

SHEET METAL SIZE CHART

GAUGE • THICKNESS • WEIGHT • STANDARD SHEET SIZES

A practical reference for designers, engineers and buyers working with common sheet metal materials.

IN SHEET METAL FABRICATION, SIZE MATTERS

Built for Better Decisions

The right dimensions can make the difference between application success and failure. This guide brings together gauge, thickness and weight information for commonly used sheet metals, giving designers, engineers and buyers a clearer starting point for material selection.

Blackstone Advanced Technologies is a leader in full-service sheet metal fabrication. We produce custom products and components as a contract manufacturer serving electronic, medical, communication, industrial, machinery, marine, construction and transportation applications from our 275,000 square foot Jamestown, New York facility.

BLACKSTONE
ADVANCED TECHNOLOGIES

PRECISION FABRICATION • FORMING • WELDING • FINISHING

MANUFACTURED IN THE USA

The Terms You Need to Know

A quick reference before you dive into the charts.

GAUGE

Gauge is a number that indicates the thickness of a piece of sheet metal. Standards are based on the weight of the sheet for a given material. In general, as the gauge number increases, thickness decreases.

THICKNESS

Thickness affects how a metal sheet can be cut and formed. The thinnest sheets are commonly called foil or leaf, while pieces thicker than 0.25 inches are generally considered plate.

WEIGHT

Weight in the U.S. is measured in pounds per square foot. If you know the thickness and gauge, weight and other useful measurements can be calculated with confidence.

TIP Specify inside bend radii of at least two material thicknesses to reduce cracking or distortion.

How to Use the Charts

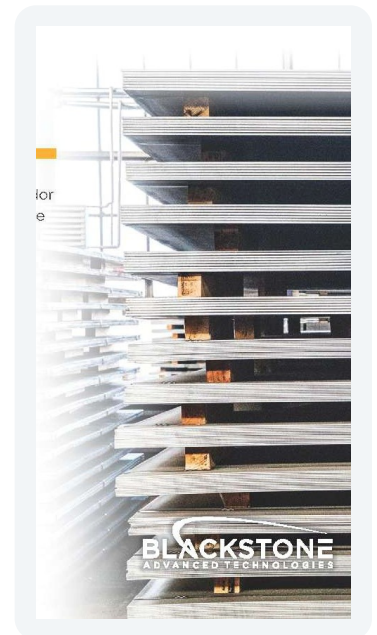
Use these charts as a practical reference when comparing commonly available sheet metal gauges and material thicknesses. Standard-size material is generally more cost-effective than custom-size material.

Materials included

- Regular steel
- Galvanized steel
- Aluminum

BE CAREFUL

Each material has its own specific gauge. For example, the same gauge number does not represent the same thickness across all materials.



THICKNESS

WEIGHT PER AREA

Gauge	Inches	Millimeters	Lbs/sq Foot	Kg/sq Meter
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	26.79
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	2.44	11.911
17	0.0538	1.367	2.195	10.716
18	0.0478	1.214	1.95	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	1.22	5.955
23	0.0269	0.683	1.097	5.358
24	0.0239	0.607	0.975	4.76
25	0.0209	0.531	0.853	4.163
26	0.0179	0.455	0.73	3.565
27	0.0164	0.417	0.669	3.267
28	0.0149	0.378	0.608	2.968
29	0.0135	0.343	0.551	2.689
30	0.012	0.305	0.49	2.39

THICKNESS

WEIGHT PER AREA

Gauge	Inches	Millimeters	Lbs/sq Foot	Kg/sq Meter
8	0.1681	4.27	6.858	33.482
9	0.1532	3.891	6.25	30.514
10	0.1382	3.51	5.638	27.527
11	0.1233	3.132	5.03	24.559
12	0.1084	2.753	4.422	21.591
13	0.0934	2.372	3.81	18.603
14	0.0785	1.994	3.202	15.636
15	0.071	1.803	2.896	14.142
16	0.0635	1.613	2.59	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	1.86	9.083
20	0.0396	1.006	1.615	7.888
21	0.0366	0.93	1.493	7.29
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	4.92
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	0.64	3.127

THICKNESS

WEIGHT PER AREA

Gauge	Inches	Millimeters	Lbs/sq Foot	Kg/sq Meter
3	0.2294	5.827	3.237	15.806
4	0.2043	5.189	2.883	14.076
5	0.1819	4.62	2.567	12.533
6	0.162	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	1.28	6.249
12	0.0808	2.052	1.14	5.567
13	0.072	1.829	1.016	4.961
14	0.0641	1.628	0.905	4.417
15	0.0571	1.45	0.806	3.934
16	0.0508	1.29	0.717	3.5
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	0.032	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	0.2	0.978
28	0.0126	0.32	0.178	0.868
29	0.0113	0.287	0.159	0.779
30	0.01	0.254	0.141	0.689

THICKNESS

WEIGHT PER AREA

Gauge	Inches	Millimeters	Lbs/sq Foot	Kg/sq Meter
3	0.25	6.35	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	6.5	31.738
10	0.1406	3.571	5.851	28.568
11	0.125	3.175	5.202	25.398
12	0.1094	2.779	4.553	22.229
13	0.0937	2.38	3.899	19.039
14	0.0781	1.984	3.25	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	0.05	1.27	2.081	10.159
19	0.0437	1.11	1.819	8.879
20	0.0375	0.953	1.561	7.62
21	0.0344	0.874	1.432	6.99
22	0.0312	0.792	1.298	6.339
23	0.0281	0.714	1.169	5.71
24	0.025	0.635	1.04	5.08
25	0.0219	0.556	0.911	4.45
26	0.0187	0.475	0.778	3.8
27	0.0172	0.437	0.716	3.495
28	0.0156	0.396	0.649	3.17
29	0.0141	0.358	0.587	2.865
30	0.0125	0.318	0.52	2.54

Simplifying the Fabrication Process

Blackstone Advanced Technologies maintains standard sheet sizes for common fabrication requirements, helping simplify sourcing and production planning.

STANDARD SHEET SIZES

Applies to aluminum, galvanized steel, regular steel and stainless steel

7 ga to 20 ga

48 x 120

7 ga to 20 ga

60 x 120

7 ga to 20 ga

72 x 144



Capabilities Beyond the Chart

We also maintain upper and lower capabilities when working with sheet metal. While we work with material up to 20 gauge and up to 1 inch thick, very low-thickness requirements may benefit from consultation to determine the best gauge and design approach.

FULL-SERVICE SUPPORT

- Value engineering
- Sheet metal forming
- Laser cutting and punching
- Welding
- Sheet metal finishing
- Inventory management programs

FROM CUTTING TO FINISHING

One partner. Multiple fabrication capabilities. One standard for quality.



About Blackstone Advanced Technologies

With over 100 years in the industry, Blackstone Advanced Technologies is committed to providing strong, reliable sheet metal fabrication for industrial, transportation, military and science applications. We complete all fabrication in-house. Our 275,000 square foot facility allows us to manufacture and store products of many sizes, while our engineering team supports customers throughout the fabrication process.

Ready to Start a Project?

If you have questions about sheet metal sizes, fabrication capabilities or your next project, get in touch with us.

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WHAT'S NEXT?

Ask about a free, no-pressure value engineering consultation to help reduce snags and costly rework before production begins.

