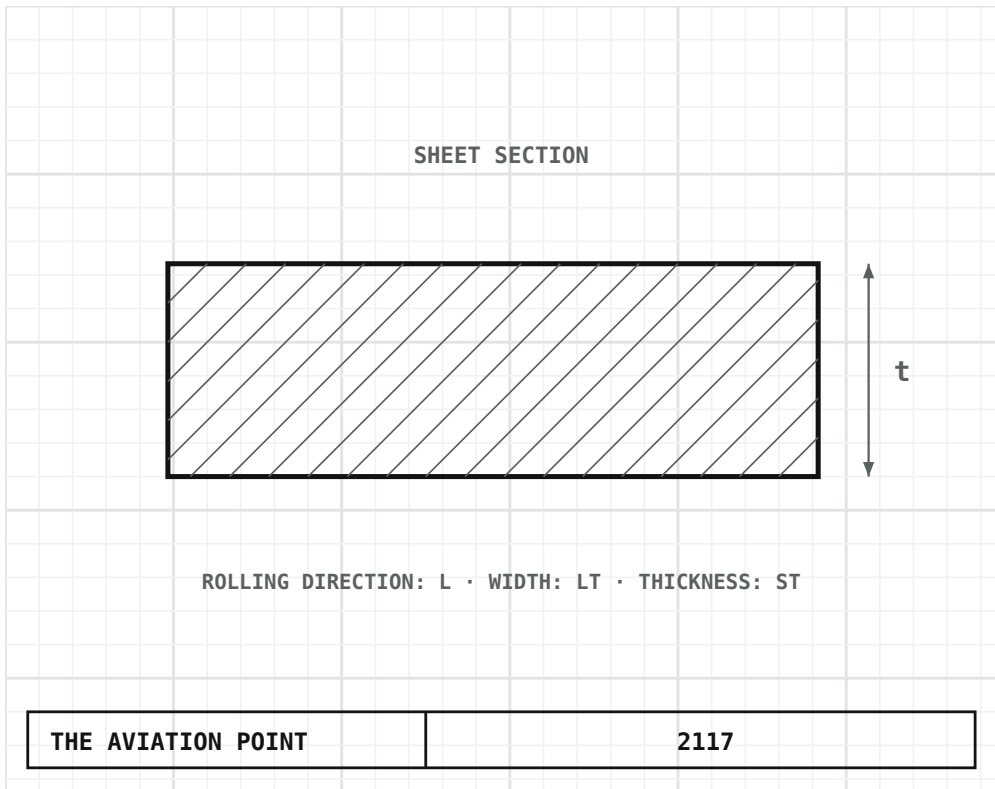
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2117 — wrought aluminum alloy

The alloy of the AD rivet, the most common rivet in aluminum structure.



Schematic

Designation

Item	Value
Designation	2117
Class	Aluminum
Type	wrought aluminum alloy

Composition

Element	Limit
Si	0.8
Fe	0.7
Cu	2.2–3.0
Mn	0.20
Mg	0.20–0.50
Cr	0.10
Zn	0.25
Al	Remainder

A single number is a maximum. Other elements: 0.05 each, 0.15 total, except where the Teal Sheets say otherwise. Source: Aluminum Association Teal Sheets (Aug 2018).

Properties

Property	Value	Source
Density	0.099 lb/in³ (2.75 g/cm³)	Teal Sheets
Rivet shear, driven 2117-T3	30 ksi	MIL-HDBK-5J Table 8.1.2(b)
Rivet shear, undriven 2117-T4	26 ksi	MIL-HDBK-5J Table 8.1.2(b)
Rivet code and head	AD, dimpled dot	AC 43.13-1B Table 4-8
Used in	Most aluminum alloy structures	AC 43.13-1B par. 7-2a

MIL-HDBK-5J has no bulk allowables table for 2117: it appears as a rivet material in Chapter 8.

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.
- **No sheet data.** 2117 is a rivet alloy here. No bend or sheet values are given.

SOURCES · FAA AC 43.13-1B CHG 1, Chapters 4 and 7 · MIL-HDBK-5J, Chapter 3 · Aluminum Association, International Alloy Designations, rev. Aug 2018 · MMPDS

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/materials/2117/

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