

# Circular Hollow Sections (CHS)

## TECHNICAL DATA FOR STEEL TUBES FOR STRUCTURAL PURPOSES, CONFORMING TO IS:1161 - 2014 EQUIVALENT TO BS:1775 - 64

NOMINAL BORE & SERIES		OUTSIDE DIAMETER			WALL THICKNESS		NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	in	Max	Mean	Min	mm	swg	kg/mtr	mts/t	kgs/20'	pcs/mt
15	1/2"	21.7	21.3	20.5	2.0	14	0.95	1053	5.8	173
15	1/2"	21.7	21.3	20.5	2.6	12	1.20	833	7.3	137
15	1/2"	21.7	21.3	20.5	3.2	10	1.43	699	8.7	115
20	3/4"	27.3	26.9	26.1	2.3	13	1.40	714	8.5	117
20	3/4"	27.3	26.9	26.1	2.6	12	1.56	641	9.5	105
20	3/4"	27.3	26.9	26.1	3.2	10	1.87	535	11.4	88
25	1"	34.1	33.7	32.9	2.6	12	1.99	503	12.1	82
25	1"	34.1	33.7	32.9	3.2	10	2.41	415	14.7	68
25	1"	34.1	33.7	32.9	4.0	8	2.93	341	17.9	56
32	1.1/4"	42.8	42.4	41.6	2.6	12	2.55	392	15.5	64
32	1.1/4"	42.8	42.4	41.6	3.2	10	3.09	324	18.8	53
32	1.1/4"	42.8	42.4	41.6	4.0	8	3.79	264	23.1	43
40	1.1/2"	48.7	48.3	47.5	2.9	11	3.25	308	19.8	50
40	1.1/2"	48.7	48.3	47.5	3.2	10	3.56	281	21.7	46
40	1.1/2"	48.7	48.3	47.5	4.0	8	4.37	229	26.6	38
50	2"	60.9	60.3	59.7	2.9	11	4.11	243	25.1	40
50	2"	60.9	60.3	59.7	3.6	9	5.03	199	30.7	33
50	2"	60.9	60.3	59.7	4.5	7	6.19	162	37.7	27
65	2.1/2"	76.8	76.1	75.3	2.9	11	5.24	191	31.9	31
65	2.1/2"	76.8	76.1	75.3	3.6	9	6.44	155	39.3	25
65	2.1/2"	76.8	76.1	75.3	4.5	7	7.95	126	48.5	21
80	3"	89.8	88.9	88.0	3.2	10	6.76	148	41.2	24
80	3"	89.8	88.9	88.0	4.0	8	8.38	119	51.1	20
80	3"	89.8	88.9	88.0	4.8	6	9.96	100	60.7	16
90	3.1/2"	102.6	101.6	100.6	3.6	9	8.70	115	53.0	19
90	3.1/2"	102.6	101.6	100.6	4.0	8	9.63	104	58.7	17
90	3.1/2"	102.6	101.6	100.6	4.8	6	11.46	87	69.9	14
100	4"	115.4	114.3	113.2	3.6	9	9.83	102	59.9	17
100	4"	115.4	114.3	113.2	4.5	7	12.19	82	74.3	13
100	4"	115.4	114.3	113.2	5.4	5	14.50	69	88.4	11
110	4.1/4"	128.3	127.0	125.7	4.5	7	13.59	74	82.8	12
110	4.1/4"	128.3	127.0	125.7	4.8	6	14.47	69	88.2	11
110	4.1/4"	128.3	127.0	125.7	5.4	5	16.19	62	98.7	10
125	5"	141.1	139.7	138.5	4.5	7	15.00	67	91.4	11
125	5"	141.1	139.7	138.5	4.8	6	15.97	63	97.4	10
125	5"	141.1	139.7	138.5	5.4	5	17.89	56	109.1	9
135	5.1/4"	153.9	152.4	150.9	4.5	7	16.41	61	100.0	10
135	5.1/4"	153.9	152.4	150.9	4.8	6	17.47	57	106.5	9
135	5.1/4"	153.9	152.4	150.9	5.4	5	19.58	51	119.4	8

