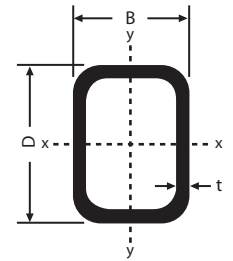


Hot Finished Rectangular Hollow Sections

(Metric units)

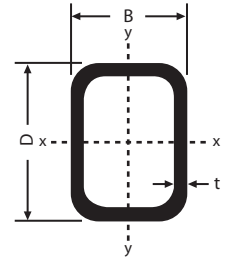
Section Size	Wall Thickness	Unit Weight	Section Area	Second Moment of Area		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Surface Area Per Metre
				Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	J	C	
D x B	t	M	A	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³	cm ⁴	cm ³	m ² /m
mm	mm	kg/m	cm ²	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³	cm ⁴	cm ³	m ² /m
50 x 25	2.50	2.72	3.43	10.40	3.39	1.74	0.99	4.16	2.71	5.33	3.22	8.42	4.61	0.14
	3.00	3.22	4.04	11.90	3.83	1.72	0.97	4.76	3.06	6.18	3.71	9.64	5.20	0.14
	3.20	3.41	4.28	12.50	3.98	1.71	0.96	4.98	3.18	6.50	3.89	10.10	5.41	0.14
	4.00	4.07	5.19	14.40	4.48	1.66	0.93	5.75	3.59	7.67	4.54	11.60	6.11	0.14
50 x 30	2.50	2.92	3.68	11.80	5.22	1.79	1.19	4.73	3.48	5.92	4.11	11.70	5.73	0.15
	3.00	3.45	4.34	13.60	5.94	1.77	1.17	5.43	3.96	6.88	4.76	13.50	6.51	0.15
	3.20	3.66	4.60	14.20	6.20	1.76	1.16	5.68	4.13	7.25	5.00	14.20	6.80	0.15
	4.00	4.46	5.59	16.50	7.08	1.72	1.13	6.60	4.72	8.59	5.88	16.60	7.77	0.15
	5.00	5.40	6.73	18.70	7.89	1.67	1.08	7.49	5.26	10.00	6.80	19.00	8.67	0.15
60 x 40	2.50	3.71	4.68	22.80	12.10	2.21	1.60	7.61	6.03	9.32	7.02	25.10	9.73	0.19
	3.00	4.39	5.54	26.50	13.90	2.18	1.58	8.82	6.95	10.90	8.19	29.20	11.20	0.19
	3.20	4.66	5.88	27.80	14.60	2.18	1.57	9.27	7.29	11.50	8.64	30.80	11.70	0.19
	4.00	5.72	7.19	32.80	17.00	2.14	1.54	10.90	8.52	13.80	10.30	36.70	13.70	0.19
	5.00	6.97	8.73	38.10	19.50	2.09	1.50	12.70	9.77	16.40	12.20	43.00	15.70	0.19
	6.00	8.15	10.20	42.30	21.40	2.04	1.45	14.10	10.70	18.60	13.70	48.20	17.30	0.19
	6.30	8.49	10.60	43.40	21.90	2.02	1.44	14.50	11.00	19.20	14.20	49.50	17.60	0.18
	8.00	10.00	12.80	47.90	23.70	1.94	1.36	16.00	11.90	22.10	16.10	55.40	19.20	0.18
