SHEET METAL GUAGE SIZE CHARTS

Gauge (or gage) sizes are numbers that indicate the thickness of a piece of sheet metal, with a higher number referring to a thinner sheet. The equivalent thicknesses differ for each gauge size standard, which were developed based on the weight of the sheet for a given material. The Manufacturers' Standard Gage provides the thicknesses for standard steel, galvanized steel, and stainless steel. The Brown and Sharpe Gage, also known as the American Wire Gage (AWG), is used for most non ferrous metals, such as Aluminum and Brass. In the UK, the Birmingham Gage (BG) is used for a variety of metals and should not be confused with the Birmingham Wire Gage (BWG), which is used for wires. Lastly, a standard exists for Zinc in which a higher gauge number indicates a thicker sheet. The chart below can be used to determine the equivalent sheet thickness, in inches or millimeters, for a gauge number from the selected gauge size standard. The weight per unit area of the sheet can also be seen in pounds per square foot and kilograms per square meter.

Standard Steel				
	Thickness		Weight Per Area	
Gauge	in	mm	lb/ft²	kg/m²
3	0.2391	6.073	9.754	47.624
4	0.2242	5.695	9.146	44.656
5	0.2092	5.314	8.534	41.668
6	0.1943	4.935	7.927	38.701
7	0.1793	4.554	7.315	35.713
8	0.1644	4.176	6.707	32.745
9	0.1495	3.797	6.099	29.777
10	0.1345	3.416	5.487	26.790
11	0.1196	3.038	4.879	23.822
12	0.1046	2.657	4.267	20.834
13	0.0897	2.278	3.659	17.866
14	0.0747	1.897	3.047	14.879
15	0.0673	1.709	2.746	13.405
16	0.0598	1.519	2.440	11.911
17	0.0538	1.367	2.195	10.716
18	0.0478	1.214	1.950	9.521
19	0.0418	1.062	1.705	8.326
20	0.0359	0.912	1.465	7.151
21	0.0329	0.836	1.342	6.553
22	0.0299	0.759	1.220	5.955
23	0.0269	0.683	1.097	5.358
24	0.0239	0.607	0.975	4.760
25	0.0209	0.531	0.853	4.163
26	0.0179	0.455	0.730	3.565
27	0.0164	0.417	0.669	3.267

Galvanized Steel				
	Thickness		Weight Per Area	
Gauge	in	mm	lb/ft²	kg/m²
8	0.1681	4.270	6.858	33.482
9	0.1532	3.891	6.250	30.514
10	0.1382	3.510	5.638	27.527
11	0.1233	3.132	5.030	24.559
12	0.1084	2.753	4.422	21.591
13	0.0934	2.372	3.810	18.603
14	0.0785	1.994	3.202	15.636
15	0.0710	1.803	2.896	14.142
16	0.0635	1.613	2.590	12.648
17	0.0575	1.461	2.346	11.453
18	0.0516	1.311	2.105	10.278
19	0.0456	1.158	1.860	9.083
20	0.0396	1.006	1.615	7.888
21	0.0366	0.930	1.493	7.290
22	0.0336	0.853	1.371	6.692
23	0.0306	0.777	1.248	6.095
24	0.0276	0.701	1.126	5.497
25	0.0247	0.627	1.008	4.920
26	0.0217	0.551	0.885	4.322
27	0.0202	0.513	0.824	4.023
28	0.0187	0.475	0.763	3.725
29	0.0172	0.437	0.702	3.426
30	0.0157	0.399	0.640	3.127
31	0.0142	0.361	0.579	2.828
32	0.0134	0.340	0.547	2.669

28	0.0149	0.378	0.608	2.968
29	0.0135	0.343	0.551	2.689
30	0.0120	0.305	0.490	2.390
31	0.0105	0.267	0.428	2.091
32	0.0097	0.246	0.396	1.932
33	0.0090	0.229	0.367	1.793
34	0.0082	0.208	0.335	1.633
35	0.0075	0.191	0.306	1.494
36	0.0067	0.170	0.273	1.335
37	0.0064	0.163	0.261	1.275
38	0.0060	0.152	0.245	1.195

