

EN 10210 S355J2H Eigenschappen warmgevormde vierkante buizen

Size		Thickness	Mass	Sectional area	Moment of inertia	Radius of gyration	Elastic modulus	Plastic modulus	Torsional Constants		Superficial area/m
D mm	B mm	T mm	M kg/m	A cm ²	I cm ⁴	i cm	W _{el} cm ³	W _{pl} cm ³	I _t cm ⁴	C _t cm ³	A _s m ² /m
40	40	3,0	3.41	4.34	9.78	1.50	4.89	5.97	15.7	7.10	0.152
40	40	3,2	3.61	4.60	10.2	1.49	5.11	6.28	16.5	7.42	0.152
40	40	4,0	4.39	5.59	11.8	1.45	5.91	7.44	19.5	8.54	0.150
40	40	5,0	5.28	6.73	13.4	1.41	6.68	8.66	22.5	9.60	0.147
50	50	3,0	4.35	5.54	20.2	1.91	8.08	9.70	32.1	11.8	0.192
50	50	3,2	4.62	5.88	21.2	1.90	8.49	10.2	33.8	12.4	0.192
50	50	4,0	5.64	7.19	25.0	1.86	9.99	12.3	40.4	14.5	0.190
50	50	5,0	6.85	8.73	28.9	1.82	11.6	14.5	47.6	16.7	0.187
50	50	6,3	8.31	10.6	32.8	1.76	13.1	17.0	55.2	18.8	0.184
60	60	3,0	5.29	6.74	36.2	2.32	12.1	14.3	56.9	17.7	0.232
60	60	3,2	5.62	7.16	38.2	2.31	12.7	15.2	60.2	18.6	0.232
60	60	4,0	6.90	8.79	45.4	2.27	15.1	18.3	72.5	22.0	0.230
60	60	5,0	8.42	10.7	53.3	2.23	17.8	21.9	86.4	25.7	0.227
60	60	6,3	10.3	13.1	61.6	2.17	20.5	26.0	102	29.6	0.224
60	60	8,0	12.5	16.0	69.7	2.09	23.2	30.4	118	33.4	0.219
70	70	3,6	7.40	9.42	68.6	2.70	19.6	23.3	108	28.7	0.271
70	70	5,0	9.99	12.7	88.5	2.64	25.3	30.8	142	36.8	0.267
70	70	6,3	12.3	15.6	104	2.58	29.7	36.9	169	42.9	0.264
70	70	8,0	15.0	19.2	120	2.50	34.2	43.8	200	49.2	0.259
80	80	3,6	8.53	10.9	105	3.11	26.2	31.0	164	38.5	0.311
80	80	4,0	9.41	12.0	114	3.09	28.6	34.0	180	41.9	0.310
80	80	5,0	11.6	14.7	137	3.05	34.2	41.1	217	49.8	0.307
80	80	6,3	14.2	18.1	162	2.99	40.5	49.7	262	58.7	0.304
80	80	8,0	17.5	22.4	189	2.91	47.3	59.5	312	68.3	0.299
90	90	3,6	9.66	12.3	152	3.52	33.8	39.7	237	49.7	0.351
90	90	4,0	10.7	13.6	166	3.50	37.0	43.6	260	54.2	0.350
90	90	5,0	13.1	16.7	200	3.45	44.4	53.0	316	64.8	0.347
90	90	6,3	16.2	20.7	238	3.40	53.0	64.3	382	77.0	0.344
90	90	8,0	20.1	25.6	281	3.32	62.6	77.6	459	90.5	0.339
100	100	4,0	11.9	15.2	232	3.91	46.4	54.4	361	68.2	0.390
100	100	5,0	14.7	18.7	279	3.86	55.9	66.4	439	81.8	0.387

