

Load table for type A grating

Q(max) Max distributed load (kN/m²) in ultimate limit state.

Q(L/200) Max distributed load (kN/m²) in serviceability limit state, permitted deflection = L/200

Type A 22x22

c/c load bearing bars = 22 mm

Load bearing bar dim. (mm)		Span mm												
		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
20x2	Q(max)	93	52	33	23	17	13	10	8.3	6.9	5.8	4.9	4.3	3.7
	Q(L/200)	93	52	33	23	14	9.5	6.7	4.9	3.7	2.8	2.2	1.8	1.4
25x2	Q(max)	145	81	52	36	27	20	16	13	11	9.1	7.7	6.7	5.8
	Q(L/200)	145	81	52	36	27	19	13	9.5	7.2	5.5	4.3	3.5	2.8
30x2	Q(max)	209	117	75	52	38	29	23	19	15	13	11	9.6	8.3
	Q(L/200)	209	117	75	52	38	29	23	16	12	9.5	7.5	6.0	4.9
40x2	Q(max)	371	209	134	93	68	52	41	33	28	23	20	17	15
	Q(L/200)	371	209	134	93	68	52	41	33	28	23	18	14	12

Within the grey markings the load requirement of 5 kN/m² and the permitted sag, L/200, are NOT fulfilled

Type A 33x11

c/c load bearing bars = 33 mm

Load bearing bar dim. (mm)		Span mm												
		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
20x2	Q(max)	62	35	22	15	11	8.7	6.9	5.6	4.6	3.9	3.3	2.8	22.5
	Q(L/200)	62	35	22	15	9.5	6.4	4.5	3.3	2.4	1.9	1.5	1.2	1.0
25x2	Q(max)	97	54	35	24	18	14	11	8.7	7.2	6.0	5.1	4.4	3.9
	Q(L/200)	97	54	35	24	18	12	8.7	6.4	4.8	3.7	2.9	2.3	1.9
30x2	Q(max)	139	78	50	35	26	20	15	12	10	8.7	7.4	6.4	5.6
	Q(L/200)	139	78	50	35	26	20	15	11	8.3	6.4	5.0	4.0	3.3
40x2	Q(max)	247	139	89	62	45	35	27	22	18	15	13	11	9.9
	Q(L/200)	247	139	89	62	45	35	27	22	18	15	12	9.5	7.7

Within the grey markings the load requirement of 5 kN/m² and the permitted sag, L/200, are NOT fulfilled

Load table for type B grating

Q(max) Max distributed load (kN/m²) in ultimate limit state.

Q(L/200) Max distributed load (kN/m²) in serviceability limit state, permitted deflection = L/200

c/c load bearing bars = 12 mm

Load bearing bar dim. (mm)		Span mm																	
		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800	2000	2200	2400
20x3	Q(max)	255	143	92	64	47	36	28	23	19	16	14	12	10	9.0	7.1	5.7	4.7	4.0
	Q(L/200)	255	143	92	62	39	26	18	13	10	7.8	6.1	4.9	4.0	3.3	2.3	1.7	1.3	1.0
25x3	Q(max)	398	224	143	100	73	56	44	36	30	25	21	18	16	14	11.1	9.0	7.4	6.2
	Q(L/200)	398	224	143	100	73	51	36	26	20	15	12	9.6	7.8	6.4	4.5	3.3	2.5	1.9
30x3	Q(max)	574	323	207	143	105	81	64	52	43	36	31	26	23	20	16	13	11	9.0
	Q(L/200)	574	323	207	143	105	81	62	45	34	26	21	16	13	11	7.8	5.7	4.3	3.3
35x3	Q(max)	781	439	281	195	143	110	87	70	58	49	42	36	31	27	22	18	14	12
	Q(L/200)	781	439	281	195	143	110	87	70	54	42	33	26	21	18	12	9.0	6.8	5.2
40x3	Q(max)	1020	574	367	255	187	143	113	92	76	64	54	47	41	36	28	23	19	16
	Q(L/200)	1020	574	367	255	187	143	113	92	76	62	49	39	32	26	18	13	10	7.8

Within the grey markings the load requirement of 5 kN/m² and the permitted sag, L/200, are NOT fulfilled

Load table for type H grating

Q(max) Max distributed load (kN/m²) in ultimate limit state.

Q(L/200) Max distributed load (kN/m²) in serviceability limit state, permitted deflection = L/200