## Tolerance

Thickness (All Sizes)	: ± 10%	Mass (Per Load of 10T minimum)	: ± 10%
Mass (Single Tube)	: ± 10%	Length (m)	: 4 - 12

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NOMINAL BORE & SERIES		OUTSIDE DIAMETER			WALL THICKNESS		NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	in	Max	Mean	Min	mm	swg	kg/mtr	mts/t	kgs/20'	pcs/mt
150	6"	166.8	165.1	163.4	4.5	7	17.82	56	108.6	9
150	6"	166.8	165.1	163.4	4.8	6	18.98	53	115.7	9
150	6"	166.8	165.1	163.4	5.4	5	21.27	47	129.7	8
150	6"	166.8	165.1	163.4	5.9	4	23.20	43	141.4	7
150	6"	166.8	165.1	163.4	6.3	3	24.67	41	150.4	7
150	6"	166.8	165.1	163.4	8.0	0	30.99	32	188.9	5
150	6"	170.0	168.3	166.6	4.5	7	18.18	55	110.8	9
150	6"	170.0	168.3	166.6	4.8	6	19.35	52	118.0	8
150	6"	170.0	168.3	166.6	5.4	5	21.69	46	132.2	8
150	6"	170.0	168.3	166.6	6.3	3	25.17	40	153.4	7
150	6"	170.0	168.3	166.6	8.0	0	31.63	32	192.8	5
150	6"	170.0	168.3	166.6	10.0	0	39.04	26	238.0	4
175	7"	195.6	193.7	191.8	4.8	6	22.36	45	136.3	7
175	7"	195.6	193.7	191.8	5.4	5	25.08	40	152.9	7
175	7"	195.6	193.7	191.8	5.9	4	27.33	37	166.6	6
175	7"	195.6	193.7	191.8	6.3	3	29.12	34	177.5	6
175	7"	195.6	193.7	191.8	8.0	0	36.64	27	223.4	4
175	7"	195.6	193.7	191.8	10.0	0	45.30	22	276.1	4
200	8"	221.3	219.1	216.9	4.8	6	25.37	39	154.7	6
200	8"	221.3	219.1	216.9	5.6	5	29.49	34	179.8	6
200	8"	221.3	219.1	216.9	5.9	4	31.02	32	189.1	5
200	8"	221.3	219.1	216.9	6.3	3	33.06	30	201.5	5
200	8"	221.3	219.1	216.9	8.0	0	41.65	24	253.9	4
200	8"	221.3	219.1	216.9	10.0	0	51.57	19	314.4	3
225	9"	246.9	244.5	242.1	5.9	4	34.72	29	211.7	5
225	9"	246.9	244.5	242.1	6.3	3	37.01	27	225.6	4
225	9"	246.9	244.5	242.1	8.0	0	46.66	21	284.4	4
225	9"	246.9	244.5	242.1	10.0	0	57.83	17	352.5	3
250	10"	275.7	273.0	270.3	5.9	4	38.86	26	236.9	4
250	10"	275.7	273.0	270.3	6.3	3	41.44	24	252.6	4
250	10"	275.7	273.0	270.3	8.0	0	52.28	19	318.7	3
250	10"	275.7	273.0	270.3	10.0	0	64.86	15	395.4	3
300	12"	327.1	323.9	320.7	6.3	3	49.34	20	300.8	3
300	12"	327.1	323.9	320.7	8.0	0	62.32	16	379.9	3
300	12"	327.1	323.9	320.7	10.0	0	77.41	13	471.9	2
300	12"	327.1	323.9	320.7	12.0	0	92.30	11	562.7	2
350	14"	359.2	355.6	352.0	8.0	0	68.58	15	418.1	2
350	14"	359.2	355.6	352.0	10.0	0	85.23	12	519.6	2
350	14"	359.2	355.6	352.0	12.0	0	101.68	10	619.8	2

## Tolerance

Thickness (All Sizes) :  $\pm 10\%$       Mass (Per Load of 10T minimum) :  $\pm 7.5\%$   
 Mass (Single Tube) :  $\pm 10\%$       Length (m) : 4 - 7