

7050 Aluminum Plate



Alro stocks 7050-T7451 plate in 1" through 6" thick

7050 aluminum plate with temper T7451 displays better corrosion resistance, exfoliation resistance, and toughness than standard high-strength alloys, making it very popular in the aerospace industry. This alloy maintains its strength properties in thicker sections while retaining good stress corrosion cracking resistance and fracture toughness levels.

7050 aluminum plate is one of the hardest, toughest, and durable aluminum alloys available. It offers superior through-hardened thickness, especially in thicker sections, as well as high stress corrosion cracking resistance. 7050 aluminum plate is ideal for a wide range of applications including military, space, and mobile equipment markets.

Specifications:

- Ultrasonic Tested per AMS 2154 and ASTM B594
- AMS 4050

Typical Applications:

- Aerospace applications where minimal maintenance and consistent, optimal strength are required
- Aerospace fuselage frames, wing skins, and bulkheads
- Airplane structural components
- Spacecraft



Typical Mechanical Properties

Alloy & Temper	Thickness Range	Axis of Test Specimen	Tensile Strength (ksi)	Yield Strength (ksi)	Elongation (% in 2")
7050-T7451	1.000 - 2.000	Longitudinal	74.0 (min.)	64.0 (min.)	10%
7050-T7451	2.001 - 3.000	Longitudinal	73.0 (min.)	63.0 (min.)	9%
7050-T7451	3.001 - 4.000	Longitudinal	72.0 (min.)	62.0 (min.)	9%
7050-T7451	4.001 - 5.000	Longitudinal	71.0 (min.)	61.0 (min.)	9%
7050-T7451	5.001 - 6.000	Longitudinal	70.0 (min.)	60.0 (min.)	8%

Note, the values above represent typical industry averages and should only be used for reference. Testing should always be done to ensure any new product meets all the requirements for your specific application.

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Pictured, the Alro Steel facility in Pottsville, Michigan



Alro Steel was founded in 1948 by brothers Al and Robert Glick in Jackson, Michigan. The company is a distributor of metals and plastics. Alro is focused on offering cut-to-size metals and plastics with next day delivery to over 50,000 customers in North America. Alro operates over 80 locations in 16 states and provides a broad inventory of products under the following companies: Alro Steel, Alro Metals, Alro Metals Outlet, and Alro Plastics. Focused on exceeding our customers' expectations, we build relationships with all our customers, large and small. [To learn more, please visit alro.com.](http://alro.com)

Metals	Bar	Pipe & Tube	Plate & Sheet	Structural	Grating & Exp. Metal
Alloy	●	●	●		
Aluminum	●	●	●	●	●
Brass	●		●		
Bronze	●	●			
Carbon Steel	●	●	●	●	●
Cast Iron	●	●			
Copper	●	●	●		
Stainless Steel	●	●	●	●	●
Tool Steel	●		●		

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