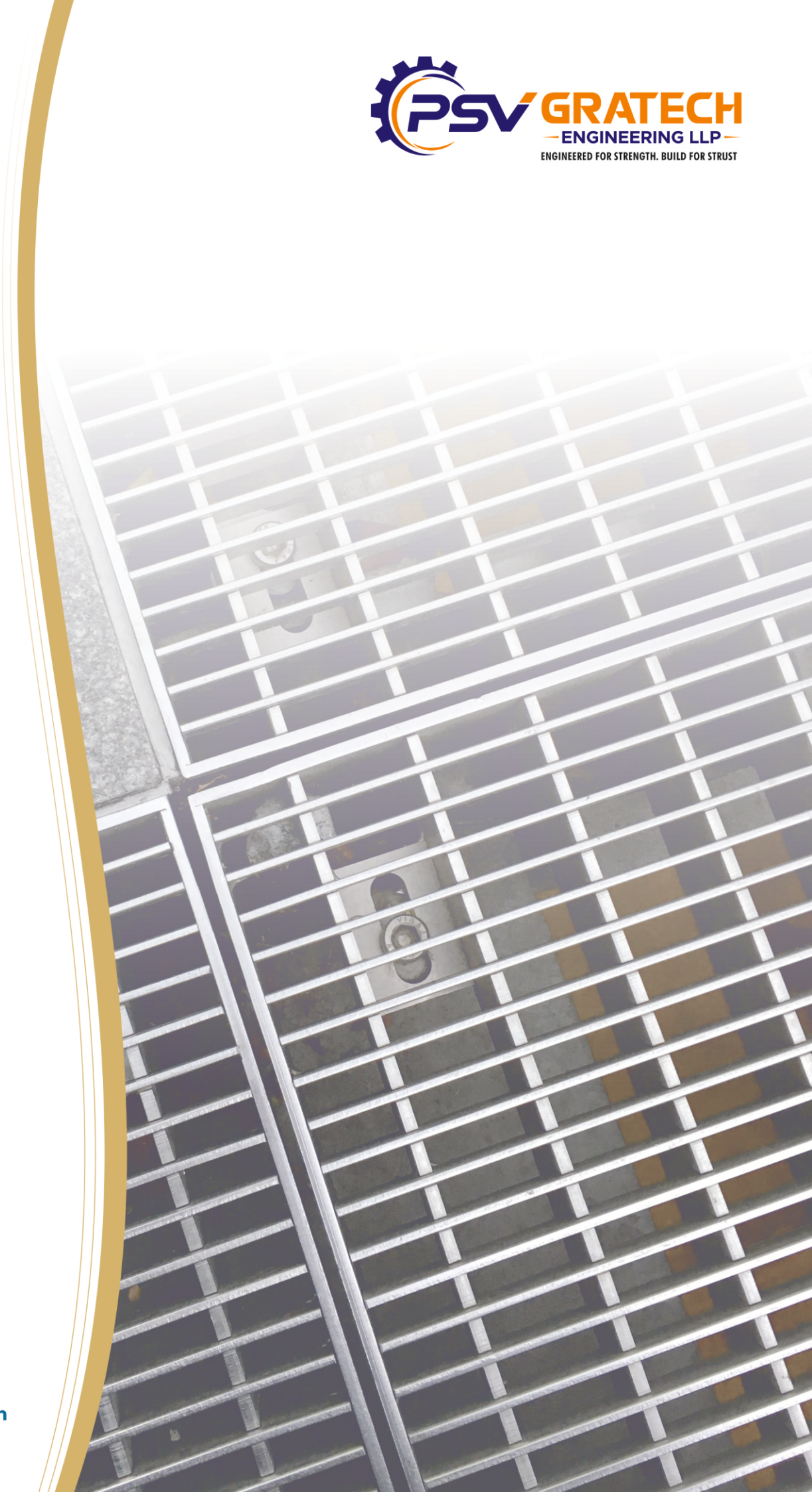


PRODUCT CATALOGUE

www.psvgratech.com



GRATING



ABOUT US

PSVGRATECH has been delivering strength you can stand on. As a trusted dealer of high-quality gratings, we provide solutions that combine durability, precision, and performance for industrial, marine, and infrastructure applications.

Backed by a strong network and a focus on quality, our gratings are selected to withstand heavy loads, harsh environments, and long-term use. Every solution reflects our commitment to safety, reliability, and customer satisfaction.

