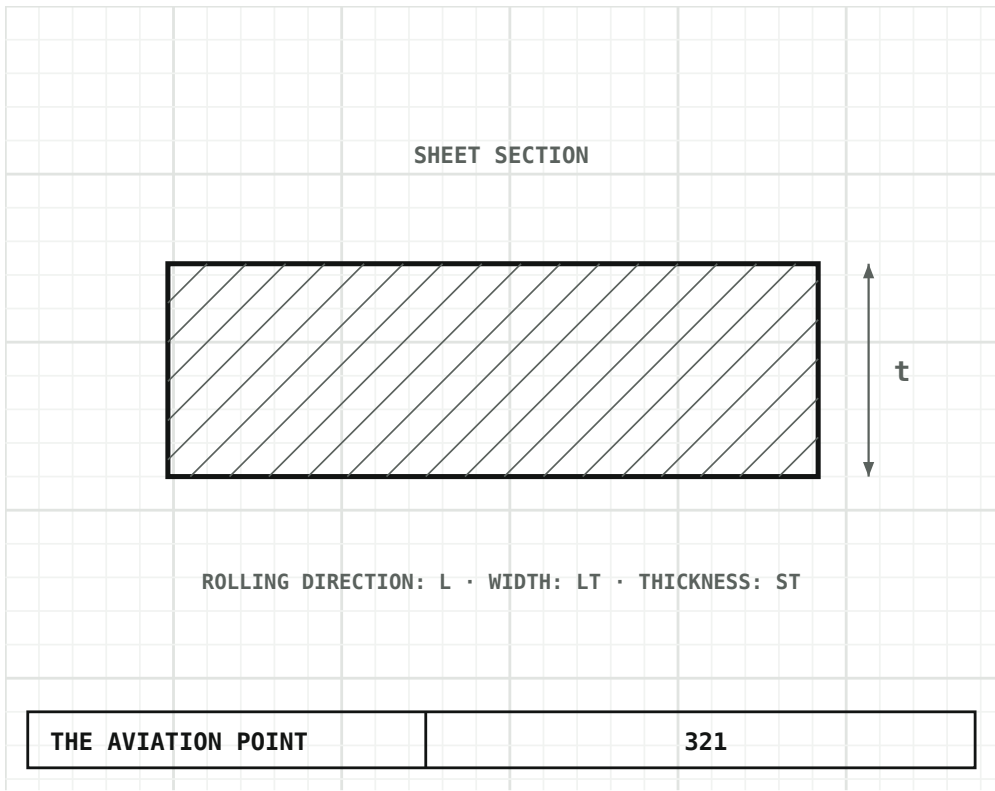
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321 — austenitic stainless steel

Stainless stabilized with titanium so it survives the heat of exhausts and collectors.



Schematic

Designation

Item	Value
Designation	321
Class	Steel and stainless
Type	austenitic stainless steel

Composition

Item	Limit	Source
Composition	Carbon 0.08 %, chromium 18 %, nickel 11 %, stabilized with titanium	AC 43.13-1B CHG 1, Table 4-3

Properties

Property	Value	Source
Class	Austenitic	AC 43.13-1B CHG 1, Table 4-3
Sheet, strip, plate	AMS 5510	SAE AMS 5510 (title)
Allowables	Not in MIL-HDBK-5J (checked); use the spec minimums, MMPDS or the manufacturer	MIL-HDBK-5J
Welding	Weldable like the other austenitic grades; the handbook lists 347 among fillers for austenitic types	AMT Handbook, p. 5-22

Notes

- **No allowables here.** Use the spec or MMPDS.
- **No weld procedure.** Follow the SRM.

SOURCES · FAA AC 43.13-1B CHG 1 · FAA-H-8083-31B, Aviation Maintenance Technician Handbook, Airframe, Volume 1 · SAE AMS 5510 · MMPDS

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/materials/321/

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