

Permissible load for channels with central load application /
Zulässige Lastwerte für Montageschienen bei zentr. Lasteinleitung

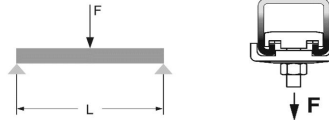


L [cm] \ Type	27/15/1,25	27/25/1,25	27/37/1,25	41/21/1,5	41/21/2,0	41/31/2,0	41/41/2,0	41/41/2,5	41/45/2,5	41/52/2,5	41/62/2,5	41-75/65/3,0	41-75/75/3,0	41/21/2,0 D γ,γ	41/41/2,0 D γ,γ	41/41/2,5 D γ,γ	41/45/2,5 D γ,γ	41/52/2,5 D γ,γ	41/62/2,5 D γ,γ	41-75/65/3,0 D γ,γ	41-75/75/3,0 D γ,γ
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
20	947	2100	3909	2205	3049	5970	9280	10900	12670	16011	21314	30089	38095	7792	27741	33160	38808	49646	67234	86032	113507
40	473	1049	1953	1101	1522	2983	4637	5447	6332	8001	10653	15037	19040	3892	13865	16573	19396	24815	33608	43002	56738
60	278	698	1301	732	1013	1986	3088	3627	4217	5330	7097	10017	12684	2591	9238	11041	12923	16535	22396	28653	37809
80	155	522	974	547	718	1487	2313	2716	3158	3993	5317	7504	9504	1939	6922	8273	9684	12392	16786	21474	28339
100	97	361	778	390	456	1186	1846	2169	2522	3189	4248	5994	7594	1547	5531	6610	7738	9904	13419	17162	22653
120	66	249	646	268	312	882	1535	1803	2097	2653	3535	4986	6319	1285	4603	5500	6439	8244	11171	14285	18859
140	46	180	501	194	225	643	1312	1541	1793	2269	3024	4265	5406	1097	3938	4706	5510	7056	9564	12227	16146
160	34	135	381	145	168	487	1006	1192	1522	1980	2641	3722	4721	950	3439	4109	4812	6165	8358	10682	14109
180	25	104	298	111	128	379	788	934	1194	1748	2342	3300	4186	743	3050	3643	4268	5470	7418	9478	12522
200	18	82	239	87	100	302	632	749	959	1407	2102	2960	3758	594	2739	3270	3832	4913	6665	8512	11250
220	13	65	194	68	78	244	515	611	784	1153	1842	2682	3406	483	2483	2964	3474	4456	6048	7721	10208
240	9	52	160	54	61	200	426	505	651	960	1538	2449	3112	398	2269	2708	3176	4075	5533	7060	9338
260	6	42	133	43	47	165	356	423	546	809	1300	2208	2863	331	2087	2491	2922	3751	5096	6499	8600
280	3	33	112	33	36	136	300	356	462	688	1110	1886	2648	278	1913	2281	2704	3473	4720	6018	7966
300		26	95	26	27	113	254	302	394	590	957	1626	2383	234	1654	1971	2514	3232	4394	5599	7416
320		20	80	19	19	94	217	257	338	509	830	1412	2076	197	1441	1716	2224	3019	4108	5231	6933
340		15	68	13	12	77	185	220	291	441	725	1233	1820	167	1263	1504	1953	2832	3855	4906	6505
360		11	57	9	6	63	158	188	251	384	636	1083	1605	141	1114	1325	1725	2595	3630	4615	6124
380		7	48	4		51	135	160	216	335	560	954	1422	118	987	1173	1531	2310	3427	4354	5782
400		4	41	4		41	114	137	186	293	495	844	1265	98	878	1042	1364	2066	3244	4119	5473
420			34			31	97	116	160	256	438	748	1128	81	784	929	1220	1856	3064	3905	5193
440			28			23	81	97	137	223	388	664	1009	66	701	830	1094	1672	2770	3682	4937
460			22			15	67	80	117	195	345	590	905	52	629	743	983	1511	2514	3336	4702
480			17			8	54	66	99	169	306	524	812	39	564	665	885	1369	2287	3031	4487
500			13			2	43	52	82	146	271	465	729	28	507	597	798	1243	2087	2760	4287
520			9				32	40	67	125	240	412	656	18	456	535	720	1130	1908	2519	3958
540			5				23	29	53	107	211	365	589	8	410	479	650	1029	1748	2302	3633
560							14	18	41	89	186	321	529		368	429	587	938	1604	2108	3342
580							6	9	29	74	162	282	474		330	383	529	855	1474	1932	3079
600								18	59	141	246	424			295	341	477	780	1356	1772	2840

$\sigma_{perm} / \sigma_{zul.}: 185 \text{ N/mm}^2; f \leq L/200$

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