At **PSVGRATECH**, we don't just supply gratings, we deliver confidence. With a customer first approach, timely service, and customized solutions, we help build stronger, safer spaces across industries.



GRATING

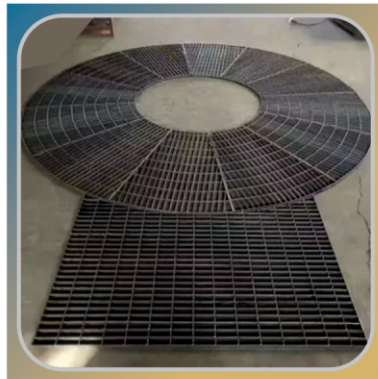


PRODUCTS YOU CAN COUNT

Our range of grating products is designed to deliver strength, safety, and versatility across industrial and commercial applications. Electro forged steel grating offers high durability and precision for heavy-duty use, while stair treads ensure secure footing with excellent load-bearing capacity in high-traffic areas. Circular gratings provide a perfect fit for manholes and round structures with strong structural support, and manual welded gratings allow flexible, cost-effective customization without compromising performance. Press locked steel grating stands out with its clean finish and rigid construction, ideal for both architectural and industrial spaces, whereas serrated grating enhances safety with superior slip resistance in environments exposed to water, oil, or harsh conditions.



