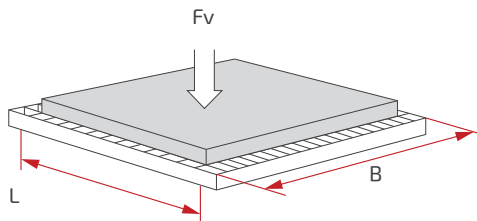




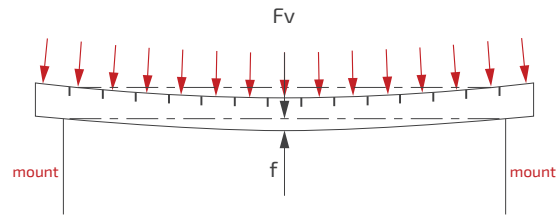
Load bar spacing, mm	Load bar size, mm																					
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	
50 x 5	Fv	31995	22219	16324	12498	9875	7999	6611	5555	4733	4081	3555	3125	2768	2469	2216	2000	1814	1653	1512	1389	1280
	f _v	0,08	0,11	0,16	0,2	0,26	0,32	0,38	0,46	0,54	0,62	0,71	0,81	0,92	1,03	1,15	1,17	1,4	1,54	1,68	1,83	1,98
	Fp	2569	2056	1713	1469	1285	1142	1050	934	856	791	734	685	643	606	571	541	514	489	466	447	429
	f _p	0,08	0,11	0,15	0,19	0,23	0,28	0,34	0,4	0,46	0,54	0,61	0,69	0,78	0,87	0,97	1,07	1,18	1,29	1,4	1,53	1,65
60 x 5	Fv	46080	32000	23510	18000	14222	11520	9521	8000	6817	5878	5120	4500	3986	3556	3191	2880	2612	2380	2178	2000	1843
	f _v	0,07	0,1	0,13	0,17	0,21	0,26	0,32	0,38	0,45	0,52	0,6	0,68	0,76	0,86	0,96	1,06	1,17	1,28	1,4	1,52	1,65
	Fp	3638	2911	2426	2079	1819	1617	1488	1323	1212	1120	1039	980	910	856	809	766	728	684	661	633	606
	f _p	0,07	0,09	0,12	0,15	0,19	0,24	0,28	0,33	0,39	0,45	0,51	0,58	0,65	0,73	0,81	0,89	0,98	1,07	1,17	1,27	1,38
70 x 5	Fv	62720	43556	32000	24500	19358	15680	12959	10889	9278	8000	6969	6125	5426	4840	4343	3920	3556	3240	2964	2722	2509
	f _v	0,06	0,08	0,11	0,15	0,18	0,23	0,27	0,33	0,38	0,44	0,51	0,58	0,66	0,73	0,82	0,91	1,00	1,10	1,20	1,31	1,42
	Fp	4874	3899	3250	2785	2437	2166	1950	1772	1625	1500	1393	1300	1219	1147	1083	1026	975	928	886	848	812
	f _p	0,06	0,08	0,10	0,13	0,16	0,20	0,24	0,29	0,33	0,39	0,44	0,50	0,56	0,63	0,70	0,77	0,85	0,93	1,02	1,11	1,20

The range in which the deflection should not exceed 1/200 of the distance between the supports and is always less than 4 mm. The range in which the deflection should not exceed 1/200 of the support distance.

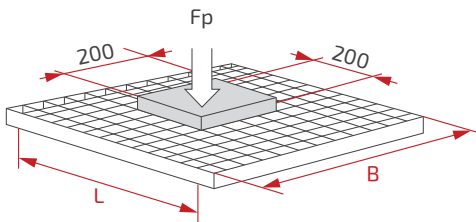
Types of loads



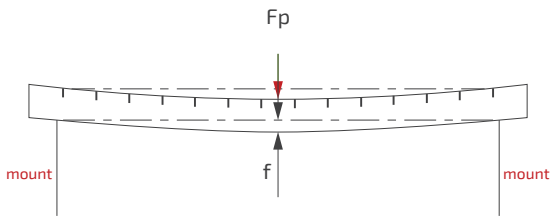
F_v — uniform load in kg/m²



f_v — deflection due to uniform load (cm)



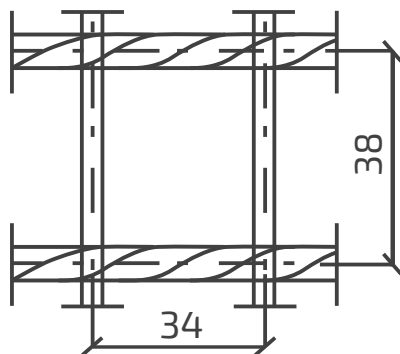
F_p — concentrated load in kg on an area of 200x200 mm



f_p — deflection from concentrated load (cm)

How to calculate the load on a grating of other sizes

The data from the table are given for gratings with a standard size of cell 34x38 mm. Cells are also available in sizes 34x50, 34x76, 34x101 mm. To calculate the load for such gratings, it is enough to multiply the F_v value from the first table by a factor of 0.95.



Cell layout

Example

We need to find the maximum permissible uniform load on a cell with a bearing strip of 40x3 mm, a pitch of 1000 mm and a cell size of 34.3x76.2 mm.

We take the F_v value from the table – 3072 kg/m²

Coefficient for cell 34.3x76.2 mm – 0.95

Multiply two numbers 3072 * 0.95 = 2918 kg/m.