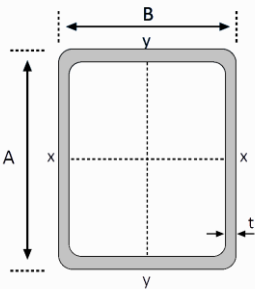


HOT FINISHED RECTANGULAR HOLLOW SECTIONS

Material Specification: EN 100219 S275JR/J0/J2H
EN 100219 S355JR/J0/J2H

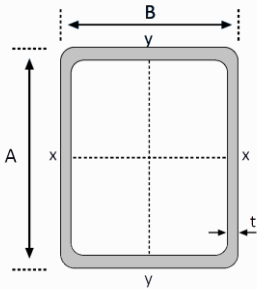


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Radius Of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Surface Area Per Metre
A x B	t	M	A	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	
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	2.5	2.72	3.43	10.4	3.39	1.74	0.994	4.16	2.71	5.33	3.22	8.42	4.61	0.144
	3	3.22	4.04	11.9	3.83	1.72	0.973	4.76	3.06	6.18	3.71	9.64	5.2	0.142
	3.2	3.41	4.28	12.5	3.98	1.71	0.964	4.98	3.18	6.5	3.89	10.1	5.41	0.142
	4	4.07	5.19	14.4	4.48	1.66	0.929	5.75	3.59	7.67	4.54	11.6	6.11	0.14
50 x 30	2.5	2.92	3.68	11.8	5.22	1.79	1.19	4.73	3.48	5.92	4.11	11.7	5.73	0.154
	3	3.45	4.34	13.6	5.94	1.77	1.17	5.43	3.96	6.88	4.76	13.5	6.51	0.152
	3.2	3.66	4.6	14.2	6.2	1.76	1.16	5.68	4.13	7.25	5	14.2	6.8	0.152
	4	4.46	5.59	16.5	7.08	1.72	1.13	6.6	4.72	8.59	5.88	16.6	7.77	0.15
	5	5.4	6.73	18.7	7.89	1.67	1.08	7.49	5.26	10	6.8	19	8.67	0.147
60 x 40	2.5	3.71	4.68	22.8	12.1	2.21	1.6	7.61	6.03	9.32	7.02	25.1	9.73	0.194
	3	4.39	5.54	26.5	13.9	2.18	1.58	8.82	6.95	10.9	8.19	29.2	11.2	0.192
	3.2	4.66	5.88	27.8	14.6	2.18	1.57	9.27	7.29	11.5	8.64	30.8	11.7	0.192
	4	5.72	7.19	32.8	17	2.14	1.54	10.9	8.52	13.8	10.3	36.7	13.7	0.19
	5	6.97	8.73	38.1	19.5	2.09	1.5	12.7	9.77	16.4	12.2	43	15.7	0.187
	6	8.15	10.2	42.3	21.4	2.04	1.45	14.1	10.7	18.6	13.7	48.2	17.3	0.185
	6.3	8.49	10.6	43.4	21.9	2.02	1.44	14.5	11	19.2	14.2	49.5	17.6	0.184
	8	10	12.8	47.9	23.7	1.94	1.36	16	11.9	22.1	16.1	55.4	19.2	0.179
80 x 40	3	5.34	6.74	54.2	18	2.84	1.63	13.6	9	17.1	10.4	43.8	15.3	0.232
	3.2	5.67	7.16	57.2	18.9	2.83	1.63	14.3	9.46	18	11	46.2	16.1	0.232
	4	6.97	8.79	68.2	22.2	2.79	1.59	17.1	11.1	21.8	13.2	55.2	18.9	0.23
	5	8.54	10.7	80.3	25.7	2.74	1.55	20.1	12.9	26.1	15.7	65.1	21.9	0.227
	6	10	12.6	90.5	28.5	2.68	1.5	22.6	14.2	30	17.8	73.4	24.2	0.225
	6.3	10.5	13.1	93.3	29.2	2.67	1.49	23.3	14.6	31.1	18.4	75.6	24.8	0.224
	8	12.8	16	106	32.1	2.58	1.42	26.5	16.1	36.5	21.2	85.8	27.4	0.219
	10	14.9	18.9	115	33.7	2.47	1.33	28.8	16.9	41.3	23.5	92.5	28.9	0.214
80 x 50	3	5.81	7.34	63.1	30.2	2.93	2.03	15.8	12.1	19.4	13.9	64.8	19.7	0.252
	4	7.53	9.59	79.8	37.7	2.88	1.98	19.9	15.1	24.9	17.8	82.6	24.6	0.25
	5	9.33	11.7	94.4	44.1	2.84	1.94	23.6	17.7	29.9	21.3	98.4	28.8	0.247
	6	11	13.8	107	49.5	2.79	1.9	26.8	19.8	34.4	24.4	112	32.3	0.245
	8	14.11	17.6	127	57.4	2.69	1.81	31.7	23	42.2	29.6	135	37.5	0.239
	10	16.4	20.9	140	62.1	2.59	1.72	35	24.8	48.3	33.4	150	40.6	0.234

