

## ACAR-IEC61089

Aluminum Conductor Aluminum Alloy Reinforced Characteristics of Aluminum  
Conductor Aluminum-Alloy Reinforced

Code Number (mm <sup>2</sup> )	Number of Wires		A1/A2 Conductor				Max.D.C. Resistance of Conductor at 20°C ohm/km
	Al	Alloy	Dia.Of Wires mm	Dia.of Conductor mm	Approx. Weight kg/km	Rated Strength kN	
	-	-	mm	mm	kg/km	kN	ohm/km
16	4	3	1.76	5.28	46.6	3.85	1.7896
25	4	3	2.2	6.6	72.8	5.93	1.1453
40	4	3	2.78	8.35	116.5	9.25	0.7158
63	4	3	3.49	10.5	183.5	14.38	0.4545
100	4	3	4.4	13.2	291.2	22.52	0.2863
125	12	7	2.97	14.9	362.7	27.79	0.2302
160	12	7	3.36	16.8	464.2	35.04	0.1798
200	12	7	3.76	18.8	580.3	43.13	0.1439
250	12	7	4.21	21	725.3	53.92	0.1151
250	18	19	3.04	21.3	742.2	60.39	0.1154
315	30	7	3.34	23.4	892.6	60.52	0.0916
315	18	19	3.42	23.9	935.1	76.09	0.0916
400	30	7	3.76	26.3	1133.5	75.19	0.0721
400	18	19	3.85	27	1187.5	95.58	0.0721
450	30	7	3.99	27.9	1275.2	84.59	0.0641
450	18	19	4.08	28.6	1335.9	107.52	0.0641
500	30	7	4.21	29.4	1416.9	93.98	0.0577
500	18	19	4.31	30.1	1484.3	119.47	0.0577
560	30	7	4.45	31.2	1586.9	105.26	0.0515
560	54	7	3.45	31	1571.9	101.54	0.0516
630	42	19	3.71	33.4	1820	130.25	0.0458
630	24	37	3.79	34.1	1897.5	160.19	0.0458
710	42	19	3.94	35.5	2051.2	146.78	0.0407
710	24	37	4.02	36.2	2138.4	180.53	0.0407
800	42	19	4.18	37.6	2311.2	165.39	0.0361
800	24	37	4.27	38.4	2409.5	203.41	0.0361
900	42	19	4.43	39.9	2600.1	186.06	0.0321
900	54	37	3.66	40.2	2638.4	199.54	0.0321
1000	72	19	3.8	41.8	2849.1	190.94	0.0289
1000	54	37	3.85	42.4	2931.6	221.71	0.0289
1120	72	19	4.02	44.2	3191	213.85	0.0258
1120	54	37	4.08	44.9	3283.4	248.32	0.0258
1250	72	19	4.25	46.7	3561.4	238.68	0.0231
1250	54	37	4.31	47.4	3664.5	277.14	0.0231
1400	72	19	4.5	49.4	3988.8	267.32	0.0207
Code Number (mm <sup>2</sup> )	Number of Wires		A1/A3 Conductor				Max.D.C. Resistance of Conductor at 20°C ohm/km
	Al	Alloy	Dia.Of Wires mm	Dia.of Conductor mm	Approx. Weight kg/km	Rated Strength kN	
	-	-	mm	mm	kg/km	kN	ohm/km
16	4	3	1.76	5.29	46.8	4.07	1.7896

