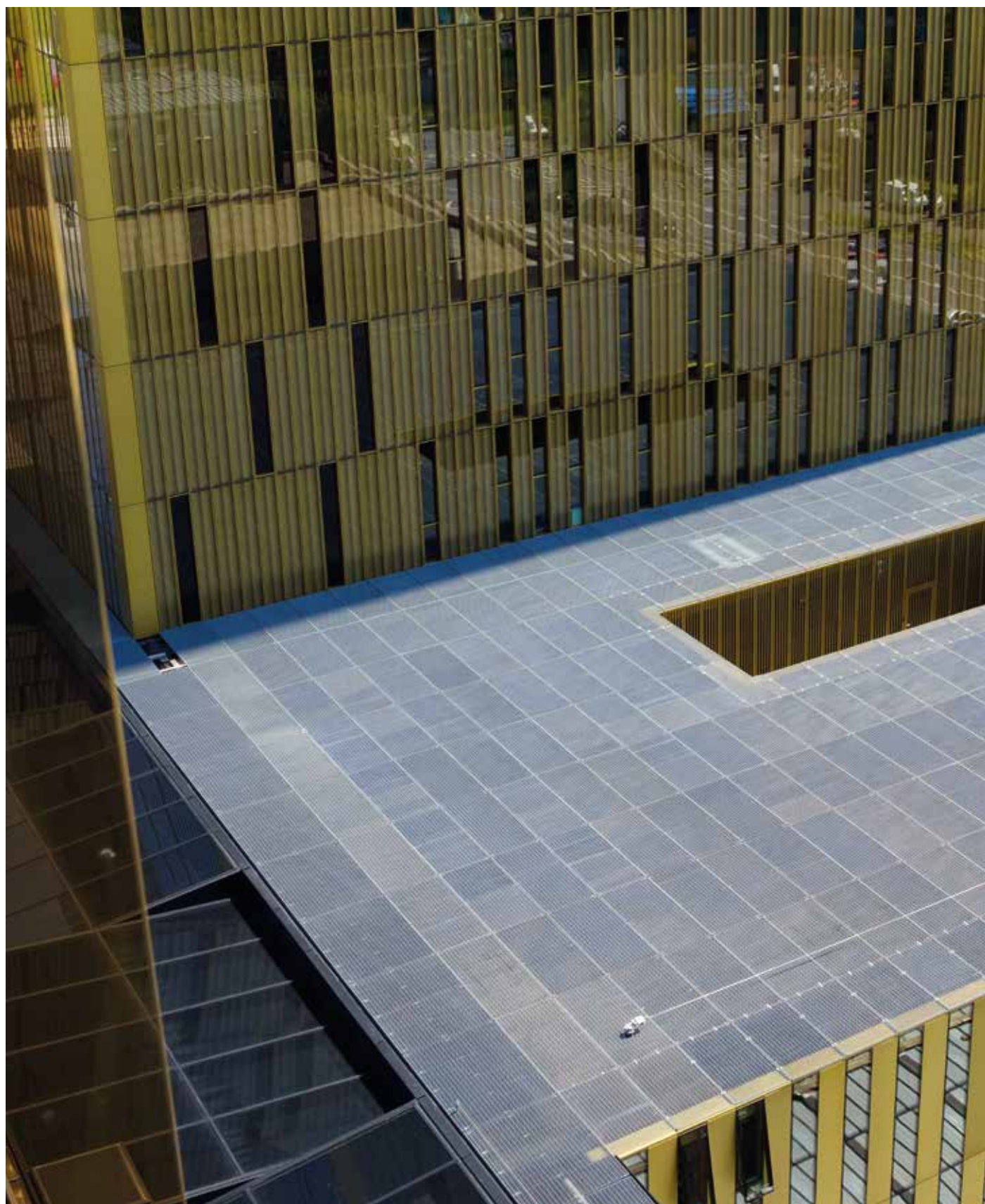








STATICS AND
LOAD TABLES

Statics
and
Load
Tables

Determination of the bearing bars for the individual span widths, DIN EN 1991, S235
mesh spacing 33.3 x 33.3 mm

Tread length [mm]	Industrial staircases, working platforms and walkways, load 2.00 kN/m ² / 1.5 kN point loading, DIN EN ISO 14122, RAL-GZ 638 - 2008		Load 5.00 kN/m ² / 2.0 kN point loading, residential building load 3.00 kN/m ² / 2.0 kN point loading, contact area 50 x 50 mm	
	Bearing bar/deflection [cm]		Bearing bar/deflection [cm]	
	without sl.prot.	with sl.prot.	without sl.prot.	with sl.prot.
500	30 x 2 / 0,06	30 x 2 / 0,07	30 x 3 / 0,08	30 x 3 / 0,09
600	30 x 2 / 0,10	30 x 2 / 0,12	35 x 3 / 0,10	35 x 3 / 0,12
700	30 x 2 / 0,16	30 x 3 / 0,15	35 x 3 / 0,16	40 x 3 / 0,14
800	30 x 3 / 0,18	30 x 3 / 0,22	40 x 3 / 0,18	45 x 3 / 0,16
900	30 x 3 / 0,26	35 x 3 / 0,23	45 x 3 / 0,16	45 x 3 / 0,18
1.000	35 x 3 / 0,26	35 x 3 / 0,31	45 x 3 / 0,22	45 x 3 / 0,25
1.100	35 x 3 / 0,34	40 x 3 / 0,30	45 x 3 / 0,29	50 x 3 / 0,27
1.200	45 x 2 / 0,39	45 x 3 / 0,34	50 x 3 / 0,31	50 x 3 / 0,35
1.250	45 x 3 / 0,34	45 x 3 / 0,40	50 x 3 / 0,35	60 x 3 / 0,26
1.300	45 x 3 / 0,39	50 x 3 / 0,36	50 x 3 / 0,39	60 x 3 / 0,29
1.400	50 x 3 / 0,40	50 x 3 / 0,47	60 x 3 / 0,32	60 x 3 / 0,37
1.500	60 x 3 / 0,33	60 x 3 / 0,38	60 x 3 / 0,40	60 x 3 / 0,45
1.600	60 x 3 / 0,41	60 x 3 / 0,47	60 x 3 / 0,48	60 x 3 / 0,55
1.700	60 x 3 / 0,51	60 x 3 / 0,58	60 x 3 / 0,58	60 x 4 / 0,52
1.800	60 x 4 / 0,55	60 x 5 / 0,51	60 x 4 / 0,55	60 x 5 / 0,51
1.900	60 x 5 / 0,55	70 x 3 / 0,53	60 x 5 / 0,55	70 x 3 / 0,53
2.000	70 x 3 / 0,59	70 x 4 / 0,52	70 x 3 / 0,59	70 x 4 / 0,52
2.100	70 x 4 / 0,56	70 x 5 / 0,52	70 x 4 / 0,56	70 x 5 / 0,52
2.200	70 x 5 / 0,55	70 x 5 / 0,62	70 x 5 / 0,55	70 x 5 / 0,62
2.300	80 x 4 / 0,57	80 x 5 / 0,51	80 x 4 / 0,57	80 x 5 / 0,51
2.500	90 x 5 / 0,51	90 x 5 / 0,55	90 x 5 / 0,51	90 x 5 / 0,55
3.000	110 x 5 / 0,58	120 x 5 / 0,48	110 x 5 / 0,58	120 x 5 / 0,48

The requirements of RAL GZ 638, September 2008 edition, are complied with (deflection $f < l/300$ and < 0.6 cm).

Selection instructions: If there is no clear assignment of industrial or fire exit staircases, the values for industrial staircases should always be used.

