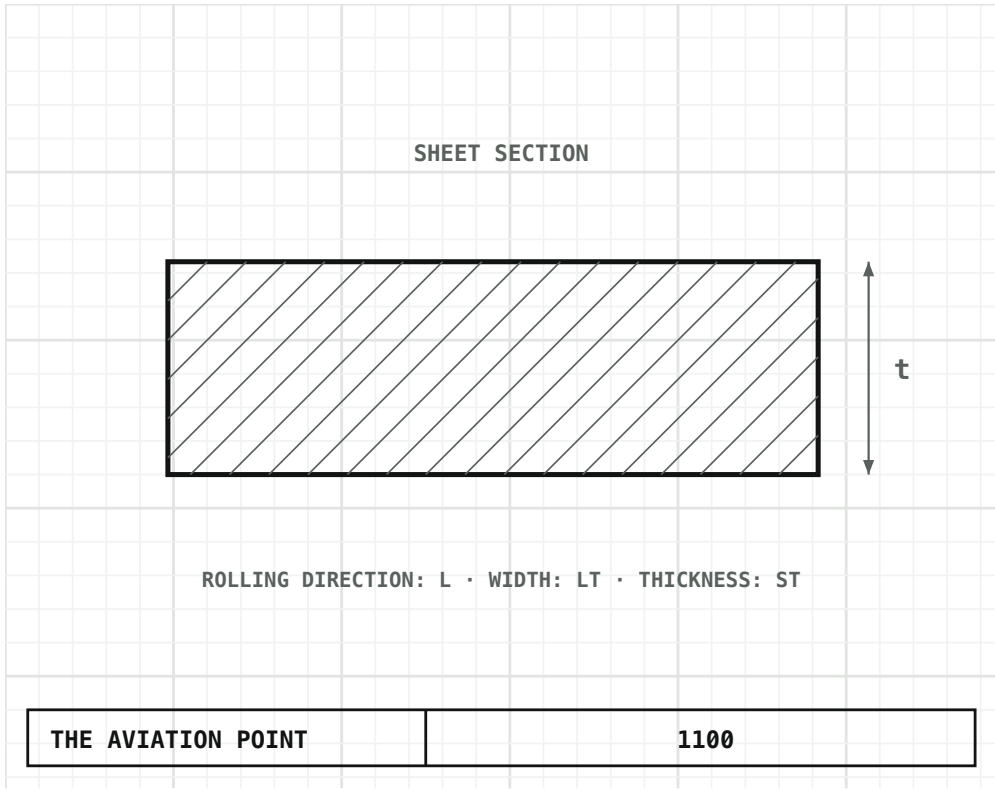
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1100 — wrought aluminum alloy

Commercially pure aluminum, used where strength does not matter and light weight and corrosion resistance do.



Schematic

Designation

Item	Value
Designation	1100
Class	Aluminum
Type	wrought aluminum alloy

Composition

Element	Limit
Si + Fe	0.95
Cu	0.05–0.20
Mn	0.05
Zn	0.10
Al	99.00 min

A single number is a maximum. Si + Fe is a combined maximum. Source: Aluminum Association Teal Sheets (Aug 2018).

Properties

Property	Value	Source
Density	0.098 lb/in³ (2.71 g/cm³)	Teal Sheets
Brinell hardness, O / H18	23 / 44	AC 43.13-1B Table 4-5
Rivet code and head	A, plain	AC 43.13-1B Table 4-8
Weldable	Yes	FAA-H-8083-31B, p. 4-30

1100 is not in MIL-HDBK-5J, and no strength value is given here.

Notes

- **Not a source of design allowables.** Values are for reference. MMPDS and the SRM govern a repair.
- **Not a substitution approval.** A different alloy or temper needs approved data.

SOURCES · FAA AC 43.13-1B CHG 1, Chapters 4 and 7 · FAA-H-8083-31B, AMT Handbook — Airframe, Volume 1, Chapter 4 · Aluminum Association, International Alloy Designations, rev. Aug 2018

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theaviationpoint.com/parts/materials/1100/

Reference data. The aircraft manufacturer's documentation (SRM / IPC) takes precedence.