

PRECISION FIT

VESSEL HEADS

STAINLESS STEEL



PRODUCT DESCRIPTION

Ideal Products' Stainless Steel precision fit heads are CAD designed and CNC cut to ensure a proper fit per ASTM C585 standards and ASME dished, flanged, 2:1 elliptical and reversed dished configurations. The standard material for stainless steel heads is 0.016" T304 without polyfilm. Because these are custom made, they can be fabricated from any stocked material and thickness, smooth or embossed, to meet your project specifications. Custom fit heads are supplied with beaded and crimped peels designed to be installed in a water shed fashion, a 12" diameter center head cap, and a 5 3/4" beauty ring to overlap the end of the peels. Fabrication materials meet ASTM A240 for stainless steel.

PRODUCT APPLICATION

Stainless steel precision fit heads are 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 horizontal and vertical tanks and vessels.

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 C1371 Surface Emittance	> 0.15 New; 0.3 Oxidized in Service
ASTM C1767	T-304: Type 1, Grade 1, Class E T-316: Type 1, Grade 2, Class E

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