

SRS STRUT CHANNELS

Used for:

- Light steel constructions
- Machines and technical facilities construction
- Suspended ceilings
- Mounting and installation
- Construction of ventilation and air duct systems, HVAC
- Sanitary systems
- Photovoltaic constructions
- Channel frame assembly
- Trapeze supports

Material used for production:

- Hot rolled black steel according to standard PN-EN 10025, PN-EN 10111
- Cold rolled steel supplied according to standard PN-EN 10130
- Hot galvanized steel for cold processing and hot galvanized construction steel according to standard PN-EN 10346
- Corrosion resistant steel according to standard PN-EN 10088

Product range:

- Black steel support channels
- Hot galvanized support channels
- Hot dip galvanized support channels (according to standard PN-EN ISO 1461)
- Support channels made from acid resistant steel
- All channels are produced according to the standard PN-EN 10162.

Profile length:

- Standard: 2, 3, 6 m
- On demand: from 0.5 to 10 m

Perforation system:

- Standard (according to technical drawings)
- On individual customer demand
- Non-perforated

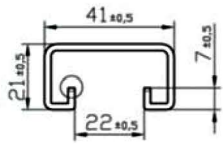
item number	Type	Material	thickness	Length	Weight
			[mm]	[m]	(Kg/m)
SRS 5050	41-41-2.00	HDG	2	3	2.09
SRS 5051	41-41-1.5	HDG	1.5	3	1.65
SRS 5052	41-41-2.5	HDG	2.5	3	2.61
SRS 5053	41-62-2.5	HDG	2.5	3	3.33
SRS 5054	41-82-2.5	HDG	2.5	3	4.08
SRS 5055	41-41-2.00	GVZ	2	3	2.09
SRS 5056	41-41-1.5	GVZ	1.5	3	1.65
SRS 5057	41-41-2.5	GVZ	2.5	3	2.61
SRS 5058	41-62-2.5	GVZ	2.5	3	3.33
SRS 5059	41-82-2.5	GVZ	2.5	3	4.08
SRS 5060	41-21-1.5	GVZ	1.5	3	1.15
SRS 5061	41-21-2	GVZ	2	3	1.45
SRS 5062	41-21-2.5	GVZ	2.5	3	1.78
SRS 5063	41-21-1.5	HDG	1.5	3	1.15
SRS 5064	41-21-2	HDG	2	3	1.45
SRS 5065	41-21-2.5	HDG	2.5	3	1.78

The weight of the profiles as specified in this data sheet are theoretical, calculated according to formulas specified in applicable production standards. All calculations have been done for nominal values and material thickness. Value of steel density as used in calculations: 7,85g/cm³. Real weights of profiles may differ by +/- 10% from theoretical weights as specified.

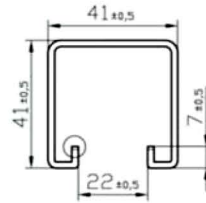
item number	Description	Type	Material	thickness	Length
				[mm]	[m]
SRS 5066	SRS Strut 41x41*2mm*2m - HDG	41-41-2.00	HDG	2	2
SRS 5067	SRS Strut 41x41*2mm*2m PG	41-41-2.00	GVZ	2	2
SRS 5068	SRS STRUT 41X41X2.5mmX2m - PG	41-41-2.5	GVZ	2.5	2
SRS 5069	SRS STRUT 41x21*2mm*2m PG	41-21-2	GVZ	2	2
SRS 5070	SRS STRUT 41X21X1.5mmX2m - HDG	41-21-1.5	HDG	1.5	2
SRS 5071	SRS Channel 27x18x1.25mmx2m	27-18-1.25	GVZ	1.25	2
SRS 5072	SRS Strut 41x21*1.5mm*2m PG	41-21-1.5	GVZ	1.5	2
SRS 5073	SRS Channel 38x40x2mmx2m	38-40-2.00	GVZ	2	2

