



JUMBO SHS														
Designation		Normal Corner		Mass	Area	Second	Radius	Elastic	Plastic	Torsional			Section	Nominal
Size	Thickness	Radius		per	of	Moment	of	Modulus	Modulus	Constants		Surface	Length	
B	T	External	Internal	metre	Section	of Area	Gyration	Z	S	J	C	As	per	
mm x mm	mm	r _o	r _i	kg/m	A	I	r	cm ³	cm ³	cm ⁴	cm ³	m ² /m	Tonne	
350	19	38	19	190	242	43358	13.4	2478	2967	70931	3738	1.33	5.26	
350	22	44	22	217	276	48355	13.2	2763	3343	80178	4178	1.32	4.61	
350	25	50	25	242	309	52893	13.1	3022	3695	88883	4581	1.31	4.12	
400	22	44	22	251	320	74707	15.3	3735	4476	122354	5637	1.52	3.98	
400	25	50	25	282	359	82151	15.1	4108	4967	136141	6210	1.51	3.55	
450	12	24	12	162	207	65433	17.8	2908	3371	102445	4367	1.76	6.17	
450	16	32	16	213	271	84067	17.6	3736	4376	133503	5617	1.75	4.7	
450	19	38	19	250	318	97055	17.5	4314	5092	155773	6492	1.73	4	
450	22	44	22	286	364	109220	17.3	4854	5775	177161	7315	1.72	3.5	
450	25	50	25	321	409	120583	17.2	5359	6427	197663	8088	1.71	3.12	
450	28	56	28	355	452	131166	17	5830	7047	217274	8813	1.7	2.82	
450	32	64	32	399	509	144099	16.8	6404	7826	242029	9707	1.69	2.5	
500	12	24	12	181	231	90752	19.8	3630	4196	141480	5449	1.96	5.53	
500	16	32	16	238	303	117050	19.6	4682	5461	184830	7035	1.95	4.2	
500	19	38	19	280	356	135538	19.5	5422	6368	216081	8153	1.93	3.58	
500	22	44	22	320	408	152993	19.4	6120	7239	246247	9213	1.92	3.12	
500	25	50	25	360	459	169439	19.2	6778	8074	275323	10216	1.91	2.78	
500	28	56	28	399	508	184900	19.1	7396	8874	303304	11163	1.9	2.51	
500	32	64	32	450	573	204023	18.9	8161	9886	338901	12343	1.89	2.22	
500	36	72	36	498	635	221491	18.7	8860	10838	372530	13431	1.88	2.01	
550	16	32	16	263	335	157695	21.7	5734	6666	247855	8613	2.15	3.8	
550	19	38	19	309	394	183044	21.5	6656	7787	290214	10004	2.13	3.23	
550	22	44	22	355	452	207126	21.4	7532	8868	331264	11330	2.12	2.82	
550	25	50	25	399	509	229968	21.3	8362	9909	370998	12593	2.11	2.5	
550	28	56	28	443	564	251597	21.1	9149	10911	409411	13793	2.1	2.26	
550	32	64	32	500	637	278592	20.9	10131	12187	458566	15299	2.09	2	
550	36	72	36	555	707	303537	20.7	11038	13395	505351	16701	2.08	1.8	
550	40	80	40	608	775	326492	20.5	11872	14536	549754	18003	2.06	1.64	
600	25	50	25	439	559	303422	23.3	10114	11931	486561	15219	2.31	2.28	
600	28	56	28	487	620	332658	23.2	11089	13158	537694	16702	2.3	2.05	
600	32	64	32	550	701	369408	23	12314	14727	603425	18574	2.29	1.82	
600	36	72	36	611	779	403671	22.8	13456	16222	666346	20330	2.28	1.64	
600	40	80	40	671	855	435511	22.6	14517	17643	726443	21973	2.26	1.49	
600	45	90	45	743	947	472005	22.3	15734	19317	797572	23875	2.25	1.35	
600	50	100	50	813	1036	504944	22.1	16831	20879	864237	25612	2.23	1.23	
650	25	50	25	478	609	391049	25.3	12032	14141	623887	18096	2.51	2.09	
650	28	56	28	531	676	429482	25.2	13215	15615	690254	19890	2.5	1.88	
650	32	64	32	600	765	478071	25	14710	17508	775879	22168	2.49	1.67	
650	36	72	36	668	851	523691	24.8	16114	19319	858215	24317	2.48	1.5	
650	40	80	40	734	935	566414	24.6	17428	21050	937249	26342	2.46	1.36	
650	45	90	45	814	1037	615855	24.4	18949	23102	1031373	28704	2.45	1.23	
650	50	100	50	891	1136	661020	24.1	20339	25031	1120282	30883	2.43	1.12	
700	25	50	25	517	659	494100	27.4	14117	16538	784853	21222	2.71	1.93	
700	28	56	28	575	732	543470	27.2	15528	18281	869191	23359	2.7	1.74	
700	32	64	32	651	829	606180	27	17319	20528	978326	26082	2.69	1.54	
700	36	72	36	724	923	665398	26.9	19011	22686	1083657	28664	2.68	1.38	
700	40	80	40	797	1015	721203	26.7	20606	24757	1185170	31110	2.66	1.26	
700	45	90	45	885	1127	786278	26.4	22465	27224	1306665	33981	2.65	1.13	
700	50	100	50	970	1236	846292	26.2	24180	29557	1422135	36651	2.63	1.03	
750	25	50	25	556	709	613824	29.4	16369	19123	971332	24598	2.91	1.8	
750	28	56	28	619	788	676022	29.3	18027	21158	1076603	27107	2.9	1.62	
750	32	64	32	701	893	755335	29.1	20142	23789	1213166	30315	2.89	1.43	
750	36	72	36	781	995	830591	28.9	22149	26323	1345373	33370	2.88	1.28	
750	40	80	40	859	1095	901876	28.7	24050	28764	1473207	36277	2.86	1.16	
750	45	90	45	955	1217	985524	28.5	26281	31683	1626822	39706	2.85	1.05	
750	50	100	50	1048	1336	1063259	28.2	28354	34459	1773543	42916	2.83	0.954	
800	25	50	25	596	759	751473	31.5	18787	21895	1185200	28224	3.11	1.68	
800	28	56	28	663	844	828537	31.3	20713	24245	1314593	31135	3.1	1.51	
800	32	64	32	751	957	927137	31.1	23178	27289	1482801	34868	3.09	1.33	
800	36	72	36	837	1067	1021072	30.9	25527	30230	1646062	38436	3.08	1.19	
800	40	80	40	922	1175	1110434	30.7	27761	33071	1804359	41843	3.06	1.08	
800	45	90	45	1026	1307	1215843	30.5	30396	36480	1995219	45881	3.05	0.975	
800	50	100	50	1127	1436	1314421	30.3	32861	39735	2178258	49680	3.03	0.887	