For intermediate sizes (e.g. tread length 735 mm – industrial staircase without slide protection), the next higher tread length (800 mm) should be taken as the basis of assessment (bearing bar 30 x 3 mm).

Note:

The determination of the bearing bars for rescue and escape staircases was carried out using the same calculation methods as for industrial staircases. As it concerns the building supervisory area, this is only a preliminary estimate and should be checked for the individual case.



Determination of the bearing bars for the individual span widths, DIN EN 1991, S235
mesh spacing 33,3 x 11,1 mm on TS 2 – 3 mm, mesh spacing 33,3 x 16,65 mm on TS 5 mm

Tread length [mm]	Industrial staircase, working platforms and walkways, load 2.00 kN/m ² / 1.5 kN point loading, DIN EN ISO 14122, RAL-GZ 638 - 2008		Load 5.00 kN/m ² / 2.0 kN point loading, residential building load 3.00 kN/m ² / 2.0 kN point loading, contact area 50 x 50	
	Bearing bar/deflection [cm]		Bearing bar/deflection [cm]	
	without sl.prot.	with sl.prot.	without sl.prot.	with sl.prot.
500	30 x 2 / 0,05	30 x 2 / 0,05 *	30 x 2 / 0,07	30 x 2 / 0,07 *
600	30 x 2 / 0,08	30 x 2 / 0,08 *	30 x 3 / 0,10	30 x 3 / 0,10 *
700	30 x 2 / 0,13	30 x 2 / 0,13 *	30 x 3 / 0,16	30 x 3 / 0,16 *
800	30 x 2 / 0,19	30 x 2 / 0,19 *	35 x 3 / 0,17	35 x 3 / 0,17 *
900	30 x 3 / 0,21	30 x 3 / 0,21 *	35 x 3 / 0,25	35 x 3 / 0,25 *
1.000	30 x 3 / 0,29	30 x 3 / 0,29 *	40 x 3 / 0,25	40 x 3 / 0,25 *
1.100	35 x 3 / 0,27	35 x 3 / 0,27 *	40 x 3 / 0,33	40 x 3 / 0,33 *
1.200	40 x 3 / 0,35	40 x 3 / 0,35 *	45 x 3 / 0,33	45 x 3 / 0,33 *
1.250	40 x 3 / 0,41	40 x 3 / 0,41 *	45 x 3 / 0,32	45 x 3 / 0,32 *
1.300	45 x 2 / 0,43	45 x 2 / 0,43 *	45 x 3 / 0,36	45 x 3 / 0,36 *
1.400	45 x 3 / 0,41	45 x 3 / 0,41 *	45 x 3 / 0,45	45 x 3 / 0,45 *
1.500	50 x 3 / 0,41	50 x 3 / 0,41 *	50 x 3 / 0,44	50 x 3 / 0,44 *
1.600	50 x 3 / 0,51	50 x 3 / 0,51 *	50 x 3 / 0,54	50 x 3 / 0,54 *
1.700	60 x 3 / 0,40	60 x 3 / 0,40 *	60 x 3 / 0,42	60 x 3 / 0,42 *
1.800	60 x 3 / 0,56	60 x 3 / 0,56 *	60 x 3 / 0,56	60 x 3 / 0,56 *
1.900	60 x 4 / 0,56	60 x 4 / 0,56 *	60 x 4 / 0,56	60 x 4 / 0,56 *
2.000	60 x 5 / 0,55	60 x 5 / 0,55 *	60 x 5 / 0,55	60 x 5 / 0,55 *
2.100	70 x 3 / 0,57	70 x 3 / 0,57 *	70 x 3 / 0,57	70 x 3 / 0,57 *
2.200	70 x 4 / 0,56	70 x 4 / 0,56 *	70 x 4 / 0,56	70 x 4 / 0,56 *
2.300	70 x 5 / 0,55	70 x 5 / 0,55 *	70 x 5 / 0,55	70 x 5 / 0,55 *
2.500	80 x 5 / 0,58	80 x 5 / 0,58 *	80 x 5 / 0,58	80 x 5 / 0,58 *
3.000	110 x 5 / 0,49	110 x 5 / 0,49 *	110 x 5 / 0,49	110 x 5 / 0,49 *

* Slide protection only on the cross bar



Press locked grating mesh spacing 33.3 x 33.3 mm, DIN EN 1991									S235 JR+N St 37-2		
Bearing bars [mm]		Width between supports [mm]									
		200	300	400	500	600	700	800	900	1.000	1.100
20/2	FP	4,25	2,13	1,42	1,06	0,85	0,71	0,61	0,42	0,31	0,23
	FV	70,71	31,43	17,68	11,31	7,86	5,77	3,91	2,44	1,60	1,09
20/3	FP	7,02	3,51	2,34	1,76	1,40	1,17	0,91	0,63	0,46	0,34
	FV	116,67	51,85	29,17	18,67	12,96	8,75	5,86	3,66	2,40	1,64
25/2	FP	9,89	4,94	3,30	2,47	1,98	1,65	1,41	1,23	0,89	0,67
	FV	165,73	73,66	41,43	26,52	18,41	13,53	10,36	7,15	4,69	3,20
25/3	FP	16,31	8,16	5,44	4,08	3,26	2,72	2,33	1,84	1,34	1,00
	FV	273,45	121,53	68,36	43,75	30,38	22,32	17,09	10,73	7,04	4,81
30/2	FP	14,11	7,06	4,70	3,53	2,82	2,35	2,02	1,76	1,53	1,14
	FV	238,65	106,07	59,66	38,18	26,52	19,48	14,92	11,79	8,11	5,54
30/3	FP	23,29	11,64	7,76	5,82	4,66	3,88	3,33	2,91	2,29	1,72
	FV	393,77	175,01	98,44	63,00	43,75	32,14	24,61	18,54	12,16	8,31
30/4	FP	31,05	15,53	10,35	7,76	6,21	5,18	4,44	3,88	3,05	2,29
	FV	525,03	233,35	131,26	84,00	58,34	42,86	32,81	24,71	16,21	11,07
30/5	FP	38,81	19,41	12,94	9,70	7,76	6,47	5,54	4,85	3,82	2,86
	FV	656,29	291,68	164,07	105,01	72,92	53,57	41,02	30,89	20,27	13,84
35/2	FP	19,02	9,51	6,34	4,76	3,80	3,17	2,72	2,38	2,11	1,80
	FV	324,83	144,37	81,21	51,97	36,09	26,52	20,30	16,04	12,87	8,79
35/3	FP	31,39	15,69	10,46	7,85	6,28	5,23	4,48	3,92	3,49	2,70
	FV	535,97	238,21	133,99	85,75	59,55	43,75	33,50	26,47	19,31	13,19
35/4	FP	41,85	20,93	13,95	10,46	8,37	6,98	5,98	5,23	4,65	3,60
	FV	714,62	317,61	178,66	114,34	79,40	58,34	44,66	35,29	25,75	17,59
35/5	FP	52,31	26,16	17,44	13,08	10,46	8,72	7,47	6,54	5,81	4,50
	FV	893,28	397,07	223,32	142,92	99,25	72,92	55,83	44,11	32,19	21,98
40/2	FP	24,63	12,31	8,21	6,16	4,93	4,10	3,52	3,08	2,74	2,46
	FV	424,27	188,56	106,07	67,88	47,14	34,63	26,52	20,95	16,97	13,13
40/3	FP	40,64	20,32	13,55	10,16	8,13	6,77	5,81	5,08	4,52	3,99
	FV	700,04	311,13	175,01	112,01	77,78	57,15	43,75	34,57	28,00	19,69
40/4	FP	54,18	27,09	18,06	13,55	10,84	9,03	7,74	6,77	6,02	5,32
	FV	933,38	414,84	233,35	149,34	103,71	76,19	58,34	46,09	37,34	26,25
40/5	FP	67,73	33,86	22,58	16,93	13,55	11,29	9,68	8,47	7,53	6,65
	FV	1166,73	518,55	291,68	186,68	129,64	95,24	72,92	57,62	46,67	32,81
45/4	FP	67,96	33,98	22,65	16,99	13,59	11,33	9,71	8,50	7,55	6,80
	FV	1181,31	525,03	295,33	189,01	131,26	96,43	73,83	58,34	47,25	37,38
50/2	FP	37,75	18,88	12,58	9,44	7,55	6,29	5,39	4,72	4,19	3,78
	FV	662,91	294,63	165,73	106,07	73,66	54,12	41,43	32,74	26,52	21,91
50/3	FP	62,29	31,15	20,76	15,57	12,46	10,38	8,90	7,79	6,92	6,23
	FV	1093,81	486,14	273,45	175,01	121,53	89,29	68,36	54,02	43,75	36,16
50/4	FP	83,06	41,53	27,69	20,76	16,61	13,84	11,87	10,38	9,23	8,31
	FV	1458,41	648,18	364,60	233,35	162,05	119,05	91,15	72,02	58,34	48,21
50/5	FP	103,82	51,91	34,61	25,96	20,76	17,30	14,83	12,98	11,54	10,38
	FV	1823,01	810,23	455,75	291,68	202,56	148,82	113,94	90,03	72,92	60,26
60/3	FP	88,08	44,04	29,36	22,02	17,62	14,68	12,58	11,01	9,79	8,81
	FV	1575,08	700,04	393,77	252,01	175,01	128,58	98,44	77,78	63,00	52,07
60/4	FP	117,44	58,72	39,15	29,36	23,49	19,57	16,78	14,68	13,05	11,74
	FV	2100,11	933,38	525,03	336,02	233,35	171,44	131,26	103,71	84,00	69,43
60/5	FP	146,80	73,40	48,93	36,70	29,36	24,47	20,97	18,35	16,31	14,68
	FV	2625,14	1166,73	656,29	420,02	291,68	214,30	164,07	129,64	105,01	86,78
70/3	FP	117,54	58,77	39,18	29,38	23,51	19,59	16,79	14,69	13,06	11,75
	FV	2143,86	952,83	535,97	343,02	238,21	175,01	133,99	105,87	85,75	70,87
70/4	FP	156,71	78,36	52,24	39,18	31,34	26,12	22,39	19,59	17,41	15,67
	FV	2858,49	1270,44	714,62	457,36	317,61	233,35	178,66	141,16	114,34	94,50
70/5	FP	195,89	97,95	65,30	48,97	39,18	32,65	27,98	24,49	21,77	19,59
	FV	3573,11	1588,05	893,28	571,70	397,01	291,68	223,32	176,45	142,92	118,12

