Brimar INDUSTRIES

Product Information Bulletin

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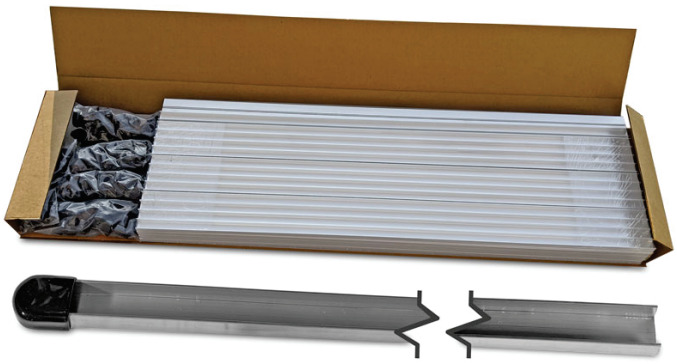
36" LONG ALUMINUM YARD SIGN STAKES



6063-T6 aluminum has medium strength, excellent corrosion resistance, and is easily anodized, making it ideal for construction and decorative applications like window frames and railings. It also offers good weldability, though its machinability is considered fair, requiring more effort than some other aluminum alloys.

Its key mechanical properties include a typical tensile strength of around 241 MPa (35,000 psi) and a yield strength of about 214 MPa (31,000 psi).

Details

- **Colors:** Silver and Black
- **Dimensions:** 36″ long × 3/4″ wide × 7/16″ deep.
- **Item Weight:** 4.6 oz (0.27 lbs).
- **Shipping Weight:** 34lbs (125 per Box)
- **Shipping Box Dimensions:** 45″ × 11.5″ × 3″
- **Mounting Holes**: None
- **Service Temp Range:** -40°F to 212°F.

Provided with a black safety cap.
Ideal for use with security yard signs.

KEY PROPERTIES

•High Corrosion Resistance:
This is a primary advantage of 6063-T6, especially in outdoor applications.

•Good Anodizing Quality:
It readily accepts an anodized finish, providing a desirable decorative surface and enhanced corrosion resistance.

•Excellent Weldability:
The alloy can be easily welded using standard methods like gas, electric, and resistance welding.

•Good Formability:
While the T6 temper offers higher strength, the T4 condition of 6063 alloy is known for its good formability.

•Fair Machinability:
It can be machined with standard tools but requires more time and effort compared to other alloys like 6061, which has better machinability and higher strength.

Mechanical Properties (Typical Values)
- Tensile Strength: Around 241 MPa (35,000 psi).
- Yield Strength: Approximately 214 MPa (31,000 psi).
- Modulus of Elasticity: Approximately 68.9 GPa (10,000 ksi).

Physical Properties
- Density: 2.70 g/cm³.
- Melting Point: 655 °C | 1211 °F.
- Thermal Conductivity: 201 W/m·K.