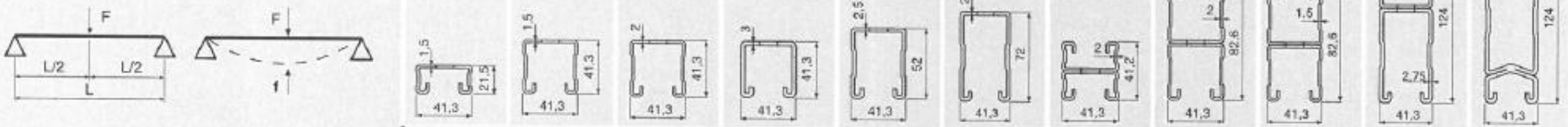


r4302_02-MQ-load-span-deflection-single_1-2

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



Max. span width L [cm]/ deflection f [mm], max. L/200 at single load

load F [kN]	New MQ-21.5		MQ-41-L		New MQ-41		MQ-41/3 MQ-41/3LL		MQ-52		MQ-72		MQ-21D		MQ-41D		MQ-41D-L		MQ-52-72D		MQ-124XD	
	L	f	L	f	L	f	L	f	L	f	L	f	L	f	L	f	L	f	L	f	L	f
0,25	133	6.7	285	14.2	316	15.8	351	17.5	435	21.7	600	27.9	295	14.7	600	27.0	591	29.6	600	9.1	600	6.9
0,50	95	4.8	208	10.4	234	11.7	266	13.3	334	16.7	498	24.9	221	11.0	507	25.2	466	23.3	600	13.5	600	9.8
0,75	78	3.9	172	8.6	193	9.7	221	11.1	279	13.9	426	21.3	184	9.2	434	21.6	394	19.7	600	18.0	600	12.6
1,00	65	3.0	149	7.5	168	8.4	194	9.7	245	12.2	377	18.8	160	8.0	385	19.2	347	17.4	600	22.4	600	15.4
1,25	52	1.9	125	5.5	151	7.5	174	8.7	220	11.0	342	17.1	144	7.2	348	17.4	313	15.7	600	26.8	600	18.2
1,50	44	1.4	105	3.8	133	6.2	159	8.0	202	10.1	314	15.7	127	5.8	321	16.0	288	14.4	588	29.3	600	21.0
1,75	37	1.0	90	2.8	114	4.5	148	7.4	187	9.4	292	14.6	109	4.3	299	14.9	260	12.3	553	27.6	600	23.8
2,00	33	0.8	79	2.2	100	3.5	130	5.7	169	7.9	275	13.7	95	3.3	280	14.0	229	9.5	523	26.1	600	26.6
2,25	29	0.6	70	1.7	89	2.8	116	4.6	151	6.3	260	13.0	85	2.6	256	11.9	204	7.6	497	24.8	600	29.4
2,50	26	0.5	63	1.4	80	2.2	104	3.7	136	5.1	245	12.0	77	2.1	232	9.7	184	6.2	474	23.7	580	29.0
2,75	24	0.4	57	1.1	73	1.9	95	3.1	124	4.2	223	10.0	70	1.8	211	8.1	168	5.1	454	22.7	558	27.9
3,00	22	0.3	52	1.0	67	1.6	87	2.6	114	3.5	205	8.4	64	1.5	194	6.8	154	4.3	437	21.8	537	26.9
3,50	19	0.2	45	0.7	57	1.1	75	1.9	98	2.6	176	6.2	55	1.1	167	5.1	132	3.2	402	19.5	503	25.1
4,00	16	0.2	39	0.5	50	0.9	66	1.5	85	2.0	155	4.8	48	0.8	146	3.9	116	2.4	355	15.2	472	23.5
4,50	15	0.2	35	0.4	45	0.7	58	1.1	76	1.6	138	3.8	43	0.7	130	3.1	103	1.9	317	12.1	425	18.9
5,00	13	0.1	32	0.3	40	0.6	52	0.9	68	1.3	124	3.1	38	0.5	117	2.5	93	1.6	287	9.9	385	15.6
6,00	11	0.1	26	0.2	34	0.4	44	0.6	57	0.9	104	2.1	32	0.4	98	1.7	78	1.1	240	7.0	325	11.0
7,00	9	0.1	23	0.2	29	0.3	37	0.5	49	0.7	89	1.6	27	0.3	84	1.3	67	0.8	207	5.1	280	8.2
8,00	8	0.0	20	0.1	25	0.2	33	0.4	43	0.5	78	1.2	24	0.2	74	1.0	58	0.6	181	4.0	246	6.3

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-L to MQ-124XD can be used because the permissible span width (table value) is larger or equal to the required span width of L = 100cm.
- Load tables are based on stress and deflection calculations, lateral torsional buckling is not considered.