25	4	3	2.21	6.62	73.1	6.29	1.1453
40	4	3	2.79	8.37	117	9.82	0.7158
63	4	3	3.5	10.5	184.3	14.8	0.4545
100	4	3	4.41	13.2	292.5	23.49	0.2863
125	12	7	2.98	14.9	364.1	29.29	0.2302
160	12	7	3.37	16.9	466	36.95	0.1798
200	12	7	3.77	18.8	582.5	44.78	0.1439
250	12	7	4.21	21.1	728.1	55.98	0.1151
250	18	19	3.05	21.4	746	64.67	0.1154
315	30	7	3.34	23.4	894.4	62.4	0.0916
315	18	19	3.43	24	940	81.48	0.0916
400	30	7	3.77	26.4	1135.8	76.82	0.0721
400	18	19	3.86	27	1193.7	100.3	0.0721
450	30	7	3.99	28	1277.8	86.42	0.0641
450	18	19	4.1	28.7	1342.9	112.84	0.0641
500	30	7	4.21	29.5	1419.8	96.03	0.0577
500	18	19	4.32	30.2	1492.1	125.38	0.0577
560	30	7	4.46	31.2	1590.1	107.55	0.0515
560	54	7	3.45	31.1	1573.9	103.53	0.0516
630	42	19	3.72	33.4	1826	134.59	0.0458
630	24	37	3.8	34.2	1909	169.14	0.0458
710	42	19	3.95	35.5	2057.8	151.68	0.0407
710	24	37	4.03	36.3	2151.4	190.61	0.0407
800	42	19	4.19	37.7	2318.7	170.9	0.0361
800	24	37	4.28	38.5	2424.2	214.78	0.0361
900	42	19	4.44	40	2608.5	192.27	0.0321
900	54	37	3.66	40.3	2649.5	207.79	0.0321
1000	72	19	3.8	41.8	2855.4	195.47	0.0289
1000	54	37	3.86	42.5	2943.9	230.88	0.0289
1120	72	19	4.02	44.3	3198.1	218.92	0.0258
1120	54	37	4.09	45	3297.2	258.58	0.0258
1250	72	19	4.25	46.8	3569.3	244.33	0.0231
1250	54	37	4.32	47.5	3679.9	288.6	0.0231
1400	72	19	4.5	49.5	3997.6	273.65	0.0207

## Continued Specification Table Of ACAR ASTM B524

Conductor Size		Wire Dia		Overall Diameter		1350-H19 Aluminum		
						Wire	Weight	
Kcmil	mm <sup>2</sup>	in.	mm	in.	mm	NO.	Lbs / 1000f	kg/km
650	329	0.1325	3.366	0.928	23.56	18	296	440
700	355	0.1375	3.493	0.962	24.45	18	319	475
739.8	375	0.1414	3.592	0.9898	25.14	18	338	503
750	380	0.1424	3.617	0.997	25.32	18	342	509
800	405	0.147	3.734	1.029	26.14	18	365	543
850	431	0.1516	3.851	1.061	26.96	18	388	577
900	456	0.156	3.962	1.092	27.73	18	411	611
950	481	0.1602	4.069	1.121	28.48	18	433	644
1000	507	0.1644	4.176	1.151	29.23	18	456	678
1080.6	548	0.1709	4.341	1.1963	30.39	18	494	735
1100	557	0.1724	4.379	1.207	30.65	18	501	746
1172	594	0.178	4.521	1.2458	31.64	18	536	797
1200	608	0.1801	4.575	1.261	32.02	18	547	814
1250	633	0.1838	4.669	1.287	32.7	18	570	848
1300	659	0.1874	4.76	1.312	33.32	18	593	882
500	253	0.1162	2.951	0.813	20.66	24	304	452
550	279	0.1219	3.096	0.853	21.67	24	334	497
600	304	0.1273	3.233	0.891	22.63	24	365	542
650	329	0.1325	3.366	0.928	23.56	24	395	588
700	355	0.1375	3.493	0.962	24.45	24	425	632
750	380	0.1424	3.617	0.997	25.32	24	456	679
800	405	0.147	3.734	1.029	26.14	24	486	723
850	431	0.1516	3.851	1.061	26.96	24	517	769
853.7	433	0.1519	3.858	1.0633	27.01	24	520	774
900	456	0.156	3.962	1.092	27.73	24	547	814
927.2	470	0.1583	4.021	1.1081	28.15	24	565	841
950	481	0.1602	4.069	1.121	28.48	24	577	858
1000	507	0.1644	4.176	1.151	29.23	24	608	905
1024.5	519	0.1664	4.227	1.1648	29.59	24	624	929
1080.6	548	0.1709	4.341	1.1963	30.39	24	658	980
1100	557	0.1724	4.379	1.207	30.65	24	669	995
1109	562	0.1731	4.397	1.2119	30.78	24	676	1006
1198	607	0.1799	4.57	1.2596	31.99	24	730	1086
1200	608	0.1801	4.575	1.261	32.02	24	730	1086
1250	633	0.1838	4.669	1.287	32.7	24	760	1131
1300	659	0.1874	4.76	1.312	33.32	24	790	1176
Kcmil	6201-T81 Aluminum-Alloy			Total	Total Weight		Rated Strength	