c/c load bearing bars = 33 mm

Load bearing bar dim. (mm)		Span mm																	
		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800	2000	2200	2400
20x2	Q(max)	62	35	22	15	11	8,7	6,9	5,6	4,6	3,9	3,3	2,8	2,5	2,2	1,7	1,4	1,1	1,0
	Q(L/200)	62	35	22	15	9,5	6,4	4,5	3,3	2,4	1,9	1,5	1,2	1,0	0,8	0,6	0,4	0,3	0,2
20x3	Q(max)	93	52	33	23	17	13	10	8,3	6,9	5,8	4,9	4,3	3,7	3,3	2,9	2,1	1,7	1,4
	Q(L/200)	93	52	39	23	14	9,5	6,7	4,9	3,7	2,8	2,2	1,8	1,4	1,2	1,0	0,6	0,5	0,4
25x2	Q(max)	97	54	35	24	18	14	11	8,7	7,2	6,0	5,1	4,4	3,9	3,4	2,7	2,2	1,8	1,5
	Q(L/200)	97	54	35	24	18	12	9	6,4	4,8	3,7	2,9	2,3	1,9	1,6	1,1	0,8	0,6	0,5
25x3	Q(max)	145	81	52	36	26	20	16	13	11	9,1	7,7	6,7	5,8	5,1	4,0	3,3	2,7	2,3
	Q(L/200)	145	81	52	36	26	19	13	9,5	7,2	5,5	4,3	3,5	2,8	2,3	1,6	1,2	0,9	0,7
30x2	Q(max)	139	78	50	35	26	20	15	12	10	8,7	7,4	6,4	5,6	4,9	3,9	3,1	2,6	2,2
	Q(L/200)	139	78	50	35	26	20	15	11	8,3	6,4	5,0	4,0	3,3	2,7	1,9	1,4	1,0	0,8
30x3	Q(max)	209	117	75	52	38	29	23	19	15	13	11	9,6	8,3	7,3	5,8	4,7	3,9	3,3
	Q(L/200)	209	117	75	52	38	29	23	16	12	9,5	7,5	6,0	4,9	4,0	2,8	2,1	1,5	1,2
35x2	Q(max)	189	106	68	47	35	27	21	17	14	12	10	8,7	7,6	6,7	5,3	4,3	3,5	3,0
	Q(L/200)	189	106	68	47	35	27	21	17	13	10	7,9	6,4	5,2	4,3	3,0	2,2	1,6	1,3
35x3	Q(max)	284	160	102	71	52	40	32	26	21	18	15	13	11	10	7,9	6,4	5,3	4,4
	Q(L/200)	284	160	102	71	52	40	32	26	20	15	12	9,5	7,8	6,4	4,5	3,3	2,5	1,9
40x2	Q(max)	247	139	89	62	45	35	27	22	18	15	13	11	9,9	8,7	6,9	5,6	4,6	3,9
	Q(L/200)	247	139	89	62	45	35	27	22	18	15	12	9,5	7,7	6,4	4,5	3,3	2,4	1,9
40x3	Q(max)	371	209	134	93	68	52	41	33	28	23	20	17	15	13	10	8,3	6,9	5,8
	Q(L/200)	371	209	134	93	68	52	41	33	28	23	18	14	12	9,5	6,7	4,9	3,7	2,8
45x3	Q(max)	469	264	169	117	86	66	52	42	35	29	25	22	19	16	13	11	8,7	7,3
	Q(L/200)	469	264	169	117	86	66	52	42	35	29	25	20	16	14	9,5	7,0	5,2	4,0
50x3	Q(max)	580	326	209	145	106	81	64	52	43	36	31	27	23	20	16	13	11	9,1
	Q(L/200)	580	326	209	145	106	81	64	52	43	36	31	27	23	19	13	9,5	7,2	5,5
50x4	Q(max)	1168	657	420	292	214	164	130	105	87	73	62	54	47	41	32	26	22	18
	Q(L/200)	1168	657	420	292	214	164	130	102	76	59	46	37	30	25	17	13	9,6	7,4
50x5	Q(max)	1459	821	525	365	268	205	162	131	109	91	78	67	58	51	40	33	27	23
	Q(L/200)	1459	821	525	365	268	205	162	127	96	74	58	46	38	31	22	16	12	9,2
60x4	Q(max)	1681	946	605	420	309	236	187	151	125	105	89	77	67	59	47	38	31	26
	Q(L/200)	1681	946	605	420	309	236	187	151	125	102	80	64	52	43	30	22	16	13
60x5	Q(max)	2102	1182	757	525	386	295	233	189	156	131	112	96	84	74	55	47	39	33
	Q(L/200)	2102	1182	757	525	386	295	233	189	156	127	100	80	65	54	38	27	21	16
70x4	Q(max)	2288	1287	824	572	420	322	254	206	170	143	122	105	91	80	64	51	43	36
	Q(L/200)	2288	1287	824	572	420	322	254	206	170	143	122	102	83	68	48	35	26	20
70x5	Q(max)	2860	1609	1030	715	525	402	318	257	213	179	152	131	114	101	79	64	53	45
	Q(L/200)	2860	1609	1030	715	525	402	318	257	213	179	152	127	103	85	60	44	33	25
80x4	Q(max)	2989	1681	1076	747	549	420	332	269	222	187	159	137	120	105	83	67	56	47
	Q(L/200)	2989	1681	1076	747	549	420	332	269	222	187	159	137	120	102	71	52	39	30
80x5	Q(max)	3736	2102	1345	934	686	525	415	336	278	233	199	172	149	131	104	84	69	58
	Q(L/200)	3736	2102	1345	934	686	525	415	336	278	233	199	172	149	127	89	65	49	38

Within the grey markings the load requirement of 5 kN/m² and the permitted sag, L/200, are NOT fulfilled

Load table for type J grating

Q(max) Max distributed load (kN/m²) in ultimate limit state.

Q(L/200) Max distributed load (kN/m²) in serviceability limit state, permitted deflection = L/200

