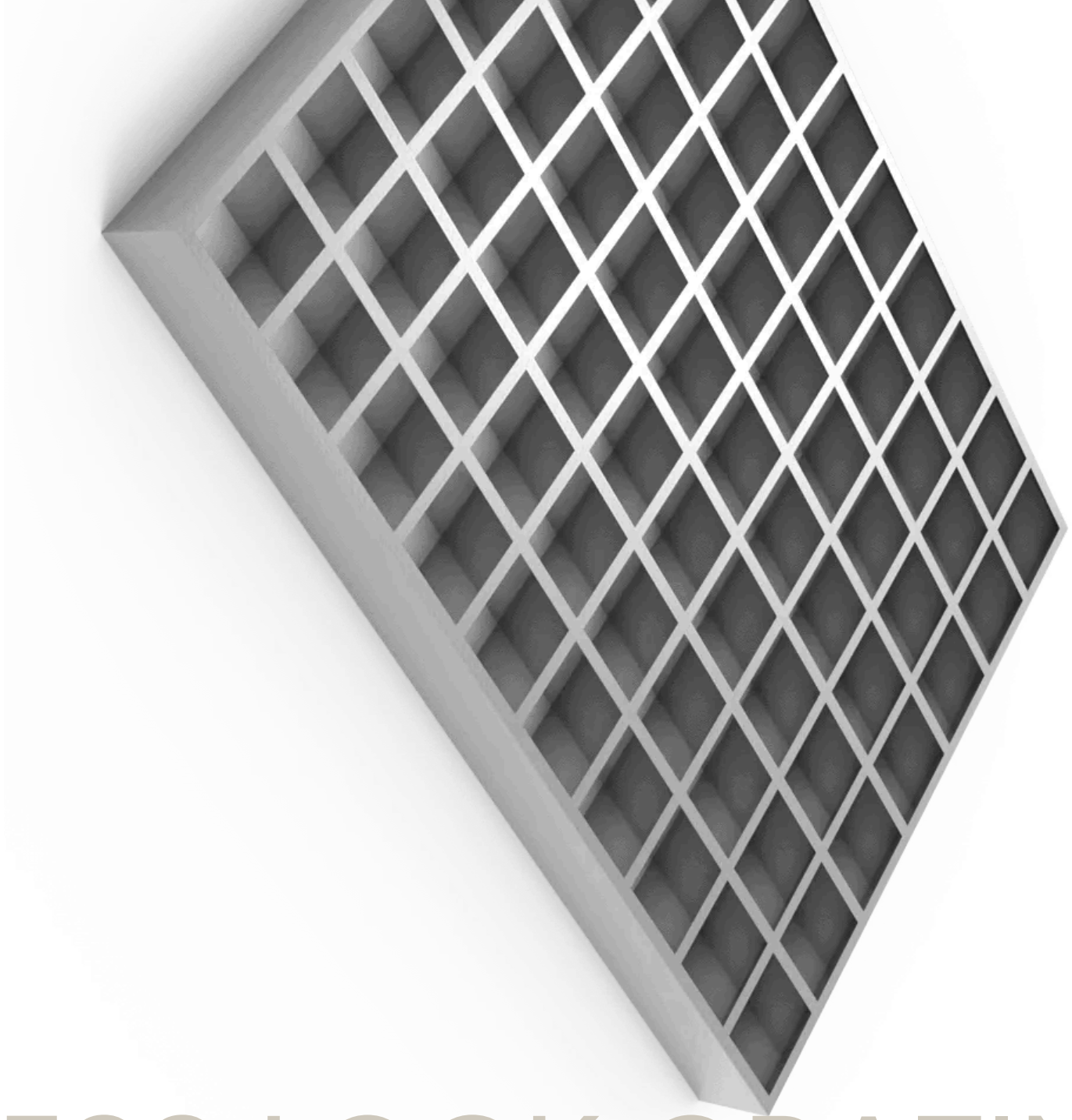
Load Value - (KN/m²) Maximum Deflection - mm Material: Steel S275 JR	UDL LOAD 	DEFLECTION 

Uniformly Distributed Load Table for Grating with 34mm Load Bar Pitch

34 x 100 mm PITCH													
Bearing Bar Size	Span-MM	SPAN IN MILLIMETRES											
	Def -MM	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100
25 x 3	UDL- KN/m²	101.39	45.06	25.35	16.22	11.27	8.28	6.34	5.01	4.06	3.35	2.82	2.40	2.07
	DEFLECTION -	0.47	1.05	1.86	2.91	4.19	5.70	7.45	9.42	11.63	14.08	16.75	19.66	22.80
30 x 3	UDL- KN/m²	146.00	64.89	36.50	23.36	16.22	11.92	9.13	7.21	5.84	4.83	4.06	3.46	2.98
	DEFLECTION -	0.39	0.87	1.55	2.42	3.49	4.75	6.21	7.85	9.70	11.73	13.96	16.39	19.00
35 x 3	UDL- KN/m²	198.72	88.32	49.68	31.80	22.08	16.22	12.42	9.81	7.95	6.57	5.52	4.70	4.06
	DEFLECTION -	0.33	0.75	1.33	2.08	2.99	4.07	5.32	6.73	8.31	10.06	11.97	14.04	16.29
40 x 3	UDL- KN/m²	259.56	115.36	64.89	41.53	28.84	21.19	16.22	12.82	10.38	8.58	7.21	6.14	5.30
	DEFLECTION -	0.29	0.65	1.16	1.82	2.62	3.56	4.65	5.89	7.27	8.80	10.47	12.29	14.25
40 x 4	UDL- KN/m²	346.07	153.81	86.52	55.37	38.45	28.25	21.63	17.09	13.84	11.44	9.61	8.19	7.06
	DEFLECTION -	0.29	0.65	1.16	1.82	2.62	3.56	4.65	5.89	7.27	8.80	10.47	12.29	14.25
25 x 5	UDL- KN/m²	168.98	75.10	42.25	27.04	18.78	13.79	10.56	8.34	6.76	5.59	4.69	4.00	3.45
	DEFLECTION -	0.47	1.05	1.86	2.91	4.19	5.70	7.45	9.42	11.63	14.08	16.75	19.66	22.80
30 x 5	UDL- KN/m²	243.33	108.15	60.83	38.93	27.04	19.86	15.21	12.02	9.73	8.04	6.76	5.76	4.97
	DEFLECTION -	0.39	0.87	1.55	2.42	3.49	4.75	6.21	7.85	9.70	11.73	13.96	16.39	19.00
32 x 5	UDL- KN/m²	276.86	123.05	69.21	44.30	30.76	22.60	17.30	13.67	11.07	9.15	7.69	6.55	5.65
	DEFLECTION -	0.36	0.82	1.45	2.27	3.27	4.45	5.82	7.36	9.09	11.00	13.09	15.36	17.82
35 x 5	UDL- KN/m²	331.20	147.20	82.80	52.99	36.80	27.04	20.70	16.36	13.25	10.95	9.20	7.84	6.76
	DEFLECTION -	0.33	0.75	1.33	2.08	2.99	4.07	5.32	6.73	8.31	10.06	11.97	14.04	16.29
40 x 5	UDL- KN/m²	432.59	192.26	108.15	69.21	48.07	35.31	27.04	21.36	17.30	14.30	12.02	10.24	8.83
	DEFLECTION -	0.29	0.65	1.16	1.82	2.62	3.56	4.65	5.89	7.27	8.80	10.47	12.29	14.25
50 x 5	UDL- KN/m²	675.93	300.41	168.98	108.15	75.10	55.18	42.25	33.38	27.04	22.34	18.78	16.00	13.79
	DEFLECTION -	0.23	0.52	0.93	1.45	2.09	2.85	3.72	4.71	5.82	7.04	8.38	9.83	11.40
60 x 5	UDL- KN/m²	973.33	432.59	243.33	155.73	108.15	79.46	60.83	48.07	38.93	32.18	27.04	23.04	19.86
	DEFLECTION -	0.19	0.44	0.78	1.21	1.75	2.38	3.10	3.93	4.85	5.87	6.98	8.19	9.50
70 x 5	UDL- KN/m²	1324.81	588.81	331.20	211.97	147.20	108.15	82.80	65.42	52.99	43.80	36.80	31.36	27.04
	DEFLECTION -	0.17	0.37	0.66	1.04	1.50	2.04	2.66	3.37	4.16	5.03	5.98	7.02	8.14

Serrated Conversion Factor: Calculating UDL and deflection for serrated gratings, allowance should be kept for the material removed from the load bearing bar to form the serration profile. Typically this is 0.9 % of the UDL and 1.05 % of the deflection. This figures vary depending on the type of serration. (To be confirmed during the design process.)





PRESS LOCK GRATING

PRESS LOCK GRATING

Press-lock grating is a type of metal grating construct bearing bars and crossbars are mechanically locked at high pressure without the need for welding, this creates a flush surface over the grating with clean lines and uniform spacing, grating commonly used for industrial and architectural applications

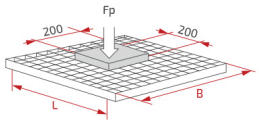
Materials:
- Steel, stainless steel, or Aluminum.

Bar Spacing:
- The spacing of the bearing bars and crossbars can be customized for strength, load-bearing capacity, and visual aesthetics.
- Common bar spacing includes 30mm, 41mm, or custom sizes depending on application requirements.
- Can be manufactured with serrated bearing bars for improved slip resistance.

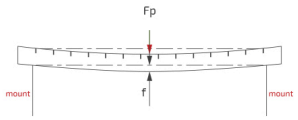
Applications
- Industrial: Walkways, platforms, trench covers, machine platforms.
- Architectural: Cladding, sunshades, stair treads, balconies.
- Public Areas: Drainage covers, pedestrian walkways, access panels.

Advantages
- Strength and Durability: Suitable for both pedestrian and vehicular traffic.
- Low Maintenance: Easy to clean and resistant to corrosion.
- Customization: Can be tailored to meet specific load, spacing, and design requirements.
- Designed to handle medium to heavy loads, depending on the bar height, thickness, and span.

Load table

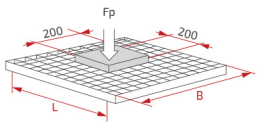


– concentrated load in KN on an area of 200x200 mm

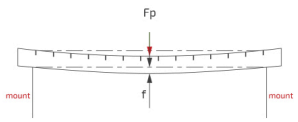


D – deflection from concentrated load - mm

30 x 100 mm PITCH PRESS LOCKED GRATINGS														
Bearing Bar Size	Span -MM	SPAN IN MILLIMETRES												
	Def -MM	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100
70 x 5	UDL- KN/m²	1501.46	667.31	375.36	240.23	166.83	122.57	93.84	74.15	60.06	49.63	41.71	35.54	30.64
	DEFLECTION	0.17	0.37	0.66	1.04	1.50	2.04	2.66	3.37	4.16	5.03	5.98	7.02	8.14
75 x 5	UDL- KN/m²	1723.61	766.05	430.90	275.78	191.51	140.70	107.73	85.12	68.94	56.98	47.88	40.80	35.18
	DEFLECTION	0.16	0.35	0.62	0.97	1.40	1.90	2.48	3.14	3.88	4.69	5.58	6.55	7.60
90 x 5	UDL- KN/m²	2482.00	1103.11	620.50	397.12	275.78	202.61	155.13	122.57	99.28	82.05	68.94	58.75	50.65
	DEFLECTION	0.13	0.29	0.52	0.81	1.16	1.58	2.07	2.62	3.23	3.91	4.65	5.46	6.33
100 x 5	UDL- KN/m²	3064.20	1361.87	766.05	490.27	340.47	250.14	191.51	151.32	122.57	101.30	85.12	72.53	62.53
	DEFLECTION	0.12	0.26	0.47	0.73	1.05	1.43	1.86	2.36	2.91	3.52	4.19	4.92	5.70
100 x 6	UDL- KN/m²	3677.04	1634.24	919.26	588.33	408.56	300.17	229.81	181.58	147.08	121.55	102.14	87.03	75.04
	DEFLECTION	0.12	0.26	0.47	0.73	1.05	1.43	1.86	2.36	2.91	3.52	4.19	4.92	5.70



– concentrated load in KN on an area of 200x200 mm



D – deflection from concentrated load - mm

33 x 33 mm PITCH PRESS LOCKED GRATINGS														
Bearing Bar Size	Span	SPAN IN MILLIMETRES												
	Def	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100
25 x 5	UDL- KN/m²	174.10	77.38	43.53	27.86	19.34	14.21	10.88	8.60	6.96	5.76	4.84	4.12	3.55
	DEFLECTION	0.47	1.05	1.86	2.91	4.19	5.70	7.45	9.42	11.63	14.08	16.75	19.66	22.80
30 x 5	UDL- KN/m²	250.71	111.43	62.68	40.11	27.86	20.47	15.67	12.38	10.03	8.29	6.96	5.93	5.12
	DEFLECTION	0.39	0.87	1.55	2.42	3.49	4.75	6.21	7.85	9.70	11.73	13.96	16.39	19.00
40 x 5	UDL- KN/m²	445.70	198.09	111.43	71.31	49.52	36.38	27.86	22.01	17.83	14.73	12.38	10.55	9.10
	DEFLECTION	0.29	0.65	1.16	1.82	2.62	3.56	4.65	5.89	7.27	8.80	10.47	12.29	14.25
50 x 5	UDL- KN/m²	696.41	309.51	174.10	111.43	77.38	56.85	43.53	34.39	27.86	23.02	19.34	16.48	14.21
	DEFLECTION	0.23	0.52	0.93	1.45	2.09	2.85	3.72	4.71	5.82	7.04	8.38	9.83	11.40

