

Square Hollow Sections (SHS)

TECHNICAL DATA FOR HOLLOW STEEL SECTIONS FOR STRUCTURAL USE CONFORMING TO IS: 4923 -2017, DIMENSIONS AND PROPERTIES OF SQUARE HOLLOW SECTIONS (SHS)

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(D) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
12.0	12.0	1.8	12.0	12.0	1.8	0.51	1961	3.1	322
12.0	12.0	2.0	12.0	12.0	2.0	0.54	1852	3.3	304
15.0	15.0	1.8	15.0	15.0	1.8	0.68	1471	4.1	241
15.0	15.0	2.0	15.0	15.0	2.0	0.73	1370	4.5	225
19.0	19.0	1.8	19.0	19.0	1.8	0.90	1111	5.5	182
19.0	19.0	2.0	19.0	19.0	2.0	0.98	1020	6.0	167
20.0	20.0	2.3	20.0	20.0	2.3	1.17	855	7.1	140
20.0	20.0	2.6	20.0	20.0	2.6	1.28	781	7.8	128
25.0	25.0	2.0	25.0	25.0	2.0	1.36	735	8.3	121
25.0	25.0	2.6	25.0	25.0	2.6	1.69	592	10.3	97
25.0	25.0	3.2	25.0	25.0	3.2	1.98	505	12.1	83
30.0	30.0	2.0	30.0	30.0	2.0	1.68	595	10.2	98
30.0	30.0	2.6	30.0	30.0	2.6	2.1	476	12.8	78
32.0	32.0	2.6	32.0	32.0	2.6	2.26	442	13.8	73
32.0	32.0	3.2	32.0	32.0	3.2	2.69	372	16.4	61
32.0	32.0	4.0	32.0	32.0	4.0	3.19	313	19.4	51
38.0	38.0	2.0	38.0	38.0	2.0	2.18	459	13.3	75
38.0	38.0	2.6	38.0	38.0	2.6	2.75	364	16.8	60
38.0	38.0	3.2	38.0	38.0	3.2	3.29	304	20.1	50
38.0	38.0	4.0	38.0	38.0	4.0	3.95	253	24.1	42
40.0	40.0	2.0	40.0	40.0	2.0	2.31	433	14.1	71
40.0	40.0	2.6	40.0	40.0	2.6	2.92	342	17.8	56
40.0	40.0	3.2	40.0	40.0	3.2	3.49	287	21.3	47
40.0	40.0	4.0	40.0	40.0	4.0	4.20	238	25.6	39
45.0	45.0	2.6	45.0	45.0	2.6	3.32	301	20.2	49
45.0	45.0	3.2	45.0	45.0	3.2	3.99	251	24.3	41
45.0	45.0	4.0	45.0	45.0	4.0	4.82	207	29.4	34
45.0	45.0	4.5	45.0	45.0	4.5	5.31	188	32.4	31
49.5	49.5	2.6	49.5	49.5	2.6	3.69	271	22.5	44
49.5	49.5	3.2	49.5	49.5	3.2	4.45	225	27.1	37
49.5	49.5	4.0	49.5	49.5	4.0	5.39	186	32.9	30
60.0	60.0	2.9	60.0	60.0	2.9	5.02	199	30.6	33
60.0	60.0	3.6	60.0	60.0	3.6	6.11	164	37.2	27
60.0	60.0	4.5	60.0	60.0	4.5	7.42	135	45.2	22
72.0	72.0	3.2	72.0	72.0	3.2	6.71	149	40.9	24
72.0	72.0	4.0	72.0	72.0	4.0	8.22	122	50.1	20
72.0	72.0	4.8	72.0	72.0	4.8	9.66	104	58.9	17
72.0	72.0	6.0	72.0	72.0	6.0	11.70	85	71.3	14
80.0	80.0	2.9	80.0	80.0	2.9	6.85	146	41.8	24
80.0	80.0	4.0	80.0	80.0	4.0	9.22	108	56.2	18
80.0	80.0	6.0	80.0	80.0	6.0	13.27	75	80.9	12
80.0	80.0	8.0	80.0	80.0	8.0	16.79	60	102.4	10
91.5	91.5	3.6	91.5	91.5	3.6	9.67	103	58.9	17
91.5	91.5	4.5	91.5	91.5	4.5	11.88	84	72.4	14
91.5	91.5	5.4	91.5	91.5	5.4	14.01	71	85.4	12
100.0	100.0	4.0	100.0	100.0	4.0	11.73	85	71.5	14
100.0	100.0	5.0	100.0	100.0	5.0	14.41	69	87.8	11
100.0	100.0	6.0	100.0	100.0	6.0	16.98	59	103.5	10
100.0	100.0	8.0	100.0	100.0	8.0	21.81	46	133.0	8
113.5	113.5	4.5	113.5	113.5	4.5	14.99	67	91.4	11
113.5	113.5	5.4	113.5	113.5	5.4	17.74	56	108.1	9
113.5	113.5	6.0	113.5	113.5	6.0	19.53	51	119.1	8