The table applies to the standard mesh spacing of 33.3 x 33.3 and material S235 JR+N St 37-2. The values represent the maximum permitted load-bearing capacity of the grating.

Press locked grating mesh spacing 33.3 x 33.3 mm, DIN EN 1991										S235 JR+N St 37-2
Bearing bars [mm]		Width between supports [mm]								
		1.200	1.300	1.400	1.500	1.600	1.700	1.800	1.900	2.000
20/2	FP	0,18	0,14	0,11	0,09	0,07	0,06	0,05	0,04	0,04
	FV	0,77	0,56	0,42	0,32	0,24	0,19	0,15	0,12	0,10
20/3	FP	0,26	0,21	0,17	0,14	0,11	0,09	0,08	0,07	0,06
	FV	1,16	0,84	0,63	0,47	0,37	0,29	0,23	0,18	0,15
25/2	FP	0,51	0,40	0,32	0,26	0,22	0,18	0,15	0,13	0,11
	FV	2,26	1,64	1,22	0,93	0,72	0,56	0,45	0,36	0,29
25/3	FP	0,77	0,60	0,48	0,39	0,32	0,27	0,23	0,19	0,16
	FV	3,39	2,46	1,83	1,39	1,07	0,84	0,67	0,54	0,44
30/2	FP	0,88	0,69	0,55	0,45	0,37	0,31	0,26	0,22	0,19
	FV	3,91	2,84	2,11	1,60	1,24	0,97	0,77	0,62	0,51
30/3	FP	1,32	1,03	0,83	0,67	0,55	0,46	0,39	0,33	0,28
	FV	5,86	4,26	3,17	2,40	1,86	1,46	1,16	0,93	0,76
30/4	FP	1,76	1,38	1,10	0,90	0,74	0,61	0,52	0,44	0,38
	FV	7,82	5,68	4,22	3,20	2,47	1,94	1,54	1,24	1,01
30/5	FP	2,20	1,72	1,38	1,12	0,92	0,77	0,65	0,55	0,47
	FV	9,77	7,10	5,28	4,00	3,09	2,43	1,93	1,56	1,27
35/2	FP	1,38	1,08	0,87	0,70	0,58	0,48	0,41	0,35	0,30
	FV	6,21	4,51	3,35	2,54	1,96	1,54	1,23	0,99	0,80
35/3	FP	2,07	1,63	1,30	1,06	0,87	0,72	0,61	0,52	0,44
	FV	9,31	6,76	5,03	3,81	2,95	2,31	1,84	1,48	1,21
35/4	FP	2,76	2,17	1,73	1,41	1,16	0,97	0,81	0,69	0,59
	FV	12,42	9,02	6,70	5,09	3,93	3,08	2,45	1,98	1,61
35/5	FP	3,45	2,71	2,17	1,76	1,45	1,21	1,02	0,86	0,74
	FV	15,52	11,27	8,38	6,36	4,91	3,85	3,07	2,47	2,01
40/2	FP	2,04	1,60	1,28	1,04	0,86	0,71	0,60	0,51	0,44
	FV	9,27	6,73	5,00	3,80	2,93	2,30	1,83	1,47	1,20
40/3	FP	3,07	2,41	1,92	1,56	1,29	1,07	0,90	0,77	0,66
	FV	13,90	10,09	7,50	5,69	4,40	3,45	2,75	2,21	1,80
40/4	FP	4,09	3,21	2,57	2,08	1,72	1,43	1,20	1,02	0,88
	FV	18,54	13,46	10,00	7,59	5,86	4,60	3,66	2,95	2,40
40/5	FP	5,11	4,01	3,21	2,60	2,14	1,79	1,50	1,28	1,09
	FV	23,17	16,82	12,51	9,49	7,33	5,75	4,58	3,69	3,00
45/4	FP	5,77	4,53	3,62	2,94	2,42	2,02	1,70	1,44	1,24
	FV	26,39	19,16	14,25	10,81	8,35	6,55	5,21	4,20	3,42
50/2	FP	3,43	3,08	2,46	2,00	1,64	1,37	1,15	0,98	0,84
	FV	18,10	13,14	9,77	7,41	5,73	4,49	3,58	2,88	2,35
50/3	FP	5,66	4,61	3,69	2,99	2,46	2,05	1,73	1,47	1,26
	FV	27,15	19,71	14,66	11,12	8,59	6,74	5,36	4,32	3,52
50/4	FP	7,55	6,15	4,92	3,99	3,29	2,74	2,30	1,96	1,68
	FV	36,20	26,28	19,54	14,83	11,45	8,99	7,15	5,76	4,69
50/5	FP	9,44	7,69	6,15	4,99	4,11	3,42	2,88	2,45	2,10
	FV	45,25	32,85	24,43	18,54	14,32	11,23	8,94	7,20	5,86
60/3	FP	8,01	7,34	6,26	5,08	4,18	3,48	2,93	2,49	2,14
	FV	43,75	34,06	25,32	19,22	14,84	11,65	9,27	7,47	6,08
60/4	FP	10,68	9,79	8,34	6,77	5,58	4,65	3,91	3,32	2,85
	FV	58,34	45,42	33,77	25,62	19,79	15,53	12,36	9,95	8,11
60/5	FP	13,35	12,23	10,43	8,47	6,97	5,81	4,89	4,15	3,56
	FV	72,92	56,77	42,21	32,03	24,74	19,41	15,45	12,44	10,13
70/3	FP	10,69	9,79	9,04	7,91	6,51	5,42	4,57	3,88	3,32
	FV	59,55	50,74	40,21	30,52	23,57	18,50	14,72	11,85	9,66
70/4	FP	14,25	13,06	12,05	10,55	8,68	7,23	6,09	5,17	4,43
	FV	79,40	67,66	53,62	40,69	31,43	24,66	19,62	15,81	12,87
70/5	FP	17,81	16,32	15,07	13,18	10,85	9,04	7,61	6,47	5,54
	FV	99,25	84,57	67,02	50,86	39,29	30,83	24,53	19,76	16,09

