EN 10210 S355J2H Properties hot formed circular hollow sections											
Outside	Thickness	Mass	Area	Moment	Radius of	Elastic	Plastic	Torsional Constants		Superficial	Approx.
diameter				of inertia	gyration	modulus	modulus			area/m	length
D	T	M	A	I	i	W_{el}	W_{pl}	I_t	C_t	A_s	/tonne
mm	mm	kg/m	cm^2	cm^4	cm	cm^3	cm^3	cm^4	cm^3	m^2/m	m
26,9	3,2	1.87	2.38	1.70	0.846	1.27	1.81	3.41	2.53	0.085	535
33,7	2,6	1.99	2.54	3.09	1.10	1.84	2.52	6.19	3.67	0.106	501
33,7	3,2	2.41	3.07	3.60	1.08	2.14	2.99	7.21	4.28	0.106	415
33,7	4,0	2.93	3.73	4.19	1.06	2.49	3.55	8.38	4.97	0.106	341
42,4	3,2	3.09	3.94	7.62	1.39	3.59	4.93	15.2	7.19	0.133	323
42,4	4,0	3.79	4.83	8.99	1.36	4.24	5.92	18.0	8.48	0.133	264
48,3	3,2	3.56	4.53	11.6	1.60	4.80	6.52	23.2	9.59	0.152	281
48,3	4,0	4.37	5.57	13.8	1.57	5.70	7.87	27.5	11.4	0.152	229
48,3	5,0	5.34	6.80	16.2	1.54	6.69	9.42	32.3	13.4	0.152	187
60,3	3,2	4.51	5.74	23.5	2.02	7.78	10.4	46.9	15.6	0.189	222
60,3	4,0	5.55	7.07	28.2	2.00	9.34	12.7	56.3	18.7	0.189	180
60,3	5,0	6.82	8.69	33.5	1.96	11.1	15.3	67.0	22.2	0.189	147
76,1	2,9	5.24	6.67	44.7	2.59	11.8	15.5	89.5	23.5	0.239	191
76,1	3,2	5.75	7.33	48.8	2.58	12.8	17.0	97.6	25.6	0.239	174
76,1	4,0	7.11	9.06	59.1	2.55	15.5	20.8	118	31.0	0.239	141
76,1	5,0	8.77	11.2	70.9	2.52	18.6	25.3	142	37.3	0.239	114
88,9	3,2	6.76	8.62	79.2	3.03	17.8	23.5	158	35.6	0.279	148
88,9	4,0	8.38	10.7	96.3	3.00	21.7	28.9	193	43.3	0.279	119
88,9	5,0	10.3	13.2	116	2.97	26.2	35.2	233	52.4	0.279	96.7
88,9	6,3	12.8	16.3	140	2.93	31.5	43.1	280	63.1	0.279	77.9
114,3	3,2	8.77	11.2	172	3.93	30.2	39.5	345	60.4	0.359	114
114,3	3,6	9.83	12.5	192	3.92	33.6	44.1	384	67.2	0.359	102
114,3	4,0	10.9	13.9	211	3.90	36.9	48.7	422	73.9	0.359	91.9

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diameter				of inertia	gyration	modulus	modulus			area/m	length
D	T	M	A	I	i	W_{el}	W_{pl}	I_t	C_t	A_s	/tonne
mm	mm	kg/m	cm^2	cm^4	cm	cm^3	cm^3	cm^4	cm^3	m^2/m	m
114,3	5,0	13.5	17.2	257	3.87	45.0	59.8	514	89.9	0.359	74.2
114,3	6,3	16.8	21.4	313	3.82	54.7	73.6	625	109	0.359	59.6
139,7	5,0	16.6	21.2	481	4.77	68.8	90.8	961	138	0.439	60.2
139,7	6,3	20.7	26.4	589	4.72	84.3	112	1177	169	0.439	48.2
139,7	8,0	26.0	33.1	720	4.66	103	139	1441	206	0.439	38.5
139,7	10,0	32.0	40.7	862	4.60	123	169	1724	247	0.439	31.3