	Wire	Weight		Wire No.	Weight		Strength	
	No.	Lbs / 1000f	kg/km		Lbs / 1000f	kg/km	kips	kN
650	19	311	463	37	607	903	16.6	73.8
700	19	335	498	37	654	973	17.9	79.5
739.8	19	355	528	37	693	1031	18.8	83.5
750	19	359	534	37	701	1043	19	84.7
800	19	383	570	37	748	1113	20.3	90.3
850	19	407	606	37	795	1183	21.4	95.3
900	19	431	642	37	842	1253	22.7	101
950	19	455	677	37	888	1321	23.9	106
1000	19	479	713	37	935	1391	25.2	112
1080.6	19	518	771	37	1012	1506	27.2	121
1100	19	547	784	37	1028	1530	27.7	123
1172	19	562	837	37	1098	1634	29.5	131
1200	19	575	855	37	1122	1669	30.3	135
1250	19	598	890	37	1168	1738	31.5	140
1300	19	622	926	37	1215	1808	32.7	146
500	13	164	244	37	468	696	11.7	52.9
550	13	180	268	37	514	765	12.9	57.6
600	13	196	292	37	561	834	14.1	62.8
650	13	213	317	37	608	905	15	66.6
700	13	229	341	37	654	973	16.1	71.8
750	13	246	366	37	702	1045	17.1	76.2
800	13	262	390	37	748	1113	18.2	81.2
850	13	279	415	37	796	1184	19.2	85.4
853.7	13	280	417	37	800	1191	19.3	85.8
900	13	295	439	37	842	1253	20.3	90.5
927.2	13	304	453	37	869	1294	20.9	93.2
950	13	311	463	37	888	1321	21.4	95.4
1000	13	328	488	37	936	1393	22.6	101
1024.5	13	336	500	37	961	1430	23.1	103
1080.6	13	355	528	37	1013	1508	24.4	109
1100	13	360	536	37	1029	1531	24.8	111
1109	13	364	542	37	1040	1547	25	111
1198	13	393	585	37	1123	1672	27.1	120
1200	13	393	585	37	1123	1671	27.1	121
1250	13	410	610	37	1170	1741	28.2	126
1300	13	426	633	37	1216	1809	29.3	131

## ACAR-ASTM B524

Aluminum Conductor Aluminum Alloy Reinforced Continued Specification Table Of  
ACAR ASTM B524