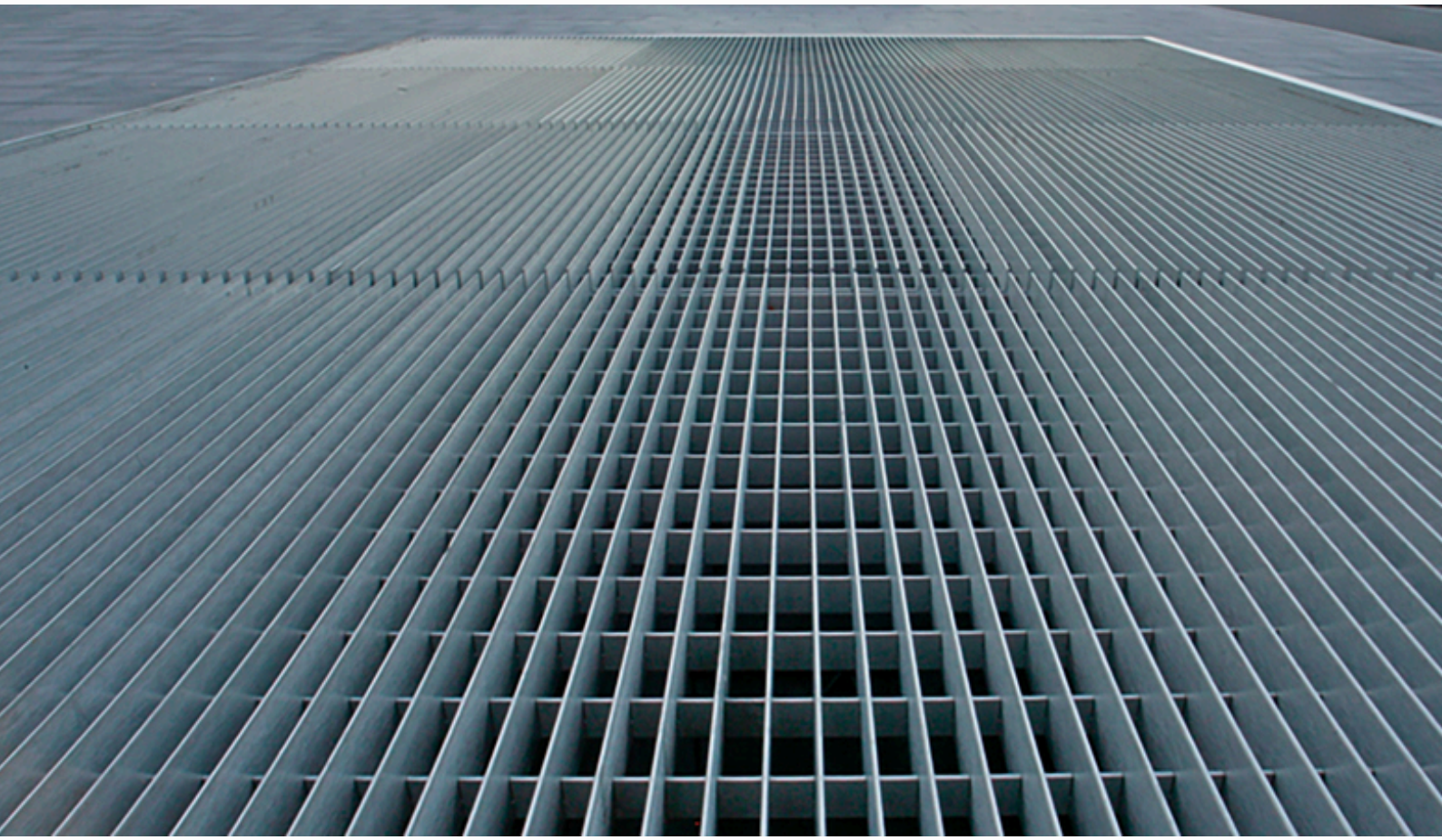
Standards of Load clause-

American National Standards Institute (ANSI)

ANSI standards categorize metal gratings into five groups based on their load-bearing capacity:
Light Duty – Suitable for loads under (900 kg), these gratings are designed for pedestrian traffic only.
Medium Duty – Suitable for loads ranging from 900 kg to 2,250 kg, this grating is appropriate for light pneumatic traffic, sidewalks, and residential parking areas.
Heavy Duty – Suitable for loads between 2,250 kg to 3,375 kg and are used for commercial traffic.
Extra Heavy Duty – Designed for use on roads, highways, and bridges, this grating has an load rating, supporting up to 4,500 kg.
Special Duty – Built to withstand airport traffic and loads of 4,500 kg or more, these gratings are engineered for high-demand applications.

German Institute for Standardization (DIN)

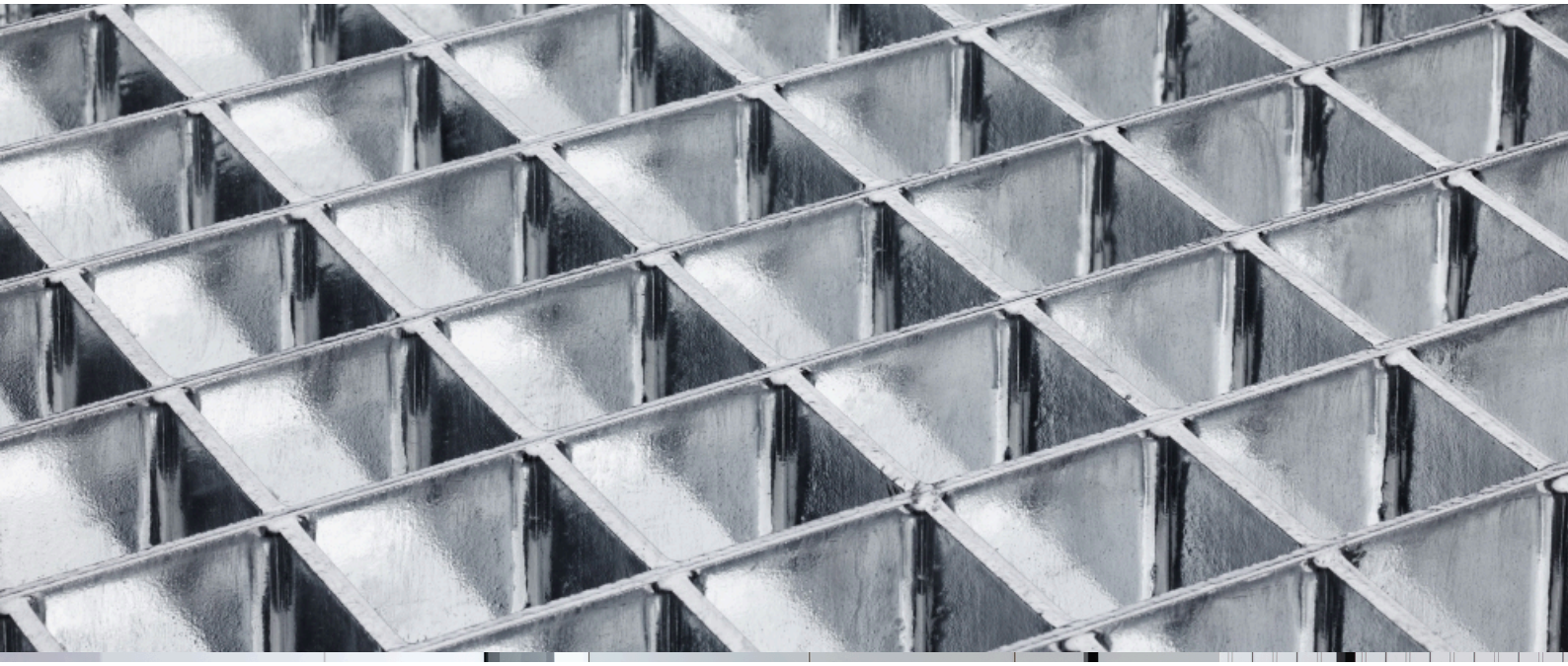
Load Class A – Designed for pedestrian traffic, Load Class A can support up to 15 kilonewtons (kN).
Load Class B – Designed for parking lots, sidewalks, and light vehicular traffic, this class supports up to 125 kN.
Load Class C – Designed for commercial use, Load Class C handles loads of up to or 250 kN.
Load Class D – Designed for very heavy-duty applications withstand 400 kN. It is suitable for use with forklifts, roads, bridges, and highways.
Load Class E – Designed for withstanding diverse manufacturing and transportation conditions, including high-impact steel struts and metal wheels, **Load Class E** supports up to 600 kN.
Load Class F – Designed for airport traffic, Load Class F has a load-bearing capacity exceeding 900 kN.





HEAVY DUTY GRATING – VECHILE MOVEMENT

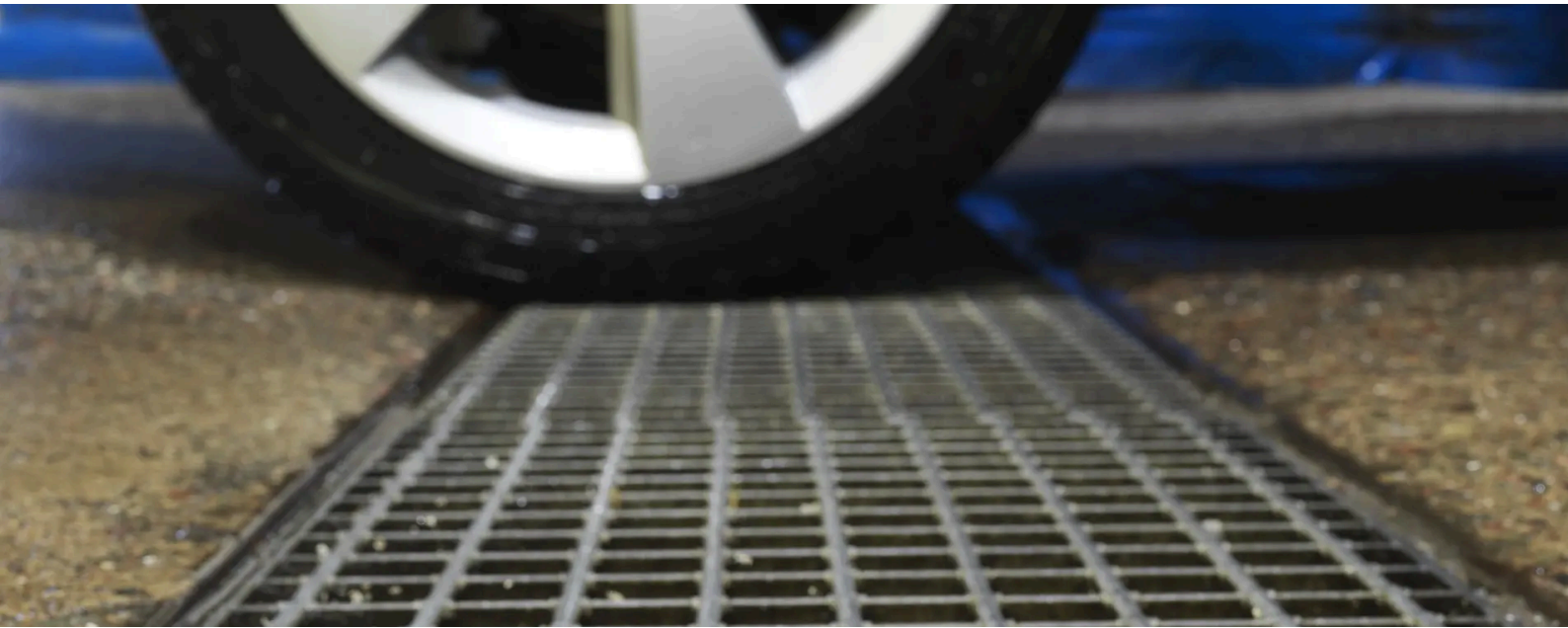
Our grating may be engineered to handle exceptionally high point loads, making it ideal for heavy-duty use. We also provide custom-fabricated heavy-duty grating with load-bearing bars rages from 50 mm upto 120mm and thickness ranges from 5mm upto 10 mm thick, for Heavy Load environment to withstand load upto 80 tons of (UDL) Uniformly distributed load, and 11.5 Tons of concentrated load with a clear span of 1 Mtr Approximately.
This custom grating allows us to use nearly any load-bearing bar height and thickness, opening up new possibilities for extremely high load-bearing capacities suitable for heavier traffic in industries such as paper, petrochemical, process, and mechanical.



MANUAL WELDED GRATING

Manually Welded Heavy Duty Gratings are designed to meet the need for gratings subject to heavy rolling and static loads such as highways, plant floors, loading docks, inlet covers and airports. Since these conditions can range from light-duty forklifts to semi-trucks and trailers carrying maximum allowable highway loads, Heavy Duty gratings are manufactured in a wide variety of bar sizes and spacing.

BEARING BAR SELECTION: the bearing bar size must be specified based upon the anticipated load and the clear (unsupported) span to be served.





GRATING CLAMPS

TYPES OF GRATING CLAMPS



Ferrograte manufactures and supplies the Grating Fixing Clamps in Mild Steel, Hot Dip Galvanised Finish - Suitable for Fixing Mild Steel Galvanised Gratings. It is the most common style of clip used for clamping down open steel flooring. It provides a quick and cost effective method of clamping.

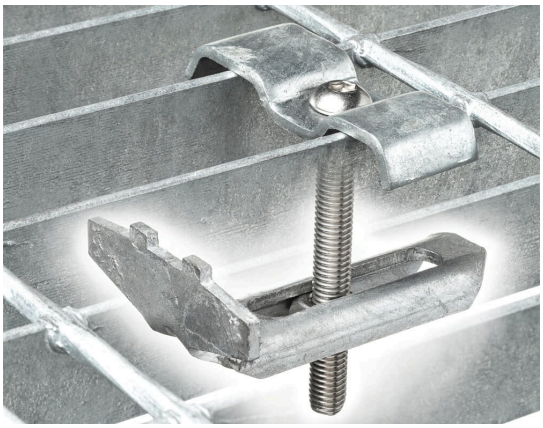
Stainless steel AISI 304 OR 316 CLAMP - Suitable for Fixing S.S., Al., and FRP/GRP Gratings.

We have designed an universal Grating clamp, which is suitable to fix Gratings from 25mm upto 60mm depth and suitable for variety of pitches. Our Grating Clamp comprises of

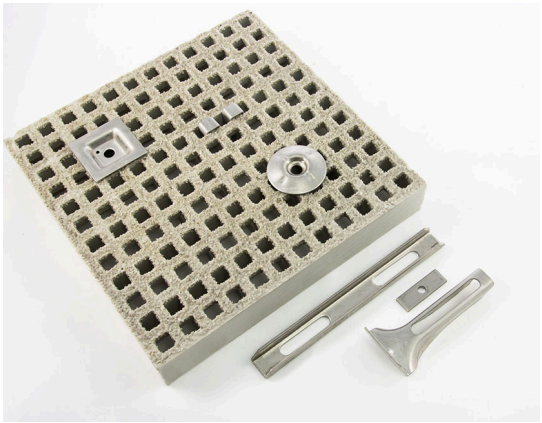
- Pressed clamp plate (Bottom plate)
- M Type Saddle clip
- M8 x 70mm Bolt and Nut

