

# Right from the start.



Colour Chart





## Solar Reflectance Index (SRI)

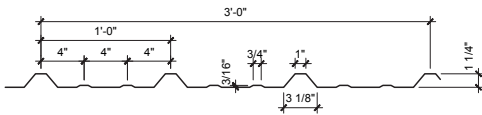
The SRI is used to determine compliance with LEED requirements and is calculated according to ASTM E 1980 using values for reflectance and emissivity. Emissivity is a material's ability to release absorbed energy.

To meet LEED requirements, a roofing material must have an SRI of 29 or higher for steep slope (above 2:12) roofing and an SRI value of 78 or higher for low slope (2:12 or less) roofing. For more information, please go to [www.usgbc.org](http://www.usgbc.org).

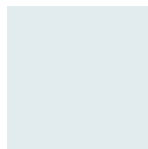
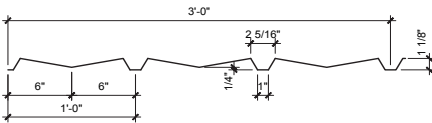
## COMMERCIAL, INDUSTRIAL & EXPRESS COLOURS

### SIGNATURE® 200 | SILICONIZED POLYESTER

#### PBR



#### AVP



POLAR WHITE ★  
SR .58 SRI 69



LIGHT STONE ★  
SR .50 SRI 58



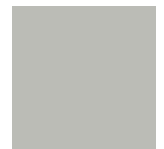
FERN GREEN ★  
SR .28 SRI 29



HAWAIIAN BLUE ★  
SR .32 SRI 35



DESERT SAND  
SR .42 SRI 48



ASH GRAY ★  
SR .48 SRI 56



SADDLE TAN ★  
SR .48 SRI 56



RUSTIC RED ★  
SR .36 SRI 40



COBALT BLUE ★  
SR .28 SRI 30



CHARCOAL GREY ★  
SR .28 SRI 30



KOKO BROWN ★  
SR .28 SRI 29

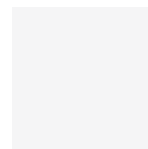


BURNISHED SLATE ★  
SR .28 SRI 29



CRIMSON RED ★  
SR .33 SRI 34

### SIGNATURE® 300 STANDARD COLOURS | KYNAR 500® | HYLAR 5000®



SNOW WHITE ★  
SR .65 SRI 79



ALMOND ★  
SR .63 SRI 76



SLATE GRAY ★  
SR .37 SRI 41



HARBOR BLUE ★  
SR .28 SRI 30



BRITE RED ★  
SR .49 SRI 55



BROWNSTONE ★  
SR .47 SRI 54



MEDIUM BRONZE ★  
SR .33 SRI 36



CLASSIC GREEN ★  
SR .28 SRI 30

## Solar Reflectivity (SR)

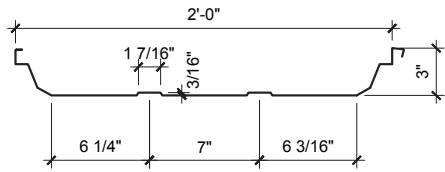
Solar reflectivity or reflectance (SR) is the ability of a material to reflect solar energy from its surface back into the atmosphere. the SR value is a number from 0 to 1.0. A value of 0 indicates that the material absorbs all solar energy and a value of 1.0 indicates it is all reflected. ENERGY STAR requires SR testing of both new and aged roof products.

New products must have an SR value of 0.25 or higher for steep slope (above 2:12) roofing and an SR value of 0.65 or higher for low slope (2:12 or less) roofing. Aged testing takes 3 years to complete, so not all products that meet the initial requirements are qualified. For more information, please go to [www.energystar.gov](http://www.energystar.gov).

## ARCHITECTURAL COLOURS

### SIGNATURE® 200 | SILICONIZED POLYESTER

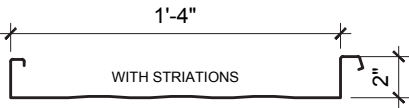
#### DOUBLE-LOK®



Field Seamed System  
12" and 18" also available



#### BATTENLOK® HS

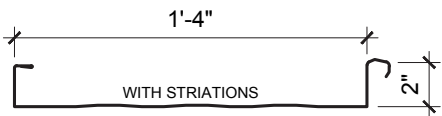


Field Seamed System  
12" also available

### SIGNATURE® 300 STANDARD COLOURS | KYNAR 500® | HYLAR 5000®

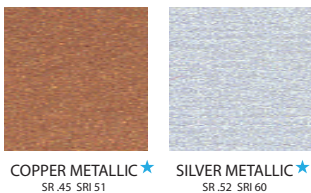


#### SUPERLOK®



Field Seamed System  
12" also available

### SIGNATURE® 300 METALLIC | KYNAR 500® | HYLAR 5000®



Note: Metallic coatings are directional. Panels and trim must be installed oriented in the same direction to prevent perceived shade variances. Directional arrows are on the back side of panels and trim to aid in the proper orientation.

## Signature® 200 SPECIFICATIONS

### Product Name

Signature® 200, a premium coating with proven, proprietary polymer and premium pigments.

### Product Description

**Uses:** Signature® 200 is a factory-applied and oven-baked protective coating used on GALVALUME®, galvanized steel or aluminum substrate. Signature® 200 combines excellent physical characteristics and aesthetic values for metal panels and components. Its uses in architectural, industrial, commercial, residential and institutional metal construction are numerous. Signature® 200 coatings are formulated for hardness and flexibility, making it a versatile and durable coating system when applied over a proprietary, corrosion-resistant primer.