Conductor Size		Wire Dia		Overall Diameter		1350-H19 Aluminum		
						Wire	Weight	
Kcmil	mm <sup>2</sup>	in.	mm	in.	mm	NO.	Lbs / 1000f	kg/km
500	253	0.1162	2.951	0.813	20.66	30	380	565
550	279	0.1219	3.096	0.853	21.67	30	418	622
600	304	0.1273	3.233	0.891	22.63	30	456	678
650	329	0.1325	3.366	0.928	23.56	30	494	735
700	355	0.1375	3.493	0.962	24.45	30	532	791
750	380	0.1424	3.617	0.997	25.32	30	570	848
800	405	0.147	3.734	1.029	26.14	30	608	904
850	431	0.1516	3.851	1.061	26.96	30	646	962
853.7	433	0.1519	3.858	1.0633	27.01	30	650	968
900	456	0.156	3.962	1.092	27.73	30	684	1018
950	481	0.1602	4.069	1.121	28.48	30	722	1074
1000	507	0.1644	4.176	1.151	29.23	30	760	1131
1024.5	519	0.1664	4.227	1.1648	29.59	30	780	1161
1100	557	0.1724	4.379	1.207	30.65	30	836	1244
1109	562	0.1731	4.397	1.2119	30.78	30	845	1257
1172	594	0.178	4.521	1.2458	31.64	30	893	1329
1198	607	0.1799	4.57	1.2596	31.99	30	913	1358
1200	608	0.1801	4.575	1.261	32.02	30	912	1357
1250	633	0.1838	4.669	1.287	32.7	30	950	1413
1300	659	0.1874	4.76	1.312	33.32	30	988	1469
500	253	0.1162	2.951	0.813	20.66	33	418	621
550	279	0.1219	3.096	0.853	21.67	33	460	684
600	304	0.1273	3.233	0.891	22.63	33	501	746
650	329	0.1325	3.366	0.928	23.56	33	543	808
700	355	0.1375	3.493	0.962	24.45	33	585	870
750	380	0.1424	3.617	0.997	25.32	33	627	933
800	405	0.147	3.734	1.029	26.14	33	668	994
850	431	0.1516	3.851	1.061	26.96	33	711	1058
900	456	0.156	3.962	1.092	27.73	33	753	1120
950	481	0.1602	4.069	1.121	28.48	33	794	1181
1000	507	0.1644	4.176	1.151	29.23	33	836	1244
1100	557	0.1724	4.379	1.207	30.65	33	919	1367
1200	608	0.1801	4.575	1.261	32.02	33	1003	1493
1250	633	0.1838	4.669	1.287	32.7	33	1045	1555
1300	659	0.1874	4.76	1.312	33.32	33	1086	1616
1000	507	0.128	3.251	1.152	29.26	33	507	754
Conductor Size	6201-T81 Aluminum-Alloy			Total Wire No.	Total Weight	Rated Strength		
	Wire	Weight						

Kcmil	No.	Lbs / 1000f	kg/km		Lbs / 1000f	kg/km	kips	kN
500	7	88.1	131	37	468	696	10.8	48
550	7	97	144	37	515	766	11.7	52.1
600	7	106	158	37	562	836	12.8	56.8
650	7	115	171	37	609	906	13.7	60.8
700	7	123	184	37	655	975	14.7	65.5
750	7	132	197	37	702	1045	15.6	69.2
800	7	141	210	37	749	1114	16.6	73.8
850	7	150	223	37	796	1185	17.4	77.3
853.7	7	151	225	37	801	1192	17.5	77.6
900	7	159	236	37	843	1254	18.4	81.9
950	7	167	249	37	889	1323	19.4	86.4
1000	7	176	262	37	936	1393	20.4	91
1024.5	7	181	269	37	961	1431	20.9	93.2
1100	7	194	289	37	1030	1533	22.5	100
1109	7	196	292	37	1041	1549	22.7	101
1172	7	207	308	37	1100	1637	24	107
1198	7	212	315	37	1124	1673	24.5	109
1200	7	212	315	37	1124	1672	24.5	109
1250	7	220	328	37	1170	1741	25.6	114
1300	7	229	341	37	1217	1810	26.6	118
500	4	50.4	74.9	37	468	696	10	44.4
550	4	55.4	82.6	37	515	767	10.8	48.1
600	4	60.4	89.9	37	561	835	11.8	52.4
650	4	65.5	97.4	37	608	905	12.7	56.3
700	4	70.5	105	37	656	975	13.6	60.7
750	4	75.6	112	37	703	1045	14.5	64
800	4	80.6	120	37	749	1114	15.3	68.2
850	4	85.7	127	37	796	1185	16	71.3
900	4	90.8	135	37	844	1255	17	75.5
950	4	95.7	142	37	890	1323	17.5	79.7
1000	4	101	150	37	937	1394	18.9	83.9
1100	4	111	165	37	1030	1532	20.7	92.3
1200	4	121	180	37	1124	1673	22.6	101
1250	4	126	187	37	1171	1742	23.6	105
1300	4	131	195	37	1217	1811	24.5	109
1000	28	428	657	61	935	1391	24.8	110