HOT FINISHED RECTANGULAR HOLLOW SECTIONS

Material Specification: EN 100219 S275JR/J0/J2H
EN 100219 S355JR/J0/J2H

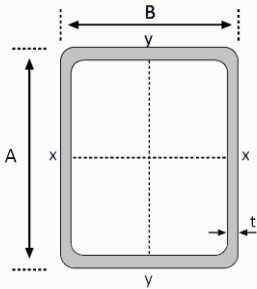


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Radius Of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Surface Area Per Metre
A x B	t	M	A	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	
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
90 x 50	3	6.28	7.94	84.4	33.5	3.26	2.05	18.8	13.4	23.2	15.3	76.5	22.4	0.272
	3.2	6.63	8.44	89.1	35.3	3.25	2.04	19.8	14.1	24.6	16.2	80.9	23.6	0.272
	3.6	7.46	9.42	98.3	38.7	3.23	2.03	21.8	15.5	27.2	18	89.4	25.9	0.271
	4	8.15	10.4	107	41.9	3.21	2.01	23.8	16.8	29.8	19.6	97.5	28	0.27
	5	10.1	12.7	127	49.2	3.16	1.97	28.3	19.7	36	23.5	116	32.9	0.267
	6	11.9	15	145	55.4	3.11	1.92	32.2	22.1	41.6	27	133	37	0.265
	6.3	12.5	15.6	150	57	3.1	1.91	33.3	22.8	43.2	28	138	38.1	0.264
	8	15.3	19.2	174	64.6	3.01	1.84	38.6	25.8	51.4	32.9	160	43.2	0.259
	10	18	22.9	194	70.2	2.91	1.75	43	28.1	59.3	37.4	179	47.1	0.254
100 x 50	3	6.75	8.54	110	36.8	3.58	2.08	21.9	14.7	27.3	16.8	88.4	25	0.292
	3.2	7.18	9.08	116	38.8	3.57	2.07	23.2	15.5	28.9	17.7	93.4	26.4	0.292
	4	8.86	11.2	140	46.2	3.53	2.03	27.9	18.5	35.2	21.5	113	31.4	0.29
	5	10.9	13.7	167	54.3	3.48	1.99	33.3	21.7	42.6	25.8	135	36.9	0.287
	6	12.9	16.2	190	61.2	3.43	1.95	38.1	24.5	49.4	29.7	154	41.6	0.285
	6.3	13.4	16.9	197	63	3.42	1.93	39.4	25.2	51.3	30.8	160	42.9	0.284
	8	16.6	20.8	230	71.7	3.33	1.86	46	28.7	61.4	36.3	186	48.9	0.279
	10	19.6	24.9	259	78.4	3.22	1.77	51.8	31.4	71.2	41.4	209	53.6	0.274
100 x 60	3	7.22	9.14	124	55.7	3.68	2.47	24.7	18.6	30.2	21.2	121	30.7	0.312
	3.6	8.59	10.9	145	64.8	3.65	2.44	28.9	21.6	35.6	24.9	142	35.6	0.311
	5	11.7	14.7	189	83.6	3.58	2.38	37.8	27.9	47.4	32.9	188	45.9	0.307
	6	13.8	17.4	217	95	3.53	2.34	43.4	31.7	55.1	38.1	216	52.1	0.305
	6.3	14.4	18.1	225	98.1	3.52	2.33	45	32.7	57.3	39.5	224	53.8	0.304
	8	17.8	22.4	264	113	3.44	2.25	52.8	37.8	68.7	47.1	265	62.2	0.299
120 x 60	3.6	9.72	12.3	227	76.3	4.3	2.49	37.9	25.4	47.2	28.9	183	43.3	0.351
	4	10.7	13.6	249	83.1	4.28	2.47	41.5	27.7	51.9	31.7	201	47.1	0.35
	5	13.3	16.7	299	98.8	4.23	2.43	49.9	32.9	63.1	38.4	242	56	0.347
	6	15.7	19.8	345	113	4.18	2.39	57.5	37.5	73.6	44.5	279	63.8	0.345
	6.3	16.4	20.7	358	116	4.16	2.37	59.7	38.8	76.7	46.3	290	65.9	0.344
	8	20.4	25.6	425	135	4.08	2.3	70.8	45	92.7	55.4	344	76.6	0.339
	10	24.3	30.9	488	152	3.97	2.21	81.4	50.5	109.2	64.4	396	86.1	0.334

