

# Kynar 500<sup>®</sup> or Hylar 5000<sup>™</sup> Pre-Finished Galvalume<sup>®</sup> Steel & Aluminum



Your Roof. For Life.™

## Description:

Union Corrugating Company prefinished Galvalume<sup>®</sup> steel and aluminum products are coated with a high performance fluoropolymer coating containing 70% polyvinylidene (PVDF) resin. The resin is combined with other proprietary resins and high quality ceramic and inorganic pigments for an extremely durable finish. It is a factory applied finish that is applied through roll coating to a properly cleaned and pre-treated substrate of AZ-50 Galvalume<sup>®</sup> steel or aluminum and then oven baked to cure. It is a two-coat system, composed of a topcoat over a high performance primer with a nominal 1.0 mil total dry film thickness. A wash coat of 0.3 to 0.4 dry film thickness is applied to the reverse side for added protection.

## Steel Specifications:

Standard 24 gauge (0.023" min.) AZ-50 Galvalume<sup>®</sup> steel sheet is produced according to ASTM specification A792/A792M "steel sheet, 50% aluminum-zinc alloy coated by the hot-dip process." Minimum yield 50 ksi. Special order gauges available in 26 or 22 gauge.

## Aluminum Specifications:

Standard 0.032", 3000 Series H14 aluminum sheet. Special order thicknesses available in 0.040" and 0.050".

## Application:

Prefinished Galvalume<sup>®</sup> steel and aluminum formed into continuous roof panels, soffit/wall panels, guttering, flashings, trim, and miscellaneous sheet metal roof components.

## CERTIFIED LABORATORY TEST REPORT SUMMARY

Test	Galvalume <sup>®</sup> Substrate
Abrasion Resistance ASTM D 968, Method A	Total Sand = 65 Liters, Plus or Minus 10 Liters
Cross Hatch Adhesion ASTM D 3359	No Loss of Adhesion
T-Bend ASTM D 4145	0T to 3T, No loss of adhesion
Pencil Hardness ASTM D 3363	HB Minimum
Specular Gloss at 60° ASTM D 523	25-35
Salt Spray ASTM B 117 1,000 hours	Creep from scribe no more than 1/16" (2mm) No Blisters
Humidity ASTM D 2247 100% Relative Humidity 2,000 Hours	No Blisters
Reverse Impact Resistance ASTM D 2794	3 x Metal Thickness in inch-pounds No Loss of Adhesion
South Florida Exposure ASTM D 2244 ASTM D 4214	Color: No more than 5Δ Hunter units at 20 years Chalk: Rating no less than 8 at 20 years Film integrity: 25 years
Flame Test ASTM E 84	Class A Coating
Water Immersion 500° Hours 100 F ASTM D 870	No Loss of Adhesion
Dew Cycle Weatherometer 1000 Hours ASTM D 3361	Color Change: No more than 5Δ Hunter units Chalk: Rating no less than 8
Acid Resistance ASTM D 1308 Procedure 7.2 (independent of substrate)	10% Hydrochloric Acid - 24 hours - No visible change 20% Hydrochloric Acid - 18 hours - No visible change 20% Sulfuric Acid - 18 hours - No visible change 25% Sodium Hydroxide - 1 hour - No visible change 20 % Muriatic Acid - 15 minutes - No visible change

Galvalume<sup>®</sup> is a registered trademark of BIEC.