Stainless Steel				
	Thickness		Weight Per Area	
Gauge	in	mm	lb/ft²	kg/m²
0000000	0.5000	12.700	20.808	101.594
000000	0.4686	11.902	19.501	95.213
00000	0.4375	11.113	18.207	88.894
0000	0.4063	10.320	16.909	82.555
000	0.3750	9.525	15.606	76.195
00	0.3438	8.733	14.308	69.856
0	0.3125	7.938	13.005	63.496
1	0.2813	7.145	11.707	57.157
2	0.2656	6.746	11.053	53.966
3	0.2500	6.350	10.404	50.797
4	0.2344	5.954	9.755	47.627
5	0.2187	5.555	9.101	44.437
6	0.2031	5.159	8.452	41.267
7	0.1875	4.763	7.803	38.098
8	0.1719	4.366	7.154	34.928
9	0.1562	3.967	6.500	31.738
10	0.1406	3.571	5.851	28.568
11	0.1250	3.175	5.202	25.398
12	0.1094	2.779	4.553	22.229
13	0.0937	2.380	3.899	19.039
14	0.0781	1.984	3.250	15.869
15	0.0703	1.786	2.926	14.284
16	0.0625	1.588	2.601	12.699
17	0.0562	1.427	2.339	11.419
18	0.0500	1.270	2.081	10.159
19	0.0437	1.110	1.819	8.879
20	0.0375	0.953	1.561	7.620
21	0.0344	0.874	1.432	6.990
22	0.0312	0.792	1.298	6.339
23	0.0281	0.714	1.169	5.710
24	0.0250	0.635	1.040	5.080
25	0.0219	0.556	0.911	4.450
26	0.0187	0.475	0.778	3.800
27	0.0172	0.437	0.716	3.495
28	0.0156	0.396	0.649	3.170

Aluminum				
	Thickness		Weight Per Area	
Gauge	in	mm	lb/ft²	kg/m²
000000	0.5800	14.732	8.185	39.962
00000	0.5165	13.119	7.289	35.587
0000	0.4600	11.684	6.492	31.694
000	0.4096	10.404	5.780	28.222
00	0.3648	9.266	5.148	25.135
0	0.3249	8.252	4.585	22.386
1	0.2893	7.348	4.083	19.933
2	0.2576	6.543	3.635	17.749
3	0.2294	5.827	3.237	15.806
4	0.2043	5.189	2.883	14.076
5	0.1819	4.620	2.567	12.533
6	0.1620	4.115	2.286	11.162
7	0.1443	3.665	2.036	9.942
8	0.1285	3.264	1.813	8.854
9	0.1144	2.906	1.614	7.882
10	0.1019	2.588	1.438	7.021
11	0.0907	2.304	1.280	6.249
12	0.0808	2.052	1.140	5.567
13	0.0720	1.829	1.016	4.961
14	0.0641	1.628	0.905	4.417
15	0.0571	1.450	0.806	3.934
16	0.0508	1.290	0.717	3.500
17	0.0453	1.151	0.639	3.121
18	0.0403	1.024	0.569	2.777
19	0.0359	0.912	0.507	2.474
20	0.0320	0.813	0.452	2.205
21	0.0285	0.724	0.402	1.964
22	0.0253	0.643	0.357	1.743
23	0.0226	0.574	0.319	1.557
24	0.0201	0.511	0.284	1.385
25	0.0179	0.455	0.253	1.233
26	0.0159	0.404	0.224	1.096
27	0.0142	0.361	0.200	0.978
28	0.0126	0.320	0.178	0.868
29	0.0113	0.287	0.159	0.779

