

Aluminum Panel Material and Thickness Data Sheet

The unique characteristics of aluminum make it ideally suited as a base material for decorative laser cut metal panels. The benefits listed below are key considerations for any interior or exterior project.

PANEL SPAN / THICKNESS EXAMPLE TABLE

THICKNESS	WEIGHT*	SPAN BETWEEN SUPPORTS**
1/8"	1.8 lbs/sf	24-36"
3/16"	2.6 lbs/sf	30-48"
1/4"	3.5 lbs/sf	36-52"

* Subtract pattern open % for final weight.

** General guideline only, please ask Parasoleil for project specific design assistance.

Choosing the perfect combination of material thickness and structural support span is critical to the success of your project.

Contact Parasoleil for expert engineering guidance to help you achieve the most appropriate design approach for your specific project goals.

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BENEFITS AND FEATURES

- Rust free
- Light weight for ease of installation
- 100% Recyclable
- Up to 5' x 10' max panel size

SPECIFICATIONS

- Aluminum Alloy: 5052-H32 Series
- Fire Rating: Non Combustible
- Tensile Yield Strength: 28,000 PSI
- Shear Strength: 20,000 PSI
- Melting Point: 1,200°F

PANEL THICKNESS SELECTION FACTORS

- Application type: shade, screen, cladding, etc.
- Panel span between supports
- Project wind and/or snow loads
- Documented code compliance requirements
- Panel fastening method
- Pattern geometry

1/8" THICK ALUMINUM PANELS

- Durable plus light weight for ease of installation
- Commonly used for:
 - Residential & commercial shade structures
 - Commercial ceilings
 - Commercial cladding with mid-panel support

3/16" AND 1/4" THICK ALUMINUM PANELS

- Good span capability with visual weight for brand conscious eye-level applications offers maximum flexibility of panel support member locations
- Commonly used for:
 - Commercial wider span shade structures
 - Commercial wider span cladding
 - Commercial screens