80 x 40	3.00	5.34	6.74	54.20	18.00	2.84	1.63	13.60	9.00	17.10	10.40	43.80	15.30	0.23
	3.20	5.67	7.16	57.20	18.90	2.83	1.63	14.30	9.46	18.00	11.00	46.20	16.10	0.23
	4.00	6.97	8.79	68.20	22.20	2.79	1.59	17.10	11.10	21.80	13.20	55.20	18.90	0.23
	5.00	8.54	10.70	80.30	25.70	2.74	1.55	20.10	12.90	26.10	15.70	65.10	21.90	0.23
	6.00	10.00	12.60	90.50	28.50	2.68	1.50	22.60	14.20	30.00	17.80	73.40	24.20	0.23
	6.30	10.50	13.10	93.30	29.20	2.67	1.49	23.30	14.60	31.10	18.40	75.60	24.80	0.22
	8.00	12.80	16.00	106.00	32.10	2.58	1.42	26.50	16.10	36.50	21.20	85.80	27.40	0.22
	10.00	14.90	18.90	115.00	33.70	2.47	1.33	28.80	16.90	41.30	23.50	92.50	28.90	0.21
80 x 50	3.00	5.81	7.34	63.10	30.20	2.93	2.03	15.80	12.10	19.40	13.90	64.80	19.70	0.25
	4.00	7.53	9.59	79.80	37.70	2.88	1.98	19.90	15.10	24.90	17.80	82.60	24.60	0.25
	5.00	9.33	11.70	94.40	44.10	2.84	1.94	23.60	17.70	29.90	21.30	98.40	28.80	0.25
	6.00	11.00	13.80	107.00	49.50	2.79	1.90	26.80	19.80	34.40	24.40	112.00	32.30	0.25
	8.00	14.11	17.60	127.00	57.40	2.69	1.81	31.70	23.00	42.20	29.60	135.00	37.50	0.24
	10.00	16.40	20.90	140.00	62.10	2.59	1.72	35.00	24.80	48.30	33.40	150.00	40.60	0.23
90 x 50	3.00	6.28	7.94	84.40	33.50	3.26	2.05	18.80	13.40	23.20	15.30	76.50	22.40	0.27
	3.20	6.63	8.44	89.10	35.30	3.25	2.04	19.80	14.10	24.60	16.20	80.90	23.60	0.27
	3.60	7.46	9.42	98.30	38.70	3.23	2.03	21.80	15.50	27.20	18.00	89.40	25.90	0.27
	4.00	8.15	10.40	107.00	41.90	3.21	2.01	23.80	16.80	29.80	19.60	97.50	28.00	0.27
	5.00	10.10	12.70	127.00	49.20	3.16	1.97	28.30	19.70	36.00	23.50	116.00	32.90	0.27
	6.00	11.90	15.00	145.00	55.40	3.11	1.92	32.20	22.10	41.60	27.00	133.00	37.00	0.27
	6.30	12.50	15.60	150.00	57.00	3.10	1.91	33.30	22.80	43.20	28.00	138.00	38.10	0.26
	8.00	15.30	19.20	174.00	64.60	3.01	1.84	38.60	25.80	51.40	32.90	160.00	43.20	0.26
	10.00	18.00	22.90	194.00	70.20	2.91	1.75	43.00	28.10	59.30	37.40	179.00	47.10	0.25



