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Weight of aluminum sheet per square meter

Includes thickness-based weight calculations. Note: The actual weight per square meter may vary due to manufacturing tolerances in sheet thickness. Ensures accurate costing & shipping estimations. Sheet Thick' (mm) Mild Steel, CR4, HR4, Galv, Corten, Zintec 400-Series Stainless Steel 430 etc 300-Series Stainless Steel 304 316 etc Brass CZ106 CZ108, CZ120 etc Bronze Phos Bronze PB102 etc Copper C101, C106, C103 etc Alum 1050, 5057, 6061 etc Titanium Zinc EN988 mm Kg/sqm Kg/sqm Kg/sqm Kg/sqm Kg/sqm Kg/sqm Kg/sqm Kg/sqm Kg/sqm 0.3 2.35 2.32 2.37 2.53 2.64 2.68 0.81 2.16 0.4 3.14 3.10 3.16 3.38 3.52 3.57 1.08 2.88 0.5 3.93 3.88 3.95 4.22 4.40 4.46 1.35 3.60 0.6 4.71 4.65 4.74 5.06 5.28 5.35 1.62 4.32 0.7 5.50 5.42 5.53 5.91 6.16 6.24 1.89 5.04 0.8 6.28 6.20 6.32 6.75 7.04 7.14 2.16 5.76 0.9 7.06 6.97 7.11 7.60 7.92 8.03 2.43 6.48 1.0 7.85 7.75 7.90 8.44 8.80 8.92 2.70 7.20 1.1 8.63 8.53 8.69 9.28 9.68 9.81 2.97 7.92 1.2 9.42 9.30 9.48 10.13 10.56 10.70 3.24 8.64 1.3 10.21 10.07 10.27 10.97 11.44 11.60 3.51 9.36 1.4 10.99 10.85 11.06 11.82 12.32 12.49 3.78 10.08 1.5 11.78 11.62 11.85 12.66 13.20 13.38 4.05 10.80 1.6 12.56 12.40 12.64 13.50 14.08 14.27 4.32 11.52 1.7 13.34 13.17 13.43 14.35 14.96 15.16 4.59 12.24 1.8 14.13 13.95 14.22 15.19 15.84 16.06 4.86 12.96 1.9 14.91 14.72 15.01 16.04 16.72 16.95 5.13 13.68 2.0 15.70 15.50 15.80 16.88 17.60 17.84 5.40 14.40 2.5 19.62 19.38 19.75 21.10 22.00 22.30 6.75 18.00 3.0 23.55 23.25 23.70 25.32 26.40 26.78 8.10 21.60 3.2 25.12 24.80 25.28 27.01 28.16 28.54 8.64 23.04 3.5 27.48 27.12 27.65 29.54 30.80 31.22 9.45 25.20 4.0 31.40 31.00 31.60 33.76 35.20 35.68 10.80 28.80 5.0 39.25 38.75 39.50 42.20 44.00 44.60 13.50 36.00 6.0 47.10 46.50 47.40 50.64 52.80 53.52 16.20 43.20 7.0 54.95 54.25 55.30 59.08 61.60 62.44 18.90 50.40 8.0 62.80 62.00 63.20 67.52 70.40 71.36 21.60 57.60 9.0 70.65 69.75 71.10 75.96 79.20 80.28 24.30 64.80 10.0 78.50 77.50 79.00 84.40 88.00 89.20 27.00 72.00 Need Custom Cut Sheet Metal? Useful for material selection in fabrication & manufacturing. Additionally, when purchasing sheet metal by the tonne, the actual number of sheets received may vary depending on the exact thickness of each sheet. Material densities are based on Density of Aluminum. How to Calculate Aluminium Sheet Weight For a rectangular aluminum plate with a flat surface, the aluminium weight calculation formula is: Weight = Length x Width x Thickness x Density, or Weight = Length x Width x Weight/m2 (or in2, ft2) Aluminium Pipe and Tube Weight Calculator Aluminium tube weight formula is Weight = WT(OD-WT) x π x L x ρ WT = Wall Thickness OD = Outside Diameter L = Length ρ = Density = 2.7 g/cm3 (0.0975 lb/in3) π = 3.1416 Understanding the weight of different sheet metals is essential for manufacturing, fabrication, and shipping calculations. Helps calculate sheet weight per square meter (kg/m²). For precision laser cutting of sheet metals, including mild steel, stainless steel, brass, copper, and aluminium, visit MS Laser Services Ltd or Enquire Here, and we will quote you the same prices. The mass density of aluminum is 2.7 g/cm3 (0.0975 lb/in3), which is about 1/3 of that of steel (7.83 g/cm3), copper (8.93 g/cm3) or brass (8.53 g/cm3). Use this chart alongside the sheet metal weight table for calculations! Material Specific Gravity (SG) Density (kg/m³) Mild Steel, Corten, Galv, Zintec, HR4, CR4 7.85 7850 400-Series Stainless Steel 7.75 7750 300-Series Stainless Steel 7.9 7900 Brass (CZ106, CZ120) 8.44 8440 Bronze (Phosphor Bronze) 8.8 8800 