

DEEP CORRUGATED SHEETS



PRODUCT DESCRIPTION

Ideal Products Deep Corrugated Sheets are formed from both Aluminum and Stainless Steel metal alloys conforming to ASTM B209 (Aluminum), and A-240 (Stainless Steel) standards. Typical alloys for aluminum are 3003, 3105, or 1100 with tempers of H14 (half hard), H12 (quarter hard), or dead soft. Standard alloys for Stainless Steel are T-304/T-304L, annealed temper (Grade 1) or T-316/T-316L, annealed temper (Grade 2).

Ideal Products offers two types of corrugation profiles. Each corrugation has alternating parallel grooves and ridges with a cross section approximating a sine wave of either 1.25" peak x 0.25" depth, or 2.5" peak x 0.5" depth. All corrugations are produced as per tolerances within ASTM C1729 & C1767.

Ideal Products Deep Corrugated sheets are produced with standard widths of 33" while lengths can be customized without restrictions*.

AVAILABLE COATINGS AND MOISTURE BARRIERS

table one

COATINGS		MOISTURE BARRIERS	
ALUMINUM	STAINLESS STEEL	ALUMINUM	STAINLESS STEEL
Bare	Bare	Bare	Bare
Painted		Painted	Polyfilm
		Polyfilm	

RECOMMENDED APPLICATION PROFILE

ALUMINUM

table two

THICKNESS (in)	RECOMMENDED PROFILE (in)
0.016"	1.25"
0.020"	1.25" or 2.50"
0.024"	2.50"
0.032"	2.50"

STAINLESS STEEL

table three

THICKNESS (in)	RECOMMENDED PROFILE (in)
0.010"	1.25"
0.016"	1.25" or 2.50"
0.020"	2.50"

PRODUCT APPLICATION

Deep Corrugated Sheets are designed to provide physical damage resistance, UV protection, and to shed liquid water, minimizing the amount entering the insulation system, particularly on larger vertical vessels and equipment 8' diameter or greater. It is not recommended to use Deep Corrugated Sheets on horizontal vessels, and only smooth or stucco embossed finishes should be considered. Equipment over 2 meters in diameter should have an expansion spring in each securing band for equipment operating at over 200°C, and two expansion springs spaced at 180 degrees apart if operating at over 400°C.

If greater levels of corrosion resistance are desired than that achieved with plain aluminum, a painted or coated aluminum (Types II, III, or IV) shall be considered. If even greater levels of corrosion resistance are desired, use of stainless steel jacketing should be considered.

It is important to identify the type of environment and application before selecting the type of profile and finish of the corrugated sheets. Repairing larger surfaces is not recommended as profiles may differ from manufacturer to manufacturer, therefore not providing the best finish, closure, and protection. Please refer to tables 2 & 3 for recommended thicknesses and profiles.

For further application specifications and recommendations, please refer to the industry best practice guides, or ASTM C1729 when using Aluminum, and C1767 when using Stainless Steel. Ideal Products also offers recommended installation and best practice guidelines.

PHYSICAL PROPERTIES

FINISHES

SMOOTH | STUCCO EMBOSSED

FLAMMABILITY

Stainless Steel and Aluminum Jacketing with and without a 3 mil Polyfilm moisture barrier have been tested for flammability using the industry standard ASTM E84 test method. All results were 25/50 or less Flame Spread/Smoke Development.

COLORS

A large variety of colored exterior finishes can be added to Deep Corrugated Sheets for desired preferences or to reach specific emissivity levels. Please refer to Ideal Products' standard color chart for reference. Other colors are available upon request.

NOTE: Please note that lengths may be limited to packaging, handling, and other logistics. A slight wave effect may also occur typically in longer sheets due to the extrusion process when produced. This generally does not affect the installation or quality of the product.

Safer. Smarter. Faster.

CANADA 1.800.299.0819 | USA 1.888.877.7685 | WWW.IDEALPRODUCTS.CA