c/c load bearing bars = 41 mm

Load bearing bar dim. (mm)		Span mm																	
		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800	2000	2200	2400
20x3	Q(max)	75	42	27	19	14	10	8.3	6.7	5.6	4.7								
	Q(L/200)	75	42	27	18	11	7.7	5.4	3.9	3.0	2.3								
25x3	Q(max)	117	66	42	29	21	16	13	10	8.7	7.3	6.2	5.4	4.7					
	Q(L/200)	117	66	42	29	21	15	10	7.7	5.8	4.4	3.5	2.8	2.3					
25x5	Q(max)	294	165	106	73	54	41	33	26	22	18	16	13	12	10	8.2	6.6	5.5	4.6
	Q(L/200)	294	165	102	59	37	25	18	13	9.6	7.4	5.8	4.7	3.8	3.1	2.2	1.6	1.2	0.9
30x3	Q(max)	168	94	60	42	31	24	19	15	12	10	8.9	7.7	6.7	5.9	4.7	3.8	3.1	2.6
	Q(L/200)	168	94	60	42	31	24	18	13	10	7.7	6.0	4.8	3.9	3.2	2.3	1.7	1.2	1.0
35x3	Q(max)	229	129	82	57	42	32	25	21	17	14	12	10	9.1	8.0	6.4	5.1	4.3	3.6
	Q(L/200)	229	129	82	57	42	32	25	21	16	12	9.6	7.7	6.2	5.1	3.6	2.6	2.0	1.5
30x5	Q(max)	423	238	152	106	78	59	47	38	31	26	22	19	17	15	12	9.5	7.9	6.6
	Q(L/200)	423	238	152	102	64	43	30	22	17	13	10	8.1	6.6	5.4	3.8	2.8	2.1	1.6
40x3	Q(max)	299	168	108	75	55	42	33	27	22	19	16	14	12	10	8.3	6.7	5.6	4.7
	Q(L/200)	299	168	108	75	55	42	33	27	22	18	14	11	9.3	7.7	5.4	3.9	3.0	2.3
35x5	Q(max)	576	324	207	144	106	81	64	52	43	36	31	26	23	20	16	13	11	9.0
	Q(L/200)	576	324	207	144	102	69	48	35	26	20	16	13	10	8.6	6.0	4.4	3.3	2.5
45x3	Q(max)	378	213	136	94	69	53	42	34	28	24	20	17	15	13	10	8.5	7.0	5.9
	Q(L/200)	378	213	136	94	69	53	42	34	28	24	20	16	13	11	7.7	5.6	4.2	3.2
40x5	Q(max)	752	423	271	188	138	106	83	68	56	47	40	34	30	26	21	17	14	11.7
	Q(L/200)	752	423	271	188	138	102	72	52	39	30	24	19	15	13	9.0	6.6	4.9	3.8
50x3	Q(max)	467	262	168	117	86	66	52	42	35	29	25	21	19	16	13	10	8.7	7.3
	Q(L/200)	467	262	168	117	86	66	52	42	35	29	25	21	18	15	10	7.7	5.8	4.4
50x5	Q(max)	1175	661	423	294	216	165	130	106	87	73	63	54	47	41	33	26	22	18.4
	Q(L/200)	1175	661	423	294	216	165	130	102	77	59	47	37	30	25	18	13	9.6	7.4

Within the grey markings the load requirement of 5 kN/m² and the permitted sag, L/200, are NOT fulfilled

Load table for type N grating

Q(max) Max distributed load (kN/m²) in ultimate limit state.

Q(L/200) Max distributed load (kN/m²) in serviceability limit state, permitted deflection = L/200

c/c load bearing bars = 16 mm

Load bearing bar dim. (mm)		Span mm																		
		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800	2000	2200	2400	
20x2	Q(max)	120	97	43	30	22	17	13	11	8.9	7.5	6.4	5.5	4.8	4.2	3.3	2.7	2.2	1.9	
	Q(L/200)	120	97	43	29	18	12	8.7	6.3	4.8	3.7	2.9	2.3	1.9	1.5	1.1	0.8	0.6	0.5	
20x3	Q(max)	180	101	65	45	33	25	20	16	13	11	9.6	8.3	7.2	6.3	5.0	4.1	3.3	2.8	
	Q(L/200)	180	101	65	44	28	18	13	9.5	7.1	5.5	4.3	3.5	2.8	2.3	1.6	1.2	0.9	0.7	
25x2	Q(max)	187	105	67	47	34	26	21	17	14	12	10	8.6	7.5	6.6	5.2	4.2	3.5	2.9	
	Q(L/200)	187	105	67	47	34	24	17	12	9.3	7.1	5.6	4.5	3.7	3.0	2.1	1.5	1.2	0.9	
25x3	Q(max)	281	158	101	70	52	40	31	25	21	18	15	13	11	9.9	7.8	6.3	5.2	4.4	
	Q(L/200)	281	158	101	70	52	36	25	18	14	11	8.4	6.8	5.5	4.5	3.2	2.3	1.7	1.3	
30x2	Q(max)	270	152	97	67	50	38	30	24	20	17	14	12	11	9.5	7.5	6.1	5.0	4.2	
	Q(L/200)	270	152	97	67	50	38	29	21	16	12	9.7	7.8	6.3	5.2	3.7	2.7	2.0	1.5	
30x3	Q(max)	405	228	146	101	74	57	45	36	30	25	22	19	16	14	11	9.1	7.5	6.3	
	Q(L/200)	405	228	146	101	74	57	44	32	24	18	15	12	9.5	7.8	5.5	4.0	3.0	2.3	
35x3	Q(max)	586	329	211	146	108	82	65	53	44	37	31	27	23	21	16	13	11	9.2	
	Q(L/200)	586	329	211	146	108	82	65	53	41	31	25	20	16	13	9.3	6.8	5.1	3.9	
40x3	Q(max)	765	430	275	191	140	108	85	69	57	48	41	35	31	27	21	17	14	12	
	Q(L/200)	765	430	275	191	140	108	85	69	57	47	37	29	24	20	14	10	7.6	5.8	
45x3	Q(max)	968	545	349	242	178	136	108	87	72	60	52	44	39	34	27	22	18	15	
	Q(L/200)	968	545	349	242	178	136	108	87	72	60	52	42	34	28	20	14	11	8.3	
50x3	Q(max)	1196	672	430	299	220	168	133	108	89	75	64	55	48	42	33	27	22	19	
	Q(L/200)	1196	672	430	299	220	168	133	108	89	75	64	55	47	38	27	20	15	11	

Within the grey markings the load requirement of 5 kN/m² and the permitted sag, L/200, are NOT fulfilled

Load table for type H grating

-Serrated version

Q(max) Max distributed load (kN/m²) in ultimate limit state.

