

Square Steel Pipe as per EN 10219/2001

Specified Outside Diameter	Specified Thickness	Mass per Unit Length	Cross-Sectional Area	Second Moment of Area	Radius of Gyration	Elastic Section Modulus	Plastic Section Modulus	Torsional Inertia Constant	Torsional Modulus Constant	Super-Ficial Area per Metre Length	Nominal Length per Tonne
B	T	M	A	I	i	W _e	W _p	I _t	C _t	A _s	m
mm	mm	kg/m	cm ²	cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m	m
20	2	1.05	1.34	0.692	0.72	0.692	0.877	1.21	1.06	0.0731	953
25	2	1.36	1.74	1.48	0.924	1.19	1.47	2.53	1.8	0.0931	733
25	2.5	1.64	2.09	1.69	0.899	1.35	1.71	2.97	2.07	0.0914	610
25	3	1.89	2.41	1.84	0.874	1.47	1.91	3.33	2.27	0.0897	529
30	2	1.68	2.14	2.72	1.13	1.81	2.21	4.54	2.75	0.113	596
30	2.5	2.03	2.59	3.16	1.1	2.1	2.61	5.4	3.2	0.111	492
30	3	2.36	3.01	3.5	1.08	2.34	2.96	6.15	3.58	0.11	423
40	2	2.31	2.94	6.94	1.54	3.47	4.13	11.3	5.23	0.153	434
40	2.5	2.82	3.59	8.22	1.51	4.11	4.97	13.6	6.21	0.151	355
40	3	3.3	4.21	9.32	1.49	4.66	5.72	15.8	7.07	0.15	303
40	4	4.2	5.35	11.1	1.44	5.54	7.01	19.4	8.48	0.146	238
50	2	2.93	3.74	14.1	1.95	5.66	6.66	22.6	8.51	0.193	341
50	2.5	3.6	4.59	16.9	1.92	6.78	8.07	27.5	10.2	0.191	278
50	3	4.25	5.41	19.5	1.9	7.79	9.39	32.1	11.8	0.19	236
50	4	5.45	6.95	23.7	1.85	9.49	11.7	40.4	14.4	0.186	183
50	5	6.56	8.36	27	1.8	10.8	13.7	47.5	16.6	0.183	152
60	2	3.56	4.54	25.1	2.35	8.38	9.79	39.8	12.6	0.233	281
60	2.5	4.39	5.59	30.3	2.33	10.1	11.9	48.7	15.2	0.231	228
60	3	5.19	6.61	35.1	2.31	11.7	14	57.1	17.7	0.23	193
60	4	6.71	8.55	43.6	2.26	14.5	17.6	72.6	22	0.226	149
60	5	8.13	10.4	50.5	2.21	16.8	20.9	86.4	25.6	0.223	123
60	6	9.45	12	56.1	2.16	18.7	23.7	98.4	28.6	0.219	106
60	6.3	9.55	12.2	54.4	2.11	18.1	23.4	100	28.8	0.213	105
70	2.5	5.17	6.59	49.4	2.74	14.1	16.5	78.5	21.2	0.271	193
70	3	6.13	7.81	57.5	2.71	16.4	19.4	92.4	24.7	0.27	163
70	4	7.97	10.1	72.1	2.67	20.6	24.8	119	31.1	0.266	126
70	5	9.7	12.4	84.6	2.62	24.2	29.6	142	36.7	0.263	103
70	6	11.3	14.4	95.2	2.57	27.2	33.8	163	41.4	0.259	88.3
70	6.3	11.5	14.7	93.8	2.53	26.8	33.8	168	42.1	0.253	86.7
80	3	7.07	9.01	87.8	3.12	22	25.8	140	33	0.31	141
80	4	9.22	11.7	111	3.07	27.8	33.1	180	41.8	0.306	108
80	5	11.3	14.4	131	3.03	32.9	39.7	218	49.7	0.303	88.7
80	6	13.2	16.8	149	2.98	37.3	45.8	252	56.6	0.299	75.7
80	6.3	13.5	17.2	149	2.94	37.1	46.1	261	57.9	0.293	74
80	8	16.4	20.8	168	2.84	42.1	53.9	307	66.6	0.286	61.1
90	3	8.01	10.2	127	3.53	28.3	33	201	42.5	0.35	125
90	4	10.5	13.3	162	3.48	36	42.6	261	54.2	0.346	95.4
90	5	12.8	16.4	193	3.43	42.9	51.4	316	64.7	0.343	77.9
90	6	15.1	19.2	220	3.39	49	59.5	368	74.2	0.339	66.2
90	6.3	15.5	19.7	221	3.35	49.1	60.3	382	76.2	0.333	64.6
90	8	18.9	24	255	3.25	56.6	71.3	456	88.8	0.326	53
100	3	8.96	11.4	177	3.94	35.4	41.2	279	53.2	0.39	112
100	4	11.7	14.9	226	3.89	45.3	53.3	362	68.1	0.386	85.2
100	5	14.4	18.4	271	3.84	54.2	64.6	441	81.7	0.383	69.4
100	6	17	21.6	311	3.79	62.3	75.1	514	94.1	0.379	58.9
100	6.3	17.5	22.2	314	3.76	62.8	76.4	536	97	0.373	57.3
100	8	21.4	27.2	366	3.67	73.2	91.1	645	114	0.366	46.8
100	10	25.6	32.6	411	3.55	82.2	105	750	130	0.357	39.1
100	12	28.3	36.1	408	3.36	81.6	110	794	136	0.338	35.3
100	12.5	29.1	37	410	3.33	82.1	111	804	137	0.336	34.4
120	3	10.8	13.8	312	4.76	52.1	60.2	488	78.2	0.47	92.3
120	4	14.2	18.1	402	4.71	67	78.3	637	101	0.466	70.2
120	5	17.5	22.4	485	4.66	80.9	95.4	778	122	0.463	57
120	6	20.7	26.4	562	4.61	93.7	112	913	141	0.459	48.2
120	6.3	21.4	27.3	572	4.58	95.3	114	955	146	0.453	46.7
120	8	26.4	33.6	677	4.49	113	138	1163	175	0.446	37.9
120	10	31.8	40.6	777	4.38	129	162	1376	203	0.437	31.4
120	12	35.8	45.7	806	4.2	134	174	1518	219	0.418	27.9
120	12.5	36.9	47	817	4.17	136	178	1551	223	0.416	27.1

