

Technical data for channel profile MQ (max. span width/deflection at single load)

load F [kN]												
	MQ-21-RA2 MQ-21-R		MQ-41-RA2 MQ-41-R		MQ-52-R		MQ-21D-RA2 MQ-21D-R		MQ-41D-R			
	L	f	L	f	L	f	L	f	L	f	L	f
0,25	136	6.8	311	15.6	425	21.2	288	14.4	600	28.5		
0,50	98	4.9	231	11.5	326	16.3	216	10.8	496	24.8		
0,75	71	2.8	191	9.5	273	13.6	179	9.0	424	21.2		
1,00	54	1.6	159	7.3	239	11.9	149	6.8	376	18.8		
1,25	43	1.0	128	4.7	215	10.7	120	4.4	340	17.0		
1,50	36	0.7	107	3.3	186	8.3	101	3.1	312	15.4		
1,75	31	0.5	92	2.4	160	6.1	86	2.3	270	11.6		
2,00	27	0.4	81	1.9	140	4.7	76	1.7	238	9.0		
2,25	24	0.3	72	1.5	125	3.7	67	1.4	213	7.2		
2,50	22	0.3	65	1.2	113	3.0	61	1.1	192	5.8		
2,75	20	0.2	59	1.0	103	2.5	55	0.9	175	4.8		
3,00	18	0.2	54	0.8	94	2.1	51	0.8	161	4.1		
3,50	15	0.1	46	0.6	81	1.6	43	0.6	138	3.0		
4,00	13	0.1	40	0.5	71	1.2	38	0.4	121	2.3		
4,50	12	0.1	36	0.4	63	0.9	34	0.3	108	1.8		
5,00	11	0.1	32	0.3	57	0.8	30	0.3	97	1.5		
6,00	9	0.0	27	0.2	47	0.5	25	0.2	81	1.0		
7,00	8	0.0	23	0.2	41	0.4	22	0.1	70	0.8		
8,00	7	0.0	20	0.1	35	0.3	19	0.1	61	0.6		

Load tables are based on stress and deflection calculations, lateral torsional buckling is not considered.

Selection example:

- 1,0 kN (= 100 kg) should be carried by a channel with a channel span width L = 100cm (single span simply supported).

Solution:

- Select the line with the load, F = 1,0 kN.
- The channels MQ-41-RA2 to MQ-41D-R can be used because the permissible span width (table value) is larger or equal to the required span width of L = 100cm.

Technical data for channel profile MQ (max. span width/deflection at uniform distributed load)

load F [kN]												
	MQ-21-RA2 MQ-21-R		MQ-41-RA2 MQ-41-R		MQ-52-R		MQ-21D-RA2 MQ-21D-R		MQ-41D-R			
	L	f	L	f	L	f	L	f	L	f	L	f
0,25	168	8.4	370	18.4	490	24.5	339	17.0	600	22.0		
0,50	123	6.1	284	14.2	393	19.6	264	13.2	577	28.8		
0,75	101	5.0	238	11.9	335	16.7	222	11.1	507	25.3		
1,00	88	4.4	208	10.4	296	14.8	195	9.8	456	22.8		
1,25	79	3.9	187	9.3	268	13.4	176	8.8	417	20.8		
1,50	71	3.5	171	8.6	246	12.3	162	8.1	386	19.3		
1,75	61	2.6	159	7.9	229	11.4	150	7.5	361	18.1		
2,00	54	2.0	149	7.5	215	10.7	141	7.0	340	17.0		
2,25	48	1.6	141	7.0	203	10.1	133	6.6	323	16.1		
2,50	43	1.3	128	5.9	193	9.6	120	5.5	307	15.3		
2,75	39	1.1	117	4.9	184	9.2	110	4.5	294	14.7		
3,00	36	0.9	107	4.1	177	8.8	101	3.8	282	14.1		
3,50	31	0.7	92	3.0	160	7.6	86	2.8	262	13.1		
4,00	27	0.5	81	2.3	140	5.9	76	2.2	238	11.1		
4,50	24	0.4	72	1.8	125	4.7	67	1.7	213	8.9		
5,00	22	0.3	65	1.5	113	3.8	61	1.4	192	7.3		
6,00	18	0.2	54	1.0	94	2.6	51	1.0	161	5.1		
7,00	15	0.2	46	0.8	81	1.9	43	0.7	138	3.8		
8,00	13	0.1	40	0.6	71	1.5	38	0.5	121	2.9		

Load tables are based on stress and deflection calculations, lateral torsional buckling is not considered.