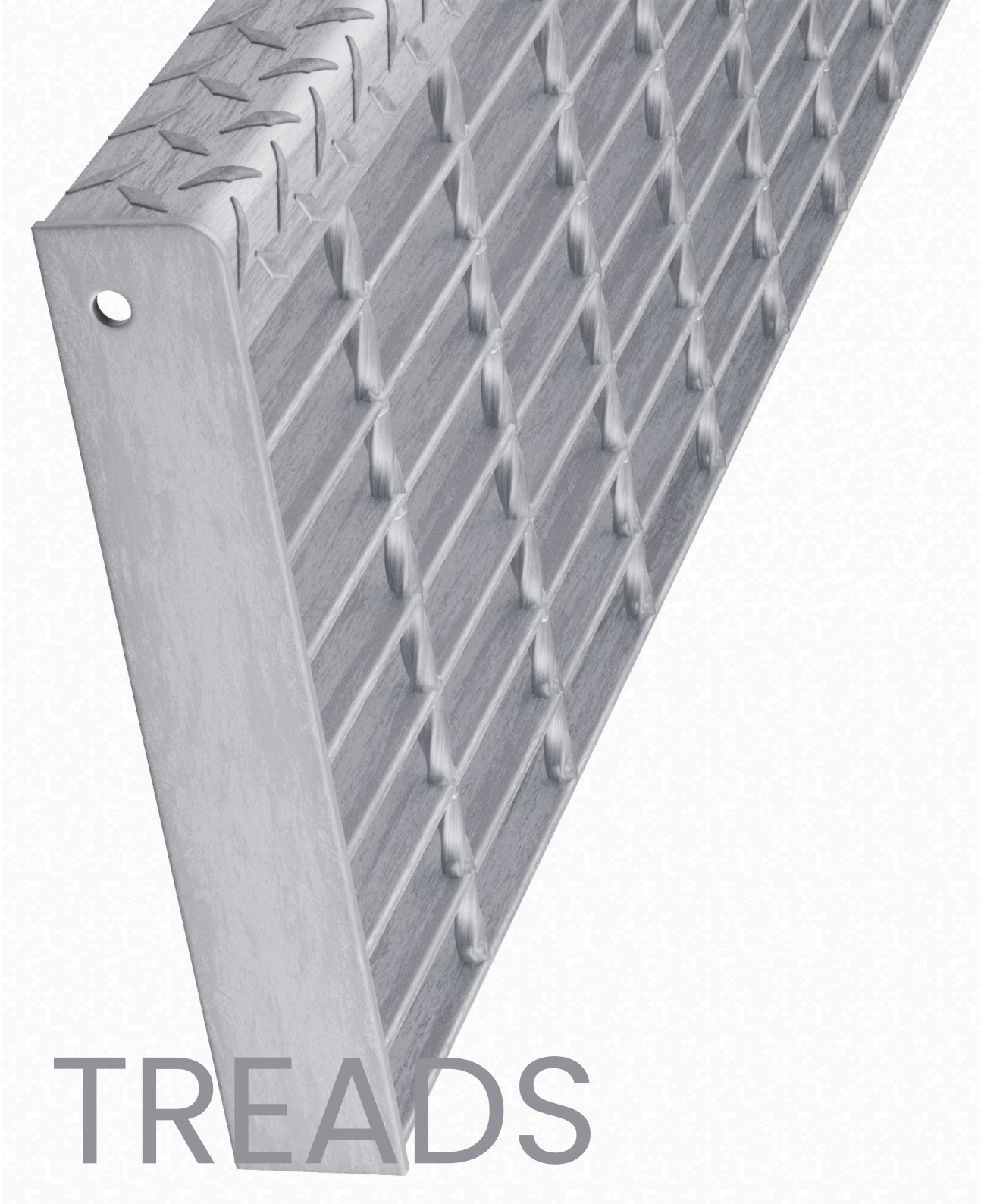
We can also design and supply customized clips for special applications when required.











STAIR TREADS



STEEL STAIR TREADS

Stair treads can be manufactured from grating and customized to fit the dimensions of the specific stairway. A side plate is welded to each side of the stair tread for bolting to supports. These side plates are punched to accommodate 12 mm diameter bolts. Treads can also be manufactured without side plates for welding direct to stringers, tank sides etc. Ideal for exterior steps on public buildings or industrial facilities prone to oil spills or other hazards

Load Capacity
Stair treads must meet specified load-bearing requirements:
Concentrated Load: Typically 1.5 kN applied on a 100mm x 100mm area.
Uniform Load: Distributed evenly across the tread width.
Design must ensure compliance with relevant codes (e.g., OSHA, BS EN 1991).

Dimensions
Width (Tread Depth): Recommended widths: 200mm to 300mm, depending on application and safety.
Length (Tread Width): Must span between stringers with proper overhang for support.
Recommended lengths align with standard grating sizes (e.g., 600mm, 750mm, 900mm, etc.).

Bar Spacing
Spacing depends on application: Standard Bar Pitch: 30mm or 41mm for industrial and general use.

Deflection
Deflection limits: Should not exceed span/200 for safety and comfort. Consider deflection under both live and dead loads.

Fixing and Support
Proper fastening is critical to prevent movement or vibration:
Use bolts, clamps, or welding to secure treads to stringers.
Ensure supports are aligned to prevent uneven load distribution.

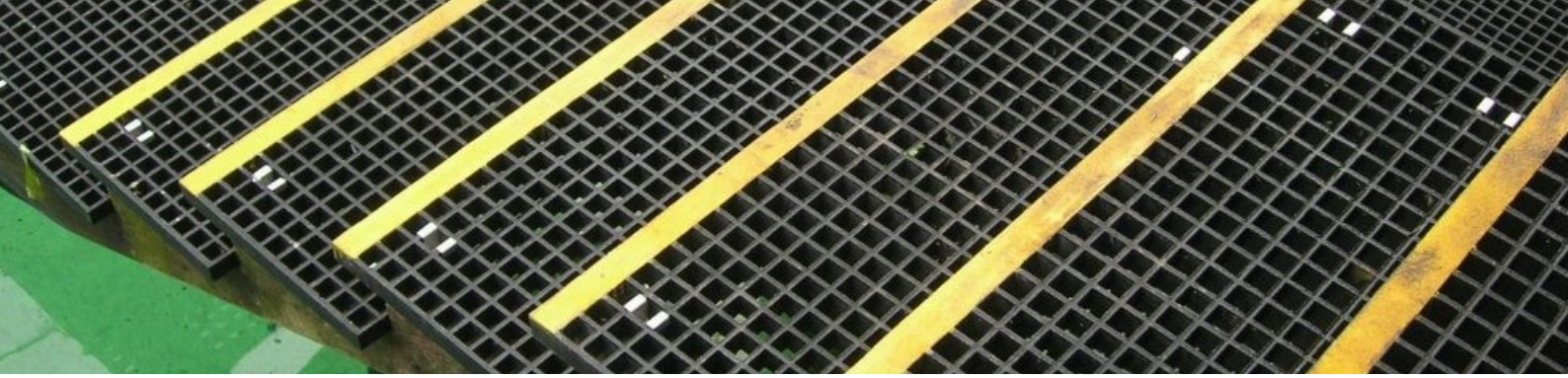
Standards and Codes
Design must comply with local and international standards, such as:
OSHA (Occupational Safety and Health Administration).
BS EN 1991 (Eurocode for structural safety).
AS 1657 (Australian standard for fixed platforms, walkways, and stairs).

Stair Treads are available followwing types and materail

- Steel Grating
- Aluminium Grating
- Stainless Steel Grating
- FRP Grating

Nosing Options

- Chequered Plate
- Pyramid type Nosing.
- Abrasive



FRP STAIR TREADS

MOULDED TYPE

The Ferro tread safety stair treads are self-supporting with a coloured reinforced front nosing. They are manufactured using the Teknotex process using self-extinguishing fire retardant resins. The stair treads have a permanent antiskid surface using integrated quartz silica grains. Standard colours: Green with Yellow front nosing or Grey with Black front nosing.



PULTRUDED TYPE GRATING STAIR TREADS

Pultruded type stair treads are structural components typically made from pultruded fiberglass-reinforced plastic (FRP). with resins (e.g., polyester / vinyl ester/ Phenilic) for durability, chemical resistance and fire resistance. Commonly used in industrial facilities, marine environments, wastewater treatment plants, and chemical plants.

- Ideal for areas requiring lightweight, durable, and corrosion-resistant materials.
- Available in various colors, thicknesses, and tread patterns.
- Can be fabricated to include nosing for added visibility and safety.



FRP/GRP Step Cover

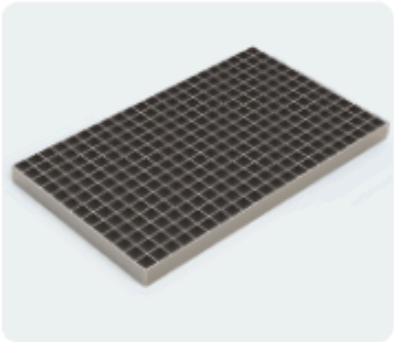
Hand lay up composite flat panel manufactured with fiberglass Chopped Strand Mat and Cross Weaving Mat, with an antiskid surface using integrated silica quartz grains. Standard resin: isophthalic fire retardant.
Sizes Custom made as per the requirement,
Standards - Slip Resistance Standards

- ASTM D2047: Measures the static coefficient of friction (COF) for floor and step materials. FRP step covers typically meet or exceed a COF of 0.6, which is the recommended value for slip-resistant surfaces.
- ANSI A137.1: Evaluates slip resistance using the DCOF (Dynamic Coefficient of Friction) method. FRP step covers are tested to ensure they meet safety thresholds in both wet and dry conditions.
- OSHA 1910.22: Requires walking-working surfaces, including steps, to be slip-resistant to prevent accidents.

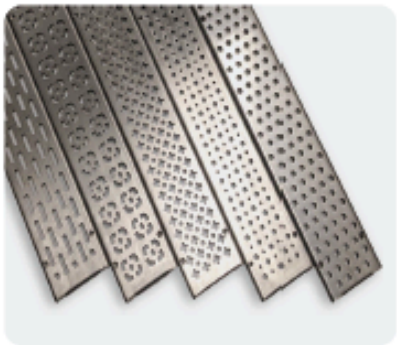
STAINLESS STEEL PRODUCTS



MANHOLE COVER



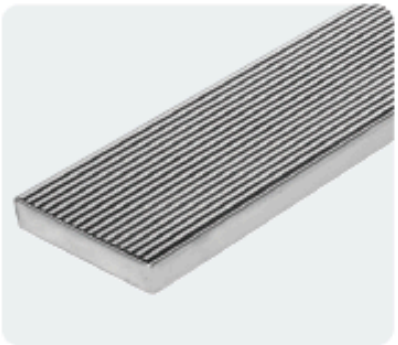
PRESS LOCK GRATING



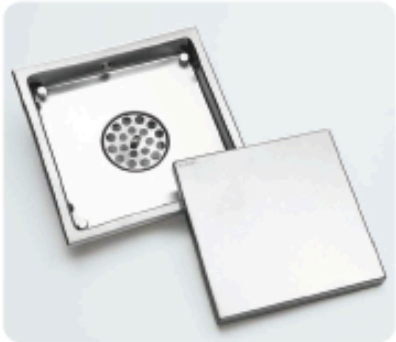
LINEAR DRAINS



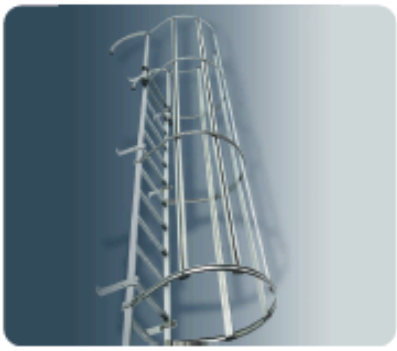
ACCESS HATCH



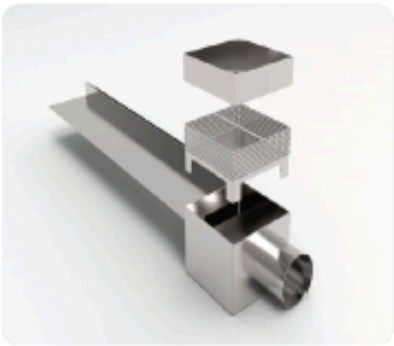
HEEL SAFE GRATING



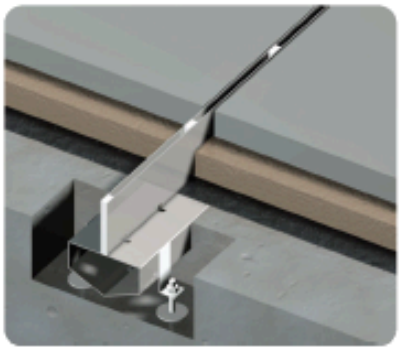
FLOOR DRAIN



SS LADDER



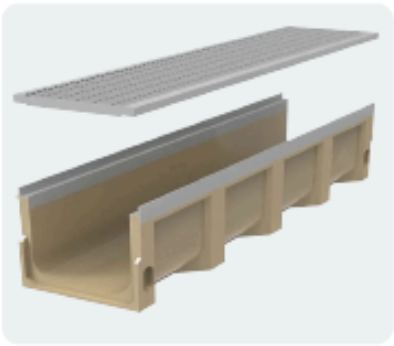
KITCHEN GRATING



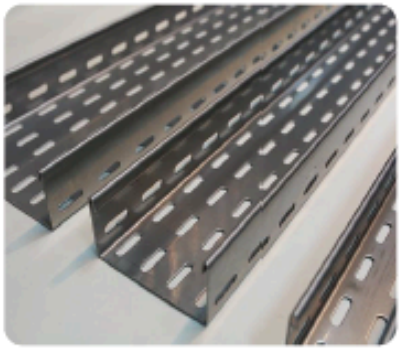
SLOTTED DRAIN



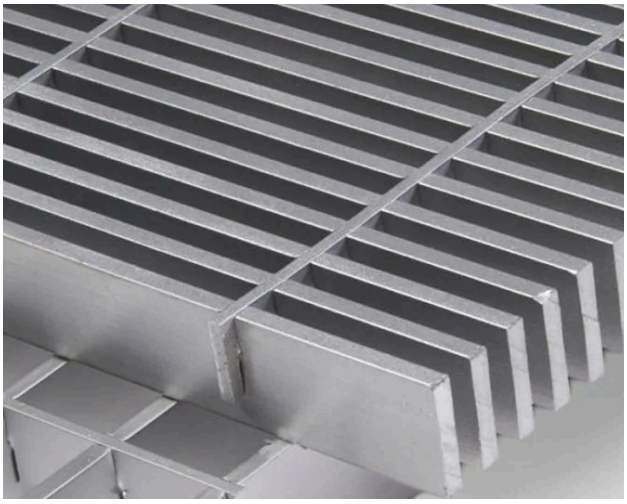
SS HANDRAIL



TRENCH GRATING



SS CABLE TRAY



STAINLESS STEEL GRATINGS

Ferrograte provides an extensive selection of stainless (inox) steel grating proles, tailored to suit various
applications. Our comprehensive services cover the entire project speciation process including drawing and layout speciation, manufacturing, quality control and timely delivery. Stainless-steel grating is typically crafted to meet project specification and requirements.
Load Bar Type: Plain (or) Serrated Finish :
Mll Finish, Brush Finish, Mirror Finish & Electro Polish Finish Material Grade : AISI 304, 304L, 316 & 316L

MANHOLE COVER - SS

Ferrograte stainless steel manhole covers are crafted from top-grade stainless steel, a material renowned for its corrosion resistance, strength, and longevity, Ferrograte manhole covers designed for heavy-duty applications, our covers boast high strength and impressive load-bearing capacity. This makes them suitable for use in various industrial settings, including roadways, airports, and infrastructure projects. The covers e actively handles substantial loads while maintaining structural integrity, ensuring a reliable and safe solution for critical access points. Manhole covers are usually manufactured in standard sizes. Custom-made sizes is also available upon request.
v Recessed Manhole Covers
v Solid top Manhole Covers
v Multiple Joint Top Manhole Covers