Hot Finished Rectangular Hollow Sections

(Metric units)

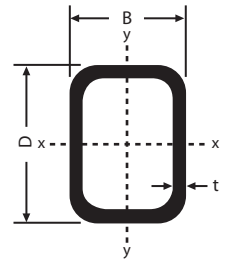
Section Size	Wall Thickness	Unit Weight	Section Area	Second Moment of Area		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Surface Area Per Metre
				Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	J	C	
D x B	t	M	A	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³	cm ⁴	cm ³	m ² /m
mm	mm	kg/m	cm ²	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³	cm ⁴	cm ³	m ² /m
100 x 50	3.00	6.75	8.54	110	36.80	3.58	2.08	21.90	14.70	27.30	16.80	88.40	25.00	0.29
	3.20	7.18	9.08	116	38.80	3.57	2.07	23.20	15.50	28.90	17.70	93.40	26.40	0.29
	4.00	8.86	11.20	140	46.20	3.53	2.03	27.90	18.50	35.20	21.50	113.00	31.40	0.29
	5.00	10.90	13.70	167	54.30	3.48	1.99	33.30	21.70	42.60	25.80	135.00	36.90	0.29
	6.00	12.90	16.20	190	61.20	3.43	1.95	38.10	24.50	49.40	29.70	154.00	41.60	0.29
	6.30	13.40	16.90	197	63.00	3.42	1.93	39.40	25.20	51.30	30.80	160.00	42.90	0.28
	8.00	16.60	20.80	230	71.70	3.33	1.86	46.00	28.70	61.40	36.30	186.00	48.90	0.28
	10.00	19.60	24.90	259	78.40	3.22	1.77	51.80	31.40	71.20	41.40	209.00	53.60	0.27
100 x 60	3.00	7.22	9.14	124	55.70	3.68	2.47	24.70	18.60	30.20	21.20	121	30.70	0.31
	3.60	8.59	10.90	145	64.80	3.65	2.44	28.90	21.60	35.60	24.90	142	35.60	0.31
	5.00	11.70	14.70	189	83.60	3.58	2.38	37.80	27.90	47.40	32.90	188	45.90	0.31
	6.00	13.80	17.40	217	95.00	3.53	2.34	43.40	31.70	55.10	38.10	216	52.10	0.31
	6.30	14.40	18.10	225	98.10	3.52	2.33	45.00	32.70	57.30	39.50	224	53.80	0.30
	8.00	17.80	22.40	264	113.00	3.44	2.25	52.80	37.80	68.70	47.10	265	62.20	0.30
120 x 60	3.60	9.72	12.30	227	76.30	4.30	2.49	37.90	25.40	47.20	28.90	183	43.30	0.35
	4.00	10.70	13.60	249	83.10	4.28	2.47	41.50	27.70	51.90	31.70	201	47.10	0.35
	5.00	13.30	16.70	299	98.80	4.23	2.43	49.90	32.90	63.10	38.40	242	56.00	0.35
