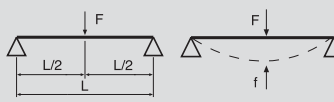
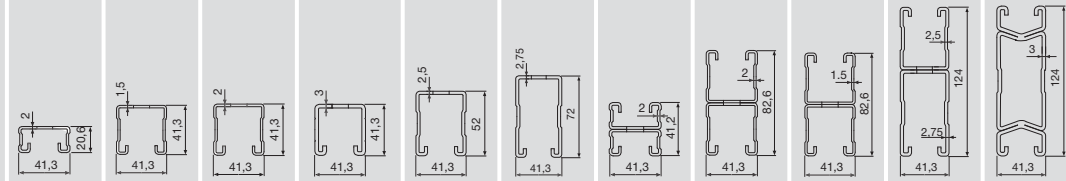


## Technical data for channel profiles MQ (max. span width/deflection at single load)

load F [kN]	Max. span width L [cm] / deflection f [mm], max. L/200 at single load																					
	MQ-21		MQ-41-L		MQ-41		MQ-41/3		MQ-41/3LL		MQ-52		MQ-72		MQ-21D		MQ-41D		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	138	6.9	285	14.2	319	15.9	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	99	5.0	208	10.4	236	11.8	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	81	4.1	172	8.6	195	9.8	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	67	3.0	149	7.5	170	8.5	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	54	1.9	125	5.5	153	7.6	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	45	1.3	105	3.8	135	6.3	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	38	1.0	90	2.8	116	4.6	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	34	0.8	79	2.2	102	3.6	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	30	0.6	70	1.7	90	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	27	0.5	63	1.4	81	2.3	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	74	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	68	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	58	1.2	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	17	0.2	39	0.5	51	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	0.1	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	41	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	10	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	26	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).

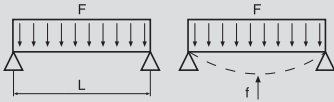
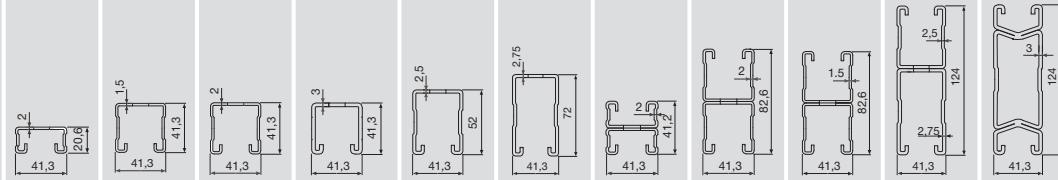
### Solution:

• 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.

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

load F [kN]	Max. span width L [cm] / deflection f [mm], max. L/200 at uniform distributed load																							
	MQ-21		MQ-41-L		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	L	f
0,25	171	8.5	344	17.2	379	18.9	409	20.4	501	24.9	600	21.4	347	17.3	600	20.8	600	23.2	600	7.5	600	5.9		
0,50	124	6.2	258	12.9	291	14.5	323	16.1	402	20.1	581	29.0	271	13.5	589	29.2	552	27.6	600	10.2	600	7.7		
0,75	102	5.1	215	10.7	243	12.2	273	13.6	343	17.1	510	25.4	228	11.4	518	25.8	478	23.9	600	13.0	600	9.4		
1,00	89	4.4	187	9.4	213	10.6	241	12.0	303	15.1	458	22.9	200	10.0	466	23.2	426	21.3	600	15.8	600	11.2		
1,25	80	4.0	168	8.4	192	9.6	217	10.9	274	13.7	419	20.9	180	9.0	427	21.3	387	19.4	600	18.5	600	12.9		
1,50	73	3.6	154	7.7	176	8.8	200	10.0	252	12.6	388	19.4	165	8.3	395	19.7	357	17.9	600	21.3	600	14.7		
1,75	67	3.4	143	7.1	163	8.1	185	9.3	235	11.7	363	18.1	154	7.7	370	18.4	333	16.7	600	24.1	600	16.4		
2,00	63	3.1	134	6.7	153	7.6	174	8.7	220	11.0	342	17.1	144	7.2	348	17.4	313	15.7	600	26.8	600	18.2		
2,25	60	3.0	126	6.3	144	7.2	164	8.2	208	10.4	324	16.2	136	6.8	330	16.5	297	14.8	600	29.6	600	19.9		
2,50	54	2.4	120	6.0	137	6.8	156	7.8	198	9.9	308	15.4	129	6.5	315	15.7	282	14.1	579	28.9	600	21.7		
2,75	49	2.0	114	5.7	131	6.5	149	7.4	189	9.4	295	14.7	123	6.2	301	15.0	270	13.5	557	27.8	600	23.4		
3,00	45	1.7	105	4.8	125	6.2	143	7.1	181	9.0	283	14.1	118	5.9	289	14.4	259	12.9	537	26.8	600	25.2		
3,50	38	1.2	90	3.5	116	5.8	132	6.6	168	8.4	263	13.1	109	5.4	269	13.4	240	12.0	503	25.1	600	28.7		
4,00	34	0.9	79	2.7	102	4.4	124	6.2	157	7.9	247	12.3	95	4.1	252	12.6	225	11.2	474	23.7	580	29.0		
4,50	30	0.7	70	2.1	90	3.5	116	5.7	148	7.4	233	11.6	85	3.3	238	11.9	204	9.4	450	22.5	552	27.6		
5,00	27	0.6	63	1.7	81	2.9	104	4.6	136	6.3	222	11.1	77	2.7	226	11.3	184	7.7	429	21.4	528	26.4		
6,00	22	0.4	52	1.2	68	2.0	87	3.2	114	4.4	203	10.1	64	1.8	194	8.5	154	5.4	394	19.7	487	24.4		
7,00	19	0.3	45	0.9	58	1.5	75	2.4	98	3.3	176	7.8	55	1.4	167	6.3	132	4.0	367	18.3	455	22.7		
8,00	17	0.2	39	0.7	51	1.1	66	1.8	85	2.5	155	6.0	48	1.0	146	4.8	116	3.0	344	17.2	428	21.4		

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