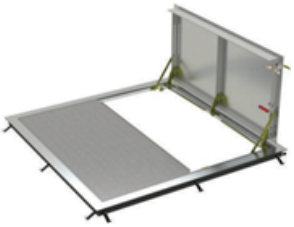
SOLID TOP TYPE



RECESSED TYPE



CHEQUERED TYPE





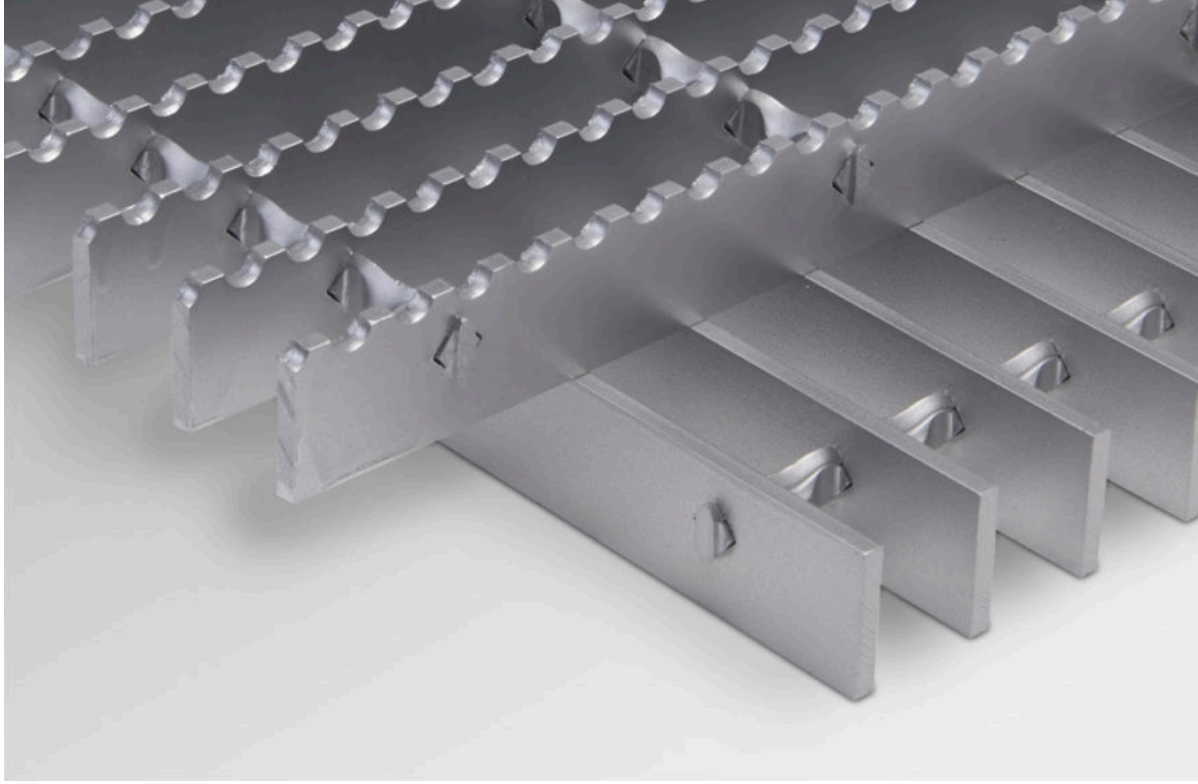




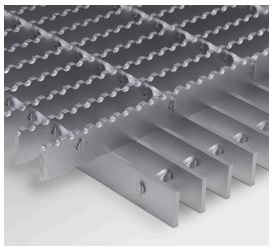
STAINLESS STEEL DRAINS

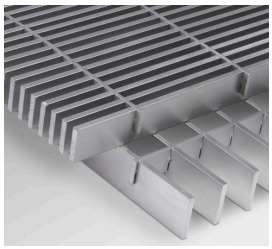
Ferrotech specializes in manufacturing and supplying stainless steel drain products as per international standards to suit any applications. Our drain products are widely used in industrial kitchen, shopping malls, commercial complex hotels, sh markets, food processing units, etc., our drain products are hygienic, durable and ease to install
v Stainless Steel Linear Drains
v Stainless Steel Floor Drains
v Stainless Steel Interceptors
v Stainless Steel Slot Drain

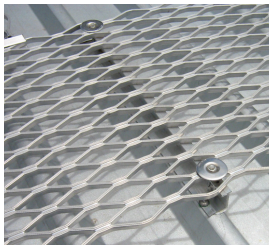
ALUMINIUM GRATING & MANHOLE COVER



ALUMINIUM GRATING







Ferrograte Aluminium Grating Ideal for Corrosive and Lightweight Applications

Aluminium grating is the perfect solution for environments where corrosion resistance, lightweight construction, and superior aesthetics are essential. Manufactured from high-quality 6063-T6 Aluminium, it offers excellent durability and versatility for both industrial and architectural applications.

Grating Rage - 25mm to 50mm height, Plain & Serrated Flat bar Finish

Mesh - 17mm- 50mm Pitch, customize options based on request,

Customisation Options:

Aluminium grating is available in standard-size panels or customised lengths to meet specific project requirements. A variety of load bar and cross bar combinations ensures a solution tailored to your application.

Applications:

Industrial Use: Ideal for walkways, platforms, and other corrosive environments.

Architectural Use: Commonly used as false ceilings, facades, or landscape features, adding both functionality and aesthetic value.

Types of Aluminium Grating,

- SwageLock Grating
- Press Lock Grating
- Expandable type Aluminium Grating

SWAGE LOCK GRATING

Ferrograte Swage lock grating manufactured uses swaged process (or mechanically locked) connections to secure crossbars to bearing bars.

Swaging

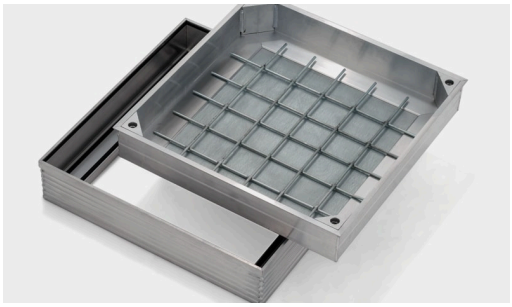
- A high-pressure swaging machine presses or drives the crossbars into pre-punched holes or indentations in the bearing bars.
- This mechanical process compresses and locks the crossbars in place without the need for welding, ensuring a permanent, vibration-resistant connection.
- Swaging provides a uniform appearance and eliminates potential weak points caused by welding.

PRESS LOCK GRATING

Press lock grating is manufactured through a process that mechanically presses crossbars into bearing bars, creating a rigid and secure connection. Unlike welded grating, this process does not involve heat, making it ideal for applications requiring a clean, aesthetic appearance and consistent structural integrity. Below are the manufacturing steps for press lock grating:

Process of manufacturing:

- Cutting
- Slotting
- Assembly
- Press Locking
- Surface Finish



ALUMINIUM MANHOLE COVER

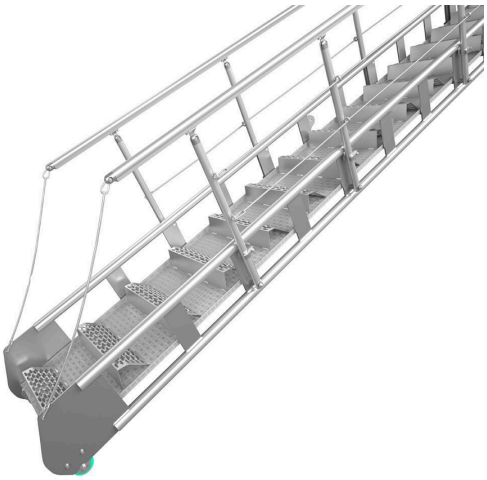
Ferrograte manufactures aluminum manhole covers that are widely used in shopping malls, commercial complex, residential units, etc. Manhole covers are usually manufactured in standard sizes. Custom made sizes is also available upon request

- Solid types
- Ressist type



ALUMINIUM ACCESS COVERS

Ferrograte manufactures aluminum access covers that are widely used in roof access, residential units etc. Types : Roof Type/ Up-Stand Type/Flushed Type/ Glazed Type/Drop-in Type Standard Sizes : 300 x 300 mm/ 600 x 600 mm/ 900 x 900 mm Thickness : As Per Specification Recess Depth : 100 MM Type of Seal : Double Seal Load Type : Light/ Medium/ Heavy Duty Material : Aluminium 6063/6082

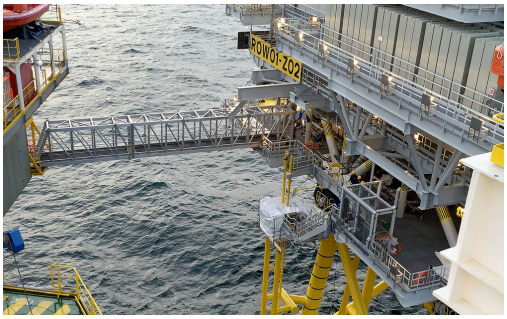


ALUMINIUM GANG WAY

Ferrograte manufactures aluminum gangway,
its is a lightweight, durable, antislip and corrosion-resistant bridge or ramp, commonly used in marine, industrial, and commercial settings. It's designed to provide safe access between platforms, vessels, docks, or uneven surfaces. Aluminum alloys like 6061-T6 or 5052 are commonly used for their strength and corrosion resistance.

Types of Aluminum Gangways

1. Fixed Gangways: Permanently installed, often used in industrial settings.
2. Portable Gangways: Lightweight and movable for temporary or seasonal applications.
3. Adjustable Gangways: Designed with height adjustments for changing water levels or uneven surfaces.
4. Rolling Gangways: Equipped with wheels for easy repositioning.



Standards and Regulations

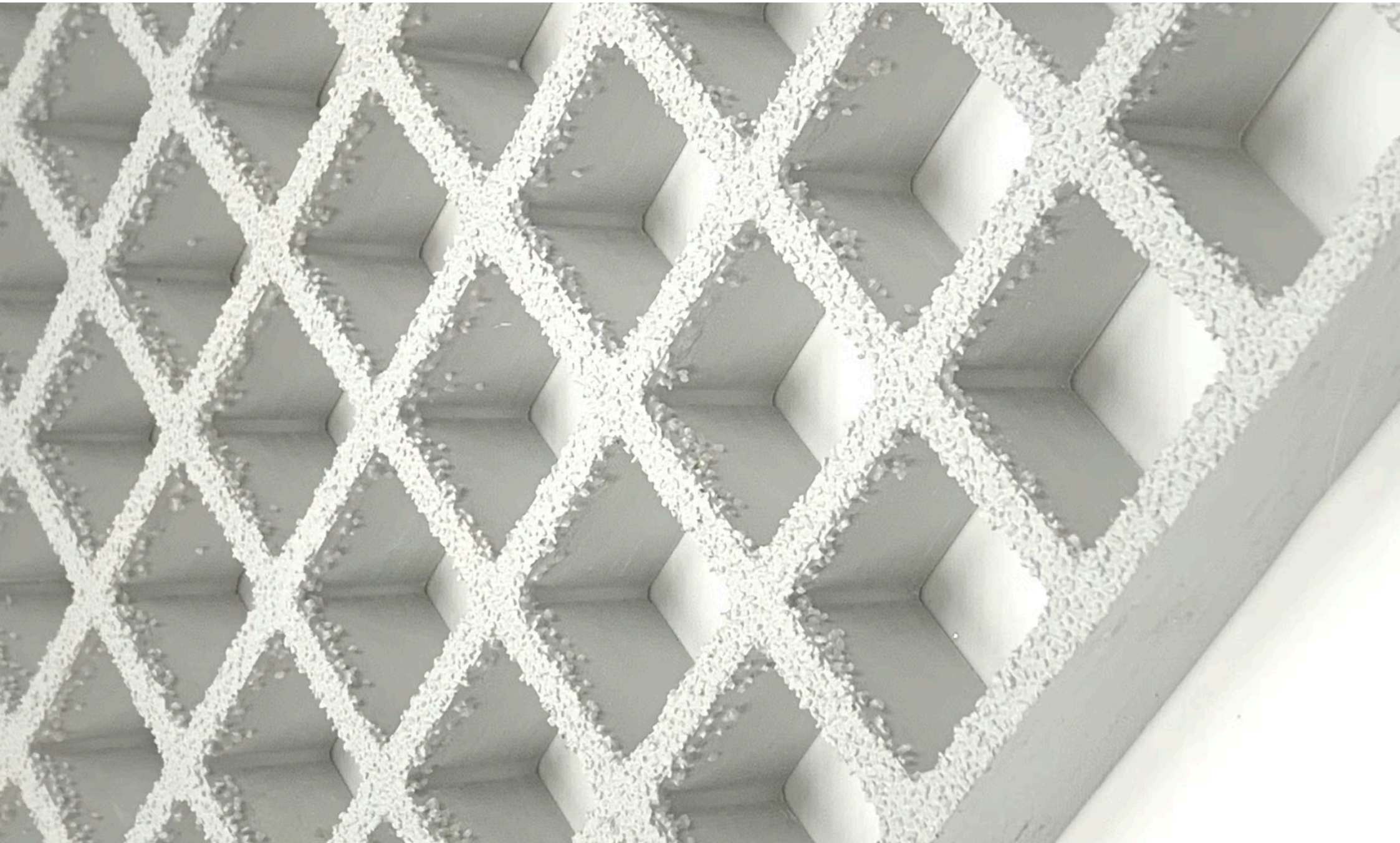
- Aluminum gangways often comply with industry standards like:
  - OSHA (Occupational Safety and Health Administration) for workplace safety.
  - ADA (Americans with Disabilities Act) for accessibility.
  - ISO standards for load and structural integrity.

