FLAT ALUMINUM SHEETS

PRODUCT DESCRIPTION

Ideal Products Aluminum 3003 and 3105 flat sheets are manufactured in 36" and 48" widths and produced from the 3003 and 3105 series aluminum, conforming to ASTM B-209 standards. The standard 48" stocked lengths are 8 ft., 10 ft., and 12 ft., but custom lengths are available upon request. The sheets are available in both bare form and with a Polyfilm Moisture Barrier (PFMB), which is a factory-applied 3 mil thick co-extruded polyethylene film. This interior film is laminated to the aluminum sheet using a process of heat and pressure, resulting in a highly effective moisture barrier.

For additional surface protection, a 7072/3004 Alclad or an exterior polyester factory-applied coating is available, which provides extra protection in corrosive ambient environments. It also helps prevent oxidation and resistance to the dulling of the aluminum.

PRODUCT APPLICATION

Ideal Products' flat aluminum sheets are manufactured for use in various cladding applications, particularly in mechanical insulation systems. These flat sheets are utilized to jacket square ducts, plenums, and tanks, providing physical damage resistance, corrosion resistance, fire resistance, UV protection, and helping to prevent liquid water from entering the insulation system. For higher levels of corrosion resistance, it is recommended to use Ideal Products Stainless Steel flat sheets. To determine the most suitable type of cladding for your application, please refer to Ideal Products' metal jacketing application guidelines or ASTM C1729 and ASTM C1767.

PHYSICAL PROPERTIES

FINISHES
SMOOTH | STUCCO EMBOSSED

COLORS
A large variety of colored exterior finishes can be added to Ideal Products Aluminum flat sheets for desired preferences or to reach specific emissivity levels. Please refer to Ideal Products standard color chart below for reference. Other colors are available upon request.

PAINTED COLORS

Color chips shown are standard colors and may not represent an exact match, painted metal samples and custom colors are available upon request.

MATERIAL SPECIFICATIONS

ALLOYS	3003, 3105, 7072/3004/7072 Alclad
TEMPERS	H14, H24
THICKNESSES	0.016", 0.020", 0.024", 0.032", 0.040"
WIDTH & LENGTH TOLERANCES	+/- 1/8"
MOISTURE BARRIERS	Factory Applied Co-extruded 3 mil Polyethylene Film
EXTERIOR COATING	Bare or Polyester Clear or Pigmented Coating
MELTING POINT	Aluminum: 660°C (1220°F) Polyfilm: 105–115°C (221–239°F)
ASTM E84 Flame Spread/ Smoke Development	25/50 or less
ASTM C1371 Surface Emittance	Smooth Bare: 0.04 new, 0.1 Oxidized in Service > 0.8 Pigmented Paint
ASTM C1729	Type I & II, Grade 1 & 5, Class A & E

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