Legend for conversion values: see page 8/9.

Press locked grating mesh spacing 33.3 x 33.3 mm, DIN EN 1991										S235 JR+N St 37-2	
Bearing bars [mm]		Width between supports [mm]									
		200	300	400	500	600	700	800	900	1.000	1.100
80/4	FP	200,60	100,30	66,87	50,15	40,12	33,43	28,66	25,07	22,29	20,06
	FV	3733,53	1659,35	933,38	597,37	414,84	304,78	233,35	184,37	149,34	123,42
80/5	FP	250,75	125,37	83,58	62,69	50,15	41,79	35,82	31,34	27,86	25,07
	FV	4666,92	2074,19	1166,73	746,71	518,55	380,97	291,68	230,47	186,68	154,28
90/4	FP	249,01	124,50	83,00	62,25	49,80	41,50	35,57	31,13	27,67	24,90
	FV	4725,25	2100,11	1181,31	756,04	525,03	385,73	295,33	233,35	189,01	156,21
90/5	FP	311,26	155,63	103,75	77,82	62,25	51,88	44,47	38,91	34,58	31,13
	FV	5906,57	2625,14	1476,64	945,05	656,29	482,17	369,16	291,68	236,26	195,26
100/5	FP	363,00	188,14	125,43	94,07	75,26	62,71	53,75	47,04	41,81	37,63
	FV	7292,06	3240,91	1823,01	1166,73	810,23	595,27	455,75	360,10	291,68	241,06
110/5	FP	399,30	227,65	151,77	113,83	91,06	75,88	65,04	56,91	50,59	45,53
	FV	8823,39	3921,51	2205,85	1411,74	981,38	720,28	551,46	435,72	352,94	291,68
120/5	FP	435,50	270,92	180,62	135,46	108,37	90,31	77,41	67,73	60,21	54,18
	FV	10500,56	4666,92	2625,14	1680,09	1166,73	857,19	656,29	518,55	420,02	347,13
130/5	FP	471,00	317,96	211,97	158,98	127,18	105,99	90,85	79,49	70,66	63,59
	FV	11760,00	5477,15	3080,89	1971,77	1369,29	1006,01	770,22	608,57	492,94	407,39
140/5	FP	508,00	368,76	245,84	184,38	147,50	122,92	105,36	92,19	81,95	73,75
	FV	12700,00	6352,19	3573,11	2286,79	1588,05	1166,73	893,28	705,80	571,70	472,48
150/5	FP	544,00	423,32	282,21	211,66	169,33	141,11	120,95	105,83	94,07	84,66
	FV	13610,00	7292,06	4101,78	2625,14	1823,01	1339,36	1025,45	810,23	656,29	542,38
160/5	FP	580,00	481,64	321,09	240,82	192,66	160,55	137,61	120,41	107,03	96,33
	FV	14520,00	8296,74	4666,92	2986,83	2074,19	1523,89	1166,73	921,86	746,71	617,11
170/5	FP	617,00	543,73	362,49	271,86	217,49	181,24	155,36	135,93	120,83	108,75
	FV	15420,00	9366,24	5268,51	3371,85	2341,56	1720,33	1317,13	1040,69	842,96	696,66

The table applies to the standard mesh spacing of 33.3 x 33.3 and material S235 JR+N St 37-2. The values represent the maximum permitted load-bearing capacity of the grating.

Simply select the grating based on your characteristic action Q_k from the tables.

All required partial safety factors have already been taken into account.

FP (Q_k) and FV (Q_k), for the individual spans, were determined according to RAL-GZ 638 - 2008 and DIN EN 1993-1-1(3) + NA (Germany).

FP (Q_k) is the maximum individual load in kN on a load cube of 200 x 200 mm.

FV (Q_k) is the maximum uniformly distributed area load in kN/m².

FP (Q_k) and FV (Q_k) were determined either by load capacity or serviceability (4mm or L/200th criterion).

For the load of gratings made of the material S355 JR, the maximum load to the left of the black line can be multiplied by 1.5.

The support width for gratings should correspond to the grating height, but at least 30 mm (BGI/GUV-I 588-1).

This is just an excerpt from our load tables. The complete tables can be found in the download area of our website at www.meiser.co.uk.

Press locked grating mesh spacing 33.3 x 33.3 mm, DIN EN 1991

S235 JR+N St 37-2

Bearing bars [mm]		Width between supports [mm]								
		1.200	1.300	1.400	1.500	1.600	1.700	1.800	1.900	2.000
80/4	FP	18,24	16,72	15,43	14,33	12,70	10,58	8,91	7,57	6,48
	FV	103,71	88,37	76,19	60,74	46,92	36,81	29,29	23,59	19,22
80/5	FP	22,80	20,90	19,29	17,91	15,88	13,22	11,13	9,46	8,11
	FV	129,64	110,46	95,24	75,92	58,65	46,02	36,61	29,49	24,02
90/4	FP	22,64	20,75	19,15	17,79	16,60	14,77	12,44	10,57	9,06
	FV	131,26	111,84	96,43	84,00	66,80	52,42	41,70	33,59	27,36
90/5	FP	28,30	25,94	23,94	22,23	20,75	18,47	15,55	13,21	11,32
	FV	164,07	139,80	120,54	105,01	83,50	65,52	52,13	41,99	34,20
100/5	FP	34,21	31,36	28,94	26,88	25,09	23,52	20,88	17,74	15,21
	FV	202,56	172,59	148,82	129,64	113,94	89,88	71,51	57,60	46,92
110/5	FP	41,39	37,94	35,02	32,52	30,35	28,46	26,78	23,62	20,24
	FV	245,09	208,84	180,07	156,86	137,87	119,63	95,18	76,67	62,45
120/5	FP	49,26	45,15	41,68	38,70	36,12	33,87	31,87	30,10	26,28
	FV	291,68	248,53	214,30	186,68	164,07	145,34	123,57	99,54	81,07
130/5	FP	57,81	52,99	48,92	45,42	42,39	39,74	37,41	35,33	33,41
	FV	342,32	291,68	251,50	219,09	192,56	170,57	152,14	126,55	103,08
140/5	FP	67,05	61,46	56,73	52,68	49,17	46,09	43,38	40,97	38,82
	FV	397,01	338,28	291,68	254,09	223,32	197,82	176,45	158,06	128,74
150/5	FP	76,97	70,55	65,13	60,47	56,44	52,91	49,80	47,04	44,56
	FV	455,75	388,33	334,84	291,68	256,36	227,09	202,56	181,80	158,35
160/5	FP	87,57	80,27	74,10	68,81	64,22	60,21	56,66	53,52	50,70
	FV	518,55	441,84	380,97	331,87	291,68	258,38	230,47	206,84	186,68
170/5	FP	98,86	90,62	83,65	77,68	72,50	67,97	63,97	60,41	57,23
	FV	585,39	498,79	430,08	374,65	329,28	291,68	260,17	233,51	210,74

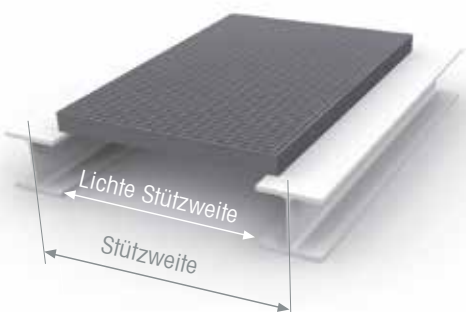
Legend for conversion values: see page 8/9.