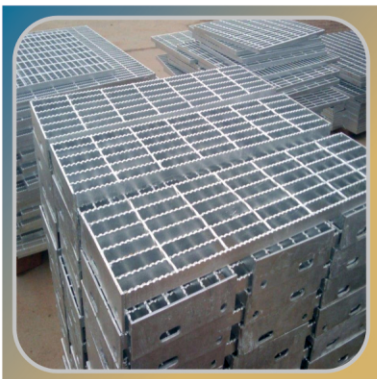
Electro Forged
Steel Gratings



Circular Gratings



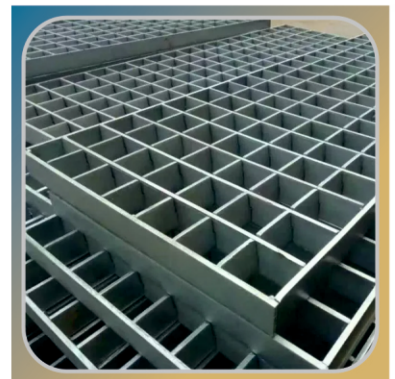
Manual Welded
Gratings



Serrated Gratings



Stair Treads

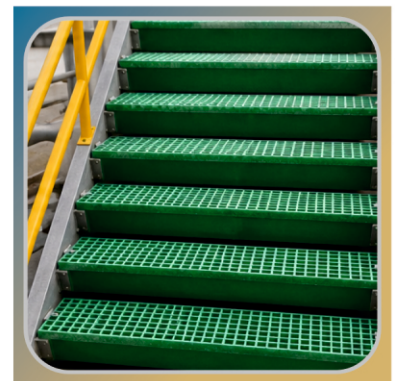


Press Locked
Steel Gratings

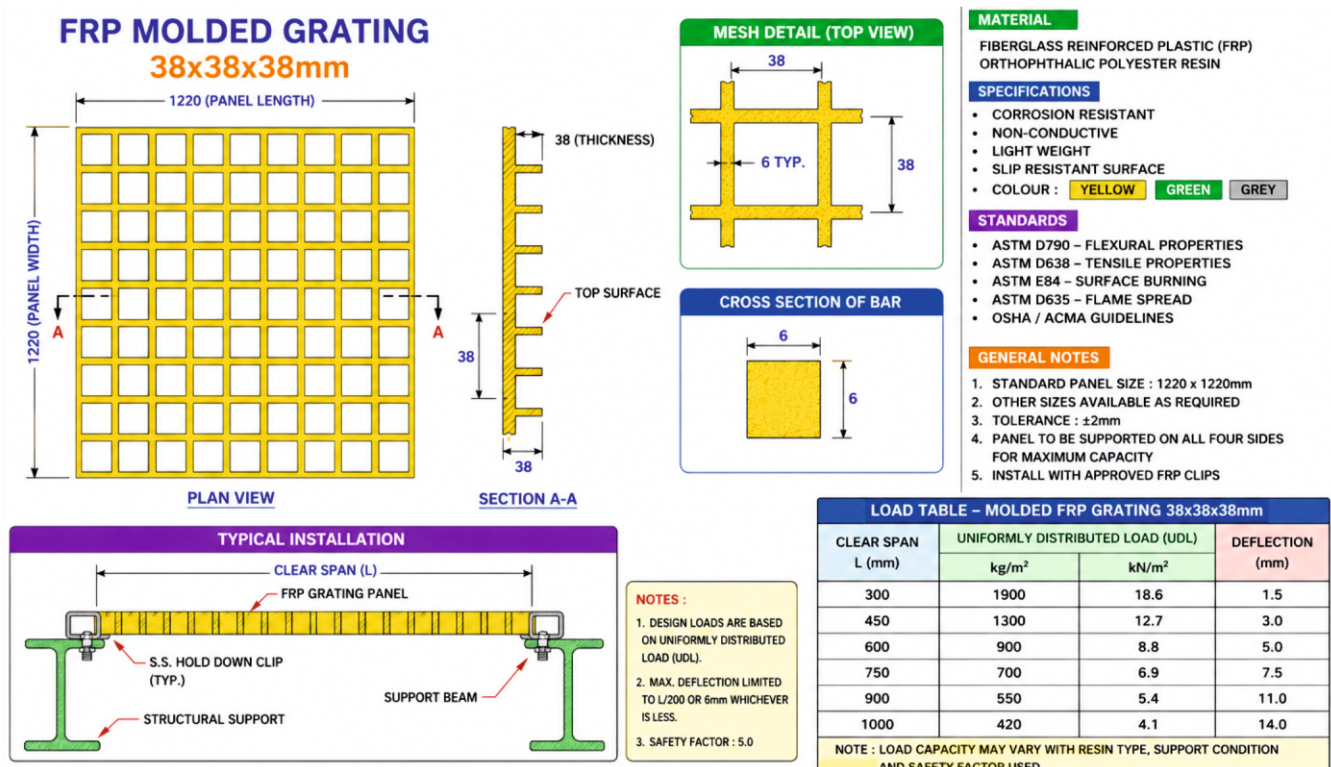
GRATING

PRODUCTS YOU CAN COUNT

We also deal in **FRP Grating**, a lightweight and durable flooring solution used in industrial and commercial applications. It offers excellent resistance to corrosion, chemicals, rust, and harsh weather conditions. FRP grating is anti-slip, non-conductive, and requires very low maintenance. Its high strength and long life make it an ideal alternative to traditional metal grating.