Q(L/200) Max distributed load (kN/m²) in serviceability limit state, permitted deflection = L/200

c/c load bearing bars = 33 mm

Load bearing bar dim. (mm)		Span mm																	
		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800	2000	2200	2400
25x2	Q(max)	71	40	26	18	13	10	7.9	6.4	5.3	4.5								
	Q(L/200)	71	40	26	18	12	7.9	5.6	4.0	3.0	2.3								
25x3	Q(max)	107	60	39	27	20	15	12	9.6	8.0	6.7	5.7	4.9						
	Q(L/200)	107	60	39	27	18	12	8.3	6.1	4.6	3.5	2.8	2.2						
30x3	Q(max)	163	92	59	41	30	23	18	15	12	10	8.7	7.5	6.5	5.7	4.5			
	Q(L/200)	163	92	59	41	30	22	16	11	8.5	6.6	5.2	4.1	3.4	2.8	1.9			
35x3	Q(max)	230	129	83	57	42	32	26	21	17	14	12	11	9.2	8.1	6.4	5.2	4.3	
	Q(L/200)	230	129	83	57	42	32	26	19	14	11	8.7	7.0	5.7	4.7	3.3	2.4	1.8	
40x3	Q(max)	309	174	111	77	57	43	34	28	23	19	16	14	12	11	8.6	7.0	5.7	4.8
	Q(L/200)	309	174	111	77	57	43	34	28	22	17	13	11	8.8	7.3	5.1	3.7	2.8	2.1

Within the grey markings the load requirement of 5 kN/m² and the permitted sag, L/200, are NOT fulfilled

Load table for type N grating

-Serrated version

Q(max) Max distributed load (kN/m²) in ultimate limit state.

Q(L/200) Max distributed load (kN/m²) in serviceability limit state, permitted deflection = L/200

c/c load bearing bars = 16 mm

Load bearing bar dim. (mm)		Span mm																	
		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800	2000	2200	2400
25x3	Q(max)	221	124	80	55	41	31	25	20	16	14	12	10	8.8	7.8	6.1	5.0	4.1	3.5
	Q(L/200)	221	124	80	55	36	24	17	12	9.4	7.2	5.7	4.6	3.7	3.1	2.1	1.6	1.2	0.9
30x3	Q(max)	336	189	121	84	62	47	37	30	25	21	18	15	13	12	9.3	7.6	6.2	5.2
	Q(L/200)	336	189	121	84	62	46	32	23	18	14	11	8.5	6.9	5.7	4.0	2.9	2.2	1.7
35x3	Q(max)	474	267	171	119	87	67	53	43	35	30	25	22	19	17	13	11	8.8	7.4
	Q(L/200)	474	267	171	119	87	67	53	39	30	23	18	14	12	9.6	6.8	4.9	3.7	2.8
40x3	Q(max)	637	358	229	159	117	90	71	57	47	40	34	29	25	22	18	14	12	10
	Q(L/200)	637	358	229	159	117	90	71	57	46	35	28	22	18	15	10	7.7	5.8	4.4

Within the grey markings the load requirement of 5 kN/m² and the permitted sag, L/200, are NOT fulfilled

Load table for type JN9 and HN9 grating

-Serrated version

Q(max) Max distributed load (kN/m²) in ultimate limit state.

Q(L/200) Max distributed load (kN/m²) in serviceability limit state, permitted deflection = L/200

Type JN9-T

c/c load bearing bars = 41 mm

Load bearing bar dim. (mm)		Span mm																	
		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800	2000	2200	2400
25x5	Q(max)	217	122	78	54	40	30	24	19	16	14	12	10	8.7	7.6	6.0	4.9		
	Q(L/200)	217	122	65	38	24	16	11	8.1	6.1	4.7	3.7	3.0	2.4	2.0	1.4	1.0		
30x3	Q(max)	131	74	47	33	24	18	15	12	9.7	8.2	7.0	6.0	5.2	4.6	3.6	2.9		
	Q(L/200)	131	74	47	33	24	18	13	9.2	6.9	5.3	4.2	3.3	2.7	2.2	1.6	1.1		
30x5	Q(max)	330	186	119	82	61	46	37	30	24	21	18	15	13	12	9.2	7.4	6.1	5.2
	Q(L/200)	330	186	119	71	44	30	21	15	11	8.8	6.9	5.6	4.5	3.7	2.6	1.9	1.4	1.1
35x5	Q(max)	466	262	168	117	86	66	52	42	35	29	25	21	19	16	13	10	8.7	7.3
	Q(L/200)	466	262	168	117	75	50	35	26	19	15	12	9.3	7.6	6.3	4.4	3.2	2.4	1.9
45x5	Q(max)	809	455	291	202	149	114	90	73	60	51	43	37	32	28	22	18	15	13
	Q(L/200)	809	455	291	202	149	114	80	59	44	34	27	21	17	14	10	7.3	5.5	4.2
50x5	Q(max)	1016	571	366	254	187	143	113	91	76	63	54	47	41	36	28	23	19	16
	Q(L/200)	1016	571	366	254	187	143	113	82	62	48	37	30	24	20	14	10	7.7	6.0

Within the grey markings the load requirement of 5 kN/m² and the permitted sag, L/200, are NOT fulfilled