Conversion values:1 kN $\triangleq$ 100 kg10 kN $\triangleq$ 1 to10 N $\triangleq$ 1 daN $\triangleq$ 1 kp

The width between supports

Accessible area with a point loading of 1.5 kN on a 200 x 200 mm load cube with a deflection $\leq$ 4 mm according to BGI 588 and RAL GZ 637.

Area with a point loading of 1.5 kN on a 200 x 200 mm load cube with a deflection $\leq$ L/200.



Press welded grating mesh spacing 34.3 x 38.1 mm, DIN EN 1991									S235 JR+N St 37-2		
Bearing bars [mm]		Width between supports [mm]									
		200	300	400	500	600	700	800	900	1.000	1.100
20/2	FP	6,14	3,07	2,05	1,53	1,23	1,02	0,87	0,61	0,44	0,33
	FV	114,53	50,90	28,63	18,32	12,73	9,35	6,33	3,95	2,59	1,77
20/3	FP	10,13	5,06	3,38	2,53	2,03	1,69	1,31	0,92	0,66	0,50
	FV	188,97	83,99	47,24	30,23	21,00	14,18	9,50	5,93	3,89	2,66
25/2	FP	9,52	4,76	3,17	2,38	1,90	1,59	1,36	1,18	0,86	0,64
	FV	178,95	79,53	44,74	28,63	19,88	14,61	11,18	7,72	5,07	3,46
25/3	FP	15,71	7,85	5,24	3,93	3,14	2,62	2,24	1,77	1,29	0,96
	FV	295,26	131,23	73,82	47,24	32,81	24,10	18,45	11,58	7,60	5,19
30/2	FP	13,61	6,80	4,54	3,40	2,72	2,27	1,94	1,70	1,47	1,10
	FV	257,68	114,53	64,42	41,23	28,63	21,04	16,10	12,73	8,75	5,98
30/3	FP	22,45	11,22	7,48	5,61	4,49	3,74	3,21	2,81	2,21	1,65
	FV	425,18	188,97	106,29	68,03	47,24	34,71	26,57	20,01	13,13	8,97
30/4	FP	29,93	14,97	9,98	7,48	5,99	4,99	4,28	3,74	2,94	2,21
	FV	566,90	251,96	141,73	90,70	62,99	46,28	35,43	26,68	17,51	11,96
30/5	FP	37,42	18,71	12,47	9,35	7,48	6,24	5,35	4,68	3,68	2,76
	FV	708,63	314,95	177,16	113,38	78,74	57,85	44,29	33,36	21,88	14,95
35/2	FP	18,35	9,18	6,12	4,59	3,67	3,06	2,62	2,29	2,04	1,74
	FV	350,68	155,88	87,68	56,12	38,97	28,63	21,92	17,32	13,90	9,49
35/3	FP	30,29	15,14	10,10	7,57	6,06	5,05	4,33	3,79	3,37	2,60
	FV	578,72	257,21	144,68	92,59	64,30	47,24	36,17	28,58	20,85	14,24
35/4	FP	40,38	20,19	13,46	10,10	8,08	6,73	5,77	5,05	4,49	3,47
	FV	771,62	342,94	192,91	123,46	85,74	62,99	48,23	38,10	27,80	18,99
35/5	FP	50,48	25,24	16,83	12,62	10,10	8,41	7,21	6,31	5,61	4,34
	FV	964,53	428,68	241,13	154,32	107,17	78,74	60,28	47,63	34,75	23,74
40/2	FP	23,79	11,90	7,93	5,95	4,76	3,97	3,40	2,97	2,64	2,38
	FV	458,11	203,60	114,53	73,30	50,90	37,40	28,63	22,62	18,32	14,17
40/3	FP	39,26	19,63	13,09	9,81	7,85	6,54	5,61	4,91	4,36	3,86
	FV	755,87	335,94	188,97	120,94	83,99	61,70	47,24	37,33	30,23	21,26
40/4	FP	52,35	26,17	17,45	13,09	10,47	8,72	7,48	6,54	5,82	5,14
	FV	1007,83	447,92	251,96	161,25	111,98	82,27	62,99	49,77	40,31	28,35
40/5	FP	65,43	32,72	21,81	16,36	13,09	10,91	9,35	8,18	7,27	6,43
	FV	1259,79	559,91	314,95	201,57	139,98	102,84	78,74	62,21	50,39	35,43
45/4	FP	65,74	32,87	21,91	16,44	13,15	10,96	9,39	8,22	7,30	6,57
	FV	1275,54	566,90	318,88	204,09	141,73	104,13	79,72	62,99	51,02	40,36
50/2	FP	36,61	18,30	12,20	9,15	7,32	6,10	5,23	4,58	4,07	3,66
	FV	715,79	318,13	178,95	114,53	79,53	58,43	44,74	35,35	28,63	23,66
50/3	FP	60,40	30,20	20,13	15,10	12,08	10,07	8,63	7,55	6,71	6,04
	FV	1181,05	524,91	295,26	188,97	131,23	96,41	73,82	58,32	47,24	39,04
50/4	FP	80,54	40,27	26,85	20,13	16,11	14,2	11,51	10,07	8,95	8,05
	FV	1574,74	699,88	393,68	251,96	174,97	128,55	98,42	77,76	62,99	52,06
50/5	FP	100,67	50,34	33,56	25,17	20,13	16,78	14,38	12,58	11,19	10,07
	FV	1968,42	874,85	492,10	314,95	218,71	160,69	123,03	97,21	78,74	65,07
60/3	FP	85,51	42,86	28,50	21,38	17,10	14,25	12,22	10,69	9,50	8,55
	FV	1700,71	755,87	425,18	272,11	188,97	138,83	106,29	83,99	68,03	56,22
60/4	FP	114,02	57,01	38,01	28,50	22,80	19,00	16,29	14,25	12,67	11,40
	FV	2267,62	1007,83	566,90	362,82	251,96	185,11	141,73	111,98	90,70	74,96
60/5	FP	142,52	71,26	47,51	35,63	28,50	23,75	20,36	17,82	15,84	14,25
	FV	2834,52	1259,79	708,63	453,2	314,95	231,39	177,16	139,98	113,38	93,70
70/3	FP	114,55	57,27	38,18	28,64	22,91	19,09	16,36	14,32	12,73	11,45
	FV	2314,86	1028,83	578,72	370,38	257,21	188,97	144,68	114,31	92,59	76,52
70/4	FP	152,73	76,37	50,91	38,18	30,55	25,46	21,82	19,09	16,97	15,27
	FV	3086,48	1371,77	771,62	493,84	342,94	251,86	192,91	152,42	123,46	102,03
70/5	FP	190,92	95,46	63,64	47,73	38,18	31,82	27,27	23,86	21,21	19,09
	FV	3858,10	1714,71	964,53	617,30	428,68	314,95	241,13	190,52	154,32	127,54
80/4	FP	196,01	98,01	65,34	49,00	39,20	32,67	28,00	24,50	21,78	19,60
	FV	4031,32	1791,70	1007,83	645,01	447,92	329,09	251,96	199,08	161,25	133,27
80/5	FP	245,02	122,51	81,67	61,25	49,00	40,84	35,00	30,63	27,22	24,50
	FV	5039,16	2239,62	1259,79	806,26	559,91	411,36	314,95	248,85	201,57	166,58

The table applies to the standard mesh spacing of 34.3 x 38.1 and material S235 JR + N St 37-2. The values represent the maximum permitted load-bearing capacity of the grating.