Pewter (Lead-Free) 7.3 7300 Galvanized Steel 7.85 7850 Copper (C101, C103) 8.92 8920 Aluminium (1050, 6061) 2.7 2700 Zinc (EN988) 7.20 7200 3mm aluminium sheet weight per m2 is 8.1 kg (17.86 lb). These tolerances are generally tight for copper and brass but can be more significant for materials like mild steel, leading to slight variations in weight. Why is Specific Gravity Important? Values are calculated using the industry-standard specific gravity for each material, ensuring consistency with supplier data and reference handbooks. The following table summarizes the weight and density of various aluminum grades including aluminum 6061, 7075, 2024, 3003, 5052, etc in g/cm3, lb/in3 (lbs/in3), kg/m3, g/ml, lb/ft3 (lbs/ft3), g/mm3, cubic inch, cubic meter, etc. Aluminium Weight per Square Metre of Common Thickness 3mm aluminium sheet weight per m2 is 8.1 kg (17.86 lb). Aluminium ... Find the weight per square meter (kg/m²) for sheet metals like steel, stainless, brass, copper, and aluminium. Notes: Weight & Density of Aluminum Aluminum and Aluminium Alloy Density, g/cm3 (g/ml) Density (kg/m3) Density (g/mm3) Density (lbs/in3) Density (lbs/ft3) 6061 2.70 2700 0.0027 0.0975 168.56 7075 2.81 2810 0.0028 0.1015 175.42 5052 2.68 2680 0.0027 0.0968 167.31 2024 2.78 2780 0.0028 0.1004 173.55 3003 2.73 2730 0.0027 0.0986 170.43 1050 2.71 2705 0.0027 0.0977 168.87 1060 2.71 2705 0.0027 0.0977 168.87 1100 2.71 2710 0.0027 0.0979 169.18 1145 2.70 2700 0.0027 0.0975 168.56 1175 2.70 2700 0.0027 0.0975 168.56 1200 2.70 2700 0.0027 0.0975 168.56 1230 2.70 2700 0.0027 0.0975 168.56 1235 2.71 2705 0.0027 0.0977 168.87 1345 2.71 2705 0.0027 0.0977 168.87 1350 2.71 2705 0.0027 0.0977 168.87 2011 2.83 2830 0.0028 0.1022 176.67 2014 2.80 2800 0.0028 0.1012 174.80 2017 2.79 2790 0.0028 0.1008 174.17 2018 2.82 2820 0.0028 0.1019 176.05 2025 2.81 2810 0.0028 0.1015 175.42 2036 2.75 2750 0.0028 0.0994 171.68 2117 2.75 2750 0.0028 0.0994 171.68 2124 2.78 2780 0.0028 0.1004 173.55 2218 2.81 2810 0.0028 0.1015 175.42 2219 2.84 2840 0.0028 0.1026 177.30 2618 2.76 2760 0.0028 0.0997 172.30 3003 2.73 2730 0.0027 0.0986 170.43 3004 2.72 2720 0.0027 0.0983 169.80 3005 2.73 2730 0.0027 0.0986 170.43 3105 2.72 2720 0.0027 0.0983 169.80 4032 2.68 2680 0.0027 0.0968 167.31 4043 2.69 2690 0.0027 0.0972 167.93 4045 2.67 2670 0.0027 0.0965 166.68 4047 2.66 2660 0.0027 0.0961 166.06 4145 2.74 2740 0.0027 0.0990 171.05 4343 2.68 2680 0.0027 0.0968 167.31 4643 2.69 2690 0.0027 0.0972 167.93 5005 2.70 2700 0.0027 0.0975 168.56 5050 2.69 2690 0.0027 0.0972 167.93 5056 2.64 2640 0.0026 0.0954 164.81 5083 2.66 2660 0.0027 0.0961 166.06 5086 2.66 2660 0.0027 0.0961 166.06 5154 2.66 2660 0.0027 0.0961 166.06 5183 2.66 2660 0.0027 0.0961 166.06 5252 2.66 2660 0.0027 0.0961 166.06 5254 2.66 2660 0.0027 0.0961 166.06 5356 2.64 2640 0.0026 0.0954 164.81 5454 2.69 2690 0.0027 0.0972 167.93 5456 2.66 2660 0.0027 0.0961 166.06 5457 2.69 2690 0.0027 0.0972 167.93 5554 2.69 2690 0.0027 0.0972 167.93 5554 2.69 2690 0.0027 0.0972 167.93 5556 2.66 2660 0.0027 0.0961 166.06 5652 2.67 2670 0.0027 0.0965 166.68 5654 2.66 2660 0.0027 0.0961 166.06 5657 2.69 2690 0.0027 0.0972 167.93 6003 2.70 2700 0.0027 0.0975 168.56 6005 6005A 2.70 2700 0.0027 0.0975 168.56 6053 2.69 2690 0.0027 0.0972 167.93 6063 2.70 2700 0.0027 0.0975 168.56 6066 2.72 2720 0.0027 0.0983 169.80 6070 2.71 2710 0.0027 0.0979 169.18 6101 2.70 2700 0.0027 0.0975 168.56 6105 2.69 2690 0.0027 0.0972 167.93 6151 2.71 2710 0.0027 0.0979 169.18 6162 2.70 2700 0.0027 0.0975 168.56 6201 2.69 2690 0.0027 0.0972 167.93 6262 2.72 2720 0.0027 0.0983 169.80 6351 2.71 2710 