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mm	mm	kg/m	cm ²	cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m	m
260	6	47.1	60	6405	10.3	493	569	9970	739	1.02	21.2
260	6.3	49.1	62.6	6635	10.3	510	591	10480	772	1.01	20.4
260	8	61.6	78.4	8178	10.2	629	734	13090	955	1.01	16.2
260	10	75.8	96.6	9865	10.1	759	894	16040	1156	0.997	13.2
260	12	88.6	113	11200	9.96	862	1028	18880	1337	0.978	11.3
260	12.5	91.9	117	11550	9.93	888	1063	19550	1381	0.976	10.9
260	16	114	145	13740	9.73	1057	1289	23990	1663	0.958	8.77
300	6	54.7	69.6	9964	12	664	764	15430	997	1.18	18.3
300	6.3	57	72.6	10340	11.9	689	795	16220	1042	1.17	17.5
300	8	71.6	91.2	12800	11.8	853	991	20310	1293	1.17	14
300	10	88.4	113	15520	11.7	1035	1211	24970	1572	1.16	11.3
300	12	104	132	17770	11.6	1184	1402	29510	1829	1.14	9.65
300	12.5	108	137	18350	11.6	1223	1451	30600	1892	1.14	9.3
300	16	134	171	22080	11.4	1472	1774	37840	2299	1.12	7.46
350	8	84.2	107	20680	13.9	1182	1366	32560	1787	1.37	11.9
350	10	104	133	25190	13.8	1439	1675	40130	2182	1.36	9.61
350	12	123	156	29050	13.6	1660	1949	47600	2552	1.34	8.16
350	12.5	127	162	30050	13.6	1717	2020	49390	2642	1.34	7.86
350	16	159	203	36510	13.4	2086	2488	61480	3238	1.32	6.28
400	10	120	153	38220	15.8	1911	2214	60430	2892	1.56	8.35
400	12	141	180	44320	15.7	2216	2587	71840	3395	1.54	7.07
400	12.5	147	187	45880	15.7	2294	2683	74600	3518	1.54	6.81
400	16	184	235	56150	15.5	2808	3322	93280	4336	1.52	5.43