Press welded grating mesh spacing 34.3 x 38.1 mm, DIN EN 1991										S235 JR+N St 37-2
Bearing bars [mm]		Width between supports [mm]								
		1.200	1.300	1.400	1.500	1.600	1.700	1.800	1.900	2.000
20/2	FP	0,25	0,20	0,16	0,13	0,11	0,09	0,07	0,06	0,05
	FV	1,25	0,91	0,68	0,51	0,40	0,31	0,25	0,20	0,16
20/3	FP	0,38	0,30	0,24	0,19	0,16	0,13	0,11	0,10	0,08
	FV	1,88	1,36	1,01	0,77	0,59	0,47	0,37	0,30	0,24
25/2	FP	0,49	0,39	0,31	0,25	0,21	0,17	0,15	0,12	0,11
	FV	2,44	1,77	1,32	1,00	0,77	0,61	0,48	0,39	0,32
25/3	FP	0,74	0,58	0,46	0,38	0,31	0,26	0,22	0,19	0,16
	FV	3,66	2,66	1,98	1,50	1,16	0,91	0,72	0,58	0,47
30/2	FP	0,85	0,67	0,53	0,43	0,36	0,30	0,25	0,21	0,18
	FV	4,22	3,07	2,28	1,73	1,34	1,05	0,83	0,67	0,55
30/3	FP	1,27	1,00	0,80	0,65	0,53	0,44	0,37	0,32	0,27
	FV	6,33	4,60	3,42	2,59	2,00	1,57	1,25	1,01	0,82
30/4	FP	1,69	1,33	1,06	0,86	0,71	0,59	0,50	0,42	0,36
	FV	8,44	6,13	4,56	3,46	2,67	2,10	1,67	1,34	1,09
30/5	FP	2,12	1,66	1,33	1,08	0,89	0,74	0,62	0,53	0,45
	FV	10,55	7,66	5,70	4,32	3,34	2,62	2,08	1,68	1,37
35/2	FP	1,33	1,05	0,84	0,68	0,56	0,47	0,39	0,33	0,29
	FV	6,70	4,87	3,62	2,75	2,12	1,66	1,32	1,07	0,87
35/3	FP	2,00	1,57	1,26	1,02	0,84	0,70	0,59	0,50	0,43
	FV	10,06	7,30	5,43	4,12	3,18	2,50	1,99	1,60	1,30
35/4	FP	2,67	2,09	1,67	1,36	1,12	0,93	0,78	0,67	0,57
	FV	13,41	9,73	7,24	5,49	4,24	3,33	2,65	2,13	1,74
35/5	FP	3,33	2,62	2,09	1,70	1,40	1,16	0,98	0,83	0,71
	FV	16,76	12,17	9,05	6,86	5,30	4,16	3,31	2,67	2,17
40/2	FP	1,98	1,55	1,24	1,01	0,83	0,69	0,58	0,49	0,42
	FV	10,01	7,27	5,40	4,10	3,17	2,48	1,98	1,59	1,30
40/3	FP	2,96	2,33	1,86	1,51	1,24	1,04	0,87	0,74	0,63
	FV	15,01	10,90	8,10	6,15	4,75	3,73	2,96	2,39	1,95
40/4	FP	3,95	3,10	2,48	2,01	1,66	1,38	1,16	0,99	0,85
	FV	20,01	14,53	10,80	8,20	6,33	4,97	3,95	3,18	2,59
40/5	FP	4,94	3,88	3,10	2,52	2,07	1,73	1,45	1,23	1,06
	FV	25,02	18,16	13,50	10,25	7,92	6,21	4,94	3,98	3,24
45/4	FP	5,58	4,38	3,50	2,84	2,34	1,95	1,64	1,40	1,20
	FV	28,50	20,69	15,38	11,67	9,02	7,07	5,63	4,53	3,69
50/2	FP	3,33	2,98	2,38	1,94	1,59	1,33	1,12	0,95	0,81
	FV	19,54	14,19	10,55	8,01	6,18	4,85	3,86	3,11	2,53
50/3	FP	5,49	4,47	3,58	2,90	2,39	1,99	1,68	1,42	1,22
	FV	29,32	21,28	15,82	12,01	9,28	7,28	5,79	4,66	3,80
50/4	FP	7,32	5,96	4,77	3,87	3,19	2,65	2,23	1,90	1,63
	FV	39,09	28,38	21,10	16,01	12,37	9,70	7,72	6,22	5,07
50/5	FP	9,15	7,46	5,96	4,84	3,98	3,32	2,79	2,37	2,03
	FV	48,86	35,47	26,37	20,01	15,46	12,13	9,65	7,77	6,33
60/3	FP	7,77	7,13	6,07	4,93	4,06	3,38	2,85	2,42	2,07
	FV	47,24	36,78	27,34	20,75	16,03	12,58	10,01	8,06	6,57
60/4	FP	10,37	9,50	8,10	6,58	5,41	4,51	3,80	3,23	2,76
	FV	62,99	49,04	36,46	27,67	21,37	16,77	13,34	10,75	8,75
60/5	FP	12,96	11,88	10,12	8,22	6,77	5,64	4,75	4,03	3,46
	FV	78,74	61,30	45,57	34,58	26,72	20,96	16,68	13,43	10,94
70/3	FP	10,41	9,55	8,81	7,71	6,35	5,29	4,45	3,78	3,24
	FV	64,30	54,79	42,94	33,42	25,45	19,97	15,89	12,80	10,43
70/4	FP	13,88	12,73	11,75	10,28	8,46	7,05	5,93	5,04	4,32
	FV	85,74	73,05	57,90	43,93	33,94	26,63	21,19	17,07	13,90
70/5	FP	17,36	15,91	14,69	12,85	10,58	8,81	7,42	6,30	5,40
	FV	107,17	91,32	72,37	54,92	42,42	33,29	26,48	21,33	17,38
80/4	FP	17,82	16,33	15,08	14,00	12,41	10,34	8,70	7,39	6,34
	FV	111,98	95,42	82,27	65,14	50,66	39,75	31,63	25,48	20,75
80/5	FP	22,27	20,42	18,85	17,50	15,51	12,92	10,88	9,24	7,92
	FV	139,98	119,27	102,84	81,98	63,32	49,69	39,53	31,84	25,94

Legend for conversion values: see page 8/9.