29	0.0141	0.358	0.587	2.865
30	0.0125	0.318	0.520	2.540
31	0.0109	0.277	0.454	2.215
32	0.0102	0.259	0.424	2.073
33	0.0094	0.239	0.391	1.910
34	0.0086	0.218	0.358	1.747
35	0.0078	0.198	0.325	1.585
36	0.0070	0.178	0.291	1.422
37	0.0066	0.168	0.275	1.341
38	0.0062	0.157	0.258	1.260

30	0.0100	0.254	0.141	0.689
31	0.0089	0.226	0.126	0.613
32	0.0080	0.203	0.113	0.551
33	0.0071	0.180	0.100	0.489
34	0.0063	0.160	0.089	0.434
35	0.0056	0.142	0.079	0.386
36	0.0050	0.127	0.071	0.345
37	0.0045	0.114	0.064	0.310
38	0.0040	0.102	0.056	0.276
39	0.0035	0.089	0.049	0.241
40	0.0031	0.079	0.044	0.214

Zinc

	Thickness		**Weight Per Area**	
Gauge	**in**	**mm**	**lb/ft²**	**kg/m²**
28	1.0000	25.400	37.152	181.392
27	0.5000	12.700	18.576	90.696
26	0.3750	9.525	13.932	68.022
25	0.2500	6.350	9.288	45.348
24	0.1250	3.175	4.644	22.674
23	0.1000	2.540	3.715	18.139
22	0.0900	2.286	3.344	16.325
21	0.0800	2.032	2.972	14.511
20	0.0700	1.778	2.601	12.697
19	0.0600	1.524	2.229	10.884
18	0.0550	1.397	2.043	9.977
17	0.0500	1.270	1.858	9.070
16	0.0450	1.143	1.672	8.163
15	0.0400	1.016	1.486	7.256
14	0.0360	0.914	1.337	6.530
13	0.0320	0.813	1.189	5.805
12	0.0280	0.711	1.040	5.079
11	0.0240	0.610	0.892	4.353
10	0.0200	0.508	0.743	3.628
9	0.0180	0.457	0.669	3.265
8	0.0160	0.406	0.594	2.902

Birmingham Gage

	Thickness	
Gauge	**in**	**mm**
0000000	0.6666	16.932
000000	0.6250	15.875
00000	0.5883	14.943
0000	0.5416	13.757
000	0.5000	12.700
00	0.4452	11.308
0	0.3964	10.069
1	0.3532	8.971
2	0.3147	7.993
3	0.2804	7.122
4	0.2500	6.350
5	0.2225	5.652
6	0.1981	5.032
7	0.1764	4.481
8	0.1570	3.988
9	0.1398	3.551
10	0.1250	3.175
11	0.1113	2.827
12	0.0991	2.517
13	0.0882	2.240
14	0.0785	1.994

7	0.0140	0.356	0.520	2.539
6	0.0120	0.305	0.446	2.177
5	0.0100	0.254	0.372	1.814
4	0.0080	0.203	0.297	1.451
3	0.0060	0.152	0.223	1.088
2	0.0040	0.102	0.149	0.726
1	0.0020	0.051	0.074	0.363

15	0.0699	1.775
16	0.0625	1.588
17	0.0556	1.412
18	0.0495	1.257
19	0.0440	1.118
20	0.0392	0.996
21	0.0349	0.886
22	0.0312	0.792
23	0.0278	0.706
24	0.0247	0.627
25	0.0220	0.559
26	0.0196	0.498
27	0.0174	0.442
28	0.0156	0.396
29	0.0139	0.353
30	0.0123	0.312
31	0.0110	0.279
32	0.0098	0.249
33	0.0087	0.221
34	0.0077	0.196
35	0.0069	0.175
36	0.0061	0.155
37	0.0054	0.137
38	0.0048	0.122
39	0.0043	0.109
40	0.0038	0.097
41	0.0034	0.086
42	0.0030	0.076
43	0.0027	0.069
44	0.0024	0.061
45	0.0021	0.053
46	0.0019	0.048
47	0.0017	0.043
48	0.0016	0.041
49	0.0013	0.033
50	0.0012	0.030
51	0.0011	0.027
52	0.0010	0.024