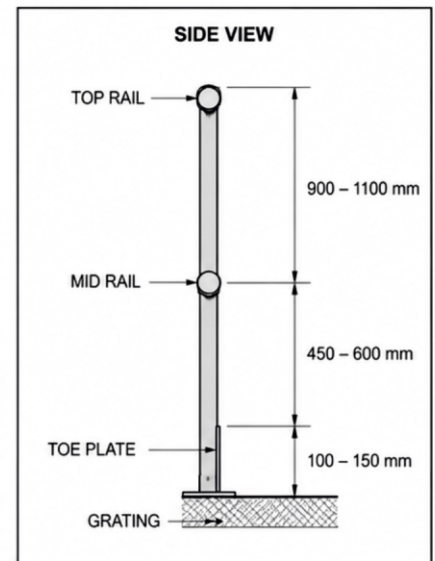
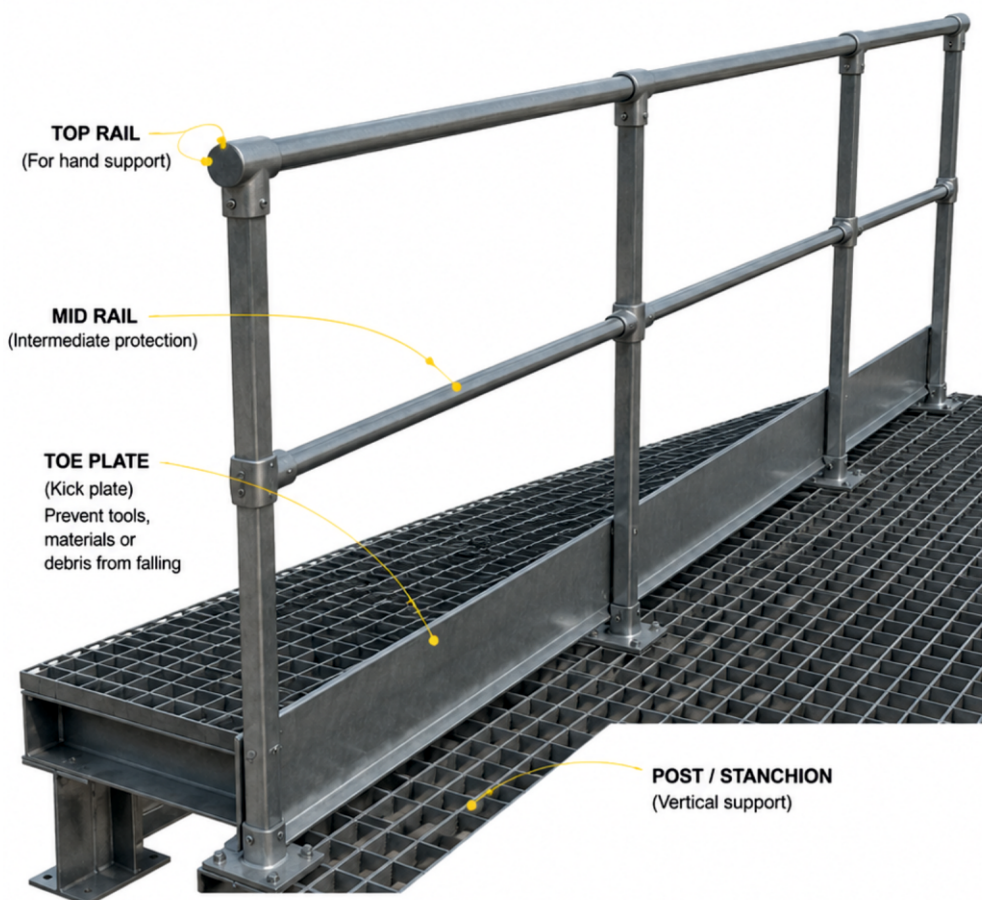
LOAD CHART



GRATING

PRODUCTS YOU CAN COUNT

PSVGratech Handrails are engineered to provide safe and reliable edge protection for grating platforms, walkways, and elevated structures. Manufactured using high-quality materials, they ensure durability, strength, and long-term performance in industrial environments. The system typically comprises top rails, mid rails, toe plates, and support posts for comprehensive fall protection. PSVGratech handrails are designed and fabricated in accordance with applicable industry standards and project requirements.



TYPICAL DIMENSIONS (GUIDE)

- | | |
|--------------------|-------------------------------|
| • Top Rail Height | : 900 – 1100 mm above grating |
| • Mid Rail Height | : 450 – 600 mm above grating |
| • Toe Plate Height | : 100 – 150 mm |
| • Post Spacing | : 1200 – 1500 mm (typ.) |

NOTE: Dimensions may vary as per project requirements and applicable codes.

TYPICAL NOTES

- Handrail shall be provided along all exposed edges of platforms, walkways, stairs and other elevated areas.
- Handrail shall consist of top rail, mid rail and toe plate supported by vertical posts.
- Design, fabrication and installation shall be in accordance with applicable project specifications and safety standards (e.g., OSHA, ANSI, ISO, local codes).

GRATING



PRODUCTS YOU CAN COUNT

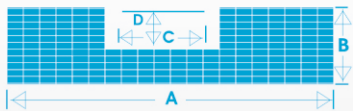
PSVGRATECH Cable Trays are engineered for safe, organized, and efficient cable management. Designed for industrial, commercial, and infrastructure applications. Available in Ladder, Perforated, Wire Mesh, Channel, and Solid Bottom types. Manufactured using GI, HDG, Stainless Steel, Aluminum, and FRP materials. Provides excellent strength, ventilation, and easy maintenance. Built for long-lasting performance in demanding environments.



GRATING

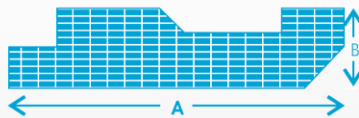
THE TERMINOLOGY

NET AREA



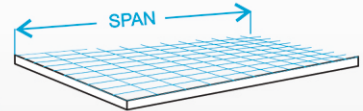
Net area is the actual usable or effective area of a surface after deducting openings, gaps, or obstructions. It represents the portion that can carry load, allow flow, or serve its intended function.