Vehicular grating, DIN EN 1991, S235 JR+N St 37-2

Load		Width between supports [mm]													
		200	300	400	500	600	700	800	900	1.000	1.100	1.200	1.300	1.400	1.500
Total load	Small van (F2)														
Wheel load	10 kN														
LA	200 x 200 mm	30/4	30/4	30/4	40/4	40/4	40/5	50/4	50/4	60/4	60/4	60/4	70/4	70/4	70/4
Total load	Van 6,0 to														
Wheel load	20 kN														
LA	200 x 200 mm	30/4	40/5	50/5	60/4	60/5	70/5	70/5	80/5	80/5	90/5	90/5	100/5	100/5	110/5
Total load	Van 9,0 to														
Wheel load	30 kN														
LA	200 x 260 mm	30/5	50/4	60/4	70/4	80/4	80/5	90/5	100/5	100/5	110/5	110/5	120/5	120/5	130/5
Total load	Van 12,0 to														
Wheel load	40 kN														
LA	200 x 300 mm	30/5	50/5	60/5	70/5	80/5	90/5	100/5	110/5	120/5	120/5	130/5	140/5	140/5	150/5
Total load	Van 16,0 to /														
Wheel load	Heavy truck 30 to														
LA	50 kN	30/5	50/4	60/5	80/5	90/5	100/5	110/5	120/5	130/5	130/5	140/5	150/5	150/5	-
Total load	Heavy truck 60 to														
Wheel load	100 kN														
LA	200 x 600 mm	40/4	60/4	70/5	90/5	110/5	130/5	140/5	150/5	-	-	-	-	-	-

The calculation of the bearing bars for passenger cars is carried out taking into account the vibration coefficient (braking factor) of 1.0 according to DIN EN 1991-1-1:2010-12 + NA. The calculation of the bearing bars for trucks and heavy trucks is carried out taking into account the vibration coefficient (braking factor) of 1.4 according to DIN 1072 (12.85).

Vehicular grating with forklift truck, pneumatic tyres, DIN EN 1991, S235 JR+N St 37-2

Load		Width between supports [mm]													
		200	300	400	500	600	700	800	900	1.000	1.100	1.200	1.300	1.400	1.500
Total load	3,1 to														
Wheel load	13 kN														
LA	200 x 200 mm	30/4	30/5	40/5	50/4	50/5	60/4	60/5	60/5	70/5	70/5	80/4	80/5	80/5	90/5
Total load	4,6 to														
Wheel load	20 kN														
LA	200 x 200 mm	30/4	40/5	50/5	60/4	60/5	70/5	70/5	80/5	80/5	90/5	90/5	100/5	100/5	110/5
Total load	7 to														
Wheel load	31,5 kN														
LA	200 x 200 mm	35/5	50/5	60/5	70/5	80/5	90/5	90/5	100/5	110/5	110/5	120/5	120/5	130/5	130/5
Total load	10 to														
Wheel load	45 kN														
LA	200 x 200 mm	45/5	60/5	70/5	80/5	100/5	100/5	110/5	120/5	130/5	130/5	140/5	150/5	150/5	-
Total load	15 to														
Wheel load	70 kN														
LA	200 x 200 mm	50/5	70/5	90/5	110/5	120/5	130/5	140/5	150/5	-	-	-	-	-	-
Total load	19 to														
Wheel load	85 kN														
LA	200 x 200 mm	60/5	80/5	100/5	120/5	130/5	140/5	150/5	-	-	-	-	-	-	-

The calculation of the bearing bars is carried out taking into account the vibration coefficient (braking factor) of 1.4.

Vehicular grating with forklift truck, solid rubber tyres, DIN EN 1991, S235 JR+N St 37-2

Load		Width between supports [mm]													
		200	300	400	500	600	700	800	900	1.000	1.100	1.200	1.300	1.400	1.500
Total load	3,1 to														
Wheel load	13 kN														
LA	200 x 200 mm	30/4	35/5	45/5	50/5	60/5	70/5	70/5	80/5	80/5	90/5	90/5	90/5	100/5	100/5
Total load	4,6 to														
Wheel load	20 kN														
LA	200 x 200 mm	35/4	45/5	60/5	70/5	80/4	80/5	90/5	100/5	100/5	110/5	110/5	120/5	120/5	130/5
Total load	7 to														
Wheel load	31,5 kN														
LA	200 x 200 mm	40/5	60/5	70/5	80/5	100/5	100/5	110/5	120/5	130/5	130/5	140/5	150/5	150/5	-
Total load	10 to														
Wheel load	45 kN														
LA	200 x 200 mm	50/5	70/5	90/5	100/5	110/5	120/5	130/5	140/5	150/5	-	-	-	-	-
Total load	15 to														
Wheel load	70 kN														
LA	200 x 200 mm	60/5	90/5	110/5	130/5	140/5	150/5	-	-	-	-	-	-	-	-
Total load	19 to														
Wheel load	85 kN														
LA	200 x 200 mm	70/5	100/5	120/5	140/5	150/5	-	-	-	-	-	-	-	-	-

The calculation of the bearing bars is carried out taking into account the vibration coefficient (braking factor) of 1.4.

Vehicular grating, DIN EN 1991, S235 JR+N St 37-2

Load		Width between supports [mm]				
		1.600	1.700	1.800	1.900	2.000
Total load	Small van (F2)					
Wheel load	10 kN	70/5	80/4	80/5	90/5	90/5
LA	200 x 200 mm					
Total load	Van 6,0 to					
Wheel load	20 kN	110/5	110/5	120/5	120/5	130/5
LA	200 x 200 mm					
Total load	Van 9,0 to					
Wheel load	30 kN	130/5	140/5	140/5	150/5	150/5
LA	200 x 260 mm					
Total load	Van 12,0 to					
Wheel load	40 kN	150/5	-	-	-	-
LA	200 x 300 mm					
Total load	Van 16,0 to /					
Wheel load	Heavy truck 30 to	-	-	-	-	-
LA	50 kN					
	200 x 400 mm					
Total load	Heavy truck 60 to					
Wheel load	100 kN	-	-	-	-	-
LA	200 x 600 mm					

The table applies to the standard mesh spacing of 33.3 x 33.3 and material S235 JR+N St 37-2.

The values represent the maximum permitted load-bearing capacity of the grating.

LA = load carrying area

Conversion values:

1 kN $\triangleq$ 100 kg

10 kN $\triangleq$ 1 to

10 N $\triangleq$ 1 daN $\triangleq$ 1 kp

The support length for gratings should correspond to the grating height, but at least 30 mm.

* NOTE: DIN 1072 is no longer valid. However, these load assumptions are still frequently used for gratings. When using these load assumptions, it is advisable to consult with the inspector and client.

** according to BGI/GUV-I 588-1, page 12

Vehicular grating with forklift truck, pneumatic tyres, DIN EN 1991, S235 JR+N St 37-2

Load		Width between supports [mm]				
		1.600	1.700	1.800	1.900	2.000
Total load	3,1 to					
Wheel load	13 kN	90/5	90/5	100/5	110/5	110/5
LA	200 x 200 mm					
Total load	4,6 to					
Wheel load	20 kN	110/5	110/5	120/5	120/5	130/5
LA	200 x 200 mm					
Total load	7 to					
Wheel load	31,5 kN	140/5	140/5	150/5	150/5	150/5
LA	200 x 200 mm					
Total load	10 to					
Wheel load	45 kN	-	-	-	-	-
LA	200 x 200 mm					
Total load	15 to					
Wheel load	70 kN	-	-	-	-	-
LA	200 x 200 mm					
Total load	19 to					
Wheel load	85 kN	-	-	-	-	-
LA	200 x 200 mm					

Vehicular grating with forklift truck, solid rubber tyres, DIN EN 1991, S235 JR+N St 37-2

Load		Width between supports [mm]				
		1.600	1.700	1.800	1.900	2.000
Total load	3,1 to					
Wheel load	13 kN	110/5	110/5	110/5	120/5	120/5
LA	200 x 200 mm					
Total load	4,6 to					
Wheel load	20 kN	130/5	140/5	140/5	140/5	150/5
LA	200 x 200 mm					
Total load	7 to					
Wheel load	31,5 kN	-	-	-	-	-
LA	200 x 200 mm					
Total load	10 to					
Wheel load	45 kN	-	-	-	-	-
LA	200 x 200 mm					
Total load	15 to					
Wheel load	70 kN	-	-	-	-	-
LA	200 x 200 mm					
Total load	19 to					
Wheel load	85 kN	-	-	-	-	-
LA	200 x 200 mm					

Quality and Test Specification

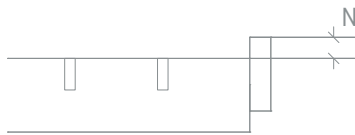
are described in the quality assurance document RAL-GZ 638.

