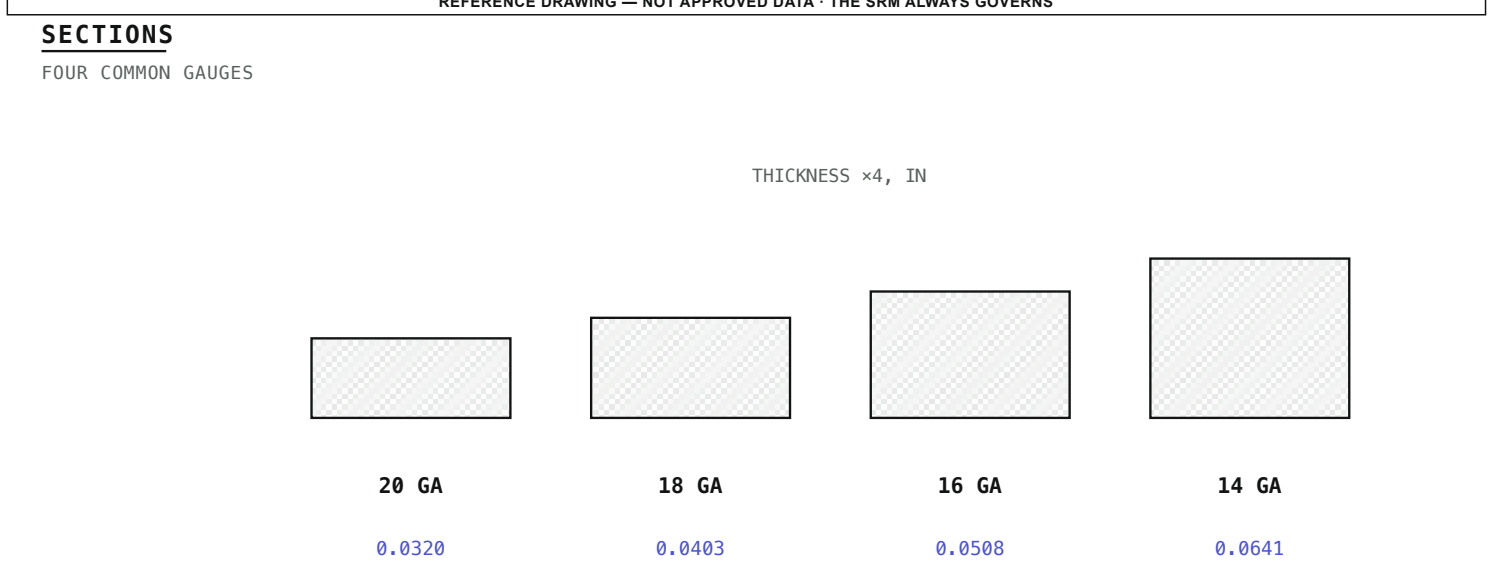
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Aluminum Sheet Gauge Chart

20 gauge aluminum is 0.0320 in (0.81 mm); 18 gauge is 0.0403 in (1.02 mm).

1 Identification

REFERENCE DRAWING — NOT APPROVED DATA · THE SRM ALWAYS GOVERNS



PARTS

PART	WHAT IT DOES
20 ga	0.0320 in (0.81 mm)
14 ga	0.0641 in

KEY DATA

SERIES
Aluminum follows Brown & Sharpe, the same as American Wire Gauge.

NOT STEEL
A steel chart's 20 gauge is not 0.032 in aluminum.

RANGE
Gauges 8 to 30, with the decimal AC 43.13-1B uses.

NOTES

1. Dimensions in inches. Do not scale: the SRM sets the values.
2. For reference. The applicable manual always governs.

REVISIONS

REV	DESCRIPTION	YEAR
A	First issue	2026

The Aviation Point. Structural repair reference

TITLE			
Sheet gauges			
DRAWING NO. TAP-DWG-095	REV A · 2026	SCALE NTS	SHEET 1 OF 1
CODE TAP-D-GAUGE			

DO NOT SCALE DRAWING

The chart

Gauge	Inches	mm	As AC 43.13-1B writes it
8	0.1285"	3.26	.128"
9	0.1144"	2.91	—
10	0.1019"	2.59	.102"
11	0.0907"	2.30	.091"
12	0.0808"	2.05	.081"
13	0.0720"	1.83	—
14	0.0641"	1.63	.064"
15	0.0571"	1.45	—
16	0.0508"	1.29	.051"
17	0.0453"	1.15	—
18	0.0403"	1.02	.040"
19	0.0359"	0.91	.036"
20	0.0320"	0.81	.032"
21	0.0285"	0.72	—
22	0.0253"	0.64	.025"
23	0.0226"	0.57	—
24	0.0201"	0.51	.020"
25	0.0179"	0.45	—
26	0.0159"	0.40	.016"
27	0.0142"	0.36	—
28	0.0126"	0.32	—
29	0.0113"	0.29	—
30	0.0100"	0.25	—

Educational reference only, not approved data. Always consult the applicable SRM, AMM, or AC 43.13-1B and your certifying authority.

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Where the sources agree, and where they do not

Point	First source	Second source	Where they differ, and what governs
Gauge to inches	NBS Letter Circular 24: the series, gauge 36 = 0.005 in, gauge 0000 = 0.460 in, 39 equal ratio steps (the chart's basis)	AC 43.13-1B: the thicknesses it writes out, in the last column; — where the AC gives none	The chart is calculated, so every gauge has a value; only the AC's rows are the AC's wording.
How sheet is called	ASTM B209/B209M (current B209/B209M-21a): aluminum sheet and plate, in inch-pound (B209) or SI (B209M) units	Gauge number: the name of a thickness in one gauge series; other gauge series give other thicknesses for the same number	Order and check by decimal thickness. The repair data names the thickness, not a gauge.

2 Allowable damage

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3 Repair

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Key points

- **Not for steel, stainless or titanium sheet.** They use different gauge series. 4130 sheet is ordered by decimal thickness.
- **Nominal, not measured.** Rolled sheet carries a thickness tolerance. Check the actual sheet with a micrometer, not a gauge chart.
- **Gauge does not identify the alloy or temper.** 20 gauge 2024-T3, 6061-T6 and 5052-H32 are the same thickness and very different materials.
- **The repair data governs.** Where an SRM or AC 43.13-1B gives a thickness, use the decimal it gives, and the alloy and temper with it.

MAIN SOURCES · National Bureau of Standards, Letter Circular 24, Standard Thicknesses of Sheet Metal · FAA AC 43.13-1B CHG 1, Chapter 4, Tables 4-9 to 4-11 · FAA-H-8083-31, AMT Handbook — Airframe, Volume 1, Chapter 4 · ASTM B209, Aluminum and Aluminum-Alloy Sheet and Plate

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