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100	100	6,3	18.2	23.2	336	3.80	67.1	80.9	534	97.8	0.384
100	100	8,0	22.6	28.8	400	3.73	79.9	98.2	646	116	0.379
100	100	10,0	27.4	34.9	462	3.64	92.4	116	761	133	0.374
120	120	5,0	17.8	22.7	498	4.68	83.0	97.6	777	122	0.467
120	120	6,3	22.2	28.2	603	4.62	100	120	950	147	0.464
120	120	8,0	27.6	35.2	726	4.55	121	146	1160	176	0.459
120	120	10,0	33.7	42.9	852	4.46	142	175	1382	206	0.454
120	120	12,5	40.9	52.1	982	4.34	164	207	1623	236	0.448
140	140	5,0	21.0	26.7	807	5.50	115	135	1253	170	0.547
140	140	6,3	26.1	33.3	984	5.44	141	166	1540	206	0.544
140	140	8,0	32.6	41.6	1195	5.36	171	204	1892	249	0.539
140	140	10,0	40.0	50.9	1416	5.27	202	246	2272	294	0.534
140	140	12,5	48.7	62.1	1653	5.16	236	293	2696	342	0.528
150	150	5,0	22.6	28.7	1002	5.90	134	156	1550	197	0.587
150	150	6,3	28.1	35.8	1223	5.85	163	192	1909	240	0.584
150	150	8,0	35.1	44.8	1491	5.77	199	237	2351	291	0.579
150	150	10,0	43.1	54.9	1773	5.68	236	286	2832	344	0.574
150	150	12,5	52.7	67.1	2080	5.57	277	342	3375	402	0.568
150	150	16,0	65.2	83.0	2430	5.41	324	411	4026	467	0.559
160	160	5,0	24.1	30.7	1225	6.31	153	178	1892	226	0.627
160	160	6,3	30.1	38.3	1499	6.26	187	220	2333	275	0.624
160	160	8,0	37.6	48.0	1831	6.18	229	272	2880	335	0.619
160	160	10,0	46.3	58.9	2186	6.09	273	329	3478	398	0.614
160	160	12,5	56.6	72.1	2576	5.98	322	395	4158	467	0.608
180	180	6,3	34.0	43.3	2168	7.07	241	281	3361	355	0.704
180	180	8,0	42.7	54.4	2661	7.00	296	349	4162	434	0.699
180	180	10,0	52.5	66.9	3193	6.91	355	424	5048	518	0.694
180	180	12,5	64.4	82.1	3790	6.80	421	511	6070	613	0.688
180	180	16,0	80.2	102	4504	6.64	500	621	7343	724	0.679
200	200	5,0	30.4	38.7	2445	7.95	245	283	3756	362	0.787
200	200	6,3	38.0	48.4	3011	7.89	301	350	4653	444	0.784

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200	200	8,0	47.7	60.8	3709	7.81	371	436	5778	545	0.779
200	200	10,0	58.8	74.9	4471	7.72	447	531	7031	655	0.774
200	200	12,5	72.3	92.1	5336	7.61	534	643	8491	778	0.768
200	200	16,0	90.3	115	6394	7.46	639	785	10340	927	0.759
200	200	20,0	110	140	7390	7.27	739	930	12180	1070	0.748
250	250	6,3	47.9	61.0	6014	9.93	481	556	9238	712	0.984
250	250	8,0	60.3	76.8	7455	9.86	596	694	11525	880	0.979
250	250	10,0	74.5	94.9	9055	9.77	724	851	14106	1065	0.974
250	250	12,5	91.9	117	10915	9.66	873	1037	17164	1279	0.968
250	250	16,0	115	147	13267	9.50	1061	1280	21138	1546	0.959
250	250	20,0	141	180	15610	9.32	1250	1530	25240	1811	0.948
300	300	6,3	57.8	73.6	10547	12.0	703	809	16136	1043	1.18
300	300	8,0	72.8	92.8	13128	11.9	875	1013	20194	1294	1.18
300	300	10,0	90.2	115	16026	11.8	1068	1246	24807	1575	1.17
300	300	12,5	112	142	19442	11.7	1296	1525	30333	1904	1.17
300	300	16,0	141	179	23850	11.5	1590	1895	37622	2325	1.16
350	350	8,0	85.4	109	21129	13.9	1207	1392	32384	1789	1.38
350	350	10,0	106	135	25884	13.9	1479	1715	39886	2185	1.37
350	350	12,5	131	167	31541	13.7	1802	2107	48934	2654	1.37
350	350	16,0	166	211	38942	13.6	2225	2630	60990	3264	1.36
400	400	10,0	122	155	39128	15.9	1956	2260	60092	2895	1.57
400	400	12,5	151	192	47839	15.8	2392	2782	73906	3530	1.57
400	400	16,0	191	243	59344	15.6	2967	3484	92442	4362	1.56
400	400	20,0	235	300	71535	15.4	3577	4247	112489	5237	1.55

Alhoewel aan de samenstelling van deze uitgave veel zorg is besteed, aanvaardt Van Leeuwen Buizen geen aansprakelijkheid voor eventuele onjuistheden en/of onvolledigheden