GROSS AREA



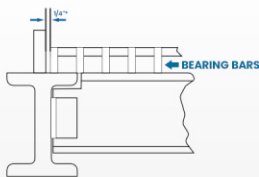
Total overall surface area of a grating panel, measured by its full external dimensions before accounting for any openings, cut-outs, or void spaces between the bars.

SPAN & LENGTH



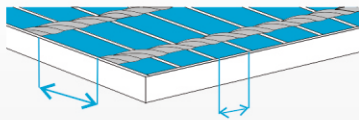
Span is distance between supports while Length is Overall panel size including adjustments like erection clearance.

ERECTION CLEARANCE



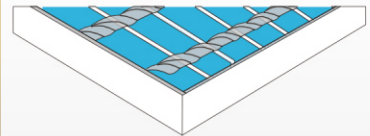
The extra gap intentionally provided between components to allow easy installation (erection) and proper fitting on site.

PITCH



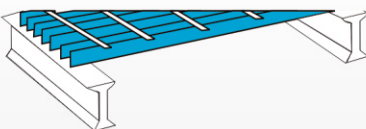
Pitch is the distance measured from center to center of load-bearing bars or transverse bars.

GRATING



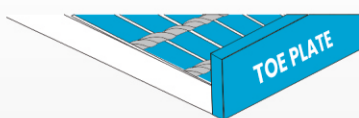
Grating is a framework of parallel and cross bars made from steel, forming a strong, grid-like structure commonly used for flooring, walkways, and drainage covers.

LOAD BEARING BAR



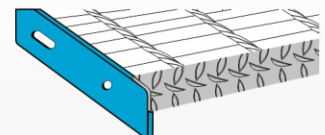
Main structural bar that carries and supports applied loads. It runs in the span direction and transfers the load to the supporting structure.

KICKING / TOE PLATE



A vertical protective barrier fixed along the edge of platforms, walkways, or grating. It prevents tools, materials, or debris from falling off the edge, improving safety.

CARRIER / END PLATE



A plate fixed at the ends of steel grating to close the edges and hold bearing bars in position. It improves strength, safety, and edge protection during handling and installation.

GRATING

30MM LOAD CHART

Safe Working Loads & Deflection Tables

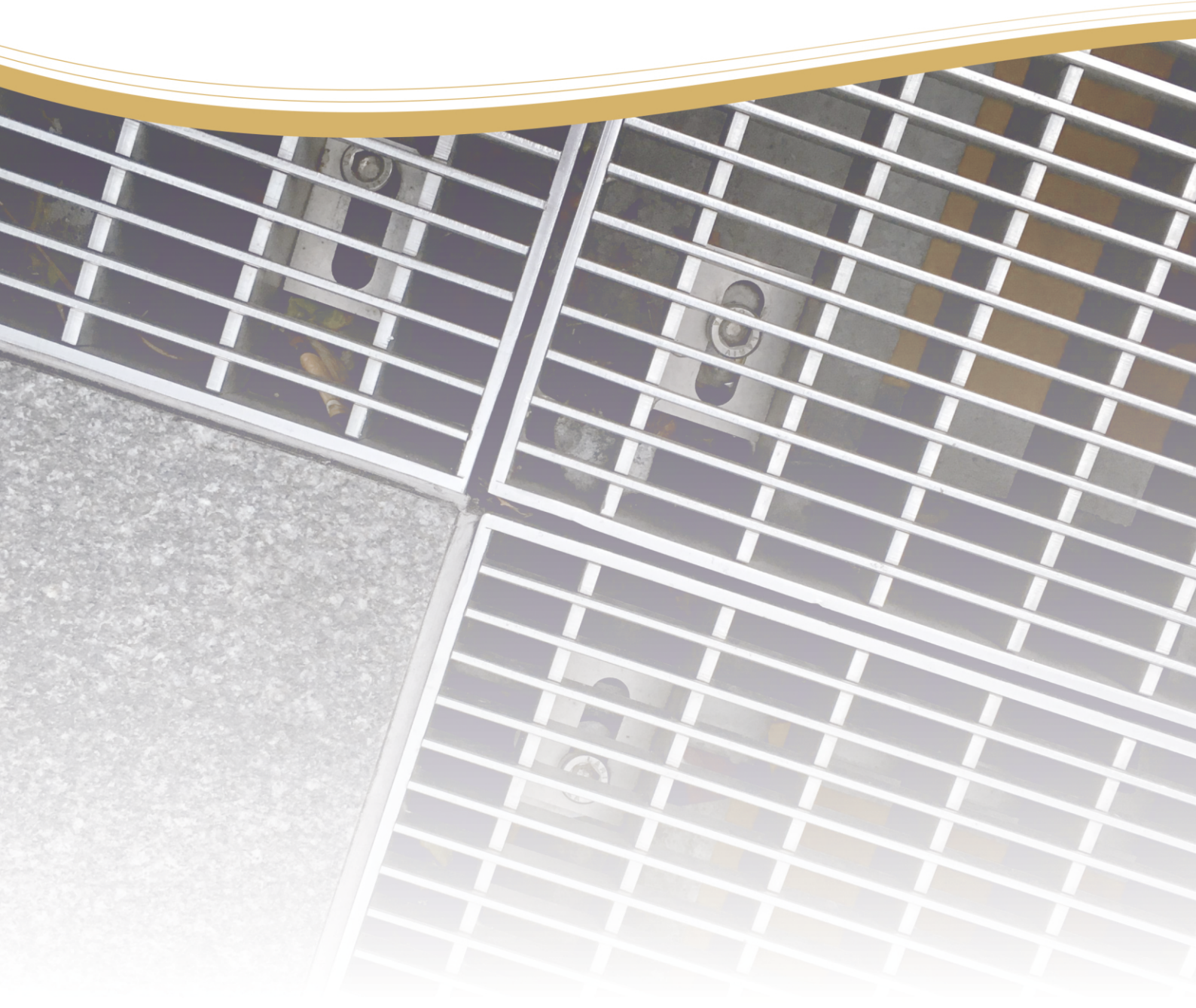
UDL - Uniformly Distributed Load in Kg/Sq.m.
CL - Concentrated Load in Kg/m
DEF - Deflection in mm

