Sheet Metal Gauge Chart

Gauge 3 to 30 in inches and mm for steel, galvanized steel, stainless steel and aluminium

For: Fabricators, HVAC and duct installers, welders, engineers and buyers

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KEY RELATIONSHIP
Steel gauge is defined by weight: thickness (in) = weight (lb/ft²) ÷ 41.82

FORMULA
Galvanized = (steel weight + 2.5 oz/ft²) ÷ 41.82; aluminium = AWG diameter

REVERSE
Weight (lb/ft²) = thickness (in) × 41.82 for steel

WORKED EXAMPLE
16 gauge: steel 0.0598 in, galvanized 0.0635 in, stainless 0.0625 in, aluminium 0.0508 in

Nominal thicknesses to 4 decimal places of an inch. The same gauge number means a different thickness in each system, so always state the thickness.

Sheet metal gauge thickness

Many stainless suppliers quote the steel (MSG) decimals instead of the 1893 gauge; check the thickness on the mill certificate.

Gauge	Steel (in)	Steel (mm)	Galvanized (in)	Galvanized (mm)	Stainless (in)	Stainless (mm)	Aluminium (in)	Aluminium (mm)
3	0.2391	6.074	—	—	0.2500	6.350	—	—
4	0.2242	5.694	—	—	0.2344	5.953	—	—
5	0.2092	5.314	—	—	0.2188	5.556	—	—
6	0.1943	4.935	—	—	0.2031	5.159	0.1620	4.115
7	0.1793	4.555	—	—	0.1875	4.762	0.1443	3.665
8	0.1644	4.176	0.1681	4.271	0.1719	4.366	0.1285	3.264
9	0.1495	3.796	0.1532	3.891	0.1563	3.969	0.1144	2.906
10	0.1345	3.416	0.1382	3.511	0.1406	3.572	0.1019	2.588
11	0.1196	3.037	0.1233	3.132	0.1250	3.175	0.0907	2.305
12	0.1046	2.657	0.1084	2.752	0.1094	2.778	0.0808	2.053
13	0.0897	2.278	0.0934	2.373	0.0938	2.381	0.0720	1.828
14	0.0747	1.898	0.0785	1.993	0.0781	1.984	0.0641	1.628
15	0.0673	1.708	0.0710	1.803	0.0703	1.786	0.0571	1.450
16	0.0598	1.518	0.0635	1.613	0.0625	1.588	0.0508	1.291
17	0.0538	1.367	0.0575	1.461	0.0563	1.429	0.0453	1.150
18	0.0478	1.215	0.0516	1.310	0.0500	1.270	0.0403	1.024
19	0.0418	1.063	0.0456	1.158	0.0438	1.111	0.0359	0.912
20	0.0359	0.911	0.0396	1.006	0.0375	0.952	0.0320	0.812
21	0.0329	0.835	0.0366	0.930	0.0344	0.873	0.0285	0.723
22	0.0299	0.759	0.0336	0.854	0.0313	0.794	0.0253	0.644
23	0.0269	0.683	0.0306	0.778	0.0281	0.714	0.0226	0.573
24	0.0239	0.607	0.0276	0.702	0.0250	0.635	0.0201	0.511
25	0.0209	0.531	0.0247	0.626	0.0219	0.556	0.0179	0.455
26	0.0179	0.456	0.0217	0.550	0.0188	0.476	0.0159	0.405
27	0.0164	0.418	0.0202	0.512	0.0172	0.437	0.0142	0.361
28	0.0149	0.380	0.0187	0.475	0.0156	0.397	0.0126	0.321
29	0.0135	0.342	0.0172	0.437	0.0141	0.357	0.0113	0.286
30	0.0120	0.304	0.0157	0.399	0.0125	0.318	0.0100	0.255

Steel sheet weight by gauge

Gauge	lb/ft²	kg/m²	Galvanized lb/ft²	Galvanized kg/m²
3	10.0000	48.82	—	—
4	9.3750	45.77	—	—
5	8.7500	42.72	—	—
6	8.1250	39.67	—	—
7	7.5000	36.62	—	—

Gauge	lb/ft²	kg/m²	Galvanized lb/ft²	Galvanized kg/m²
17	2.2500	10.99	2.4063	11.75
18	2.0000	9.76	2.1563	10.53
19	1.7500	8.54	1.9063	9.31
20	1.5000	7.32	1.6563	8.09
21	1.3750	6.71	1.5313	7.48

Gauge	lb/ft²	kg/m²	Galvanized lb/ft²	Galvanized kg/m²
8	6.8750	33.57	7.0313	34.33
9	6.2500	30.52	6.4063	31.28
10	5.6250	27.46	5.7813	28.23
11	5.0000	24.41	5.1563	25.18
12	4.3750	21.36	4.5313	22.12
13	3.7500	18.31	3.9063	19.07
14	3.1250	15.26	3.2813	16.02
15	2.8125	13.73	2.9688	14.49
16	2.5000	12.21	2.6563	12.97

Gauge	lb/ft²	kg/m²	Galvanized lb/ft²	Galvanized kg/m²
22	1.2500	6.10	1.4063	6.87
23	1.1250	5.49	1.2813	6.26
24	1.0000	4.88	1.1563	5.65
25	0.8750	4.27	1.0313	5.04
26	0.7500	3.66	0.9063	4.42
27	0.6875	3.36	0.8438	4.12
28	0.6250	3.05	0.7813	3.81
29	0.5625	2.75	0.7188	3.51
30	0.5000	2.44	0.6563	3.20

Sources and method

- **Manufacturers' Standard Gauge for steel sheet** — Gauge defined by weight: 41.82 lb/ft² per inch of thickness; galvanized adds 2.5 oz/ft² of zinc
- **US Standard Gauge (Act of 3 March 1893)** — Gauge thickness as a fraction of an inch; still used for stainless steel sheet
- **Brown & Sharpe gauge (ASTM B258)** — Same as AWG; used for aluminium, copper and brass sheet

Thicknesses are calculated from each gauge system's definition (weight per square foot, the 1893 fractions, or the AWG formula) and cross-checked against a second published gauge table. Interactive version, corrections and more charts: **allunitconversions.com/sheet-metal-gauge-chart**