These manufacturing and delivery tolerances must be observed for the production of all grating in accordance with the following specification of sizes:

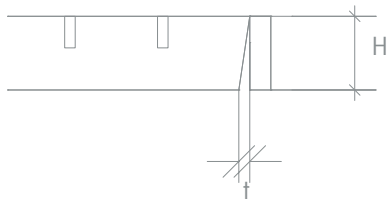
- for bearing bars $\leq 60 \text{ mm} \times 5 \text{ mm}$
- mesh spacing max. 68 mm and min. 11 mm
- grating size max. 2.0 m^2 , with a permissible lateral dimension of at most 2,000 mm.

Permitted tolerances for press locked gratings:

The tolerances occurring under a load (deformations) are not included.



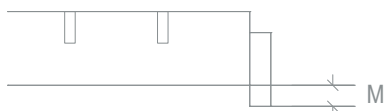
Top protruding edge N max. = 1.0 mm



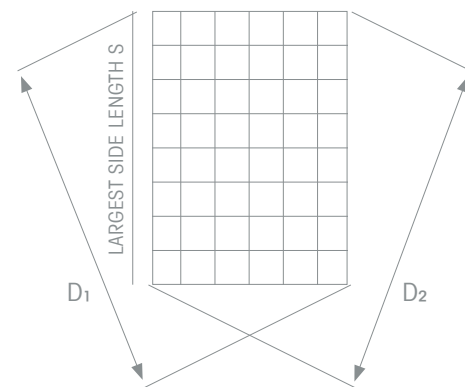
Oblique section of the bearing bar and cross bar t max. = $\pm 0.1 \times H$, but max. 3 mm



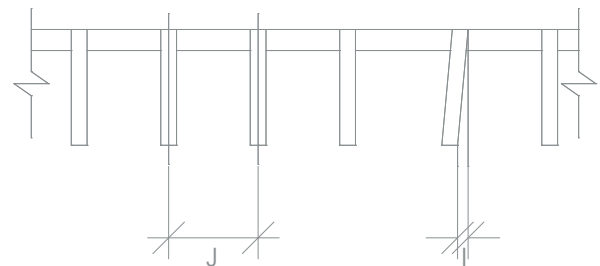
Higher cross bar K max. = 1.5 mm



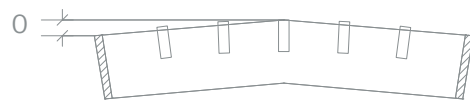
Bottom protruding edge M max. = 1.0 mm



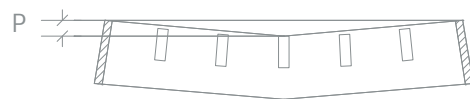
Diagonal distortion: $D_1 - D_2 \leq 0,01 \times s$



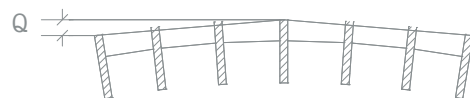
Inclination of the bearing and edge bars I max. = $0.1 \times J$, but max. 3 mm



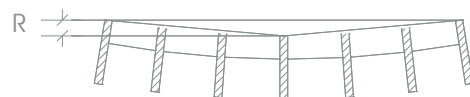
Deviations for convex O max. = $1/200$ of the length for dimensions $> 450 \text{ mm}$; max. 8 mm for dimensions smaller than 450 mm; max. 3 mm



Deviations for concave P max. = $1/200$ of the length for dimensions $> 600 \text{ mm}$; max. 8 mm for dimensions smaller than 600 mm; max. 3 mm



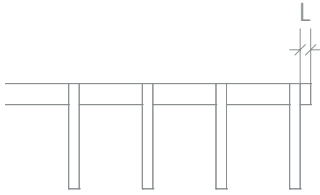
Deviations for convex Q max. = $1/200$ of the width for dimensions $> 450 \text{ mm}$; max. 8 mm for dimensions smaller than 450 mm; max. 3 mm



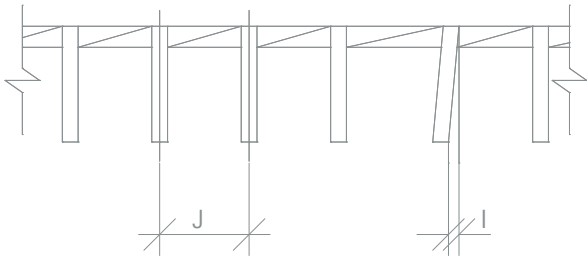
Deviations for concave R max. = $1/200$ of the width for dimensions $> 600 \text{ mm}$; max. 8 mm for dimensions smaller than 600 mm; max. 3 mm

Permitted tolerances for press welded grating:

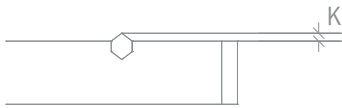
The tolerances occurring under a load (deformations) are not included.



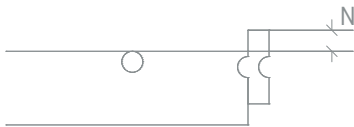
Projecting cross and edge bar L max. = 0.5 mm



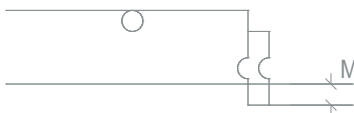
Inclination of the bearing and edge bars J max. = $0.1 \times l$, but max. 3 mm



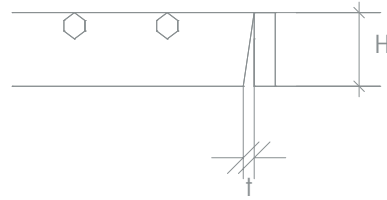
Higher cross bar K max. = 1.5 mm



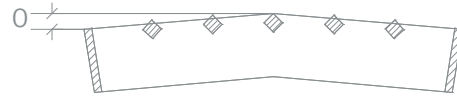
Top protruding edge N max. = 1.0 mm



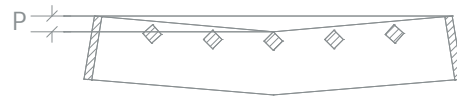
Bottom protruding edge M max. = 1.0 mm



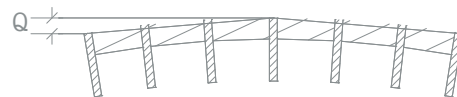
Inclination of the bearing and/or cross bar t max. = $\pm 0.1 \times H$, but max. 3 mm



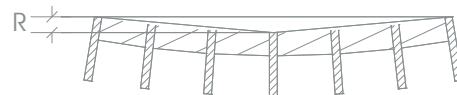
Deviations for convex O max. = $1/150$ of the length for dimensions > 450 mm; max. 8 mm for dimensions smaller than 450 mm; max. 3 mm



Deviations for concave P max. = $1/200$ of the length for dimensions > 600 mm; max. 8 mm for dimensions smaller than 600 mm; max. 3 mm



Deviations for convex Q max. = $1/150$ of the width for dimensions > 600 mm; max. 8 mm for dimensions smaller than 450 mm; max. 3 mm



Deviations for concave R max. = $1/200$ of the width for dimensions > 600 mm; max. 8 mm for dimensions smaller than 600 mm; max. 3 mm

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