	6.00	15.70	19.80	345	113.00	4.18	2.39	57.50	37.50	73.60	44.50	279	63.80	0.35
	6.30	16.40	20.70	358	116.00	4.16	2.37	59.70	38.80	76.70	46.30	290	65.90	0.34
	8.00	20.40	25.60	425	135.00	4.08	2.30	70.80	45.00	92.70	55.40	344	76.60	0.34
	10.00	24.30	30.90	488	152.00	3.97	2.21	81.40	50.50	109.20	64.40	396	86.10	0.33
	120 x 80	5.00	14.80	18.70	365	193	4.42	3.21	60.90	48.20	74.60	56.10	401	77.90
6.00		17.60	22.20	423	222	4.37	3.17	70.60	55.60	87.30	65.50	468	89.60	0.39
6.30		18.40	23.20	440	230	4.36	3.15	73.30	57.60	91.00	68.20	487	92.90	0.38
8.00		22.90	28.80	525	273	4.27	3.08	87.50	68.10	111.00	82.60	587	110.00	0.38
10.00		27.90	34.90	609	313	4.18	2.99	102.00	78.10	131.00	97.30	688	126.00	0.37
150 x 100	5.00	18.70	23.70	739	392	5.58	4.07	98.50	78.50	119	90.10	807	127	0.49
	6.00	22.30	28.20	862	456	5.53	4.02	115.00	91.20	141	106.00	946	147	0.49
	6.30	23.30	29.50	898	474	5.52	4.01	120.00	94.80	147	110.00	986	153	0.48
	8.00	29.10	36.80	1,087	569	5.44	3.94	145.00	114.00	180	135.00	1,203	183	0.48
	10.00	35.70	44.90	1,282	665	5.34	3.85	171.00	133.00	216	161.00	1,432	214	0.47
	12.00	41.40	52.70	1,450	745	5.25	3.76	193.00	149.00	249	185.00	1,633	240	0.47
	12.50	42.80	54.60	1,488	763	5.22	3.74	198.00	153.00	256	190.00	1,679	246	0.47
160 x 80	4.50	16.24	20.60	679	229	5.75	3.33	84.90	57.10	106	64.80	547	97	0.47
	5.00	18.00	22.70	744	249	5.72	3.31	93.00	62.30	116	71.10	600	106	0.47
	6.00	21.30	27.00	868	288	5.67	3.27	108.00	72.00	136	83.30	701	122	0.47
	6.30	22.30	28.20	903	299	5.66	3.26	113.00	74.80	142	86.80	730	127	0.46
	8.00	27.90	35.20	1,091	356	5.57	3.18	136.00	89.00	175	106.00	883	151	0.46
	10.00	34.20	42.90	1,284	411	5.47	3.10	161.00	103.00	209	125.00	1,041	175	0.45
	12.00	39.50	50.30	1,449	455	5.37	3.01	181.00	114.00	240	142.00	1,175	194	0.45
	12.50	41.60	52.10	1,485	465	5.34	2.99	186.00	116.00	247	146.00	1,204	198	0.45