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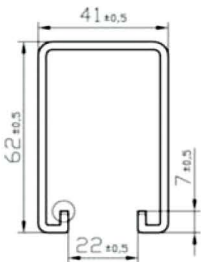
STRUT Channel 41-21-7



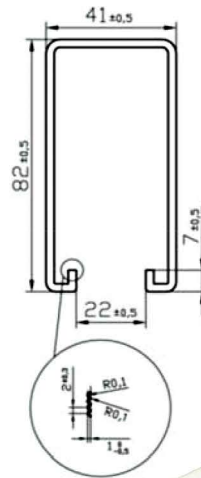
STRUT Channel 41-41-7



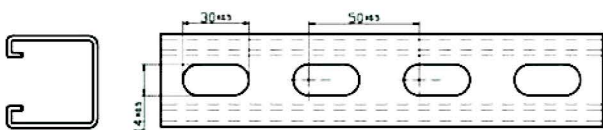
STRUT Channel 41-62-7



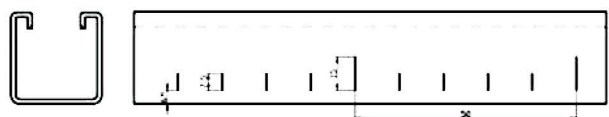
STRUT Channel 41-82/83-7



Channel perforation



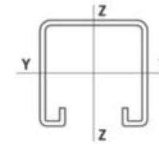
Graduation



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Static calculation chart

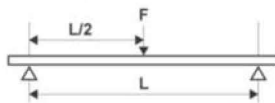
Type	Weight	Moment of inertia cm^4		Section modulus cm^3	
	(Kg/m)	I_y	I_z	W_y	W_z
41x21-1.5	1.15	0.78	3.7	0.72	1.8
41x41-1.5	1.65	4.46	6.2	2.12	3
41x21-2.5	1.78	1.01	5.4	0.93	2.61
41x41-2.5	2.61	6.26	9.3	2.97	4.5
41x62-2.5	3.33	18.03	13.2	5.75	6.39
41x82-2.5	4.08	37.31	16.89	9	8.18