## Continued Specification Table of ACAR ASTM B524

Conductor Size		Wire Dia		Overall Diameter		1350-H19 Aluminum		
						Wire	Weight	
Kcmil	mm <sup>2</sup>	in.	mm	in.	mm	NO.	Lbs / 1000f	kg/km
1100	557	0.1343	3.411	1.209	30.7	33	558	830
1200	608	0.1403	3.564	1.263	32.08	33	609	906
1250	633	0.1431	3.635	1.288	32.72	33	633	942
1300	659	0.146	3.708	1.314	33.37	33	659	981
1400	709	0.1515	3.848	1.364	34.63	33	710	1056
1500	760	0.1568	3.983	1.411	35.85	33	760	1131
1600	811	0.162	4.115	1.458	37.04	33	812	1208
1700	861	0.1669	4.239	1.502	38.15	33	862	1282
1750	887	0.1694	4.303	1.525	38.73	33	888	1321
1800	912	0.1718	4.364	1.546	39.28	33	913	1358
1900	963	0.1765	4.483	1.588	40.35	33	964	1434
2000	1013	0.1811	4.6	1.63	41.4	33	1014	1509
1000	507	0.128	3.251	1.152	29.26	42	645	960
1100	557	0.1343	3.411	1.209	30.7	42	710	1056
1200	608	0.1403	3.564	1.263	32.08	42	775	1153
1250	633	0.1431	3.635	1.288	32.72	42	806	1199
1277	647	0.1447	3.675	1.3022	33.08	42	826	1229
1300	659	0.146	3.708	1.314	33.37	42	839	1249
1400	709	0.1515	3.848	1.364	34.63	42	904	1344
1500	760	0.1568	3.983	1.411	35.85	42	968	1440
1534.4	777	0.1586	4.028	1.4274	36.26	42	993	1477
1600	811	0.162	4.115	1.458	37.04	42	1033	1537
1700	861	0.1669	4.239	1.502	38.15	42	1097	1632
1750	887	0.1694	4.303	1.525	38.73	42	1130	1681
1798	911	0.1717	4.361	1.5452	39.25	42	1163	1731
1800	912	0.1718	4.364	1.546	39.28	42	1162	1729
1900	963	0.1765	4.483	1.588	40.35	42	1226	1825
1933	979	0.178	4.522	1.6021	40.69	42	1250	1861
2000	1013	0.1811	4.6	1.63	41.4	42	1291	1921
2338	1185	0.1958	4.973	1.762	44.75	42	1527	2273
1000	507	0.128	3.251	1.152	29.26	48	737	1097
1100	557	0.1343	3.411	1.209	30.7	48	811	1207
1200	608	0.1403	3.564	1.263	32.08	48	886	1318
1250	633	0.1431	3.635	1.288	32.72	48	921	1371
1300	659	0.146	3.708	1.314	33.37	48	959	1427
1400	709	0.1515	3.848	1.364	34.63	48	1033	1536

