

Permissible load for channels with two point loads /
Zulässige Lastwerte für Montageschiene bei zwei Lasteinleitungen

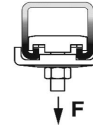
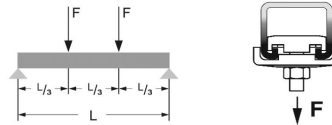


L [cm]	Type																				
	27/15/1,25	27/25/1,25	27/37/1,25	41/21/1,5	41/21/2,0	41/31/2,0	41/41/2,0	41/41/2,5	41/45/2,5	41/52/2,5	41/62/2,5	41-75/65/3,0	41-75/75/3,0	41/21/2,0 D γγ)	41/41/2,0 D γγ)	41/41/2,5 D γγ)	41/45/2,5 D γγ)	41/52/2,5 D γγ)	41/62/2,5 D γγ)	41-75/65/3,0 D γγ)	41-75/75/3,0 D γγ)
20	710	1575	2932	1653	2287	4478	6960	8175	9503	12008	15986	22567	28571	5844	20806	24870	29106	37235	50425	64524	85130
40	354	787	1465	826	1142	2237	3478	4085	4749	6001	7989	11278	14280	2919	10399	12430	14547	18611	25206	32252	42554
60	163	524	975	549	753	1489	2316	2720	3163	3997	5323	7512	9513	1943	6928	8281	9692	12401	16797	21490	28356
80	91	334	730	360	421	1115	1734	2037	2369	2994	3988	5628	7128	1455	5191	6204	7263	9294	12590	16105	21254
100	57	212	582	229	267	750	1385	1627	1892	2392	3186	4496	5695	1161	4148	4957	5803	7428	10064	12872	16990
120	39	146	403	157	183	518	1062	1258	1573	1990	2651	3740	4739	964	3452	4125	4830	6183	8378	10714	14144
140	27	106	294	114	132	377	776	920	1173	1702	2268	3199	4055	734	2954	3529	4133	5292	7173	9171	12109
160	20	79	224	85	99	286	590	700	893	1305	1980	2792	3540	558	2579	3082	3609	4623	6268	8011	10581
180	14	61	175	65	75	223	463	548	701	1026	1632	2475	3140	436	2288	2733	3201	4102	5564	7108	9391
200	11	48	140	51	58	177	371	439	563	826	1316	2220	2818	349	2054	2453	2874	3685	4999	6384	8438
220	8	38	114	40	46	143	302	359	460	677	1081	1836	2555	284	1849	2208	2606	3342	4536	5791	7656
240	5	31	94	32	36	117	250	297	382	563	903	1532	2229	234	1547	1846	2380	3056	4150	5295	7004
260	3	24	78	25	28	97	209	248	320	475	763	1296	1889	194	1311	1564	2018	2813	3822	4875	6450
280	2	20	66	20	21	80	176	209	271	404	652	1107	1618	163	1123	1339	1730	2578	3540	4513	5975
300		15	55	15	16	66	149	177	231	346	562	954	1399	137	971	1157	1497	2235	3296	4199	5562
320		12	47	11	11	55	127	151	198	299	487	829	1218	116	846	1007	1306	1954	3081	3923	5199
340		9	40	8	7	45	109	129	171	259	425	724	1068	98	742	883	1146	1720	2809	3679	4879
360		6	34	5	4	37	93	110	147	225	373	636	942	83	654	778	1012	1523	2493	3328	4593
380		4	28	2		30	79	94	127	197	329	560	835	69	579	688	898	1356	2225	2968	4336
400		2	24			24	67	80	109	172	290	495	742	58	515	612	801	1213	1996	2659	4104
420			20			18	57	68	94	150	257	439	662	48	460	545	716	1089	1798	2393	3701
440			16			13	47	57	81	131	228	390	592	38	412	487	642	981	1626	2161	3351
460			13			9	39	47	69	114	202	346	531	30	369	436	577	887	1475	1958	3045
480			10			5	32	38	58	99	179	308	477	23	331	391	520	803	1343	1779	2775
500			7				25	31	48	86	159	273	428	16	298	350	468	729	1225	1620	2536
520			5				19	23	39	74	141	242	385	10	268	314	423	663	1120	1478	2323
540			3				13	17	31	63	124	214	346	5	240	281	382	604	1026	1351	2133
560							8	11	24	52	109	189	310		216	252	344	550	942	1237	1962
580							3	5	17	43	95	165	278		194	225	311	502	865	1134	1807
600									11	35	83	144	249		173	200	280	458	796	1040	1667

$\sigma_{perm} / \sigma_{zul}$: 185 N/mm²; $f \leq L/200$

The influence of the channel slots and the channel's dead weight are taken into account in the values.
Calculations according RAL-GZ 655-C.