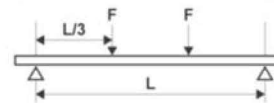
yielding strength: 240 N/mm²

Maximum allowable load of the construction channel

Load at 1 point



Equal concentrated loads at 2 points

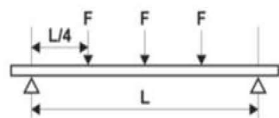


L (mm)	41x21		41x41			41x62	41x82	L (mm)	41x21		41x41			41x62	41x82
	1.5 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm	2.5 mm	2.5 mm		1.5 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm	2.5 mm	2.5 mm
250	1,848	2,381	5,427	6,556	7,611	14,730	23,035	250	1,386	1,786	4,070	4,917	5,708	11,048	17,276
300	1,540	1,984	4,523	5,463	6,342	12,275	19,196	300	1,155	1,488	3,392	4,098	4,757	9,206	14,397
350	1,320	1,701	3,877	4,683	5,436	10,522	16,453	350	990	1,275	2,907	3,512	4,077	7,891	12,340
400	1,155	1,488	3,392	4,098	4,757	9,206	14,397	400	866	1,116	2,544	3,073	3,568	6,905	10,798
450	1,027	1,323	3,015	3,642	4,228	8,183	12,797	450	770	992	2,261	2,732	3,171	6,138	9,598
500	924	1,190	2,714	3,278	3,805	7,365	11,517	500	693	893	2,035	2,459	2,854	5,524	8,638
600	770	992	2,261	2,732	3,171	6,138	9,598	600	578	744	1,696	2,049	2,378	4,603	7,198
700	660	850	1,938	2,341	2,718	5,261	8,227	700	427	552	1,454	1,756	2,039	3,946	6,170
800	557	719	1,696	2,049	2,378	4,603	7,198	800	32	422	1,272	1,537	1,784	3,452	5,399
900	440	568	1,508	1,821	2,114	4,092	6,399	900	258	334	1,131	1,366	1,586	3,069	4,799
1,000	356	460	1,357	1,639	1,903	3,683	5,759	1,000	209	270	1,018	1,229	1,427	2,762	4,319
1,200	247	320	1,131	1,366	1,586	3,069	4,799	1,200	145	188	829	993	1,163	2,302	3,599
1,400	182	235	969	1,171	1,359	2,630	4,113	1,400	107	138	609	730	854	1,973	3,085
1,600	139	180	794	952	1,114	2,302	3,599	1,600	82	106	466	559	654	1,726	2,699
1,800	110	142	628	752	881	2,046	3,199	1,800	65	83	368	442	517	1,489	2,399
2,000	89	115	508	609	713	1,841	2,879	2,000	52	68	298	358	419	1,206	2,160
2,250	70	91	402	481	564	1,624	2,559	2,250	41	53	236	283	331	953	1,920
2,500	57	74	325	390	456	1,315	2,303	2,500	33	43	191	229	268	772	1,598
2,750	47	61	269	322	347	1,087	2,094	2,750	28	36	158	189	221	638	1,320
3,000	40	51	226	271	317	913	1,890	3,000	23	30	133	159	186	536	1,109
3,250	34	44	193	231	270	778	1,611	3,250	20	26	113	135	159	457	945
3,500	29	38	166	199	233	671	1,389	3,500	17	22	97	117	137	394	815
3,750	25	33	145	173	203	584	1,210	3,750	15	19	85	102	119	343	710
4,000	22	29	127	152	178	514	1,063	4,000	13	17	75	89	105	302	624
4,250	20	25	113	135	158	455	942	4,250	12	15	66	79	93	267	553
4,500	18	23	100	120	141	406	840	4,500	10	13	59	71	83	238	493
4,750	16	20	90	108	126	364	754	4,750	—	12	53	63	74	214	443
5,000	14	18	81	97	114	329	680	5,000	—	11	48	57	67	193	399
5,250	13	17	74	88	104	298	617	5,250	—	—	43	52	61	175	362
5,500	12	15	67	81	94	272	562	5,500	—	—	39	47	55	159	330
5,750	11	14	62	74	86	249	515	5,750	—	—	36	43	51	146	302
6,000	—	13	56	68	79	228	473	6,000	—	—	33	40	47	134	277

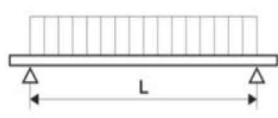
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Maximum allowable load of the construction channel