BEARING BAR SIZE (IN MM)	TYPE OF LOAD & DEFLECTION	SPAN (IN MM)								
		300	500	750	1000	1250	1500	1650	1800	2000
25 X 3	UDL	11948	4301	1912	1075	688				
	DEF	0.47	1.29	2.91	5.17	8.08				
	CL	1792	1075	717	538	430				
	DEF	0.37	1.03	2.33	4.14	6.47				
25 X 5	UDL	19914	7169	3186	1792	1147	637			
	DEF	0.47	1.29	2.91	5.17	8.08	11.64			
	CL	2987	1792	1195	896	717	478			
	DEF	0.37	1.03	2.33	4.14	6.47	9.31			
30 X 3	UDL	17205	6194	2753	1548	991	797			
	DEF	0.39	1.08	2.42	4.31	6.73	11.64			
	CL	2581	1548	1032	774	619	597			
	DEF	0.31	0.86	1.94	3.45	5.39	9.31			
30 X 5	UDL	28675	10323	4588	2581	1652	1147	948	797	
	DEF	0.39	1.08	2.42	4.31	6.73	9.70	11.73	13.97	
	CL	4301	2581	1721	1290	1032	860	782	717	
	DEF	0.31	0.86	1.94	3.45	5.39	7.76	9.39	11.17	
32 X 3	UDL	19576	7047	3132	1762	1128	783	647	544	
	DEF	0.36	1.01	2.27	4.04	6.31	9.09	11.00	13.09	
	CL	2936	1762	1175	881	705	587	534	489	
	DEF	0.29	0.81	1.82	3.23	5.05	7.27	8.80	10.47	
32 X 5	UDL	32626	11745	5220	2936	1879	1305	1079	906	734
	DEF	0.36	1.01	2.27	4.04	6.31	9.09	11.00	13.09	16.16
	CL	4894	2936	1958	1468	1175	979	890	816	734
	DEF	0.29	0.81	1.82	3.23	5.05	7.27	8.80	10.47	12.93
40 X 3	UDL	30587	11011	4894	2753	1762	1223	1011	850	688
	DEF	0.29	0.81	1.82	3.23	5.05	7.27	8.80	10.47	12.93
	CL	4588	2753	1835	1376	1101	918	834	765	688
	DEF	0.23	0.65	1.45	2.59	4.04	5.82	7.04	8.38	10.34
40 X 5	UDL	50979	18352	8157	4588	2936	2039	1685	1416	1147
	DEF	0.29	0.81	1.82	3.23	5.05	7.27	8.80	10.47	12.93
	CL	7647	4588	3059	2294	1835	1529	1390	1274	1147
	DEF	0.23	0.65	1.45	2.59	4.04	5.82	7.04	8.38	10.34
50 X 3	UDL	47792	17205	7647	4301	2753	1912	1580	1328	1075
	DEF	0.23	0.65	1.45	2.59	4.04	5.82	7.04	8.38	10.34
	CL	7159	4301	2868	2151	1721	1434	1303	1195	1075
	DEF	0.19	0.52	1.16	2.07	3.23	4.66	5.63	6.70	8.28
50 X 5	UDL	79654	28675	12745	7169	4588	3186	2633	2213	1792
	DEF	0.23	0.65	1.45	2.59	4.04	5.82	7.04	8.38	10.34
	CL	11948	7169	4779	3584	2868	2390	2172	1991	1792
	DEF	0.19	0.52	1.16	2.07	3.23	4.56	5.63	6.70	8.28

