

PRECISION FIT

FABRICATED GORES

STAINLESS STEEL



PRODUCT DESCRIPTION

Ideal Products' Stainless Steel precision fabricated 90° and 45° gores are meticulously designed using CAD software and cut with CNC precision to ensure a proper fit, adhering to the ASTM C585 standards for sweep and overlap. The standard material used for stainless steel gores is 0.016" T304 stainless steel without polyfilm. As these gores are custom made, they can be fabricated from any stocked material and thickness to perfectly match your project specifications. Ideal Products is able to accommodate custom angles and sweeps (centerline radius), as well as provide some stock colors as required.

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, offering flexibility for a wide range of applications.

All the fabrication materials used by Ideal Products meet the ASTM A240 standards, ensuring high-quality and durable products.

PRODUCT APPLICATION

Stainless steel 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 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.

RECOMMENDED APPLICATION THICKNESSES

STAINLESS STEEL PIPE JACKETING *min. thickness**

OUTER INSULATION DIAMETER (in)	MINIMUM ALLOWABLE THICKNESS (in)
≤ 8	0.010
over 8 – 11	0.010
over 11 – 24	0.010
over 24 – 26	0.016
Over 36	0.020

*as per ASTM C1767

MATERIAL SPECIFICATIONS

ALLOY	T304/T304L; T316/T316L
TEMPERS	Annealed
THICKNESSES	0.010", 0.016", 0.020", 0.024"
MOISTURE BARRIERS	Bare or Factory Applied Co-extruded 3 mil Polyethylene Film
MELTING POINTS	Stainless Steel T-304: 1400 °C to 1450 °C (2552 °F to 2642 °F) Stainless Steel T-316: 1370 °C to 1400 °C (2498 °F to 2552 °F) Polyfilm: 105 °C to 115 °C (221 °F to 239 °F)
ASTM E84 Flame Spread/Smoke Development	25/50 or Less
ASTM C-1371 Surface Emittance	> 0.15 New; 0.3 Oxidized in Service
ASTM C-1767	T-304: Type 1, Grade 1, Class A & E T-316: Type 1, Grade 2, Class A & E

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