HOT FINISHED RECTANGULAR HOLLOW SECTIONS

Material Specification: EN 100219 S275JR/J0/J2H
EN 100219 S355JR/J0/J2H

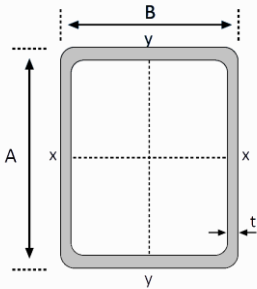


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Radius Of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Surface Area Per Metre
A x B	t	M	A	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	
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
120 x 80	5	14.8	18.7	365	193	4.42	3.21	60.9	48.2	74.6	56.1	401	77.9	0.387
	6	17.6	22.2	423	222	4.37	3.17	70.6	55.6	87.3	65.5	468	89.6	0.385
	6.3	18.4	23.2	440	230	4.36	3.15	73.3	57.6	91	68.2	487	92.9	0.384
	8	22.9	28.8	525	273	4.27	3.08	87.5	68.1	111	82.6	587	110	0.379
	10	27.9	34.9	609	313	4.18	2.99	102	78.1	131	97.3	688	126	0.374
150 x 100	5	18.7	23.7	739	392	5.58	4.07	98.5	78.5	119	90.1	807	127	0.487
	6	22.3	28.2	862	456	5.53	4.02	115	91.2	141	106	946	147	0.485
	6.3	23.3	29.5	898	474	5.52	4.01	120	94.8	147	110	986	153	0.484
	8	29.1	36.8	1087	569	5.44	3.94	145	114	180	135	1203	183	0.479
	10	35.7	44.9	1282	665	5.34	3.85	171	133	216	161	1432	214	0.474
	12	41.4	52.7	1450	745	5.25	3.76	193	149	249	185	1633	240	0.469
	12.5	42.8	54.6	1488	763	5.22	3.74	198	153	256	190	1679	246	0.468
160 x 80	4.5	16.24	20.6	679	229	5.75	3.33	84.9	57.1	106	64.8	547	97.2	0.468
	5	18	22.7	744	249	5.72	3.31	93	62.3	116	71.1	600	106	0.467
	6	21.3	27	868	288	5.67	3.27	108	72	136	83.3	701	122	0.465
	6.3	22.3	28.2	903	299	5.66	3.26	113	74.8	142	86.8	730	127	0.464
	8	27.9	35.2	1091	356	5.57	3.18	136	89	175	106	883	151	0.459
	10	34.2	42.9	1284	411	5.47	3.1	161	103	209	125	1041	175	0.454
	12	39.5	50.3	1449	455	5.37	3.01	181	114	240	142	1175	194	0.449
	12.5	41.6	52.1	1485	465	5.34	2.99	186	116	247	146	1204	198	0.448
200 x 100	5	22.6	28.7	1495	505	7.21	4.19	149	101	185	114	1204	172	0.587
	6	27	34.2	1754	589	7.16	4.15	175	118	218	134	1414	200	0.585
	6.3	28.3	35.8	1829	613	7.15	4.14	183	123	228	140	1475	208	0.584
	8	35.4	44.8	2234	739	7.06	4.06	223	148	282	172	1804	251	0.579
	10	43.6	54.9	2664	869	6.96	3.98	266	174	341	206	2156	295	0.574
	12	50.8	64.7	3047	979	6.86	3.89	305	196	395	237	2469	333	0.569
	12.5	53.4	67.1	3136	1004	6.84	3.87	314	201	408	245	2541	341	0.568
	16	66.4	83	3678	1147	6.66	3.72	368	229	491	290	2982	391	0.559