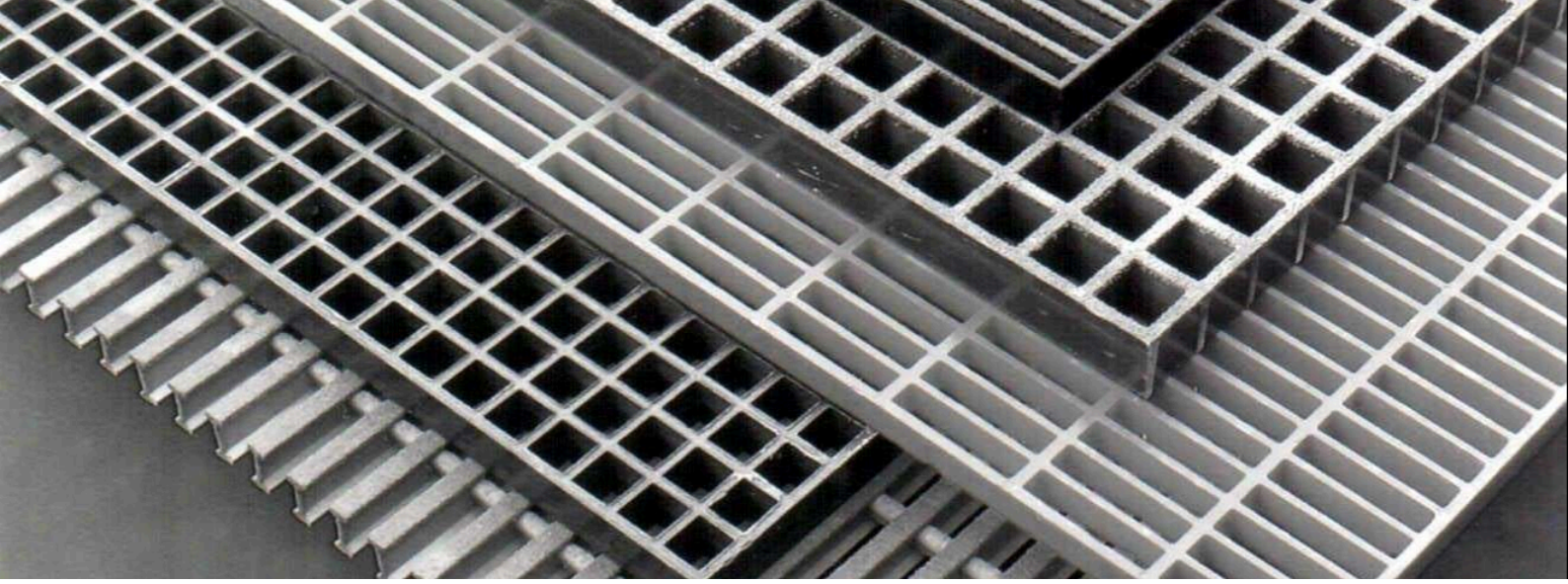
Customization Options

1. Length and Width: Ranges from small personal ramps to large-scale industrial gangways.
2. Load Capacity: Designed to handle pedestrian traffic, vehicles, or heavy equipment.
3. Adjustable Incline: Hinges, rollers, or hydraulic systems accommodate varying heights.
4. Accessories:
   - Safety gates.
   - Lighting systems.
   - Anti-corrosion coatings.

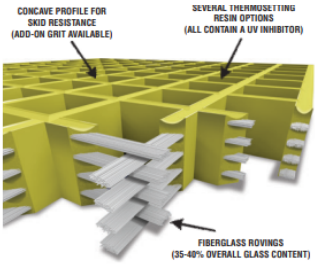


FIBERGLASS PRODUCTS





MOULDED GRATING



Ferrograte offer a complete line of fiberglass grating and accessories. Combining strength with unmatched corrosion resistance. Ferrograte Molded grating is created, layers of liquid resin and continuous fiberglass rovings are laid one after the other in a mold until the desired thickness and panel dimensions have been achieved. Once this is done, the mold is set aside to cure. When the curing process is complete, the panel is removed from the mold.

Key Features

- Corrosion Resistance -Resists chemicals, moisture, and extreme environmental conditions, ensuring long-term performance.
- Superior bi-directional load-bearing capabilities.
- High Strength-to-Weight Ratio - Provides outstanding structural strength while remaining lightweight for ease of handling and installation.
- Non-Conductive & Fire-Redardant
  a. Safe for use in environments where electrical conductivity or fire safety is a concern
  b. Fire Redardant Meets stringent fire safety standards (e.g., ASTM E-84).
  c. Fire-resistant options available
- Slip-Resistant Surface- Ensures safety in wet, oily, or slippery environments.
- Low Maintenance - Requires minimal upkeep, saving time and costs over its lifespan.

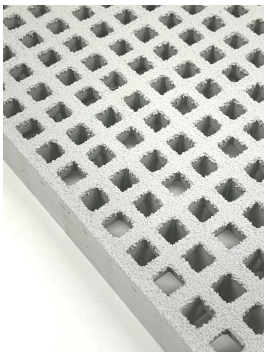
Resin Options

- **Isophalic polyester**
- **vinyl ester**
- **Phenolic**

FRP (Fiberglass Reinforced Plastic) gratings come in various types to suit diverse applications and environments. industries like - Chemical plants, marine environments, oil refineries, and water treatment plants, offshore platfroms.

Mini-Mesh FRP Gratings

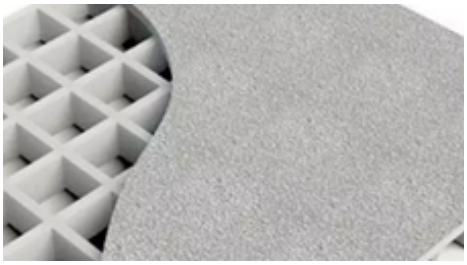
- Overview: Designed with a smaller opening size to accommodate pedestrian traffic and reduce the risk of small objects falling through.
- Features:
  - Enhanced safety for footwear and small tools.
  - Lightweight and easy to install.
- Applications:
  - Pedestrian walkways, architectural designs, and access platforms.

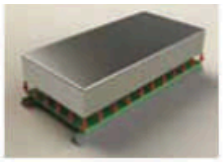


Covered FRP Gratings

- Overview: These are FRP gratings with a solid top surface for applications requiring a closed surface to prevent debris from falling through.
- Features:
  - Smooth or anti-slip top surface options.
  - High resistance to impact and wear.
- Applications:

Food processing areas, maintenance platforms, and walkways





UNIFORMLY DISTRIBUTED LOAD

			DISTANCE BETWEEN SUPPORTS							
MESHTYPE mmxmm	THICKNESS mm		400 mm	500 mm	600 mm	800 mm	1000 mm	1200 mm	1400 mm	1500 mm
100x25	25	U	5370	2770	1600	680	350	200	130	100
		d	4	5	6	8	10	12	14	15
40x40	25	U	3420	1760	1020	430	220	130	80	70
		d	4	5	6	8	10	12	14	15
40x40	30	U	6210	3200	1860	790	400	230	150	120
		d	4	5	6	8	10	12	14	15
8x8	30	U	7660	3960	2310	980	500	290	180	150
		d	4	5	6	8	10	12	14	15
19x19	30	U	6490	3360	1950	830	430	250	160	130
		d	4	5	6	8	10	12	14	15
40x40	38	U	12090	6260	3650	1550	790	460	290	240
		d	4	5	6	8	10	12	14	15
19x19	40	U	14390	7490	4370	1860	960	560	350	280
		d	4	5	6	8	10	12	14	15
50x50	50	U	22220	11600	6780	2890	1490	860	540	440
		d	4	5	6	8	10	12	14	15
19x19	50	U	28830	15140	8880	3800	1960	1140	720	580
		d	4	5	6	8	10	12	14	15
25x50	55	U	39790	20960	12320	5280	2720	1580	1000	810
		d	4	5	6	8	10	12	14	15
38x38	63	U	85090	44880	26410	11330	5850	3400	2150	1750
		d	4	5	6	8	10	12	14	15



CONCENTRATED LINE LOAD

			DISTANCE BETWEEN SUPPORTS							
MESHTYPE mmxmm	THICKNESS mm		400 mm	500 mm	600 mm	800 mm	1000 mm	1200 mm	1400 mm	1500 mm
100x25	25	C	1340	860	600	340	220	150	110	100
		d	4	5	6	8	10	12	14	15
40x40	25	C	850	550	380	220	140	100	70	60
		d	4	5	6	8	10	12	14	15
40x40	30	C	1540	1000	700	390	250	180	130	110
		d	4	5	6	8	10	12	14	15
8x8	30	C	1900	1230	860	490	310	220	160	140
		d	4	5	6	8	10	12	14	15
19x19	30	C	1610	1040	730	410	270	180	140	120
		d	4	5	6	8	10	12	14	15
40x40	38	C	3000	1950	1360	770	500	350	250	220
		d	4	5	6	8	10	12	14	15
19x19	40	C	3560	2320	1630	930	600	420	310	270
		d	4	5	6	8	10	12	14	15
50x50	50	C	5480	3590	2530	1440	930	650	480	420
		d	4	5	6	8	10	12	14	15
19x19	50	C	7090	4680	3300	1890	1220	850	630	550
		d	4	5	6	8	10	12	14	15
25x50	55	C	9760	6470	4580	2630	1700	1180	870	760
		d	4	5	6	8	10	12	14	15
38x38	63	C	20850	13840	9810	5630	3640	2540	1870	1630
		d	4	5	6	8	10	12	14	15

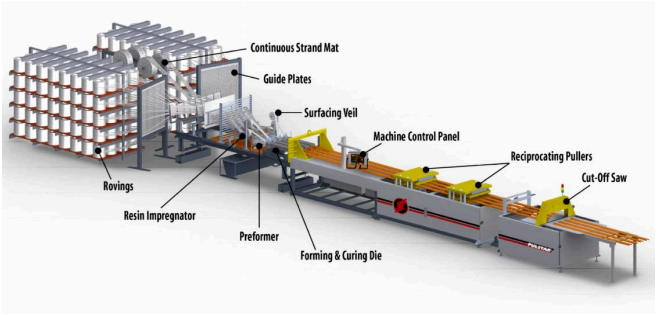


PULTRUDED GRATING

Pultruded FRP Gratings made through a pultrusion process, these gratings consist of continuous fiberglass reinforcements and resin systems.

- Features:
  - High unidirectional strength for applications with significant loading requirements.
  - Fire resistance with specialized resins.
  - Lightweight yet robust construction.
  - Meets stringent fire safety standards (e.g., ASTM E-84).

- Applications:
  - Platforms, walkways, trench covers, and industrial flooring.
  -



I-Shape bars, T-Shape bars, and High-Load bars for Heavy-Duty Applications. The bearing bars are interconnected with cross-rods.

Heavy-Duty FRP Gratings

Overview: Specifically engineered to withstand heavy loads and rigorous conditions.

Features:
- Thicker bars and higher load capacities.
- Excellent performance under vehicular or heavy equipment traffic.

Applications:
- Industrial floors, loading docks, and trench covers.



Phenolic FRP Gratings

Overview: Manufactured with phenolic resin for exceptional fire resistance and low smoke emissions.

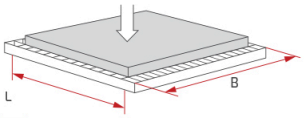
Features:
Meets stringent fire safety standards (e.g., ASTM f-3059).
Suitable for environments with extreme heat or fire hazards.

Applications:
Offshore platforms, ship decks, and chemical facilities.

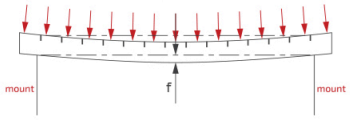


SELECTION & DESCRIPTION

CODE	BEARING BAR	BAR WIDTH	BAR SPACING	OPEN SPACE	WEIGHT KG/M2	OPEN AREA
GI-6010	"I H=25,4	15.2 mm	38.1 mm	22,9 mm	11.0	60%
GT-3310	"T" H=25,4	38.1 mm	50.8 mm	12,7 mm	12.2	33%
GI-5015	"I" H=38,4	15.2 mm	30.5 mm	15,2 mm	19.1	50%
GI-6015	"I" H=38,1	15.2 mm	38.1 mm	22,9 mm	16.1	60%
GT-3320	"T" H=50,8	25.4 mm	38.1 mm	12,7 mm	19.5	33%
GT-5020	"T" H=50,8	25.4 mm	50.8 mm	25,4 mm	15.1	50%

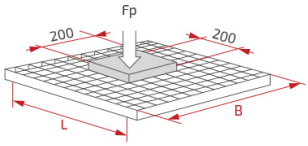


— uniform load in kg/m²

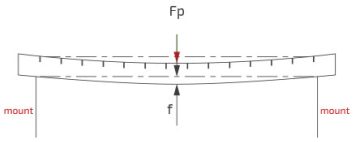


D — deflection due to uniform load -mm

LOAD TABLES 38.1MM THICK GRATINGS		UNIFORMLY DISTRIBUTED LOAD (KG/M2) - DEFLECTION IN MM								
SPAN (mm)	CODE	250	500	750	1000	1250	1500	2000	2500	3000
800	GI-5015	<1	<1	<1	<1	1.1	1.2	1.7	2.2	2.5
	GT-6015	<1	<1	<1	1.1	1.4	1.6	2.2	2.8	3.2
1000	GI-5015	<1	1.1	1.6	2.2	2.7	3.3	4.4	5.5	6.6
	GT-6015	<1	1.4	2.1	2.8	3.5	14.2	5.6	7.0	8.4
1200	GI-5015	1.2	2.4	3.5	4.7	5.9	7.1	9.5		
	GT-6015	1.5	3	4.5	6.0	7.5	9.0	12.0		
1400	GI-5015	2.1	4.3	6.5	8.7	10.8	12.9			
	GT-6015	2.7	5.5	8.2	11.0	13.7	16.4			
1600	GI-5015	4.0	8.0	12.0						
	GT-6015	5.1	10.2	15.3						
1800	GI-5015	6.7	13.5							
	GT-6015	8.5	17.0							



— concentrated load in kg on an area of 200x200 mm



D — deflection from concentrated load - mm

LOAD TABLES 38.1MM THICK GRATINGS		CONCENTRATED LINE LOAD (KG/M2) - DEFLECTION IN MM								
SPAN (mm)	CODE	150	300	450	600	750	900	1050	2100	4200
800	GI-5015	<1	<1	<1	<1	1.5	1.8	2.1	4.2	8.4
	GT-6015	<1	<1	<1	<1	1.9	2.3	2.7	5.4	10.8
1000	GI-5015	<1	1.2	1.8	2.4	3.0	3.6	4.1	8.2	
	GT-6015	<1	1.5	2.3	3.0	3.8	4.6	5.2	10.4	
1200	GI-5015	1.0	2.0	3.0	4.0	5.0	6.0	7.0	14.0	
	GT-6015	1.3	2.6	3.9	5.2	6.5	7.8	9.1		
1400	GI-5015	1.4	2.8	4.2	5.6	7.0	8.4	9.8		
	GT-6015	1.8	3.6	5.4	7.2	9.0	10.8	12.6		
1600	GI-5015	2.7	5.4	8.1	10.8	13.5				
	GT-6015	3.5	7.0	10.5	14.0					
1800	GI-5015	3.6	7.2	10.8	14.4					
	GT-6015	4.6	9.2	13.8						

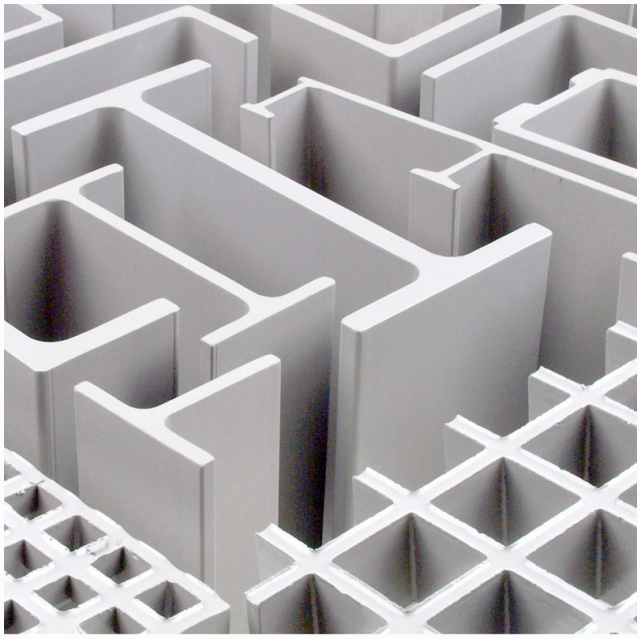
FRP PLATFORM



FERROGRATE design, manufacture & supply FRP / GRP WALKWAY & ACCESS PLATFROM by using Structural profiles, this custom-made platform is acid-base corrosion resistant, and easy for installation,
FRP/GRP profiles are manufactured using a pultrusion process (polymerisation of a profile pulled through a heated die) and contain up to 70% fibreglass, ensuring exceptional mechanical strength. Their structure, composed of continuous directional glass fibres, gives them excellence resistance to impact and fatigue (overloading does not cause permanent deformations).