Berechnungen gemäß RAL-GZ 655-C und unter Einbezug der Eigenlasten



*) Double channels with max. length up to 0,5 m should be connected at both ends, if bearing and point of load incidence are not on the same side.
Bei Doppelschienen sind Kurzstücke bis 0,5 m an beiden Enden zu verbinden, falls Lagerung und Kraftangriffspunkt nicht auf gleicher Seite liegen.

**) no RAL quality label
kein Gütezeichen



Technical data for channels /
Technische Daten der Montageschienen



Type		27/15/1,25	27/25/1,25	27/37/1,25	41/21/1,5	41/21/2,0	41/31/2,0	41/41/2,0	41/41/2,5	41/45/2,5	41/52/2,5	41/62/2,5	41-75/65/3,0	41-75/75/3,0	41/21/2,0 D 'y)	41/41/2,0 D 'y)	41/41/2,5 D 'y)	41/45/2,5 D 'y)	41/52/2,5 D 'y)	41/62/2,5 D 'y)	41-75/65/3,0 D 'y)	41-75/75/3,0 D 'y)
Section modulus / Widerstandsmoment [cm ³]	Wy	0.25	0.55	1.03	0.70	0.82	1.61	2.50	2.94	3.42	4.32	5.75	8.13	10.29	2.35	7.49	8.96	10.48	13.41	18.16	23.24	30.66
	Wz	0.64	0.95	1.31	1.71	2.11	2.90	3.65	4.39	4.76	5.39	6.29	10.27	11.41	4.22	7.30	8.79	9.52	10.78	12.59	20.54	22.83
Moment of inertia / Trägheitsmoment [cm ⁴]	Iy	0.20	0.72	1.97	0.78	0.92	2.55	5.21	6.17	7.85	11.43	18.08	30.67	44.30	4.94	30.73	36.73	47.18	69.75	112.63	151.10	230.02
	Iz	0.86	1.28	1.78	3.50	4.32	5.96	7.48	9.01	9.75	11.05	12.91	38.51	42.80	8.65	14.97	18.03	19.51	22.11	25.82	77.02	85.60
Radius of gyration / Trägheitsradius [cm]	iy	0.54	0.89	1.27	0.78	0.75	1.10	1.44	1.42	1.55	1.78	2.10	2.25	2.53	1.24	2.48	2.46	2.70	3.11	3.71	3.53	4.07
	iz	1.13	1.18	1.21	1.65	1.64	1.69	1.73	1.72	1.73	1.75	1.77	2.52	2.48	1.64	1.73	1.72	1.73	1.75	1.77	2.52	2.48
Cross section / Querschnitt [cm ²]		0.67	0.92	1.22	1.27	1.60	2.08	2.48	3.03	3.23	3.58	4.08	6.03	6.92	3.20	4.96	6.06	6.46	7.16	8.16	12.06	13.84
Distance / Abstand e [cm]		0.80	1.30	1.91	1.11	1.11	1.58	2.07	2.09	2.29	2.64	3.14	3.77	4.30	2.10	4.10	4.10	4.50	5.20	6.20	6.50	7.50
E modulus / E-Modul [N/mm ²]		210,000	210,000	210,000	210,000	210,000	210,000	210,000	210,000	210,000	210,000	210,000	210,000	210,000	210,000	210,000	210,000	210,000	210,000	210,000	210,000	210,000
max. point carrying moment / max. zul. Punkttrag- fähigkeit F _{max} (Zug) [kN]		1.50	1.50	1.50	2.00	4.00	4.00	4.00	6.00	6.00	6.00	6.00	10.00	10.00	4.00	4.00	6.00	6.00	6.00	6.00	10.00	10.00
max. torsional moment / zul. Schenkeltragmoment M _T [Nm]		10.00	10.00	10.00	44.50	44.50	44.50	44.50	44.50	44.50	44.50	44.50	44.50	44.50	44.50	44.50	44.50	44.50	44.50	44.50	44.50	44.50