Type HN9-T

c/c load bearing bars = 35 mm

Load bearing bar dim. (mm)		Span mm																	
		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800	2000	2200	2400
25x3	Q(max)	98	55	35	25	18	14	11	8.8	7.3	6.1	5.2	4.5						
	Q(L/200)	98	55	35	25	16	11	7.6	5.6	4.2	3.2	2.5	2.0						
25x5	Q(max)	247	139	89	62	45	35	27	22	18	15	13	11	9.9	8.7	6.9	5.6	4.6	
	Q(L/200)	247	139	74	43	27	18	13	9.3	7.0	5.4	4.2	3.4	2.7	2.3	1.6	1.2	0.9	
30x3	Q(max)	149	84	54	37	27	21	17	13	11	9.3	7.9	6.9	6.0	5.2	4.1	3.4	2.8	
	Q(L/200)	149	84	54	37	27	20	14	10	7.8	6.0	4.7	3.8	3.1	2.5	1.8	1.3	1.0	
30x5	Q(max)	376	211	135	94	69	53	42	34	28	23	20	17	15	13	10	8.5	7.0	5.9
	Q(L/200)	376	211	135	80	51	34	24	17	13	10	7.9	6.3	5.1	4.2	3.0	2.2	1.6	1.3

Within the grey markings the load requirement of 5 kN/m² and the permitted sag, L/200, are NOT fulfilled

Load table for vehicular grating

– Any driving direction, cars

Private car (max 3000 kg): Load 10 kN per wheel
Load area 100x100 mm

Q(max) Max concentrated load (kN) in ultimate limit state.
Table values indicate characteristic loads for safety class 2
For safety class 1: multiply the value by 1.1
For safety class 3: multiply the value by 0.91



Q(L/200) Max concentrated load (kN) in serviceability limit state, permitted deflection = L/200

c/c load bearing bars = 33 mm

Type of grating		Span mm												
		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
H3 30/3	Q(max)	6.6	5.1	4.2	3.7									
	Q(L/200)	6.6	5.1	4.2	3.7									
H3 35/3	Q(max)	9.7	7.6	6.4	5.7	5.1								
	Q(L/200)	9.7	7.6	6.4	5.7	5.1								
H3 40/3	Q(max)	12	9.2	7.7	6.7	6.0	5.5							
	Q(L/200)	12	9.2	7.7	6.7	6.0	5.5							
H3 45/3	Q(max)	15	11	9.1	7.9	7.0	6.4	5.9	5.5					
	Q(L/200)	15	11	9.1	7.9	7.0	6.4	5.9	5.5					
H3 50/3	Q(max)	17	13	11	9.2	8.1	7.3	6.7	6.3	5.9	5.6			
	Q(L/200)	17	13	11	9.2	8.1	7.3	6.7	6.3	5.9	5.6			
H4 35/4	Q(max)	19	15	12	11	9.8	9.0	8.4	7.9	7.4	6.7			
	Q(L/200)	19	15	12	11	8.0	6.1	4.9	3.9	3.2	2.7			
H4 40/4	Q(max)	24	18	15	13	12	10	9.8	9.1	8.6	8.2			
	Q(L/200)	24	18	15	13	12	9.2	7.2	5.9	4.8	4.1			
H4 45/4	Q(max)	29	22	18	15	14	12	11	10	9.9	9.4			
	Q(L/200)	29	22	18	15	14	12	10	8.4	6.9	5.8			
H3 50/4	Q(max)	37	28	23	19	17	16	14	13	13	12	11.5	11.0	10.6
	Q(L/200)	37	28	23	19	17	16	14	11	9.5	8.0	6.8	5.8	5.1
H3 60/4	Q(max)	51	38	30	26	23	20	18	17	16	15	14	14	13
	Q(L/200)	51	38	30	26	23	20	18	17	16	14	12	10	8.8
H3 70/4	Q(max)	67	49	39	33	29	26	23	21	20	19	17	17	16
	Q(L/200)	67	49	39	33	29	26	23	21	20	19	17	16	14
H3 80/4	Q(max)	86	63	50	42	36	32	29	26	24	23	21	20	19
	Q(L/200)	86	63	50	42	36	32	29	26	24	23	21	20	19

Within the grey markings the load requirement of 10 kN and the permitted sag, L/200, are NOT fulfilled

Load table for vehicular grating

– Any driving direction, fork lift trucks

Q(max) Max concentrated load (kN) in ultimate limit state.
 Load area 200x200 mm
 Table values indicate characteristic loads for safety class 2
 For safety class 1: multiply the value by 1.1
 For safety class 3: multiply the value by 0.91



Q(L/200) Max concentrated load (kN) in serviceability limit state,
 permitted deflection = L/200