Conductor Size	6201-T81 Aluminum-Alloy			Total Wire No.	Total Weight		Rated Strength	
	Wire	Weight			Lbs / 1000f	kg/km	kips	kN
	Kcmil	No.	Lbs / 1000f					
1100	28	471	701	61	1029	1531	26.6	119
1200	28	514	765	61	1123	1671	28.8	128
1250	28	535	796	61	1168	1738	30	133
1300	28	557	828	61	1216	1809	31.2	139
1400	28	599	892	61	1309	1948	33.4	148
1500	28	642	955	61	1402	2086	35.7	159
1600	28	685	1020	61	1497	2228	38.1	160
1700	28	727	1082	61	1589	2364	40.5	180
1750	28	749	1115	61	1637	2436	41.7	186
1800	28	771	1147	61	1684	2505	42.9	191
1900	28	813	1210	61	1777	2644	45.3	201
2000	28	856	1274	61	1870	2783	47.7	212
1000	19	290	431	61	935	1391	22.9	102
1100	19	319	475	61	1029	1531	24.8	110
1200	19	349	519	61	1124	1672	26.7	119
1250	19	363	540	61	1169	1739	27.8	124
1277	19	372	553	61	1198	1782	28.4	126
1300	19	378	562	61	1217	1811	29	129
1400	19	407	605	61	1311	1950	30.8	137
1500	19	436	649	61	1404	2089	33	147
1534.4	19	446	664	61	1439	2141	33.8	150
1600	19	465	692	61	1498	2229	35.2	157
1700	19	494	735	61	1591	2367	37.4	166
1750	19	508	757	61	1638	2438	38.5	171
1798	19	523	779	61	1686	2509	39.6	176
1800	19	523	778	61	1685	2507	39.6	176
1900	19	552	821	61	1778	2646	41.8	186
1933	19	562	837	61	1813	2698	42.5	189
2000	19	581	865	61	1872	2786	44	196
2338	19	687	1022	61	2214	3295	51.5	229
1000	13	199	296	61	936	1393	21.1	94.1
1100	13	219	326	61	1030	1533	23	102
1200	13	239	355	61	1125	1673	24.7	110
1250	13	248	369	61	1169	1740	25.7	114
1300	13	258	384	61	1217	1811	26.8	119
1400	13	278	414	61	1311	1950	28.4	126



## ACAR –ASTM B524 Aluminum Alloy Reinforced Specification Table

Conductor Size		Wire Dia		Overall Diameter		1350-H19 Aluminum		
						Wire	Weight	
Kcmil	mm <sup>2</sup>	in.	mm	in.	mm	NO.	Lbs / 1000f	kg/km
1500	760	0.1568	3.983	1.411	35.85	48	1106	1646
1600	811	0.162	4.115	1.458	37.04	48	1181	1757
1700	861	0.1669	4.239	1.502	38.15	48	1253	1865
1703	863	0.1671	4.244	1.838	46.68	48	1259	1873
1750	887	0.1694	4.303	1.525	38.73	48	1291	1921
1800	912	0.1718	4.364	1.546	39.28	48	1328	1976
1900	963	0.1765	4.483	1.588	40.35	48	1402	2086
2000	1013	0.1811	4.6	1.63	41.4	48	1476	2196
2338	1185	0.1958	4.973	1.762	44.75	48	1745	2597
1000	507	0.128	3.251	1.152	29.26	54	829	1234
1100	557	0.1343	3.411	1.209	30.7	54	913	1358
1200	608	0.1403	3.564	1.263	32.08	54	996	1482
1250	633	0.1431	3.635	1.288	32.72	54	1036	1542
1277	647	0.1447	3.675	1.3022	33.08	54	1062	1580
1300	659	0.146	3.708	1.314	33.37	54	1079	1605
1361.5	690	0.1494	3.795	1.3446	34.15	54	1132	1685
1400	709	0.1515	3.848	1.364	34.63	54	1162	1729
1500	760	0.1568	3.983	1.411	35.85	54	1244	1852
1600	811	0.162	4.115	1.458	37.04	54	1328	1976
1700	861	0.1669	4.239	1.502	38.15	54	1410	2098
1750	887	0.1694	4.303	1.525	38.73	54	1452	2161
1800	912	0.1718	4.364	1.546	39.28	54	1494	2223
1900	963	0.1765	4.483	1.588	40.35	54	1577	2346
2000	1013	0.1811	4.6	1.63	41.4	54	1660	2470
2000	1013	0.1482	3.764	1.63	41.4	54	1112	1654
2250	1140	0.1572	3.993	1.729	43.92	54	1263	1879
2493	1263	0.1655	4.204	1.8207	46.25	54	1403	2089
2500	1267	0.1657	4.209	1.823	46.3	54	1403	2088
2750	1393	0.1738	4.415	1.912	48.56	54	1544	2297
3000	1520	0.1816	4.613	1.998	50.74	54	1686	2508
2000	1013	0.1482	3.764	1.63	41.4	63	1297	1930
2250	1140	0.1572	3.993	1.729	43.92	63	1474	2193
2500	1267	0.1657	4.209	1.823	46.3	63	1637	2436
2750	1393	0.1738	4.415	1.912	48.56	63	1801	2680
3000	1520	0.1816	4.613	1.998	50.74	63	1966	2926
2000	1013	0.1482	3.764	1.63	41.4	72	1482	2206
2250	1140	0.1572	3.993	1.729	43.92	72	1640	2506
2493	1263	0.1655	4.204	1.8207	46.25	72	1871	2785