HOT FINISHED RECTANGULAR HOLLOW SECTIONS

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EN 100219 S355JR/J0/J2H

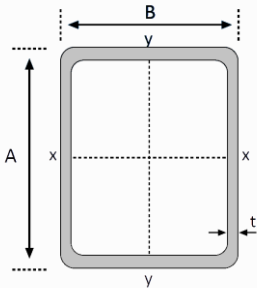


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Radius Of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Surface Area Per Metre
A x B	t	M	A	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	
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 120	5	24.1	30.7	1690	762	7.4	4.98	168	127	205	144	1650	210	0.627
	6.3	30.1	38.3	2070	929	7.34	4.92	207	155	253	177	2030	255	0.624
	8	37.6	48	2530	1130	7.26	4.85	253	188	313	218	2490	310	0.619
	10	46.3	58.9	3030	1340	7.17	4.76	303	223	379	263	3000	367	0.614
	12.5	55.7	71.7	3468	1524	6.99	4.63	347	254	444	308	3568	426	0.608
	16	71.38	89.4	4221	1813	6.87	4.5	422	302	550	377	4247	497	0.599
200 x 150	6	31.7	40.2	2318	1485	7.6	6.08	232	198	277	227	2820	313	0.685
	6.3	33.22	42.1	2420	1549	7.58	6.07	242	207	289	237	2947	326	0.684
	8	41.7	52.8	2971	1894	7.5	5.99	297	253	359	294	3643	398	0.679
	9	46.6	58.9	3276	2084	7.46	5.95	328	278	398	325	4033	437	0.677
	10	51.4	64.9	3568	2264	7.41	5.91	357	302	436	356	4409	475	0.674
	12	60.9	76.7	4109	2596	7.32	5.82	411	346	508	414	5119	543	0.669
	12.5	63.2	79.6	4236	2673	7.3	5.8	424	356	525	428	5287	559	0.668
250 x 150	6	36.4	46.2	3965	1796	9.27	6.24	317	239	385	270	3877	396	0.785
	6.3	38	48.4	4143	1874	9.25	6.22	331	250	402	283	4054	413	0.784
	8	48	60.8	5111	2298	9.17	6.15	409	306	501	350	5021	506	0.779
	10	59.3	74.9	6174	2755	9.08	6.06	494	367	611	426	6090	605	0.774
	12.5	73	92.1	7387	3265	8.96	5.96	591	435	740	514	7326	717	0.768
	16	91.5	115	8879	3873	8.79	5.8	710	516	906	625	8868	849	0.759
300 x 100	5	30.52	38.7	4146	731	10.3	4.34	276	146	354	161	2040	262	0.787
	6	36.2	46.2	4893	854	10.3	4.3	326	171	419	190	2399	306	0.785
	6.3	38	48.4	5111	890	10.3	4.29	341	178	439	199	2504	319	0.784
	8	48	61.1	6386	1087	10.2	4.22	426	217	551	247	3066	387	0.78
	10	58.8	74.9	7613	1275	10.1	4.13	508	255	666	296	3676	458	0.774
	12	70.3	88.7	8818	1447	9.97	4.04	588	289	779	343	4223	520	0.769
	16	91.5	117	11240	1747	9.82	3.87	749	349	1008	431	5142	620	0.769