c/c load bearing bars = 33 mm

Type of grating		Span mm												
		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
H3 30/3	Q(max)	15,4	11	8,6	7,2	6,3	5,7	5,1	4,6	4,1	3,7	3,4	3,2	2,9
	Q(L/200)	15,4	11	8,6	7,2	5,7	4,4	3,5	2,8	2,3	1,9	1,7	1,4	1,2
H3 35/3	Q(max)	22	16	13	11	9,3	8,0	7,0	6,2	5,6	5,1	4,7	4,3	4,0
	Q(L/200)	22	16	13	11	9,1	7,0	5,5	4,4	3,7	3,1	2,6	2,3	2
H3 40/3	Q(max)	27	20	16	13	11	10	9,1	8,1	7,3	6,6	6,1	5,6	5,2
	Q(L/200)	27	20	16	13	11	10	8,2	6,6	5,5	4,6	3,9	3,4	3
H3 45/3	Q(max)	34	24	19	16	14	12	11	10	9,2	8,4	7,7	7,1	6,6
	Q(L/200)	34	24	19	16	14	12	11	10	7,8	6,6	5,6	4,8	4,2
H3 50/3	Q(max)	41	29	22	19	16	14	13	12	11	10	9,5	8,8	8,1
	Q(L/200)	41	29	22	19	16	14	13	12	11	9	7,7	6,6	5,8
H4 35/4	Q(max)	44	31	25	21	19	17	14	13	12	10	9,7	8,9	8,3
	Q(L/200)	44	31	24	17	12	9,5	7,5	6,1	5,1	4,2	3,6	3,1	2,7
H4 40/4	Q(max)	56	39	31	26	18	20	18	17	15	14	13	12	11
	Q(L/200)	56	39	31	25	19	14	11	9,1	7,5	6,3	5,4	4,7	4,1
H4 45/4	Q(max)	70	48	38	31	27	24	22	20	18	17	16	15	14
	Q(L/200)	70	48	38	31	26	20	16	13	11	9	7,7	6,6	5,8
H3 50/4	Q(max)	87	60	47	39	34	30	27	25	23	21	20	18	17
	Q(L/200)	87	60	47	39	34	28	22	18	15	12	10	9,1	7,9
H3 60/4	Q(max)	121	83	64	53	46	40	36	33	30	28	27	25	24
	Q(L/200)	121	83	64	53	46	40	36	31	25	21	18	16	14
H3 70/4	Q(max)	162	111	85	69	59	52	46	42	39	36	33	31	30
	Q(L/200)	162	111	85	69	59	52	46	42	39	34	29	25	22
H3 80/4	Q(max)	209	142	109	88	75	65	58	53	48	44	41	39	37
	Q(L/200)	209	142	109	88	75	65	58	53	48	44	41	37	32

c/c load bearing bars = 25 mm

F4 80/5	Q(max)	340	229	174	141	118	103	91	81	74	68	63	59	55
	Q(L/200)	340	229	174	141	118	103	91	81	74	68	63	59	53

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Fork lift classes according to Eurocode 1

			Characteristic load per wheel incl. dynamic factor	
Class	Net weight	Lifting capacity	Pneumatic tyres	Homogeneous tyres
FL1	21 kN	10 kN	18 kN	26 kN
FL2	31 kN	15 kN	28 kN	40 kN
FL3	44 kN	25 kN	44 kN	63 kN
FL4	60 kN	40 kN	63 kN	90 kN
FL5	90 kN	60 kN	98 kN	140 kN
FL6	110 kN	80 kN	119 kN	170 kN

Load surface: 200 x 200 mm.

Load table for vehicular grating – Hand Trucks

Electrically-powered hand truck

Lifting capacity	Load per wheel
1000 kg	4 kN
1200 kg	5 kN
1500 kg	6 kN
2000 kg	8 kN
2500 kg	10 kN



Manual hand truck

Lifting capacity	Load per wheel
500 kg	1.7 kN
750 kg	2.6 kN
1000 kg	3.4 kN
1200 kg	4.1 kN
1500 kg	5.1 kN



c/c load bearing bars = 33 mm

The table gives the permitted load (kN) per wheel. Load area 40x80 mm.

Type of grating	Span mm													
	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
H3 25/3	3.4	2.5	2.1	1.9	1.7	1.4	1.1	0.9						
H3 30/3	4.5	3.2	2.6	2.2	2.0	1.9	1.8	1.5	1.2	1.0	0.8			
H3 35/3	6.7	4.9	4.1	3.7	3.4	3.2	3.0	2.4	1.9	1.6	1.3	1.1	1.0	0.8
H3 40/3	8.1	5.8	4.8	4.2	3.8	3.5	3.3	3.2	2.8	2.4	2.0	1.7	1.5	1.3
H3 45/3	9.7	6.8	5.5	4.7	4.2	3.9	3.7	3.5	3.3	3.2	2.8	2.4	2.1	1.8
H3 50/3	11.5	7.9	6.3	5.4	4.8	4.4	4.1	3.8	3.6	3.5	3.4	3.3	2.8	2.5
H3 50/4	24.3	16.8	13.4	11.5	10.3	9.4	8.8	8.3	7.6	6.3	5.3	4.5	3.9	3.4
H3 60/4	33.0	22.1	17.3	14.5	12.8	11.5	10.6	9.9	9.4	8.9	8.6	7.8	6.7	5.9
H4 60/5	38.9	25.3	19.2	15.8	13.6	12.0	10.9	10.0	9.3	8.8	8.3	7.9	7.6	7.3
H3 70/4	43.3	28.4	21.8	18.1	15.7	14.0	12.8	11.8	11.1	10.5	10.0	9.6	9.2	8.9
H4 70/5	51.7	33.1	24.9	20.2	17.2	15.1	13.6	12.4	11.5	10.7	10.1	9.6	9.1	8.7
H3 80/4	55.1	35.7	27.1	22.2	19.1	16.9	15.3	14.0	13.1	12.3	11.6	11.1	10.6	10.2
H4 80/5	66.5	42.2	31.5	25.4	21.5	18.7	16.7	15.2	13.9	13.0	12.1	11.4	10.9	10.3

c/c load bearing bars = 16 mm

N6 25/2	4.2	3.0	2.4	2.1	1.9	1.8	1.4	1.1	0.9					
N6 30/2	5.6	3.8	3.1	2.6	2.3	2.1	2.0	1.9	1.6	1.3	1.1	0.9		
N9 25/3	6.3	4.4	3.6	3.2	2.9	2.7	2.2	1.7	1.4	1.1	1.0	0.8		
N9 30/3	8.4	5.7	4.6	3.9	3.5	3.2	3.0	2.8	2.4	2.0	1.7	1.4	1.2	1.1
N9 35/3	13.4	9.6	7.9	7.0	6.4	5.9	5.6	5.0	4.0	3.3	2.8	2.4	2.1	1.8
N9 40/3	16.5	11.5	9.3	8.0	7.2	6.7	6.3	5.9	5.7	5.0	4.2	3.6	3.1	2.7
N9 50/3	23.7	16.0	12.5	10.6	9.3	8.4	7.8	7.3	6.9	6.6	6.3	6.1	5.9	5.2