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DESIGNATION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(D) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
120.0	120.0	4.5	120.0	120.0	4.5	15.91	63	97.0	10
120.0	120.0	5.0	120.0	120.0	5.0	17.54	57	106.9	9
120.0	120.0	6.0	120.0	120.0	6.0	20.74	48	126.4	8
125.0	125.0	4.5	125.0	125.0	4.5	16.62	60	101.3	10
125.0	125.0	5.0	125.0	125.0	5.0	18.33	55	111.7	9
125.0	125.0	6.0	125.0	125.0	6.0	21.69	46	132.2	8
132.0	132.0	4.8	132.0	132.0	4.8	18.71	53	114.1	9
132.0	132.0	5.4	132.0	132.0	5.4	20.88	48	127.3	8
132.0	132.0	6.0	132.0	132.0	6.0	23.01	43	140.3	7
150.0	150.0	5.0	150.0	150.0	5.0	22.26	45	135.7	7
150.0	150.0	6.0	150.0	150.0	6.0	26.40	38	160.9	6
150.0	150.0	8.0	150.0	150.0	8.0	34.38	29	209.6	5
150.0	150.0	10.0	150.0	150.0	10.0	41.93	24	255.6	4
180.0	180.0	4.0	180.0	180.0	4.0	21.90	46	133.5	7
180.0	180.0	6.0	180.0	180.0	6.0	32.05	31	195.4	5
180.0	180.0	8.0	180.0	180.0	8.0	42.50	24	259.1	4
200.0	200.0	5.0	200.0	200.0	5.0	30.11	33	183.6	5
200.0	200.0	6.0	200.0	200.0	6.0	35.82	28	218.4	5
200.0	200.0	7.0	200.0	200.0	7.0	41.43	24	252.6	4
200.0	200.0	8.0	200.0	200.0	8.0	46.93	21	286.1	3
200.0	200.0	10.0	200.0	200.0	10.0	52.55	19	320.3	3
200.0	200.0	12.0	200.0	200.0	12.0	68.81	15	419.5	2
220.0	220.0	6.0	220.0	220.0	6.0	39.50	25	240.8	4
220.0	220.0	7.0	220.0	220.0	7.0	45.91	22	279.9	4
220.0	220.0	8.0	220.0	220.0	8.0	52.28	19	318.7	3
220.0	220.0	10.0	220.0	220.0	10.0	63.91	16	389.6	3
220.0	220.0	12.0	220.0	220.0	12.0	77.24	13	470.9	2
250.0	250.0	6.0	250.0	250.0	6.0	45.24	22	275.8	4
250.0	250.0	8.0	250.0	250.0	8.0	59.49	17	362.7	3
250.0	250.0	10.0	250.0	250.0	10.0	73.33	14	447.0	2
250.0	250.0	12.0	250.0	250.0	12.0	87.59	11	533.9	2
300.0	300.0	6.0	300.0	300.0	6.0	54.66	18	333.2	3
300.0	300.0	8.0	300.0	300.0	8.0	72.06	14	439.3	2
300.0	300.0	10.0	300.0	300.0	10.0	89.04	11	542.8	2
300.0	300.0	12.0	300.0	300.0	12.7	105.61	9	643.8	2
350.0	350.0	8.0	350.0	350.0	8.0	84.62	12	515.8	2
350.0	350.0	10.0	350.0	350.0	10.0	104.74	10	638.5	2
350.0	350.0	12.0	350.0	350.0	12.0	124.45	8	758.6	1

Tolerance

Thickness (All Sizes)	: ± 7.5%	Weight	
Outside dimensions of sides	: ± 1% of length of the side to be measured with a minimum of ± 0.5 mm	Individual Length	: ± 10% / 8%
		On lots of 10 T	: ± 7%
External Corner Radius	: 3 T, max where T is the thickness of section	Squareness of Corner	: 90 Degree ± 2 %