

### **DESCRIPTION**

ITW Pabco/Childers Aluminum Roll Jacketing is manufactured from alloys 3105 and 3003, conforming to ASTM B-209 designation, half-hard temper (H-14) and heavier gauges quarter-hard (H-12 lock-forming quality).

Commercially pure aluminum is relatively soft as structural material. Its strength can be greatly improved by alloying aluminum with small percentages of one or more other elements such as manganese, silicon, copper, magnesium or zinc. Additional strength can be achieved by cold working, such as cold rolling.

#### **Standard alloys and nominal chemical composition**

<u>Alloy</u>	<u>Copper</u>	<u>Manganese</u>	<u>Magnesium</u>
3105		.6	.50
3003	.12	1.2	~

ITW reserves the right to ship whichever alloy is in stock at time of order placement, unless advised a specific alloy is requested (may affect lead-time and/or price). Other alloys are special order and minimum quantities and extended lead-time required.

ITW's aluminum roll jacketing is available in smooth, stucco embossed or 3/16 corrugations (cross-crimped) finishes.

### **POLYSURLYN MOISTURE RETARDER**

Polysurlyn consists of a 3 mil thickness of a co-extrusion of polyethylene and DuPont's Surlyn<sup>®</sup> which is heat laminated to the metal jacketing. Due to its superior performance characteristics, it replaces the old standard 1 mil and 3 mil polykraft moisture retarders. **For cold rooftop and hot work cyclical applications, refer to Technical Information for recommendations.**

### **THICKNESS & Suggested Applications**

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- .010"** (.25mm) Recommended 3/16" corrugated for use on lines up to 14" O.D. including insulation. An intermediate weight jacketing that is economical when used in areas not subject to mechanical abuse.
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- .016"** (.4mm) The standard for industrial use.  
& Recommended over insulated lines up to 36" O.D. including insulation.
- .020"** (.5mm)
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- .024"** (.6mm) A heavier weight jacketing used on larger diameter lines and large equipment up to 8 feet in diameter.
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- .032"** (.8mm) Used in special applications where extra thickness and protection is required, such as fabricated tank head covers and other special fabrications.
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- .040"** (1.0mm) Available in rolls, where extra heavy gauges are required because of severe mechanical abuse or special fabricating requirements, such as flat ducts or precipitators. Also recommended for areas subject to high wind conditions.
- .050"** (1.2mm)
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### **RECOMMENDED USES**

Jacketing is recommended for insulated piping, tanks and vessels less than 8 feet in diameter. Deep corrugated sheets are recommended for diameters greater than 8 feet.