0.0027 0.0979 169.18 6463 2.69 2690 0.0027 0.0972 167.93 6951 2.70 2700 0.0027 0.0975 168.56 7005 2.78 2780 0.0028 0.1004 173.55 7008 2.78 2780 0.0028 0.1004 173.55 7049 2.84 2840 0.0028 0.1026 177.30 7050 2.83 2830 0.0028 0.1022 176.67 7072 2.72 2720 0.0027 0.0983 169.80 7175 2.80 2800 0.0028 0.1012 174.80 7178 2.83 2830 0.0028 0.1022 176.67 7475 2.81 2810 0.0028 0.1015 175.42 8017 2.71 2710 0.0027 0.0979 169.18 8030 2.71 2710 0.0027 0.0979 169.18 8176 2.71 2710 0.0027 0.0979 169.18 8177 2.70 2700 0.0027 0.0975 168.56 Aluminium and Aluminum-Alloy Material Weight Calculator The following aluminium weight calculator is limited to rectangular plate and sheet with a flat surface (not including checkered/diamond plates). Weight of Aluminium per Cubic Inch/Foot Weight of aluminium per cubic inch is 0.0975 lb; Weight of aluminium per cubic foot is 169 lb; Aluminium weight per m3 is 2700 kg. The density is based on 2.7g/cm3. 2mm aluminium sheet weight per square meter is 5.4 kg (12 lbs) 22 SWG per square metre: 1.92 kg (4.23 lb) 24 Gauge SWG per square metre: 1.51kg (3.33 lb) Check All-in-One Metal Weight Calculator Unit Weight of Aluminum The unit weight of aluminum is 2.7g per cm3 2700 kg per m3 0.0975 lb per cubic inch 169 lb per cubic feet Aluminium Sheet Weight Chart The following table lists the aluminium sheet weight chart in kg per m2 and lb per square foot. The densities used are widely accepted in engineering and metalworking industries to ensure accurate estimations. The following table lists the aluminium sheet weight chart in kg per m2 and lb per square foot. Aluminium Sheet Weight Chart, Flat Surface Thickness, mm Weight, kg/m2 Weight, lb/ft2 Weight, lb/in2 3 8.1 1.66 0.0115 2 5.4 1.11 0.0077 1 2.7 0.55 0.0038 0.5 1.35 0.28 0.0019 0.6 1.62 0.33 0.0023 0.8 2.16 0.44 0.0031 1 5.4 0.5 0.83 0.058 2 5.6 1.38 0.096 4 10.8 2.21 0.0154 5 13.5 2.77 0.0192 6 16.2 3.32 0.0230 10 27 5.53 0.0384 22 SWG (0.71 mm) 1.92 0.39 0.0027 24 SWG (0.56 mm) 1.51 0.31 0.0021 The density is based on 2.7g/cm3. While minor variations exist between different alloys and processing methods, the figures provided offer reliable approximations for common sheet metal types. The unit weight of aluminum is. Our laser cutting solutions provide accurate, clean cuts for bespoke projects and bulk orders. The table below lists the weight per square meter (kg/m²) for Mild Steel, Stainless Steel (300 & 400 Series), Brass, Bronze, Galvanized Steel, Copper, Aluminium and Zinc across a range of thicknesses from 0.3mm to 10.0mm. This chart provides industry-standard SG values for common sheet metals, ensuring accurate weight calculations when estimating material requirements. Specific Gravity of Common Sheet Metals The specific gravity (SG) of a metal is its density relative to water (SG = 1.0 for water). The weight of aluminium per cubic inch is 0.0975 pound, 2.7 grams per cubic centimeter. This chart provides industry-standard weight values for various metals based on their specific gravity (SG) and thickness. Aluminium grades include 6061, 7075, 5052, 2024, etc.; thickness includes commonly used 0.5mm, 0.8mm, 1mm, 2 mm, 2.5mm, 3 mm, 4mm, 5mm, 6mm, 10mm, etc. Buyers should consider these factors when estimating material requirements. If calculating the aluminium weight per square foot, must first measure the thickness of the aluminium sheet or plate, the formula is: Weight = L (Length) x W (Width) x T (Thickness) x ρ (Density), or Weight = Length x Width x Weight/m2 (or in2, ft2) For more aluminium weights, please use the Aluminium Weight Calculator.

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