GRATING

40MM LOAD CHART

BEARING BAR SIZE (IN MM)	TYPE OF LOAD & DEFLECTION	SPAN (IN MM)								
		300	500	750	1000	1250	1500	1650	1800	2000
25 X 3	UDL	9137	3289	1462	822	526				
	DEF	0.47	1.29	2.91	5.17	8.08				
	CL	1371	822	548	411	329				
	DEF	0.37	1.03	2.33	4.14	6.47				
25 X 5	UDL	15228	5482	2436	1371	877	609			
	DEF	0.47	1.29	2.91	5.17	8.08	11.64			
	CL	2284	1371	914	685	548	457			
	DEF	0.37	1.03	2.33	4.14	6.47	9.31			
30 X 3	UDL	13157	4737	2105	1184	758	526			
	DEF	0.39	1.08	2.42	4.31	6.73	9.70			
	CL	1974	1184	789	592	474	395			
	DEF	0.31	0.86	1.94	3.45	5.39	7.76			
30 X 5	UDL	21928	7894	3509	1974	1263	877	725	609	
	DEF	0.39	1.08	2.42	4.31	6.73	9.70	11.73	13.97	
	CL	3289	1974	1316	987	789	658	598	548	
	DEF	0.31	0.86	1.94	3.45	5.39	7.76	9.39	11.17	
32 X 3	UDL	14970	5389	2395	1347	862	599	495	416	
	DEF	0.36	1.01	2.27	4.04	6.31	9.09	11.00	13.09	
	CL	2245	1347	898	674	539	449	408	374	
	DEF	0.29	0.81	1.82	3.23	5.05	7.27	8.80	10.47	
32 X 5	UDL	24950	8982	3992	2245	1437	998	825	693	561
	DEF	0.36	1.01	2.27	4.04	6.31	9.09	11.00	13.09	16.16
	CL	3742	2245	1497	1123	898	748	680	624	561
	DEF	0.29	0.81	1.82	3.23	5.05	7.27	8.80	10.47	12.93
40 X 3	UDL	23390	8420	3742	2105	1347	936	773	650	526
	DEF	0.29	0.81	1.82	3.23	5.05	7.27	8.80	10.47	12.93
	CL	3509	2105	1403	1053	842	702	638	585	526
	DEF	0.23	0.65	1.45	2.59	4.04	5.82	7.04	8.38	10.34
40 X 5	UDL	38984	14034	6237	3509	2245	1559	1289	1083	877
	DEF	0.29	0.81	1.82	3.23	5.05	7.27	8.80	10.47	12.93
	CL	5848	3509	2339	1754	1403	1170	1063	975	877
	DEF	0.23	0.65	1.45	2.59	4.04	5.82	7.04	8.38	10.34
50 X 3	UDL	36547	13157	5848	3289	2105	1462	1208	1015	822
	DEF	0.23	0.65	1.45	2.59	4.04	5.82	7.04	8.38	10.34
	CL	5482	3289	2193	1645	1316	1096	997	914	822
	DEF	0.19	0.52	1.16	2.07	3.23	4.66	5.63	6.70	8.28
50 X 5	UDL	60912	21928	9746	5482	3509	2436	2014	1692	1371
	DEF	0.23	0.65	1.45	2.59	4.04	5.82	7.04	8.38	10.34
	CL	9137	5482	3655	2741	2193	1827	1661	1523	1371
	DEF	0.19	0.52	1.16	2.07	3.23	4.66	5.63	6.70	8.28



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WAREHOUSE - 2

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