168,3	5,0	20.1	25.7	856	5.78	102	133	1712	203	0.529	49.7
168,3	6,3	25.2	32.1	1053	5.73	125	165	2107	250	0.529	39.7
168,3	8,0	31.6	40.3	1297	5.67	154	206	2595	308	0.529	31.6
168,3	10,0	39.0	49.7	1564	5.61	186	251	3128	372	0.529	25.6
193,7	5,0	23.3	29.6	1320	6.67	136	178	2640	273	0.609	43.0
193,7	6,3	29.1	37.1	1630	6.63	168	221	3260	337	0.609	34.3
193,7	8,0	36.6	46.7	2016	6.57	208	276	4031	416	0.609	27.3
193,7	10,0	45.3	57.7	2442	6.50	252	338	4883	504	0.609	22.1
219,1	5,0	26.4	33.6	1928	7.57	176	229	3856	352	0.688	37.9
219,1	6,3	33.1	42.1	2386	7.53	218	285	4772	436	0.688	30.2
219,1	8,0	41.6	53.1	2960	7.47	270	357	5919	540	0.688	24.0
219,1	10,0	51.6	65.7	3598	7.40	328	438	7197	657	0.688	19.4
219,1	12,5	63.7	81.1	4345	7.32	397	534	8689	793	0.688	15.7
244,5	8,0	46.7	59.4	4160	8.37	340	448	8321	681	0.768	21.4
244,5	10,0	57.8	73.7	5073	8.30	415	550	10146	830	0.768	17.3
244,5	12,5	71.5	91.1	6147	8.21	503	673	12295	1006	0.768	14.0
244,5	16,0	90.2	115	7533	8.10	616	837	15066	1232	0.768	11.1
273,0	6,3	41.4	52.8	4696	9.43	344	448	9392	688	0.858	24.1

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Outside	Thickness	Mass	Area	Moment	Radius of	Elastic	Plastic	Torsional Constants		Superficial	Approx.
diameter				of inertia	gyration	modulus	modulus			area/m	length
D	T	M	A	I	i	W_{el}	W_{pl}	I_t	C_t	A_s	/tonne
mm	mm	kg/m	cm^2	cm^4	cm	cm^3	cm^3	cm^4	cm^3	m^2/m	m
273,0	8,0	52.3	66.6	5852	9.37	429	562	11703	857	0.858	19.1
273,0	10,0	64.9	82.6	7154	9.31	524	692	14308	1048	0.858	15.4
273,0	12,5	80.3	102	8697	9.22	637	849	17395	1274	0.858	12.5
273,0	16,0	101	129	10707	9.10	784	1058	21414	1569	0.858	9.86
323,9	6,3	49.3	62.9	7929	11.2	490	636	15858	979	1.02	20.3
323,9	8,0	62.3	79.4	9910	11.2	612	799	19820	1224	1.02	16.0
323,9	10,0	77.4	98.6	12158	11.1	751	986	24317	1501	1.02	12.9
323,9	12,5	96.0	122	14847	11.0	917	1213	29693	1833	1.02	10.4
323,9	16,0	121	155	18390	10.9	1136	1518	36780	2271	1.02	8.23
355,6	16,0	134	171	24663	12.0	1387	1847	49326	2774	1.12	7.46
406,4	12,5	121	155	30031	13.9	1478	1940	60061	2956	1.28	8.24
406,4	16,0	154	196	37449	13.8	1843	2440	74898	3686	1.28	6.49
457,0	16,0	174	222	53959	15.6	2361	3113	107919	4723	1.44	5.75
508,0	10,0	123	156	48520	17.6	1910	2480	97040	3820	1.60	8.14
508,0	16,0	194	247	74909	17.4	2949	3874	149818	5898	1.60	5.15