

Product Data Sheet

ALLOYS:

Aluminum	3003, 3105
Tempers	H14, H24
Stainless Steel	T304, T316

THICKNESS:

Aluminum	.016", .020", .024", .032"
Stainless Steel	.010", .016", .020"

MOISTURE BARRIERS & COATINGS:

Polysurlyn, Painted, Bare, Acrylic

Description

Ideal Products Precision Fit vessel heads are pre-manufactured segments precisely engineered out of various types of metal cladding materials. These materials generally include aluminum and stainless steel conforming to ASTM standards B-209 and A-240. Designed precisely to fit and conform to ASTM tolerances C-450, and C-585, they can be easily installed without the requirements of any major on site fabrication. Various types of vessel heads include 2:1 Semi Elliptical, Hemispherical, Conical, and Spherical, while other custom designs are available upon request. Please specify your vessel diameter, insulation type, thickness, and type of head when ordering, while also including engineered drawings if possible.

Uses

Ideal Products Precision Fit heads are mainly used for the protection of insulation being installed on the vessel/equipment ends, top, or bottom, while also used especially whenever productivity and safety are key factors in the profitability of your project. Through sophisticated engineering and innovative processes, pre-fabricated heads drastically lower safety hazards while also saving tremendous time, labor, and waste materials, by eliminating the need for costly on-site fabrication. For the protection and cladding of the vessel body, please see Ideal Products' line of flat, rolled, and corrugated sheets.

Finishes

Smooth (Plain Mill) – Generally a standard finish with a clean smooth look, while also providing the best suit for water shed. However, smooth surfaces can readily show dirt or damages especially in an exposed environment. Smooth finishes can be highly reflective of sunlight and could possibly pose hazardous in some areas.

Stucco Embossed – This finish is rapidly becoming more popular as the stucco-like surface texture hides many imperfections like scratches and small damages that are commonly caused by the installation, handling of the product, and when exposed to high traffic areas. The stucco finish is a considerable alternate when looking for reduction of reflectivity, and added strength in a cost effective manner.

Head Types

2:1 Semi Elliptical, Hemispherical, Conical, Spherical

Conformance and Tolerances

ASTM A-240 - Standard Specification for Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications

ASTM B-209 - Standard Specification for Aluminum - Alloy Sheet and Plate

ASTM C450 - Standard Practice for Fabrication of Thermal Insulating Fitting Covers for NPS Piping, and Vessel Lagging

ASTM C585 - Standard Practice for Inner and Outer Diameters of Thermal Insulation for Nominal Sizes of Pipe and Tubing