FRP (Fibre Reinforced Plastic) pultruded profiles have various advantages: extraordinary rigidity, corrosion resistance, electrical insulation and light weight. Designed by specialists in composite structures, pultruded profiles take into account all the properties required in a load-bearing profile or beam, such as longitudinal strength, shear resistance, flange flexural resistance and transversal strength.
applications for pultruded profiles and self-supporting structures, pultruded fibreglass profiles are designed to be used as structural supports with all the necessary performance guarantees.

FRP STRUCTURAL PROFILES



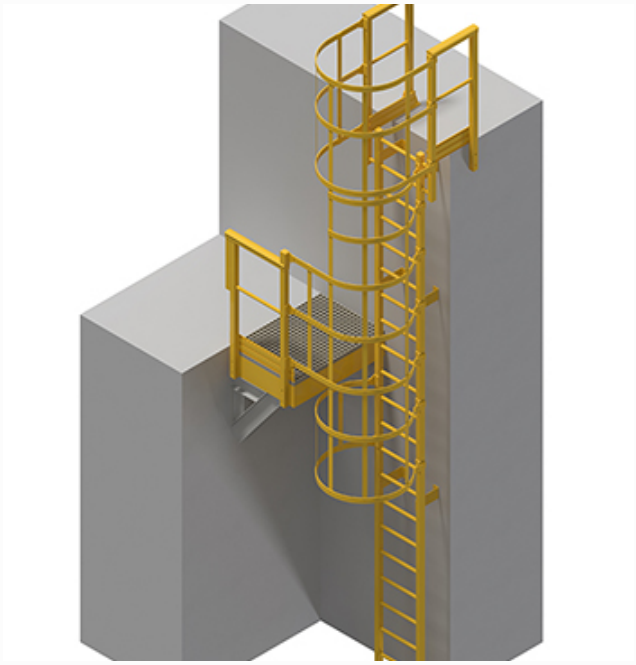
FRP (Fiber Reinforced Plastic) structural profiles are composite materials made by combining fiberglass reinforcement with a polymer resin matrix. These profiles are lightweight, durable, and resistant to corrosion, making them ideal for use in industrial, commercial, and infrastructure applications. Here's a detailed overview:

Types of FRP Structural Profiles

1. Standard Shapes:
   - I-Beams: Used for structural support in frameworks.
   - Channels (C-Profiles): Provide stability in edge support or as framing components.
   - Angles (L-Profiles): Reinforce corners or edges in construction.
   - Square and Rectangular Tubes: Used in lightweight structural applications or as columns.
   - Round Tubes: Common in railings, pipelines, and load-bearing posts.
   - Flat Bars: Ideal for tension members or as joining strips.
2. Custom Profiles:
   - Manufacturers can create custom shapes tailored to specific project needs.

Property	FRP	Steel	Aluminum
Corrosion Resistance	Excellent	Poor (requires coatings)	Moderate
Strength-to-Weight	High	Moderate	High
Maintenance	Low	High	Moderate
Conductivity	Non-Conductive	Conductive	Conductive
Cost (Initial)	Higher	Moderate	Higher
Cost (Lifecycle)	Lower	Higher	Moderate

FRP LADDERS



Ferrotech FRP Pultruded Ladders are Manufactured with isophthalic / Vinyl Easter resin pultruded profiles, Ladders are Custom made with safety cage option use where safe vertical climbing access is required. We can design and fabricate ladder system to meet tailor made as per client requirements.

Fiberglass Reinforced Plastic (FRP) Ladders and Safety Cages are Design, accordance with OSHA standards, Section 1910.27,

FRP Ladders and Safety Cages are fabricated from FRP Pultruded profiles which will have a Class 1 fire retardance, as per ASTM E-84 flame spread rating of 25 or less.

Corrosion proof ladders. Fixed vertical ladders are suitable for any application in corrosive environments.

Resin Options

- Isophthalic Resin
- Vinyl Ester Resin

Excellent mechanical resistance

The excellent mechanical resistance and the anti-slip rung profile, make the ladders ideal for intensive use. Model 470 is in conformity with EN 14122 standards.

Easy to use

Supplied in the requested lengths (up to 6 m in one part, beyond 6 m, in two parts). With or without fixing plates, with or without safety cage, they can be adapted to any application. Their lightweight structure further helps easy installation.

FRP HANDRAILS



The handrail system components are manufactured with the pultrusion process (raw materials pulled through a resin bath and pre forming die) and contain up to 70% fiberglass which guarantees remarkable mechanical properties.

The internal composition of continuous directional glass fibers, determines an exceptional resistance to impact and fatigue (permanent deformations do not occur in case of accidental over load).

Lightweight and very easy to install, the railing systems are particularly well-suited to corrosive environments like those found in industrial, chemical and wastewater treatment plants as well as commercial structures with urban and salt air corrosion.

FRP handrails are available in:

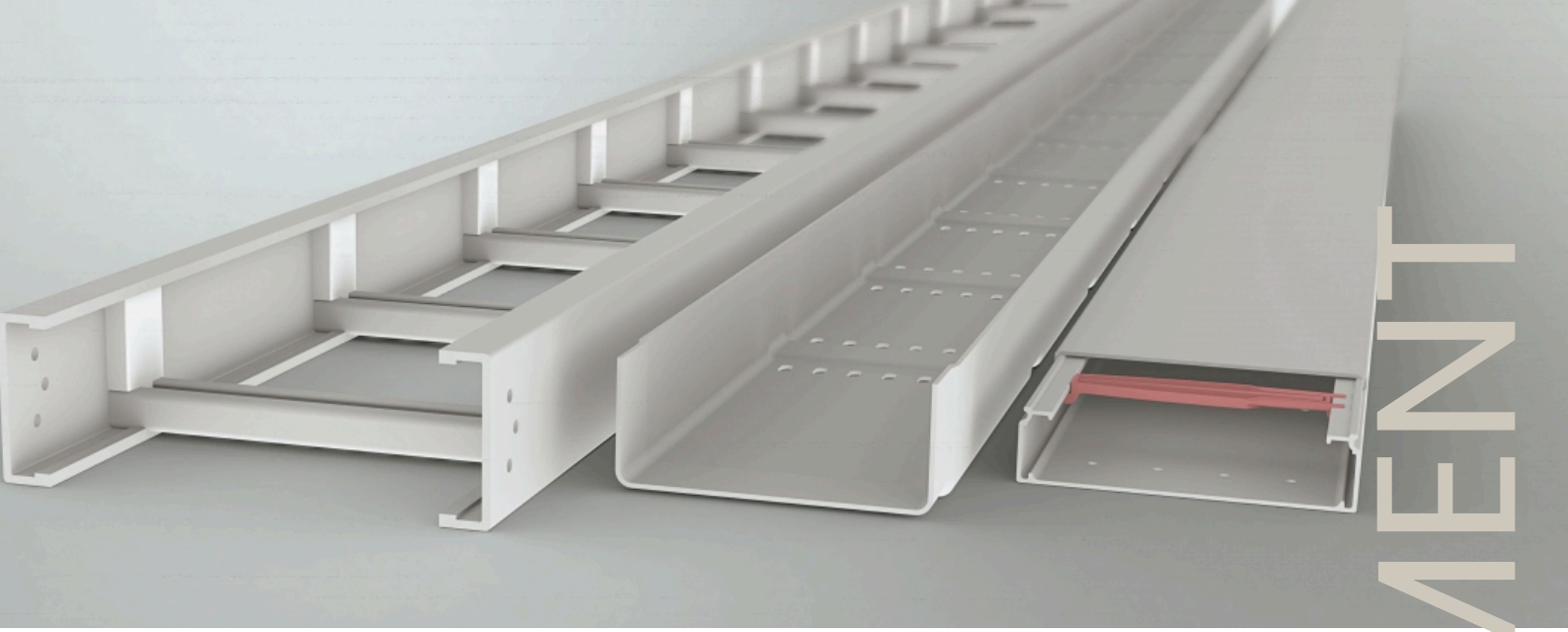
- Round Type Handrails
- Square Type Handrails

Top Benefits

- Corrosion resistance Slip resistance Lightweight yet durable
- Fire retardant Low maintenance UV Protection
- Easily fabricated Quick and easy to install
- Electrically and thermally non-conductive
- Electronically transparent

Market Sectors

- Chemical plants Desalination Power Marine Naval Oil & gas
- Textile industry Electrical substations Pulp & paper
- Waste treatment Telecommunication Mass transit
- Tanneries Water treatment



CABLE MANAGEMENT

CABLE MANAGEMENT SYSTEM

Ferrotech Cable Management System offers a complete range for Electrical contractors to Route and Support from light duty to heavy duty cables. It is flexible to install and applied to serve ideal locations in Oil and Gas Industries, Power Sectors, Industrial Units, Commercial I Residential Projects, etc.,
Material Specification
+ Pre-Galvanized to BS EN 10346 I IS 277
+ Mild Steel to Hot Rolled ASTM A1011 / BS 4360 / EN 10025-2 / IS 1079
+ Cold Rolled ASTM A568M / BS 1449:1 / EN 10130 / IS 513
+ Stainless Steel SS 304 / SS 316 to ASTM A240 / BS EN 10088-2
+ Aluminum to 6063 I IS 737
+FRP/GRP Cable Tray / Cable Ladder system

FRP CABLE TRAYS/ CABLE LADDERS

Ferrotech FRP Cable Tray system are Manufactured from Glass Armoured thermoset fire retardant resins. Available in different range, applied for ideal locations where the Metallic systems get easily corroded. Our FRP Cable tray system meet Stringent Fire Retardant requirements & includes advantages as Anti Corrosion, High Strength, No Earthing, UV Resistant, Good Electrical Insulation, Low ThermalConductivity, etc.,

Standards
- IS 6746 -1994 Specs for Unsaturated Polyester Resin System
- NEMA FG-1 1984-1993 for Low Pressure Fiber Reinforced Plastics Specification for Fiberglass Tray System
- Loading Characteristics IS 6746 Appendix K/UL 94 Flame Retardant (Low Flammability/v0)

Types Available

Ferrotech FRP Cable Tray Systems are available in Perforated Type Cable Tray System and Ladder Type Cable Tray System.

FRP Perforated Type Cable Tray System

Width(mm) : 50 / 75 / 100 / 150 / 225 / 300 / 450 / 600
Height(mm) : 25 / 30/ 50/ 100
Thickness(mm) : 2 mm To 4 mm
Length(mm) : 3000
Resin Type : Polyester / Vinyl Ester

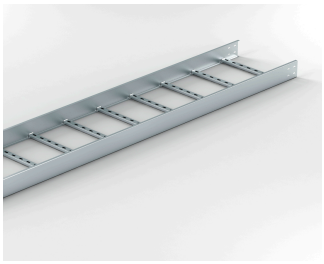
FRP Ladder Type Cable Tray System

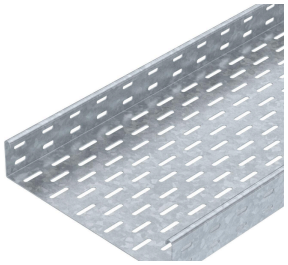
Width(mm) : 150 / 300 / 450 / 500 / 750 / 900
Height(mm) : 50/ 75/ 100/ 150 / 200
Thickness(mm) : 2 mm To 4 mm
Length(mm) : 3000
Resin Type : Polyester / Vinyl Ester

Resin Type	Resin Base	Description	Flame Spread Rating ASTM E84
Type IFR	Isopthalic Polyester	Industrial Grade Corrosion resistance & fire retardant	Class 1, 25 or less
Type I	Isopthalic Polyester	Industrial Grade Corrosion resistance in acidic environment	Non fire retardant
Type V	Vinyl Ester	Superior Corrosion resistance & fire retardant	Class 1, 25 or less

FRP Cable Tray Fittings
Ferrotech FRP Cable Tray System are supplied with fittings like bends, tees, cross, reducers, etc. to ease and to meet the Project Requirements. Sizes will be in line to the supplied Straight Runs. Some of Fittings are listed below.
Accessories & Hardware's

Ferrotech FRP Cable Tray System is supplied with complete range of Accessories which includes FRP Standard Couplers, Expansion Couplers, FRP Angle Plates, FRP Adjustable Splice Plates, FRP Hold Down Clip, FRP/SS Hold Down Clamp, FRP Cover Clamps, TrefoilClamp, Cable Ties, Blind Plates, Divider Strips, SS Fish plate and suitable Hardware's.





STEEL CABLE TRAY / CABLE LADDER

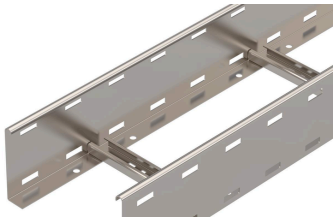
Specification - Details

Specification	Details
Material	Steel (Mild Steel, Galvanized)
Finish	Powder Coated; Hot-Dip Galvanized
Tray Width	100mm, 150mm, 200mm, Customizable
Tray Height	50mm, 75mm, 100mm
Load Capacity	Up to 500 kg per meter
Standard Length	2m, 3m, Customizable
Ladder Width	300mm, 400mm
Compliance	ISO 9001, RoHS
Application	Industrial, Commercial Buildings, Data Centers

STEEL CABLE TRAY / LADDER
Ferrograte, Steel Cable Trays and ladder provide a robust, reliable solution for managing and organizing electrical cables in both industrial and commercial environments. Designed for strength and durability, these trays are ideal for use in heavy-duty applications where load-bearing capacity is a priority.
Standrdds -

- Pre-Galvanized to BS EN 10346 I IS 277
- Mild Steel to Hot Rolled ASTM A1011 / BS 4360 / EN 10025-2 / IS 1079
- Cold Rolled ASTM A568M / BS 1449:1 / EN 10130 / IS 513





STAINLESS STEEL CABLE TRAY AND LADDERS

Specification - Details

Specification	Details
Material	Stainless Steel (304, 316, 316L)
Finish	Brushed, Polished
Tray Width	100mm, 150mm, 200mm, Customizable
Tray Height	50mm, 75mm, 100mm
Load Capacity	Up to 700 kg per meter
Standard Length	2m, 3m, Customizable
Ladder Width	300mm, 400mm
Compliance	ISO 9001, ASTM A240
Application	Food Processing, Marine, Chemical Plants

Ferrograte Stainless Steel Cable Tray and ladders offer superior resistance to corrosion, making them ideal for harsh environments such as chemical plants, food processing facilities, or coastal areas. These trays ensure long-term durability while providing a clean and organized solution for cable management.
Standards - Stainless Steel SS 304 / SS 316 to ASTM A240 / BS EN 10088-2
Key Benefits/Features:

- Corrosion-Resistant: Made from high-grade stainless steel for superior resistance to rust and corrosion.
- Aesthetic Appeal: Sleek, modern design fits well in visible
- High Durability: Perfect for environments with extreme temperatures or moisture.
- Maintenance-Free: No need for painting or coating; stays clean and durable.



