

4X1 ALUMINUM BOX RIB SHEETS

PRODUCT DESCRIPTION

Ideal Products offers Aluminum 4 x 1 box rib sheets, specifically engineered to provide exceptional structural stiffness. These sheets feature continuous 1" high ribs spaced on 4" centers. Box rib sheets are typically manufactured using high-quality aluminum alloys such as 3003, 3105, Alclad 3004/7072, which adhere to the standards set by ASTM B-209. Other alloys available upon special request.

Standard stocked lengths for the box rib sheets are 8 ft., 10 ft., and 12 ft., but custom lengths up to 26 ft. can be accommodated upon request. The standard sheet width is 45 5/8", while widths of 38 1/2" or 27 1/2" are available for special orders. The standard thickness options for the aluminum box rib sheets are 0.032", 0.040", and 0.050". The sheets feature a stucco embossed surface finish as the norm.

For applications that require enhanced surface protection, an exterior polyester factory applied coating is available. This coating offers additional safeguarding in corrosive ambient environments, while also helping to prevent oxidation and maintain the aluminum's original luster. In addition to aluminum, Ideal Products can provide box rib sheets in stainless steel or other alloys upon request.

PRODUCT APPLICATION

Ideal Products flat aluminum 4 x 1 box rib sheets are manufactured to be used in various cladding applications particular to mechanical insulation systems. box rib is used to provide physical damage resistance, especially in high traffic areas, on roof tops and on large tanks. For greater levels of corrosion resistance, Ideal Products SST box rib should be used. To select the correct or best suited type of cladding for your application, please refer to Ideal Products metal jacketing application guidelines, or ASTM C1729 & C1767.

PHYSICAL PROPERTIES

FINISHES

SMOOTH PLAIN MILL | STUCCO EMBOSSED

COLORS

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

PAINT COLORS



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

SQUARE FEET PER SHEET

| SHEET LENGTH | SHEET WIDTH | | |
|--------------|--------------|--------------|--------------|
| | 45 5/8" | 38 1/2" | 27 1/2" |
| 8 FT (96") | 30.417sq/ft | 25.667 sq/ft | 18.333 sq/ft |
| 10 FT (120") | 38.020 sq/ft | 32.080 sq/ft | 22.917 sq/ft |
| 12 FT (144") | 45.625 sq/ft | 38.500 sq/ft | 27.500 sq/ft |

MATERIAL SPECIFICATIONS

| | |
|---|--|
| ALLOY | 3003, 3105, ALCLAD 3004/7072 |
| TEMPERS | H14, H24 |
| THICKNESSES | 0.032", 0.040", 0.050" |
| TOLERANCES | Within Lot: +/- 1/8" Length & Width Lot to Lot: +/- 1/2" |
| EXTERIOR COATING | Bare |
| MELTING POINT | 660 °C (1220 °F) |
| ASTM E84 Flame Spread/Smoke Development | 25/50 or Less |
| ASTM C1371 Surface Emittance | > 0.04 New; 0.1 Oxidized in Service > 0.8 Pigmented Paint |
| ASTM C1729 Class, Grade & Type | Type I & II, Grade 1 & 5, Class E |

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