



UNIFORMED LOAD TABLES - DEFLECTION IN MILLIMETERS

SPAN IN mm	STYLE	LOAD IN KN/SQM(UNIFORMED)													MAXIMUM RECOMMENDED	APPARENT EI x 10 ⁶ N-mm ² /m	
		3	5	8	10	13	15	20	25	39	50	60	70	80			90
400	25 x 25 x 100 RM	0.3	0.5	0.8	1.0	1.3	1.5	2.0	2.5	4.0	5.1	6.1	7.1	8.1	9.1	48	3.290
	25 X 38 SM	0.4	0.7	1.1	1.3	1.7	2.0	2.6	3.3	5.1	6.6	7.9	9.2	10.5	11.8	48	2.538
	38 x 38 SM	0.1	0.2	0.4	0.5	0.6	0.7	0.9	1.2	1.8	2.3	2.8	3.3	3.7	4.2	100	7.144
	50 x 50 SM	0.1	0.1	0.2	0.3	0.4	0.4	0.6	0.7	1.1	1.4	1.7	2.0	2.3	2.6	154	11.750
600	25 x 25 x 100 RM	1.4	2.3	3.7	4.6	6.0	6.9	9.2	11.5							20	3.666
	25 x 38 SM	1.8	3.0	4.8	6.0	7.8	9.0	12.0	15.0							20	2.820
	38 x 38 SM	0.6	1.0	1.6	2.0	2.6	3.0	3.9	4.9	7.7	9.9	11.8	13.8	15.8		45	8.554
	50 x 50 SM	0.3	0.6	0.9	1.1	1.5	1.7	2.3	2.8	4.4	5.7	6.8	8.0	9.1	10.2	73	14.852
800	25 x 25 x 100 RM	4.3	7.1	11.3	14.2											10	3.760
	25 x 38 SM	5.7	9.5	15.1												9	2.820
	38 x 38 SM	1.8	3.0	4.7	5.9	7.7	8.9	11.8	14.8							26	9.024
	50 x 50 SM	0.1	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.3	1.6	2.0	2.3	2.6	2.9	35	16.544
1000	25 x 25 x 100 RM	10.4														6	3.760
	25 x 38 SM	13.9														5	2.820
	38 x 38 SM	4.3	7.1	11.4	14.3											14	9.118
	50 x 50 SM	2.3	3.8	6.1	7.7	9.9	11.5	15.3								21	17.014
1200	38 x 38 SM	8.9	14.8													9	9.118
	50 x 50 SM	4.7	7.8	12.5	15.6											14	17.296
1400	50 x 50 SM	8.5	14.2													8	17.578

NOTES

1. The designer should not exceed MAXIMUM RECOMMENDED load at any time. MAXIMUM LOAD represents a 5:1 factor of safety on ULTIMATE CAPACITY.
2. ULTIMATE CAPACITY represents a complete and total failure of the grating.
3. Walking loads, typically 2.4 KN/m², is recommended for pedestrian traffic. Deflections for worker comfort are typically limited to 9mm or SPAN divided by 120 under full live load. For a firmer feel under full live load or a 3.6 KN/m² load, limit deflection to 6 MM or SPAN divided by 200.
4. The allowable loads are for STATIC LOAD CONDITIONS at ambient temperatures. Allowable loads for impact or dynamic loads should be a maximum of ONE-HALF the value shown. Long term loads will result in added deflection due to creep in the material and will also require higher safety factors to ensure acceptable performance.
5. For applications at elevated temperatures, consult NanTong Power at +86-513-85656118 or ntpower@public.nt.js.cn.
6. Load tables are for reference only. PowerGrate is not responsible for the use of these tables and can not warrant the performance of grating through the use of these tables. Please call for assistance in the use of these tables. Load tables for grating types are not in the list, please call our technical department at 513-85656118 or email at ntpower@public.nt.js.cn.