HOT FINISHED RECTANGULAR HOLLOW SECTIONS

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EN 100219 S355JR/J0/J2H

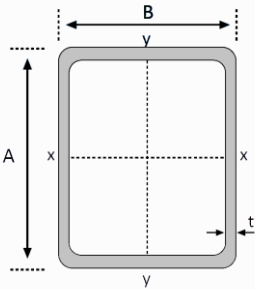


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Radius Of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Surface Area Per Metre
A x B	t	M	A	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	
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
300 x 200	6	45.8	58.2	7486	4013	11.3	8.31	499	401	596	451	8100	651	0.985
	6.3	48.1	61	7829	4193	11.3	8.29	522	419	624	472	8476	681	0.984
	8	60.5	76.8	9717	5184	11.3	8.22	648	518	779	589	10560	840	0.979
	10	75	94.9	11820	6278	11.2	8.13	788	628	956	721	12910	1015	0.974
	12	89.15	113	13800	7294	11.1	8.05	920	729	1124	847	15140	1178	0.969
	12.5	92.6	117	14270	7537	11	8.02	952	754	1165	877	15680	1217	0.968
	16	117	147	17390	9109	10.9	7.87	1159	911	1441	1080	19250	1468	0.959
300 x 250	6.3	53	67.5	9239	6984	11.7	10.2	616	559	720	636	12140	862	1.082
	8	66.8	85.1	11500	8682	11.6	10.1	767	695	902	796	15170	1067	1.077
	10	82.8	106	14050	10580	11.5	10	937	847	1109	978	18600	1295	1.071
	12.5	102	130	17050	12810	11.4	9.91	1137	1025	1358	1196	22680	1561	1.065
	16	129	165	20930	15670	11.3	9.76	1395	1254	1689	1485	28020	1898	1.055
350 x 150	6.3	48.1	61	9551	2537	12.5	6.44	546	338	680	375	6383	587	0.974
	8	60.5	77	11880	3125	12.4	6.36	679	417	851	467	7917	721	0.974
	10	75	94.9	14320	3737	12.3	6.27	818	498	1035	566	9633	867	0.974
	12.5	92.6	117	17300	4450	12.2	6.17	988	593	1263	686	11620	1032	0.968
	16	117	149	21500	5386	12	6.02	1229	718	1586	850	14110	1235	0.968
350 x 250	8	73.1	93	16560	9854	13.3	10.3	946	788	1124	892	19010	1255	1.18
	10	90.7	116	20270	12020	13.2	10.2	1158	963	1385	1098	23330	1526	1.18
	12.5	112	143	24680	14580	13.1	10.1	1410	1166	1700	1345	28490	1843	1.18
	16	142	181	30440	17860	13	9.95	1739	1429	2121	1672	35280	2248	1.18
400 x 120	6.3	50	63.7	11880	1752	13.7	5.24	594	292	766	322	5035	527	1.03
	8	63.1	80.3	14790	2146	13.6	5.17	740	358	960	399	6212	645	1.02
	10	78.1	99.5	18050	2569	13.5	5.08	903	428	1180	486	7501	771	1.02
	12.5	96.6	123	21900	3040	13.3	4.97	1095	507	1444	588	8973	912	1.01
400 x 150	6.3	53	67.5	13350	2863	14.1	6.51	667	382	841	420	7588	673	1.09
	8	66.8	85.1	16630	3528	14	6.44	832	470	1054	524	9415	828	1.08
	10	82.8	106	20340	4257	13.9	6.35	1017	568	1297	640	11450	998	1.08
	12.5	102	130	24720	5087	13.8	6.24	1236	678	1589	778	13820	1191	1.07
	16	129	165	30400	6108	13.6	6.09	1520	814	1978	957	16810	1427	1.06

HOT FINISHED RECTANGULAR HOLLOW SECTIONS

Material Specification: EN 100219 S275JR/J0/J2H
EN 100219 S355JR/J0/J2H



(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Radius Of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Surface Area Per Metre
A x B	t	M	A	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	
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
400 x 200	6.3	57.9	73.6	15700	5376	14.6	8.55	785	538	960	594	12610	917	1.18
	8	73.1	92.8	19560	6660	14.5	8.47	978	666	1203	743	15740	1135	1.18
	10	90.7	115	23910	8084	14.4	8.39	1196	808	1480	911	19260	1376	1.17
	12.5	112	142	29060	9738	14.3	8.28	1453	974	1813	1111	23440	1656	1.17
	16	142	179	35740	11820	14.1	8.13	1787	1182	2256	1374	28870	2010	1.16
400 x 300	8	85.7	109	25860	16620	15.4	12.3	1293	1108	1524	1252	30980	1749	1.37
	10	106	136	31750	20360	15.3	12.3	1587	1357	1882	1544	38140	2136	1.37
	12.5	132	168	38800	24800	15.2	12.2	1940	1654	2316	1898	46750	2593	1.37
	16	167	213	48100	30620	15	12	2405	2041	2899	2371	58200	3186	1.37
450 x 250	8	85.4	109	30080	12140	16.6	10.6	1337	971	1622	1081	27080	1629	1.38
	10	106	135	36900	14820	16.5	10.5	1640	1185	2000	1331	33280	1986	1.37
	12.5	132	167	45030	17970	16.4	10.4	2001	1438	2458	1631	40720	2406	1.37
	16	167	211	55710	22040	16.2	10.2	2476	1763	3070	2029	50550	2947	1.36
500 x 200	8	85.7	109	34270	8170	17.7	8.7	1371	817	1716	900	21100	1430	1.37
	10	106	135	41760	9891	17.6	8.6	1670	989	2105	1101	25870	1737	1.37
	12.5	132	168	51510	12020	17.5	8.5	2060	1202	2609	1354	31480	2097	1.37
	16	167	213	63930	14670	17.3	8.31	2557	1467	3267	1683	38830	2554	1.37
500 x 300	10	122	155	53760	24440	18.6	12.6	2150	1629	2595	1826	52450	2696	1.57
	12.5	152	192	65810	29780	18.5	12.5	2633	1985	3196	2244	64390	3281	1.57
	16	192	243	81780	36770	18.3	12.3	3271	2451	4005	2804	80330	4044	1.56
	20	237	302	100100	44550	18.2	12.1	4006	2970	4942	3442	97310	4845	1.55