Hot Finished Rectangular Hollow Sections

(Metric units)

Section Size	Wall Thickness	Unit Weight	Section Area	Second Moment of Area		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Surface Area Per Metre
				Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	J	C	
D x B	t	M	A	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³	cm ⁴	cm ³	m ² /m
mm	mm	kg/m	cm ²	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³	cm ⁴	cm ³	m ² /m
200 x 100	5.00	22.70	28.70	1,495	505	7.21	4.19	149	101	185	114	1,204	172	0.59
	6.00	27.00	34.20	1,754	589	7.16	4.15	175	118	218	134	1,414	200	0.59
	6.30	28.30	35.80	1,829	613	7.15	4.14	183	123	228	140	1,475	208	0.58
	8.00	35.40	44.80	2,234	739	7.06	4.06	223	148	282	172	1,804	251	0.58
	10.00	43.60	54.90	2,664	869	6.96	3.98	266	174	341	206	2,156	295	0.57
	12.00	50.80	64.70	3,047	979	6.86	3.89	305	196	395	237	2,469	333	0.57
	12.50	53.40	67.10	3,136	1,004	6.84	3.87	314	201	408	245	2,541	341	0.57
	16.00	66.40	83.00	3,678	1,147	6.66	3.72	368	229	491	290	2,982	391	0.56
200 x 120	5.00	24.10	30.70	1,690	762	7.40	4.98	168	127	205	144	1,650	210	0.63
	6.30	30.10	38.30	2,070	929	7.34	4.92	207	155	253	177	2,030	255	0.62
	8.00	37.60	48.00	2,530	1,130	7.26	4.85	253	188	313	218	2,490	310	0.62
	10.00	46.30	58.90	3,030	1,340	7.17	4.76	303	223	379	263	3,000	367	0.61
	12.50	55.70	71.70	3,468	1,524	6.99	4.63	347	254	444	308	3,568	426	0.61
	16.00	71.38	89.40	4,221	1,813	6.87	4.50	422	302	550	377	4,247	497	0.60
200 x 150	6.00	31.70	40.20	2,318	1,485	7.60	6.08	232	198	277	227	2,820	313	0.69
	6.30	33.22	42.10	2,420	1,549	7.58	6.07	242	207	289	237	2,947	326	0.68
	8.00	41.70	52.80	2,971	1,894	7.50	5.99	297	253	359	294	3,643	398	0.68
	9.00	46.60	58.90	3,276	2,084	7.46	5.95	328	278	398	325	4,033	437	0.68
	10.00	51.40	64.90	3,568	2,264	7.41	5.91	357	302	436	356	4,409	475	0.67
	12.00	60.90	76.70	4,109	2,596	7.32	5.82	411	346	508	414	5,119	543	0.67
	12.50	63.20	79.60	4,236	2,673	7.30	5.80	424	356	525	428	5,287	559	0.67
250 x 150	6.00	36.40	46.20	3,965	1,796	9.27	6.24	317	239	385	270	3,877	396	0.79
	6.30	38.00	48.40	4,143	1,874	9.25	6.22	331	250	402	283	4,054	413	0.78
	8.00	48.00	60.80	5,111	2,298	9.17	6.15	409	306	501	350	5,021	506	0.78
	10.00	59.30	74.90	6,174	2,755	9.08	6.06	494	367	611	426	6,090	605	0.77
	12.50	73.00	92.10	7,387	3,265	8.96	5.96	591	435	740	514	7,326	717	0.77
	16.00	91.50	115.00	8,879	3,873	8.79	5.80	710	516	906	625	8,868	849	0.76
300 x 100	5.00	30.52	38.70	4,146	731	10.30	4.34	276	146	354	161	2,040	262	0.79
	6.00	36.20	46.20	4,893	854	10.30	4.30	326	171	419	190	2,399	306	0.79
	6.30	38.00	48.40	5,111	890	10.30	4.29	341	178	439	199	2,504	319	0.78
	8.00	48.00	61.10	6,386	1,087	10.20	4.22	426	217	551	247	3,066	387	0.78
	10.00	58.80	74.90	7,613	1,275	10.10	4.13	508	255	666	296	3,676	458	0.77
	12.00	70.30	88.70	8,818	1,447	9.97	4.04	588	289	779	343	4,223	520	0.77
	16.00	91.50	117.00	11,240	1,747	9.82	3.87	749	349	1,008	431	5,142	620	0.77
300 x 200	6.00	45.80	58.20	7,486	4,013	11.30	8.31	499	401	596	451	8,100	651	0.99
	6.30	48.10	61.00	7,829	4,193	11.30	8.29	522	419	624	472	8,476	681	0.98
	8.00	60.50	76.80	9,717	5,184	11.30	8.22	648	518	779	589	10,560	840	0.98
	10.00	75.00	94.90	11,820	6,278	11.20	8.13	788	628	956	721	12,910	1,015	0.97
	12.00	89.15	113.00	13,800	7,294	11.10	8.05	920	729	1,124	847	15,140	1,178	0.97
	12.50	92.60	117.00	14,270	7,537	11.00	8.02	952	754	1,165	877	15,680	1,217	0.97
	16.00	117.00	147.00	17,390	9,109	10.90	7.87	1,159	911	1,441	1,080	19,250	1,468	0.96
300 x 250	6.30	53.00	67.50	9,239	6,984	11.70	10.20	616	559	720	636	12,140	862	1.08
	8.00	66.80	85.10	11,500	8,682	11.60	10.10	767	695	902	796	15,170	1,067	1.08
	10.00	82.80	106.00	14,050	10,580	11.50	10.00	937	847	1,109	978	18,600	1,295	1.07
	12.50	102.00	130.00	17,050	12,810	11.40	9.91	1,137	1,025	1,358	1,196	22,680	1,561	1.07
	16.00	129.00	165.00	20,930	15,670	11.30	9.76	1,395	1,254	1,689	1,485	28,020	1,898	1.06



