

Metal Thickness Conversion Chart

Gauge to Decimal Inches and Millimeters

This reference chart provides quick conversions between metal gauge numbers and their actual thickness in decimal inches and millimeters. Note that gauge measurements can vary slightly between different standards (USS, BWG, etc.). This chart uses standard sheet steel gauge.

Standard Steel Sheet Gauge Conversions

Gauge	Inches	Millimeters	Common Uses
3	0.2391	6.073	Heavy structural, tank fabrication
7	0.1793	4.554	Structural supports, heavy equipment
8	0.1644	4.176	Automotive frames, heavy fabrication
10	0.1345	3.416	General fabrication, automotive
11	0.1196	3.038	HVAC, automotive panels
12	0.1046	2.657	Medium fabrication, enclosures
14	0.0747	1.897	Light fabrication, sheet metal work
16	0.0598	1.519	HVAC ductwork, light panels
18	0.0478	1.214	Ventilation, light gauge framing
20	0.0359	0.912	Thin sheet work, decorative
22	0.0299	0.759	HVAC, electrical boxes
24	0.0239	0.607	Flashing, trim work
26	0.0179	0.455	Light trim, decorative panels
28	0.0149	0.378	Very light applications
30	0.0120	0.305	Lightweight enclosures

Aluminum Sheet Gauge (AWG)

Gauge	Inches	Millimeters	Notes
8	0.1285	3.264	Heavy structural aluminum
10	0.1019	2.588	Moderate structural work
12	0.0808	2.052	General fabrication
14	0.0641	1.628	Common sheet thickness
16	0.0508	1.291	Light fabrication
18	0.0403	1.024	Thin panels, trim

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20	0.0320	0.813	Very thin applications
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Fractional Inch Conversions

Fraction	Decimal	MM	Fraction	Decimal	MM
1/16"	0.0625	1.588	1/4"	0.2500	6.350
3/32"	0.0938	2.381	5/16"	0.3125	7.938
1/8"	0.1250	3.175	3/8"	0.3750	9.525
5/32"	0.1563	3.969	7/16"	0.4375	11.113
3/16"	0.1875	4.763	1/2"	0.5000	12.700
7/32"	0.2188	5.556	5/8"	0.6250	15.875

DISCLAIMER: This information is provided for educational purposes only. Always follow manufacturer guidelines, local codes, and safety regulations. Welding involves significant hazards including burns, electric shock, fumes, and fire. Proper training, certification, and safety equipment are essential before attempting any welding operations.

For more welding resources, visit: <https://bestweldinghelmet.net>