PRECISION FIT

FABRICATED GORES

ALUMINUM

PRODUCT DESCRIPTION

Ideal Products' Aluminum precision fabricated 90° and 45° gores are CAD designed and CNC cut to ensure a proper fit per ASTM C585 standards for sweep and overlap. The standard material used for aluminum gores is 0.020" 3003 with a clear coat exterior and a painted moisture barrier or polyfilm moisture barrier. As these gores are custom made, they can be fabricated from any stocked material and thickness to precisely match your project specifications.

Ideal Products has the capability to accommodate custom angles and sweeps (centerline radius) as well as offer a range of stock colors if needed. The standard sweep option is a long radius that is 1.5 times the pipe size. However, precision fit gores can be designed to accommodate short radius (1 x pipe size), 3D, 5D, and 10D sweeps, providing flexibility for various applications.

All the fabrication materials used by Ideal Products meet the ASTM B209 standards, ensuring high-quality and reliable products.

PRODUCT APPLICATION

Aluminum precision fit gore elbow Jacketing is mainly used to provide physical damage resistance, corrosion resistance, fire resistance, UV protection, and to help prevent liquid water from entering the insulation system. Typical, but not limited to, applications include piping elbows, and other custom mechanical insulation profiles.

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.

RECOMMENDED APPLICATION THICKNESSES

ALUMINUM PIPE JACKETING *min. thickness*

OUTER INSULATION DAIMETER (in)	MINIMUM THICKNESS (in)	
	RIGID Insulation	NON-RIGID Insulation
≤ 8	0.016	0.016
over 8 – 11	0.016	0.020
over 11 – 24	0.016	0.024
over 24 – 36	0.020	0.032
over 36	0.024	0.040

**as per ASTM C1729*

MATERIAL SPECIFICATIONS

ALLOY	3003/3105
TEMPERS	H14/H24
THICKNESSES	0.016", 0.020", 0.024", 0.032", 0.040"
MOISTURE BARRIERS	Painted or Factory Applied Co-extruded 3 mil Polyethylene Film
MELTING POINTS	Aluminum: 660 °C (1220 °F) Polyfilm: 105 °C to 115 °C (221 °F to 239 °F)
ASTM E84 Flame Spread/Smoke Development	25/50 or Less
ASTM C1371 Surface Emittance	> 0.04 New; 0.1 Oxidized in Service; > 0.5 Clear Coat Exterior > 0.8 Pigmented Paint
ASTM C1729	Type I, II & III, Grade 1, Class A, D