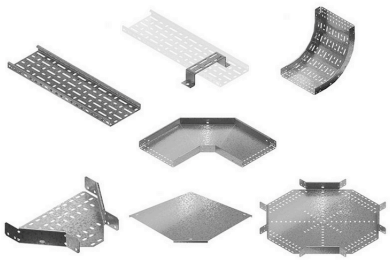
ALUMINIUM CABLE TRAY

Specification - Details

Specification	Details
Material	Aluminium (Alloy 6063 T5)
Finish	Anodized, Powder-Coated
Tray Width	100mm, 150mm, 200mm, Customizable
Tray Height	50mm, 75mm, 100mm
Load Capacity	Up to 200 kg per meter
Ladder Width	300mm, 400mm
Standard Length	2m, 3m, Customizable
Compliance	ISO 9001, RoHS
Application	Office Buildings, Light Industrial, Data Centers

ALUMINIUM CABLE TRAY
Ferrograte Aluminium Cable Tray and Ladder systems provide lightweight yet sturdy solutions for managing cables in less demanding environments. Ideal for office buildings, light industrial applications, or where ease of installation and aesthetic appeal are priorities.
Key Benefits/Features:

- Lightweight: Aluminium construction makes these trays easier to handle and install, reducing labor costs.
- Corrosion-Resistant: Excellent performance in areas with mild environmental exposure, resistant to corrosion and rust.
- Flexible Design: Available in tray and ladder configurations,
- Energy-Efficient: Aluminium is a highly conductive material, helping with heat dissipation.
- Custom Sizes: Tailored width and length to meet the project needs,



Types
Ladder - Formed side rails are welded to 15 /8 in. wide rungs to provide maximum rigidity and strength.
Ventilated - A fabricated structure consisting of integral or separate longitudinal rails and a bottom having openings sufficient for the passage of air and utilizing 75% or less of the plane area of the surface to support cables. The maximum open spacings between cable support surfaces of transverse elements do not exceed 102 mm (4 in.) in the direction parallel to the tray side rails (rung to rung).
Solid trough - Solid sheet welded to steel side rails below rungs. This design offers added cable protection.

Additional components such as Straight Sections, Elbows (90° & 45°), Tees & Crosses, Reducers, Connectors (Couplings), Brackets & Supports, Covers & Lids, Hangers & Clamps, End Caps, and Cable Management Accessories are also available in all the material grades.



Manhole Covers

Manhole covers are protective lids placed over openings to underground utilities like sewers, storm drains, and electrical systems. They ensure safety by preventing accidents and unauthorized access while allowing maintenance access when needed.
Typically made from materials like ductile iron, steel, Stainless Steel, or composites, they are designed to withstand various load capacities, from pedestrian to heavy vehicular traffic.

Ductile Iron / Manhole Covers

FERROGRATE, ductile iron manhole cover is a type of access cover used to cover openings to underground utility chambers, such as sewer systems, drainage systems, or utility lines. Made from ductile cast iron, these covers are prized for their high strength, durability, and resistance to wear and environmental factors. Ductile iron (also called nodular iron or spheroidal graphite iron) is a type of cast iron in which the carbon content forms spherical graphite nodules rather than flakes. This unique microstructure imparts superior mechanical properties compared to traditional cast iron.

Types of Ductile Iron Manhole Covers

1. By Load Capacity (Based on EN 124 or AASHTO standards):
   - Light Duty: For pedestrian areas or gardens.
   - Medium Duty: For driveways or light vehicle traffic.
   - Heavy Duty: For highways, airports, and areas with heavy vehicular traffic.
2. By Shape:
   - Circular: Most common, prevents the cover from falling into the opening.
   - Rectangular/Square: Easier to align with the surrounding pavement.
   - Customized Shapes: Designed for specific applications or aesthetics.
3. By Surface Design:
   - Non-Slip Finish: For enhanced safety in wet conditions.
   - Ventilated Covers: Include holes or slots for airflow in underground chambers.
   - Decorative Covers: Feature unique patterns or municipal logos for aesthetic purposes.

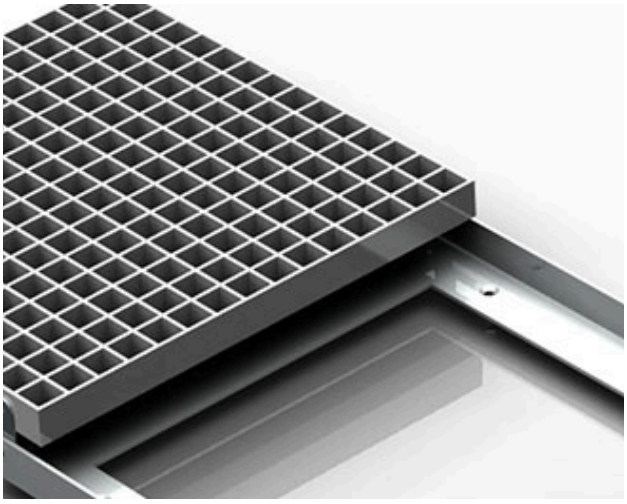
Standards and Classifications

Ductile iron manhole covers are often classified based on load capacity and application under standards like EN 124 (Europe) or AASHTO M306 (North America). Common classifications include:

- A15: Pedestrian areas only.
- B125: Light traffic areas, such as car parks.
- C250: Medium traffic, such as residential streets.
- D400: Heavy traffic areas like main roads.
- E600: Industrial areas or airports.
- F900: Extreme loads, such as runways or heavy-duty industrial zones.



MANHOLE COVER



FRP ACCESS COVER

Ferrotech specialise in the Design, Fabrication Supply, & Installation of advanced Fibreglass Reinforced Plastic (FRP/GRP) Structural. We partner with clients to Develop Suitable Solutions that deliver considerable savings in life cycle costs & health & safety benefits; trenches & Manholes We offer a precision cutting service at our GRP Processing Centre to meet your exact specifications and a cost-effective installation service. FRP/GRP is perfect suitable to cover the open

Covers are available with many options like open type, closed type & hatch type etc.., inorder to cover the larger openings Ferrotech will design, fabricate and supply Covers with intermediate FRP beams, suitable for carrying 3KN,5KN -10KN, special covers are available to with stand heavy load based on client custom made requirement,

FRP MANHOLE COVER

Ferrograte FRP (Fiber Reinforced Plastic) manhole covers are lightweight, durable, and non-corrosive alternatives to traditional cast iron or ductile iron covers. These covers are made using composite materials like fiberglass reinforcement combined with a polymer resin matrix (e.g., polyester, vinyl ester, or epoxy). They are designed to meet specific technical requirements for load-bearing, durability, and environmental resistance.

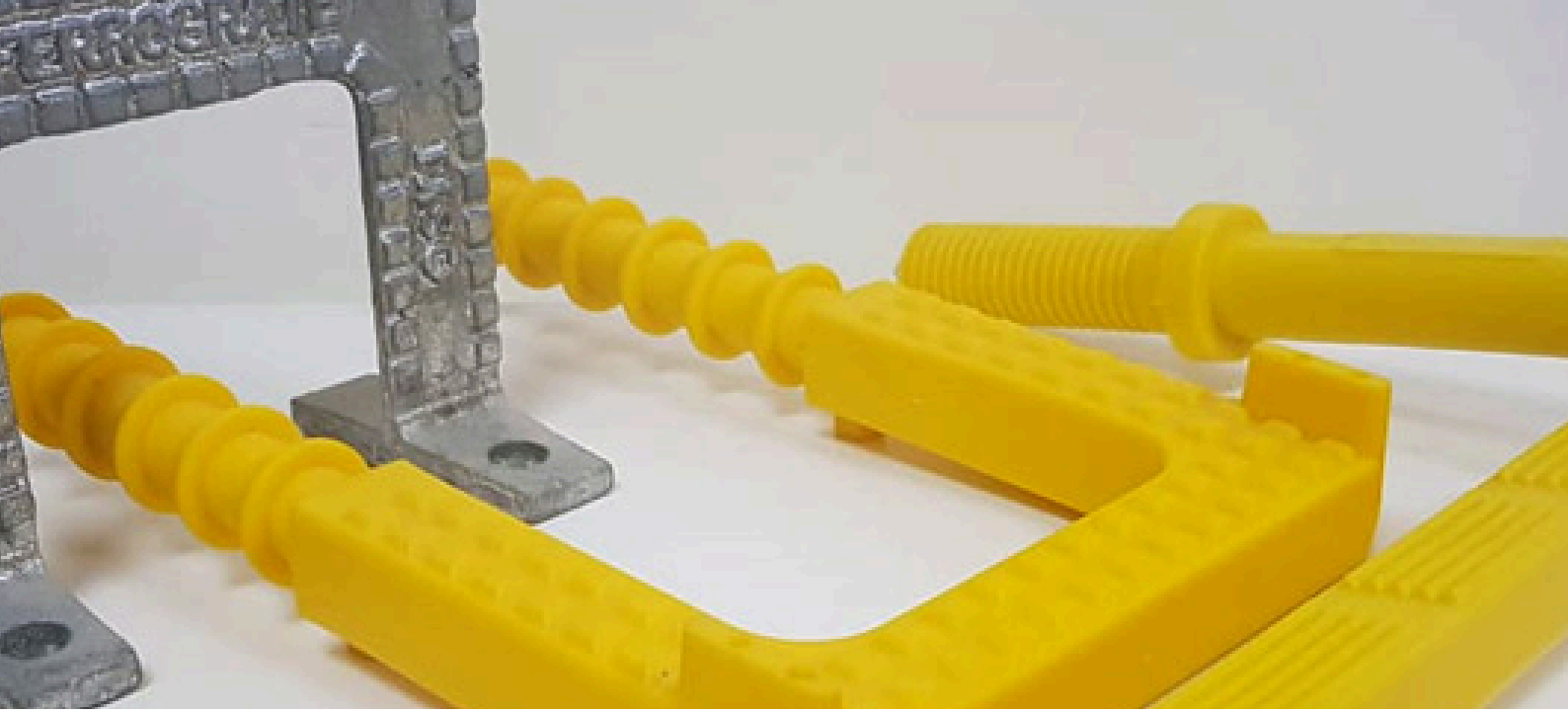


FRP manhole covers offer a modern, efficient solution for covering utility openings, providing superior durability, safety, and environmental resistance compared to traditional materials.

Manufacturing Process

FRP manhole covers are typically made using the compression molding process:

1. Material Preparation:
   - Fiberglass reinforcements and resins are combined with fillers and additives for enhanced properties.
2. Molding:
   - The mixture is placed into a heated mold and compressed under high pressure to form the desired shape.
3. Curing:
   - The molded cover is heated to cure the resin, ensuring rigidity and strength.
4. Finishing:
   - Anti-slip coatings, custom designs, or decorative patterns are applied as per requirements.
5. Quality Testing:
   - Covers are tested for load capacity, impact resistance, and dimensional accuracy.



STEP IRON (RUNGS)

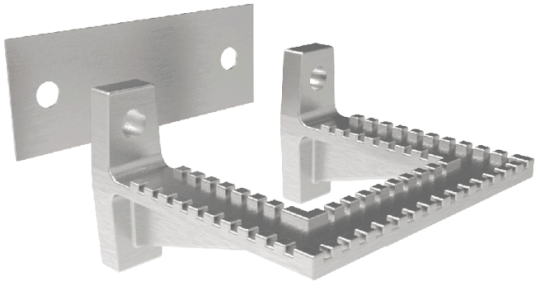
Ferrograte is a world leading manufacturer of infrastructure access equipment for the water and wastewater industries. We designs & manufactures quality access equipment with Cast Iron with Gl Finish, Stainless Steel, Aluminium, Galvanized Steel, Plastic encapsulated and FRP.
Step Irons generally used in Sewer man holes, Storm Water, Inspection Man holes, Water line man holes etc. In old days steel rings fixed to concrete structure used to enter and come out of the man holes. The design of the Ferro Step plastic encapsulated step iron complies with EN13101-2002

Our Step Irons are produced as per the standard BS1247:
BS 1247-1- Manhole steps. Specification for galvanized ferrous or stainless-steel manhole steps
BS 1247-2- Manhole steps. Specification for plastics encapsulated manhole steps
BS 1247-3- Manhole steps. Specification for Aluminium manhole steps

Types of Step Irons - Ductline Iron - Bitumen Coated / HDG / & Polypropylene Coated Step Irons

Features

- Spark Proof
- Corrosion protection
- Comprehensive product range
- Anti Slip Surface - ergonomically designed grip
- High impact polymer coating
- Easy to install and cost effective
- The design incorporates a non-slip tread and resistance to side slippage



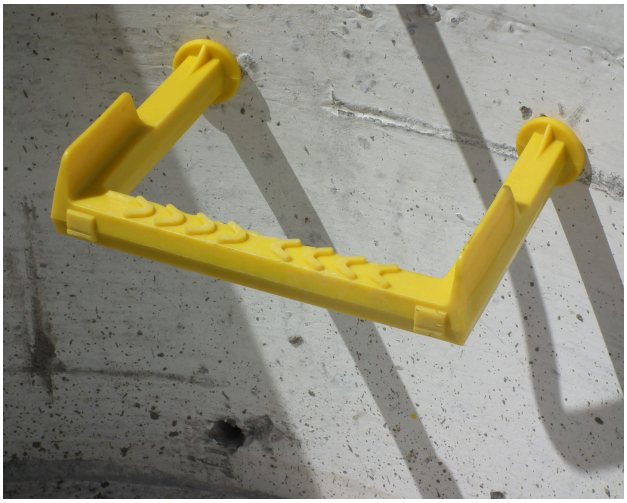
HDG DUCTILE IRON STEP IRON

Manufactured from ductile iron and hot dip galvanised to BS EN ISO 1461. All step irons have an anti-slip design on the top face. Double width step irons have raised sides to help prevent foot slippage.

Bolt-On type steps have 2 No. 15mm diameter holes for which we recommend the use of a 12mm diameter bolt of the rag (expanding) type.

STEP IRONS

POLYPROPYLENE COATED STEP IRONS



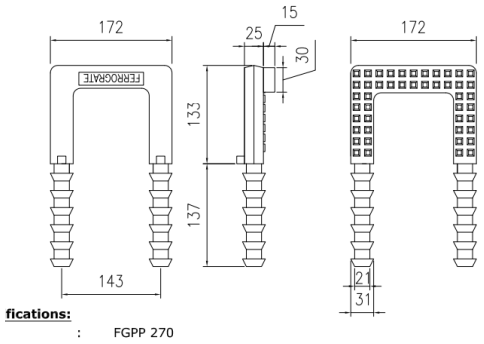
Ferrograte step irons are manufactured from a polypropylene copolymer which complies with ASTM 4101 with a continuous central galvanised steel support for the full length of the step iron.