Equal concentrated loads at 3 points



Uniform load



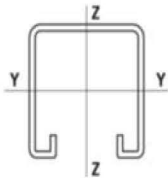
L (mm)	41x21		41x41			41x62	41x82	L (mm)	41x21		41x41			41x62	41x82
	1.5 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm	2.5 mm	2.5 mm		1.5 mm	2.5 mm	1.5 mm	2.0 mm	2.5 mm	2.5 mm	2.5 mm
250	924	1,190	2,714	3,278	3,805	7,365	11,517	250	3,697	4,762	10,854	13,112	15,222	29,460	46,070
300	770	992	2,261	2,732	3,171	6,138	9,598	300	3,081	3,968	9,045	10,927	12,685	24,550	38,391
350	660	850	1,938	2,341	2,718	5,261	8,227	350	2,640	3,401	7,753	9,366	10,873	21,043	32,907
400	578	744	1,696	2,049	2,378	4,603	7,198	400	2,310	2,976	6,784	8,195	9,514	18,413	28,794
450	513	661	1,508	1,821	2,114	4,092	6,399	450	2,054	2,645	6,030	7,285	8,457	16,367	25,594
500	462	595	1,357	1,639	1,903	3,683	5,759	500	1,848	2,381	5,427	6,556	7,611	14,730	23,035
600	385	496	1,131	1,366	1,586	3,069	4,799	600	1,540	1,984	4,523	5,463	6,342	12,275	19,196
700	306	303	969	1,171	1,359	2,630	4,113	700	1,163	1,503	3,877	4,683	5,436	10,522	16,453
800	234	239	848	1,024	1,189	2,302	3,599	800	891	1,151	3,392	4,098	4,757	9,206	14,397
900	185	194	754	911	1,057	2,046	3,199	900	704	909	3,015	3,642	4,228	8,183	12,797
1,000	150	135	678	820	951	1,841	2,879	1,000	570	737	2,714	3,278	3,805	7,365	11,517
1,200	104	99	565	683	793	1,534	2,399	1,200	396	512	2,260	2,708	3,170	6,138	9,598
1,400	77	76	437	524	613	1,315	2,057	1,400	291	376	1,660	1,989	2,329	5,261	8,227
1,600	59	60	335	401	469	1,151	1,800	1,600	223	288	1,271	1,523	1,783	4,603	7,198
1,800	46	48	264	317	371	1,023	1,600	1,800	176	227	1,004	1,204	1,409	4,059	6,399
2,000	38	38	214	257	300	865	1,440	2,000	143	184	814	975	1,141	3,288	5,759
2,250	30	31	169	203	237	684	1,280	2,250	113	146	643	770	902	2,598	5,119
2,500	24	26	137	164	192	554	1,146	2,500	91	118	521	624	730	2,104	4,355
2,750	20	22	113	136	159	458	947	2,750	75	97	430	516	604	1,739	3,599
3,000	17	18	95	114	133	385	796	3,000	63	82	362	433	507	1,461	3,024
3,250	14	16	81	97	114	328	678	3,250	54	70	308	369	432	1,245	2,577
3,500	12	14	70	84	98	283	585	3,500	47	60	266	318	373	1,074	2,222
3,750	11	12	61	73	85	246	509	3,750	41	52	231	277	325	935	1,936
4,000	—	11	54	64	75	216	448	4,000	36	46	203	244	285	822	1,701
4,250	—	—	47	57	67	192	397	4,250	32	41	180	216	253	728	1,507
4,500	—	—	42	51	59	171	354	4,500	28	36	161	193	225	649	1,344
4,750	—	—	38	45	53	153	317	4,750	25	33	144	173	202	583	1,206
5,000	—	—	34	41	48	138	287	5,000	23	29	130	156	183	526	1,089
5,250	—	—	31	37	44	126	260	5,250	21	27	118	141	166	477	988
5,500	—	—	28	34	40	114	237	5,500	19	24	108	129	151	435	900
5,750	—	—	26	31	36	105	217	5,750	17	22	98	118	138	398	823
6,000	—	—	24	29	33	96	199	6,000	16	20	90	108	127	365	756

Maximum force (N) at one point.
Values indicated in charts refer only to construction channel strength.
Maximal allowable load of remaining construction elements should be verified separately.

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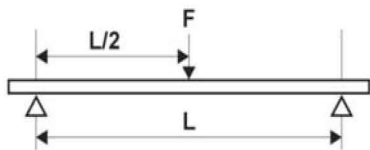
Static calculation chart

Type	Weight	Moment of inertia Cm ⁴		Section modulus cm ³	
	(Kg/m)	iy	iz	wy	wz
41x21-2.0	1.45	0.92	4.39	0.85	2.13
41x41-2.0	2.09	5.3	7.33	2.54	3.55



Maximum allowable load of the construction channel

Load at 1 point



L (mm)	41x21	41x41
	2.00 mm	2.00mm
250	2.53	7.08
500	1.27	3.56
750	0.82	2.37
1,000	0.45	1.77
1,250	0.28	1.41
1,500	0.19	1.17
1,750	0.14	0.86
2,000	0.1	0.65
2,250	0.07	0.51
2,750	0.05	0.4
3,000	0.04	0.32

Note: Above tables are for regular and typical applications. For further complicated applications and better selections of struts please contact our technical team.

Maximum force at F(kN), deflection value F (mm), max L/200.

Values indicated in charts refer only to construction channel strength.

Maximal allowable load of remaining construction elements should be verified separately.