2500	1267	0.1657	4.209	1.823	46.3	72	1871	2784
2750	1393	0.1738	4.415	1.912	48.56	72	2058	3063
3000	1520	0.1816	4.613	1.998	50.74	72	2247	3343
Conductor Size	6201-T81 Aluminum-Alloy			Total Wire No.	Total Weight		Rated Strength	
	Wire	Weight			Kcmil	Lbs / 1000f	kg/km	kips
No.	Lbs / 1000f	kg/km	Lbs / 1000f	kg/km				
1500	13	298	443	61	1404	2089	30.4	135
1600	13	318	473	61	1499	2230	32.5	145
1700	13	338	502	61	1591	2367	34.5	153
1703	13	339	505	61	1598	2378	34.6	154
1750	13	347	516	61	1638	2437	35.5	158
1800	13	358	532	61	1686	2508	36.5	163
1900	13	378	562	61	1780	2648	38.6	172
2000	13	398	592	61	1874	2788	4.6	181
2338	13	470	700	61	2215	3297	47.5	211
1000	7	107	159	61	936	1393	19.8	87.9
1100	7	118	176	61	1031	1534	21.6	95.9
1200	7	128	191	61	1124	1673	23.2	104
1250	7	134	199	61	1170	1741	24.1	107
1277	7	137	204	61	1199	1784	24.6	110
1300	7	139	207	61	1218	1812	25.5	112
1361.5	7	146	217	61	1278	1902	26.3	117
1400	7	150	223	61	1312	1952	26.6	118
1500	7	161	239	61	1405	2090	28.4	127
1600	7	171	255	61	1499	2231	30.4	135
1700	7	182	271	61	1592	2369	32.2	143
1750	7	187	288	61	1639	2439	33.2	148
1800	7	193	287	61	1687	2510	34.1	152
1900	7	203	303	61	1781	2649	36	160
2000	7	214	318	61	1874	2788	37.9	169
2000	37	758	1130	91	1870	2784	46.6	207
2250	37	861	1280	91	2124	3159	52	231
2493	37	956	1423	91	2360	3512	57.6	256
2500	37	957	1420	91	2360	3508	57.7	257
2750	37	1050	1570	91	2594	3867	63.5	282
3000	37	1150	1710	91	2836	4218	69.3	308
2000	28	573	853	91	1870	2783	43.4	193
2250	28	652	970	91	2126	3163	48.3	215
2500	28	724	1080	91	2361	3516	53.7	239
2750	28	796	1180	91	2597	3860	59.1	263
3000	28	869	1290	91	2835	4216	64.5	287
2000	19	389	579	91	1871	2785	41	182
2250	19	442	658	91	2126	3164	45.5	202
2493	19	491	731	91	2362	3515	50.4	224
2500	19	491	731	91	2362	3515	50.6	225
2750	19	543	808	91	2601	3871	55.6	247
3000	19	590	878	91	2837	4221	60.7	270