ALUMINUM TRIM COIL SPECIFICATIONS - 3105 TYPE

SUBSTRATE, PAINT FINISH, & APPROVED PRODUCT APPLICATIONS

TECHNICAL INFORMATION ALUMINUM SUBSTRATE (Conforms to ASTM B209)

Alloy and Temper	Product Thickness	Tensile Strength - ksi		Minimum Elongation (2" Minimum Sample)
		Ultimate	Yield	
3105-H28 Trim Coil	.019 - .024	28.0	24.0	2 – 4%

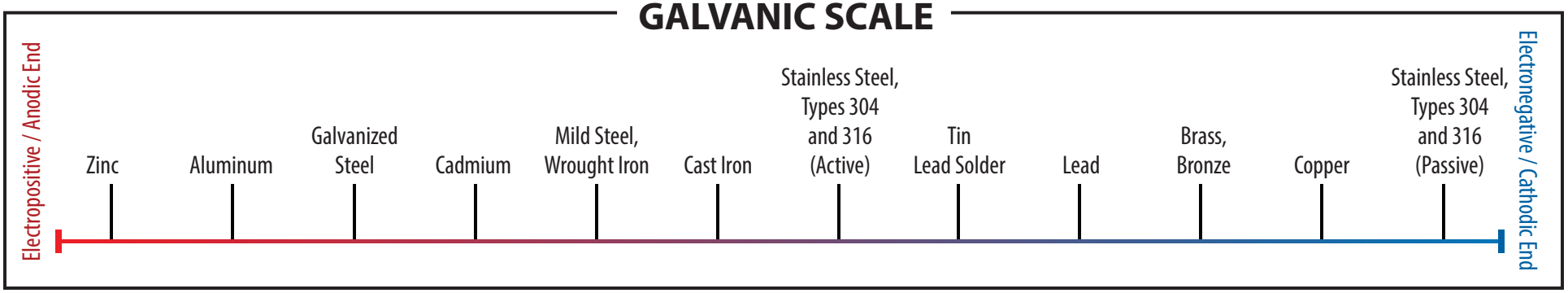
Recycled Content:

1. ACM Aluminum products are made from 92 - 99% recycled content. (Reference Plant Specific Green Circle documentation.)
2. ACM Aluminum products are 100% recyclable.

Substrate Considerations:

Care should be taken to avoid contact of any Aluminum materials with any corrosive materials during the installation, including, but not limited to: concrete, stucco, pre-treated lumber, cedar shake shingles, corrosive chemicals, fiber cement products, masonry cement, roofing materials made of metallic granules of dissimilar metals (Copper, Zinc, Steel, etc.) salt, and dissimilar metals. Electropositive (anodic) materials are more likely to corrode in contact with dissimilar metals in the presence of an electrolyte such as rainwater. The farther apart the metals are from each other on the Galvanic Scale (see below), the speed and the effect of the reaction will increase. Animal confinement buildings can produce waste decomposition by-products, which can be extremely aggressive towards the Aluminum material, creating significant corrosion problems.

GALVANIC SCALE



TECHNICAL INFORMATION - ALUMINUM PAINT FINISH

Quality of Match

1. Color Match not to exceed 1.5ΔE units difference from the Sherwin-Williams Color Standard upon the time of installation.
2. Colors exposed to the elements will fade overtime.
3. Metallic finishes appearance will vary due to chance alignment of flecks and viewing from different angles.

Available Finishes

1. Sherwin-Williams POLYPREMIER™
    a. Smooth
        i. Flat
        ii. Metallic

    b. Wood Grain Embossed
        i. Northern Pine
        ii. Southern Cedar

    c. Pebbled or Textured (Low Mar)

2. Sherwin-Williams Valshield™: PVC (Select Trim Coils)

SHERWIN-WILLIAMS COATING SYSTEMS

Coating System	Number of Coats	Primer	Color Coat	Total Topside DFT	Backer
POLYPREMIER™	2 Coat	.15 - .25 mils	.7 - .8 mils	.7 - .8mils	.2 - .3mils
Valshield™ PVC	2 Coat	.1 - .2	3.0 - 8.0 mils	3.0 - 8.0mils	.15 - .25 mils

Paint Finish Application

1. Pre-treatment: Metal shall be treated on both sides with zinc phosphate chemical conversion to ensure proper paint adhesion and resistance to corrosion.
2. Sherwin-Williams POLYPREMIER™ Two Coat Paint System shall be applied to one or both sides of coil.
3. Sherwin-Williams Valshield™ PVC PaintS ystem shall be applied on one side of select trim coils.
4. The bare side of one sided painted coils shall be coated with ACM Signature Green Polyester backer.

POLYESTER POLYPREMIER™ FINISH SPECIFICATIONS

Physical Testing POLYPREMIER™ Polyester	ASTM Test Method	Performance Test Result
Cross-Hatch Adhesion	ASTM D3359	No loss of adhesion between coating and substrate to point of metal rupture with 1/8” cross hatch scribe pattern through coating to bare metal.
Graffiti Resistance	ASTM D6578/ D6578M	Meets and exceeds.
Humidity Resistance	ASTM D2247 100% RH for 1000 Hours	No blisters or loss of adhesion.
Impact Resistance (Direct)	ASTM D2794	1.5x metal thickness inch-pounds, no loss of adhesion.
Pencil Hardness	ASTM D3363	F - 3H
Salt Spray	ASTM D1654 5% Salt Fog at 95°F for 1000 Hours.	No field blistering nor more than 1/8” creep from the scribe after 250 hours exposure.
T-Bend	AST D4145	1T - 2T, no loss of adhesion.

PVC VALSHIELD FINISH SPECIFICATIONS

Physical Testing Valshield™ PVC	ASTM Test Method	Performance Test Result
Film Adhesion (Dry, Wet, & Boiling Water)	ASTM D3359	No removal of film under tape in the cross-hatched area.
Humidity Resistance	ASTM D2247 100% RH at 100°F 2000 Hours	No field blisters or loss of adhesion.
Impact Resistance	ASTM D2794	1.5x metal thickness inch-pounds, no loss of adhesion.
Pencil Hardness	ASTM D3363	B-H
Salt Spray	ASTM D1654 2000 Hours	No field blistering nor more than 1/16” (2mm) creep from the scribe after 250 hours exposure.
T-Bend	ASTM D4145	0T - 1T, no loss of adhesion.
Specular Gloss 60°	ASTM D523	15 - 55

APPROVED PRODUCT APPLICATIONS

Trim Coil: ACM trim coil is designed for residential trim applications such as corners, frieze board, or wrapping fascia.