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c/c load bearing bars = 33 mm

Type of grating	Span mm													
	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
A33x11 25/2	5.7	3.5	2.5	1.9	1.3	1.0	0.7							
A33x11 30/2	9.9	5.1	3.7	2.9	2.3	1.7	1.3	1.0	0.8					
A33x11 40/2	13.2	9.0	6.5	5.1	4.2	3.5	3.1	2.4	2.0	1.6	1.4	1.2	1.0	0.9

c/c load bearing bars = 22 mm

A22x22 25/2	8.6	5.3	3.8	2.9	2.0	1.5	1.1	0.9	0.7					
A22x22 30/2	14.8	7.6	5.5	4.3	3.4	2.5	1.9	1.5	1.2	1.0	0.9	0.7		
A22x22 40/2	19.7	13.5	9.7	7.6	6.3	5.3	4.6	3.6	2.9	2.4	2.0	1.7	1.5	1.3

Load table for vehicular grating – Goods vehicles

Traffic flow direction A, along the load bearing bars.

Heavy trucks (general traffic): Load 105 kN per wheel
Load area 600x200 mm

Q(max) Max concentrated load (kN) in ultimate limit state.
Table values indicate characteristic loads for safety class 2
For safety class 1: multiply the value by 1.1
For safety class 3: multiply the value by 0.91



Q(L/200) Max concentrated load (kN) in serviceability limit state, permitted deflection = L/200

c/c load bearing bars = 33 mm

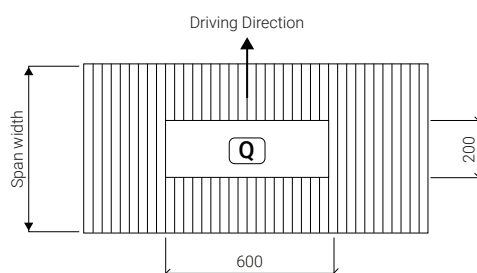
Type of grating		Span mm									
		300	400	500	600	700	800	900	1000	1100	1200
H3 50/3	Q(max)	117	79	60	49	41	36	32	29	26	24
	Q(L/200)	117	79	60	49	41	36	32	29	26	22
H4 35/4	Q(max)	122	83	64	52	44	39	34	30	27	25
	Q(L/200)	122	83	59	41	30	23	18	15	12	10
H4 40/4	Q(max)	157	107	81	66	56	49	44	39	35	32
	Q(L/200)	157	107	81	61	45	35	27	22	18	15
H4 45/4	Q(max)	197	133	101	82	70	60	54	48	44	41
	Q(L/200)	197	133	101	82	64	49	39	31	26	22
H3 50/4	Q(max)	244	165	126	102	87	75	67	60	55	50
	Q(L/200)	244	165	126	102	87	68	53	43	36	30
H3 60/4	Q(max)	348	235	178	144	121	105	93	83	76	70
	Q(L/200)	348	235	178	144	121	105	93	75	62	52
H3 70/4	Q(max)	471	317	239	193	162	140	124	111	100	92
	Q(L/200)	471	317	239	193	162	140	124	111	98	82
H3 80/4	Q(max)	613	411	310	250	209	181	159	142	129	118
	Q(L/200)	613	411	310	250	209	181	159	142	129	118

Within the grey marking the 105 kN load requirement is NOT met

c/c load bearing bars = 25 mm

Type of grating		Span mm									
		900	1000	1100	1200	1300	1400	1500	1600	1800	2000
F8 80/5	Q(max)	257	229	207	189	174	161	150	141	125	112
	Q(L/200)	257	229	207	189	173	149	130	114	90	73

Within the grey marking the 105 kN load requirement is NOT met



Load table for vehicular grating – Goods vehicles Traffic flow direction B, perpendicular to the load bearing bars.

Heavy trucks (general traffic): Load 105 kN per wheel
Load area 600x200 mm

Q(max) Max concentrated load (kN) in ultimate limit state.
Table values indicate characteristic loads for safety class 2
For safety class 1: multiply the value by 1.1
For safety class 3: multiply the value by 0.91



Q(L/200) Max concentrated load (kN) in serviceability limit state, permitted deflection = L/200