The fully encapsulated step irons side arm protection of 60 mm, the steel bar is totally protected. Polypropylene is chemically tested and has excellent resistance to acids, alkalis and chemicals present in sewers, drains and aggressive environments. Polypropylene is also a non-toxic material.

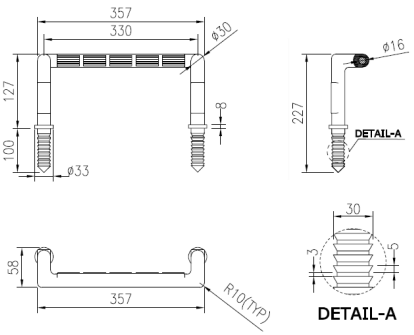
Ferrograte step irons are designed for several application in stormwater, sewerage and other general access applications. The design of Ferrograte step irons enhanced to offer a high-quality product at a competitive price, The design of the Ferro Step plastic encapsulated step iron complies with EN13101-2002

STANDARD AVAILABLE FERROSTEP IRON

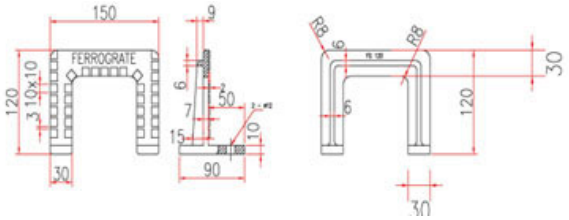
PVCFG250: PVC encapsulated steps



PVCFG357: PVC encapsulated steps

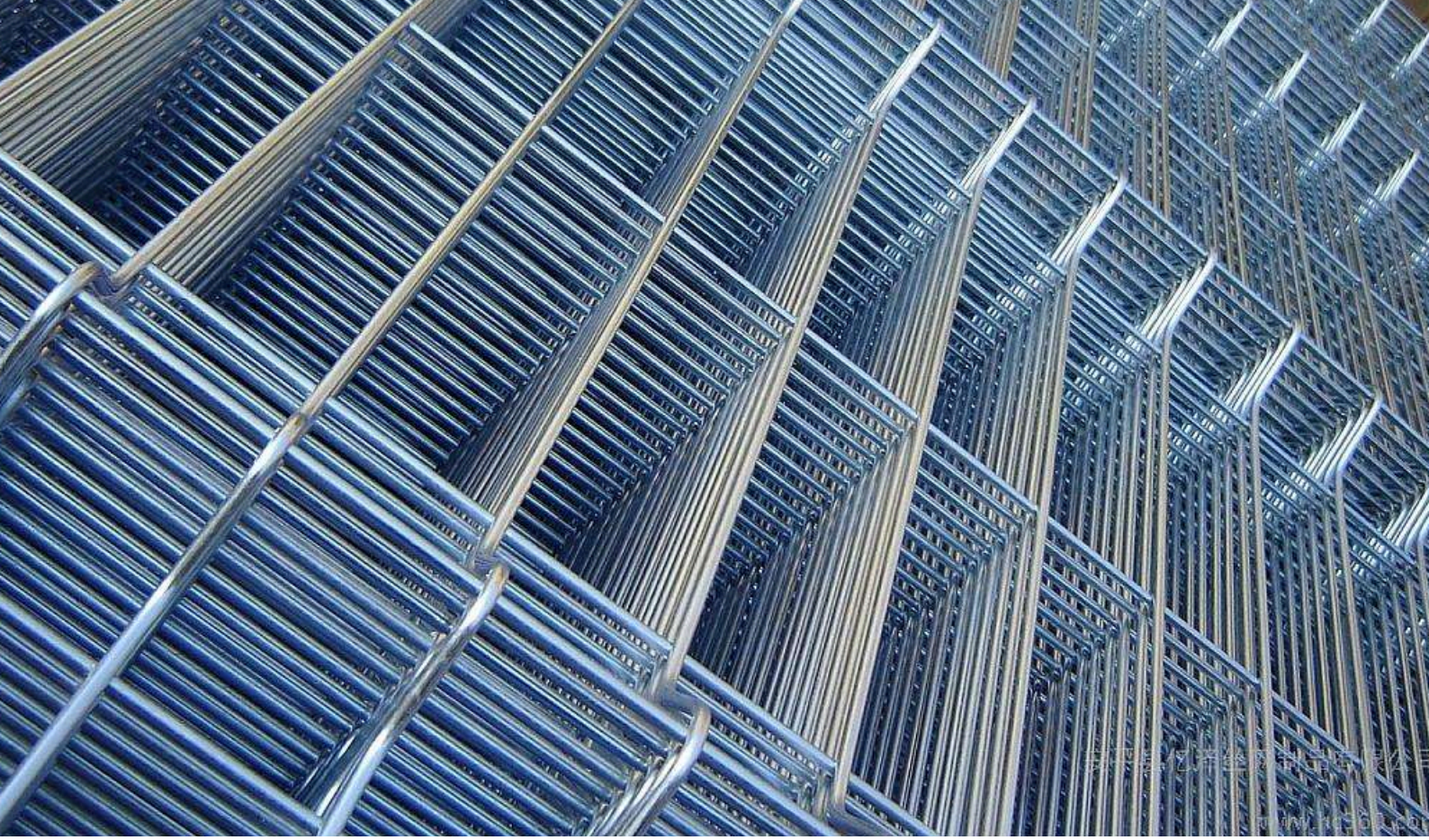


FG120: Cast Iron, Anti Slip top, Bolted Type, Hot Dip Galvanized



APPROVALS

- ADDC
- DEWA
- ADM
- MASDAR
- FEWA
- PDO
- HAYA



WELDED WIRE MESH

Galvanized Welded Mesh Panel is made of superior quality welded Mesh, with flat even surface, firm structure, be used extensively in building, food, agriculture and so on.

Assortments available

- Hot-dip galvanized after welding
- Hot-dip galvanized before welding
- Electro galvanized after welding
- Electro galvanized before welding
- PVC coated before welding
- PVC coated after welding
- Stainless Steel welded wire mesh
- Crimpled wire mesh
- Woven wire mesh
- Hex. wire netting in normal twist
- Hex. wire netting in reverse twist

Specification List Of Welded Wire Mesh

Opening		Wire Diameter BWG
In Inch	In metric unit(mm)	
1/4" x 1/4"	6.4 mm x 6.4 mm	22,23,24
3/8" x 3/8"	10.6 mm x 10.6 mm	19,20,21,22
1/2" x 1/2"	12.7 mm x 12.7 mm	16,17,18,19,20,21,22,23
5/8" x 5/8"	16 mm x 16 mm	18,19,20,21

Galvanized Fencing Mesh

Opening		Wire Diameter BWG
In Inch	In metric unit(mm)	
2" x 3"	53mm x 75mm	2.0mm,2.5mm,1.85mm
3" x 3"	75mm x 75mm	2.87mm,2.41mm,2.11mm,1.83mm,1.65mm
2" x 4"	50mm x 100 mm	2.11 mm , 2.5 mm
4" x 4"	100mm x 100 mm	2.0mm,2.5mm - 8.0 mm
8" x 8"	200mm x 200 mm	6.0mm - 12.0 mm

PVC Coated Welded Mesh

Opening		Wire Diameter BWG
In Inch	In metric unit(mm)	
1/2" x 1/2"	12.7 mm x 12.7 mm	16,17,18,19,20,21
3/4" x 3/4"	19mm x 19mm	16,17,18,19,20,21
1" x 1"	25.4mm x 25.4 mm	10,12,14,16,18,20

HANDRAILS

STEEL HANDRAILS



At FERROGRATE, we specialize in the design, fabrication, and installation of high-quality steel handrails for residential, commercial, and industrial applications. With years of experience in metal fabrication, our skilled craftsmen use state-of-the-art equipment to create durable, functional, and aesthetically pleasing handrails that meet the highest safety and quality standards.

Types of Steel Handrails

- Modular Handrails:
  - Pre-engineered systems with standard components for easy assembly and installation.
  - Ideal for quick deployment and flexible layouts.
- Welded Handrails:
  - Fabricated and installed as fixed systems for maximum strength and stability.
  - Custom-built to suit specific site requirements.
- Pipe Handrails:
  - Constructed using tubular steel for a sleek, lightweight, and functional design.
  - Often used in industrial staircases and ramps.
-

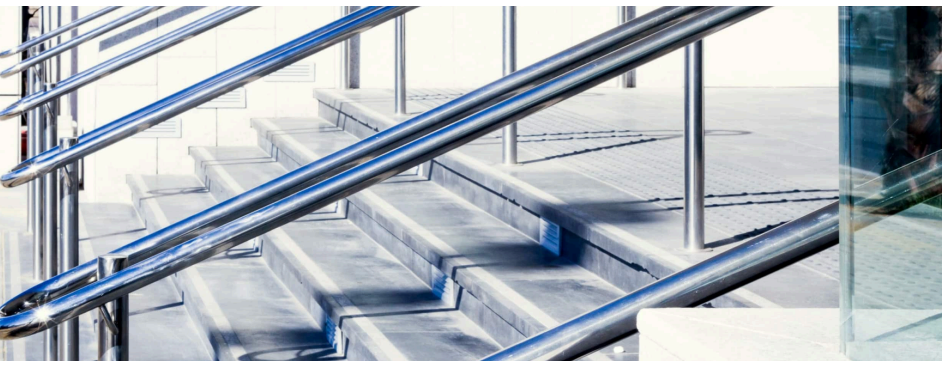
ALUMINIUM HANDRAILS



Available Sizes :
33 Series – Light duty Application –33.3 mm OD Pipe
42 Series – Medium duty Application –42.6 mm OD Pipe
48 Series – Heavy duty Application –- 48.26 mm OD Pipe

Ferrotech manufactures high-quality aluminum handrails in both welded and modular designs, offering versatile solutions for industrial and commercial applications. The welded handrails provide superior strength and stability, ideal for heavy-duty use, while the modular handrails are easy to assemble, customizable, and perfect for quick installations. Made from corrosion-resistant aluminum, these handrails are lightweight, durable, and maintenance-free, ensuring long-lasting performance in diverse environments.

STAINLESS STEEL HANDRAILS



Ferrotech stainless-steel handrails nd versatile applications across a spectrum of architectural settings, including residential, commercial, and industrial spaces. From enhancing the safety of staircases and walkways in homes to providing a sleek and durable solution for public and corporate environments, these handrails seamlessly blend functionality with aesthetic appeal. Elevate the design and safety standards of your project with our stainless-steel handrails. Material: Stainless-steel 304/316/316L Finish: Mill Finish / Brush Finish / Mirror Finish Sizes: Tailored made as per the client requirement

CERTIFICATES


Certificate Of Registration

FERROTECH INTERNATIONAL - F.Z.E

ISO 9001:2015


Certificate of Registration

DUBAI ENTERPRISES MODERN TRADING L.L.C.

ISO 9001:2015 Quality Management System


CERTIFICATE

TÜV AUSTRIA

Ferrotech Structurals (India) Pvt. Ltd.


Certificate Of Registration

INOX INFRATECH METAL INDUSTRY LLC

ISO 9001:2015


Certificate Of Registration

INOX INFRATECH METAL INDUSTRY LLC

ISO 14001:2015


Certificate Of Registration

INOX INFRATECH METAL INDUSTRY LLC

ISO 45001:2018


Certificate of Registration

ISO 9001:2015


Certificate

Breakthrough Management Quality Registrar (BMQR)

FERROTECH STRUCTURALS (INDIA) PVT. LTD.

ISO 9001:2015

GLOBAL PRESENCE

FERROGRATE

MANUFACTURING LOCATIONS

INOX INFRATECH METAL INDUSTRIES
Shed No. 06, Emirates Modern Industrial Area,
Umm Al Quwain, United Arab Emirates
E-mail: info@inoxinfratech.com
Tel: +971 55 816 4846, +971 52 694 6815
www.inoxinfratech.com

FERROTECH ENGINEERING LLC
P.O. BOX: 323, Sohar, Sultanate of Oman
Tel: +968 26701761, Fax: +96826701762
E-mail: info@ferrotechengg.com
www.ferrotechengg.com

METAL TECH ARABIA MANUFACTURING COMPANY
Road 19 , Dammam 3rd Industrial City.
Dammam , Kingdom of Saudi Arabia
E-mail: info@saudigrate.com
Tel: +966 13 8155 334
www.saudigrate.com

INDUROTECH COMPOSITES PVT LTD
Plot No. G2, Pallapatty Village, Nilakottai Sipcot Complex
Nilakottai, Tamilnadu - 624208
E-mail: info@indurotech.com
Tel: +91 89 0372 3045
www.indurotech.com

FERROTECH STRUCTURALS (INDIA) PVT. LTD
UNIT - 1
G22/1 SIPCOT Industrial Park, Vallam Vadagal,
Sriperumbudur, Taluk Kanchipuram, Tamil Nadu
E-mail: info@ferrotechindia.net
Tel: +91 44 6711 8000
www.ferrotechindia.net

FERROTECH STRUCTURALS (INDIA) PVT. LTD
UNIT - 2
Gate No. 70/2 Village Nandur, Tal.-Daund, Dist
Pune, Maharashtra
E-mail: info@indurotech.com
Tel: +91 89 0372 3045
www.indurotech.com

OFFICE LOCATIONS

FERROTECH INTERNATIONAL FZE
P.O. BOX: 21023, Ajman, E-19, Ajman Free Zone,
United Arab Emirates
Tel: +971 6 740 11 37, Fax: +971 6 740 11 38
E-mail: info@ferrograte.com
www.ferrograte.com

DUBAI ENTERPRISES MODERN TRADING
P.O. BOX: 1688, P.C. 133, Muscat, Sultanate of Oman
Tel: +968 2450 2841, Fax: +968 2450 2842
E-mail: info@gulfgrating.com
www.gulfgrating.com

FERROTECH STRUCTURALS (INDIA) PVT. LTD
1/39-6-3, North Parade Road, St. Thomas Mount,
Chennai - 600 016. Tamilnadu, INDIA.
E-mail: info@ferrotechindia.net
Tel: +91 44 4351 9653 | Mob: +91 95660 77277
www.ferrotechindia.net

FERROTECH FAR EAST PTE LTD
1 VENTURE AVENUE, #04-12 Big Box,
Jurong east, Singapore 608521
E-mail: prashant@ferrotech.sg
Tel: +65 6206 0013. Mob: +65 8404 4202
www.ferrotech.sg

OMAN GRATING TRADING COMPANY (SAUDIGRATE)
P.O. BOX: 31952, Al Khobar, Saudi Arabia
Tel: +966 13 8155 334, +966 196 4303
E-mail: info@saudigrate.com
www.saudigrate.com