Hot Finished Rectangular Hollow Sections

(Metric units)

Section Size	Wall Thickness	Unit Weight	Section Area	Second Moment of Area		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Surface Area Per Metre
				Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	J	C	
D x B	t	M	A	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³	cm ⁴	cm ³	m ² /m
mm	mm	kg/m	cm ²	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³	cm ⁴	cm ³	m ² /m
350 x 150	6.30	48.10	61.00	9,551	2,537	12.50	6.44	546	338	680	375	6,383	587	0.97
	8.00	60.50	77.00	11,880	3,125	12.40	6.36	679	417	851	467	7,917	721	0.97
	10.00	75.00	94.90	14,320	3,737	12.30	6.27	818	498	1,035	566	9,633	867	0.97
	12.50	92.60	117.00	17,300	4,450	12.20	6.17	988	593	1,263	686	11,620	1,032	0.97
	16.00	117.00	149.00	21,500	5,386	12.00	6.02	1,229	718	1,586	850	14,110	1,235	0.97
350 x 250	8.00	73.10	93.00	16,560	9,854	13.30	10.30	946	788	1,124	892	19,010	1,255	1.18
	10.00	90.70	116.00	20,270	12,020	13.20	10.20	1,158	963	1,385	1,098	23,330	1,526	1.18
	12.50	112.00	143.00	24,680	14,580	13.10	10.10	1,410	1,166	1,700	1,345	28,490	1,843	1.18
	16.00	142.00	181.00	30,440	17,860	13.00	9.95	1,739	1,429	2,121	1,672	35,280	2,248	1.18
400 x 120	6.30	50.00	63.70	11,880	1,752	13.70	5.24	594	292	766	322	5,035	527	1.03
	8.00	63.10	80.30	14,790	2,146	13.60	5.17	740	358	960	399	6,212	645	1.02
	10.00	78.10	99.50	18,050	2,569	13.50	5.08	903	428	1,180	486	7,501	771	1.02
	12.50	96.60	123.00	21,900	3,040	13.30	4.97	1,095	507	1,444	588	8,973	912	1.01
400 x 150	6.30	53.00	67.50	13,350	2,863	14.10	6.51	667	382	841	420	7,588	673	1.09
	8.00	66.80	85.10	16,630	3,528	14.00	6.44	832	470	1,054	524	9,415	828	1.08
	10.00	82.80	106.00	20,340	4,257	13.90	6.35	1,017	568	1,297	640	11,450	998	1.08
	12.50	102.00	130.00	24,720	5,087	13.80	6.24	1,236	678	1,589	778	13,820	1,191	1.07
	16.00	129.00	165.00	30,400	6,108	13.60	6.09	1,520	814	1,978	957	16,810	1,427	1.06
400 x 200	6.30	57.90	73.60	15,700	5,376	14.60	8.55	785	538	960	594	12,610	917	1.18
	8.00	73.10	92.80	19,560	6,660	14.50	8.47	978	666	1,203	743	15,740	1,135	1.18
	10.00	90.70	115.00	23,910	8,084	14.40	8.39	1,196	808	1,480	911	19,260	1,376	1.17
	12.50	112.00	142.00	29,060	9,738	14.30	8.28	1,453	974	1,813	1,111	23,440	1,656	1.17
	16.00	142.00	179.00	35,740	11,820	14.10	8.13	1,787	1,182	2,256	1,374	28,870	2,010	1.16
400 x 300	8.00	85.70	109.00	25,860	16,620	15.40	12.30	1,293	1,108	1,524	1,252	30,980	1,749	1.37
	10.00	106.00	136.00	31,750	20,360	15.30	12.30	1,587	1,357	1,882	1,544	38,140	2,136	1.37
	12.50	132.00	168.00	38,800	24,800	15.20	12.20	1,940	1,654	2,316	1,898	46,750	2,593	1.37
	16.00	167.00	213.00	48,100	30,620	15.00	12.00	2,405	2,041	2,899	2,371	58,200	3,186	1.37
450 x 250	8.00	85.40	109.00	30,080	12,140	16.60	10.60	1,337	971	1,622	1,081	27,080	1,629	1.38
	10.00	106.00	135.00	36,900	14,820	16.50	10.50	1,640	1,185	2,000	1,331	33,280	1,986	1.37
	12.50	132.00	167.00	45,030	17,970	16.40	10.40	2,001	1,438	2,458	1,631	40,720	2,406	1.37
	16.00	167.00	211.00	55,710	22,040	16.20	10.20	2,476	1,763	3,070	2,029	50,550	2,947	1.36
500 x 200	8.00	85.70	109.00	34,270	8,170	17.70	8.70	1,371	817	1,716	900	21,100	1,430	1.37
	10.00	106.00	135.00	41,760	9,891	17.60	8.60	1,670	989	2,105	1,101	25,870	1,737	1.37
	12.50	132.00	168.00	51,510	12,020	17.50	8.50	2,060	1,202	2,609	1,354	31,480	2,097	1.37
	16.00	167.00	213.00	63,930	14,670	17.30	8.31	2,557	1,467	3,267	1,683	38,830	2,554	1.37
500 x 300	10.00	122.00	155.00	53,760	24,440	18.60	12.60	2,150	1,629	2,595	1,826	52,450	2,696	1.57
	12.50	152.00	192.00	65,810	29,780	18.50	12.50	2,633	1,985	3,196	2,244	64,390	3,281	1.57
	16.00	192.00	243.00	81,780	36,770	18.30	12.30	3,271	2,451	4,005	2,804	80,330	4,044	1.56
	20.00	237.00	302.00	100,100	44,550	18.20	12.10	4,006	2,970	4,942	3,442	97,310	4,845	1.56

Material Spec: EN100219 S275JR / JØ / J2H
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