c/c load bearing bars = 33 mm

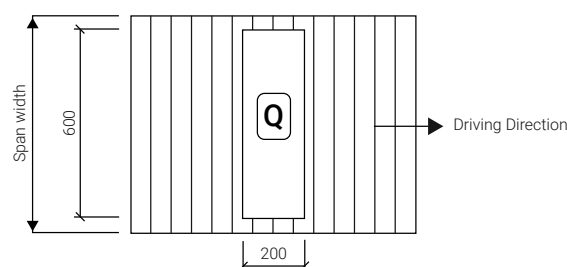
Type of grating		Span mm									
		300	400	500	600	700	800	900	1000	1100	1200
H3 50/3	Q(max)	110	66	45	33	27	23	19	16	14	13
	Q(L/200)	110	66	45	33	27	20	16	13	11	9.0
H4 35/4	Q(max)	118	72	51	39	29	23	19	17	14	13
	Q(L/200)	118	57	29	17	12	9.5	7.5	6.1	5.1	4.2
H4 40/4	Q(max)	150	90	62	47	38	30	25	22	19	17
	Q(L/200)	150	85	44	25	19	14	11	9.1	7.5	6.3
H4 45/4	Q(max)	186	110	75	56	45	38	32	27	24	21
	Q(L/200)	186	110	62	36	26	20	16	13	11	9.0
H3 50/4	Q(max)	231	138	94	71	57	47	39	34	30	26
	Q(L/200)	231	138	85	49	36	28	22	18	15	12
H3 60/4	Q(max)	323	190	128	94	75	63	56	49	43	38
	Q(L/200)	323	190	128	85	63	48	38	31	25	21
H3 70/4	Q(max)	433	251	167	121	95	80	70	62	57	51
	Q(L/200)	433	251	167	121	95	76	60	49	40	34
H3 80/4	Q(max)	559	322	212	153	119	99	85	76	68	63
	Q(L/200)	559	322	212	153	119	99	85	73	60	51

Within the grey marking the 105 kN load requirement is NOT met

c/c load bearing bars = 25 mm

Type of grating		Span mm									
		900	1000	1100	1200	1300	1400	1500	1600	1800	2000
F8 80/5	Q(max)	129	113	101	92	84	78	73	69	62	57
	Q(L/200)	129	113	99	84	71	61	53	47	37	30

Within the grey marking the 105 kN load requirement is NOT met



Load table for drivable floor grating – Vehicles between 3-16 tonnes total weight Any driving direction

Vehicles between 3 - 16 tonnes (general traffic): Load 45 kN per wheel
Load area 200x200 mm

Q(max) Max concentrated load (kN) in ultimate limit state.
Table values indicate characteristic loads for safety class 2
For safety class 1: multiply the value by 1.1
For safety class 3: multiply the value by 0.91



Q(L/200) Max concentrated load (kN) in serviceability limit state, permitted deflection = L/200
c/c load bearing bars = 33 mm

Type of grating		Span mm												
		300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
H3 30/3	Q(max)	15,4	11	8,6	7,2	6,3	5,7	5,1	4,6	4,1	3,7	3,4	3,2	2,9
	Q(L/200)	15,4	11	8,6	7,2	5,7	4,4	3,5	2,8	2,3	1,9	1,7	1,4	1,2
H3 35/3	Q(max)	22	16	13	11	9,3	8,0	7,0	6,2	5,6	5,1	4,7	4,3	4,0
	Q(L/200)	22	16	13	11	9,1	7,0	5,5	4,4	3,7	3,1	2,6	2,3	2
H3 40/3	Q(max)	27	20	16	13	11	10	9,1	8,1	7,3	6,6	6,1	5,6	5,2
	Q(L/200)	27	20	16	13	11	10	8,2	6,6	5,5	4,6	3,9	3,4	3
H3 45/3	Q(max)	34	24	19	16	14	12	11	10	9,2	8,4	7,7	7,1	6,6
	Q(L/200)	34	24	19	16	14	12	11	10	7,8	6,6	5,6	4,8	4,2
H3 50/3	Q(max)	41	29	22	19	16	14	13	12	11	10	9,5	8,8	8,1
	Q(L/200)	41	29	22	19	16	14	13	12	11	9	7,7	6,6	5,8
H4 35/4	Q(max)	44	31	25	21	19	17	14	13	12	10	9,7	8,9	8,3
	Q(L/200)	44	31	24	17	12	9,5	7,5	6,1	5,1	4,2	3,6	3,1	2,7
H4 40/4	Q(max)	56	39	31	26	18	20	18	17	15	14	13	12	11
	Q(L/200)	56	39	31	25	19	14	11	9,1	7,5	6,3	5,4	4,7	4,1
H4 45/4	Q(max)	70	48	38	31	27	24	22	20	18	17	16	15	14
	Q(L/200)	70	48	38	31	26	20	16	13	11	9	7,7	6,6	5,8
H3 50/4	Q(max)	87	60	47	39	34	30	27	25	23	21	20	18	17
	Q(L/200)	87	60	47	39	34	28	22	18	15	12	10	9,1	7,9
H3 60/4	Q(max)	121	83	64	53	46	40	36	33	30	28	27	25	24
	Q(L/200)	121	83	64	53	46	40	36	31	25	21	18	16	14
H3 70/4	Q(max)	162	111	85	69	59	52	46	42	39	36	33	31	30
	Q(L/200)	162	111	85	69	59	52	46	42	39	34	29	25	22
H3 80/4	Q(max)	209	142	109	88	75	65	58	53	48	44	41	39	37
	Q(L/200)	209	142	109	88	75	65	58	53	48	44	41	37	32
H4 60/5	Q(max)	147	100	76	62	53	46	41	37	34	31	29	27	26
	Q(L/200)	147	100	76	62	53	46	41	37	32	26	23	20	17
H4 70/5	Q(max)	199	134	102	83	70	61	54	48	44	41	38	35	33
	Q(L/200)	199	134	102	83	70	61	54	48	44	41	36	31	27
H4 80/5	Q(max)	258	174	132	106	90	78	69	62	56	51	48	44	42
	Q(L/200)	258	174	132	106	90	78	69	62	56	51	48	44	40

Within the grey marking the 45 kN load requirement is NOT met

c/c load bearing bars = 25 mm

F4 80/5	Q(max)	340	229	174	141	118	103	91	81	74	68	63	59	55
	Q(L/200)	340	229	174	141	118	103	91	81	74	68	63	59	53