**Limitations:** Since Signature® 200 coatings require baking to cure, they cannot be field applied. Signature® 200 coatings are not approved for use on hot or cold rolled bare steel substrates intended for exterior exposure.

**Composition and Materials:** Signature® 200 is a thermoset coating

consisting of a proprietary polyester resin modified by silicone resin intermediate. Signature® 200 uses premium, proven-durability ceramic pigments which give superior exterior protection and resistance to chemical corrosion and ultraviolet radiation.

**Colour:** Signature® 200 coatings are available in a wide range of standard, field-proven colours. Special colours are available (minimum quantity requirements may apply) if approved by manufacturer. Polar White may not meet these specifications – please inquire.

### Installation

The Signature® 200 system is factory applied over metal substrates using the coil coating process. Surfaces shall be chemically cleaned and pretreated according to manufacturers' specifications to remove contaminants and provide acceptable corrosion resistance. Total dry film thickness of topcoat (Signature® 200 protective coating and primer) is within the 0.9 - 1.05 range for coil coated applications. The pretreated substrate is primed with 0.2 - 0.25 mil of a high performance primer. The Signature® 200 protective coating is applied over the primed substrate at 0.7 - 0.8 mil. The Signature® 200 systems incorporate outstanding exterior durability, while affording superior coil line application and post-forming capabilities.

### Warranty

The Signature® 200 warranty is backed by the strictest production specifications and is one of the strongest in the industry. Details and further information are available by contacting the manufacturer.

### Maintenance

The factory applied finish of Signature® 200 is baked-on coating designed to give trouble-free performance for years with little service required. However, mild detergents and/or mineral spirits are recommended for removal of surface dust and airborne chemical deposits. Air-dry touch-up paints are also available for repair of minor scratches.

### Technical Assistance

Complete technical information and literature is available from manufacturer.

Signature® is a registered trademark of NCI Group, Inc.  
KYNAR® 500 is a registered trademark of Arkema, Inc.  
HYLAR® 5000 is a registered trademark of Solvay Solexis.  
GALVALUME® is a registered trademark of BIEC International Inc.

## TECHNICAL DATA–PHYSICAL PROPERTIES

PROPERTY	VALUE	TEST DESIGNATION	
<b>Gloss @ 60°</b>	20-80	ASTM D523	(1) 2T to 4T, No loss of adhesion.
<b>Film Hardness</b>	F-Min (Eagle Turq.)	ASTM D3363	(2) No field blisters.
<b>Impact Resistance, 3x Metal Thickness</b>	No Adhesion Loss	ASTM D2794	(3) ≤1/8 inch creep from scribe, few blisters, rating of 8.
<b>Cross-Hatch Adhesion</b>	No Adhesion Loss	ASTM D3359	(4) Chalk rating no less than 8. Colour change, no more than 5ΔE Hunter units.
<b>Formability: T-Bend</b>	(1) Acceptable	ASTM D4145	(5) 10% Hydrochloric acid solution 24 hours no visible changes.
<b>Abrasion Resistance, Falling Sand</b>	35 ± 5 Liters	ASTM D968	25% sodium hydroxide 1 hour test no visible change.
<b>ACCELERATED TESTS:</b>			
<b>Humidity, 1,000 hrs.</b>	(2) Acceptable	ASTM D2247	
<b>Dew Cycle Weatherometer, 200 Total Hours</b>	(4) Acceptable	ASTM D3361	
<b>Salt Spray, 1,000 hrs.</b>	(3) Acceptable	ASTM B117	
<b>Chemical Spot Test</b>	(5) Acceptable	ASTM D1308	

## Signature® 300 and Signature® 300 Metallic SPECIFICATIONS

### Product Name

Signature® 300 and Signature® 300 Metallic, a premium fluoropolymer low gloss coating, produced with KYNAR® 500 or HYLAR® 5000 resin.

### Product Description

**Basic Uses:** Signature® 300 coatings are specified by leading architects and used by manufacturers of metal curtain wall and other building products as a long-life exterior finish for aluminum, galvanized steel and Galvalume®. The liquid coating is factory applied and oven baked on properly prepared and primed substrates. Signature® 300 coatings typically are used as exterior finishes for metal roofing, siding, louvers, fascia, curtain wall, spandrel paneling and column covers. The building components can be post-formed from pre-coated coil stock.

**Limitations:** Since Signature® 300 coatings require baking to cure, they cannot be field applied. Signature® 300 coatings are not approved for use on hot or cold rolled bare steel substrates intended for exterior exposure.

**Composition and Materials:** Signature® 300 coatings are based on 70% KYNAR® 500 or HYLAR® 5000 PVDF fluoropolymer resin. They also

are formulated with highly durable pigments and solvents blended for optimum application properties.

**Colour:** Signature® 300 coatings are available in a wide range of standard, field-proven colours. Special colours are available (minimum quantity requirements may apply) if approved by manufacturer.

### Technical Data

See Chart Below.

### Installation

Signature® 300 coatings may be coil coated on HDG steel, Aluminum or Galvalume® substrates that have been pretreated and primed according to manufacturer specifications. The entire system is applied in the factory and oven baked. Topcoat dry film thicknesses are within the 0.9-1.1 mil range (Note: which refers to the combination of primer and the Signature® 300 protective coating) for coil coated applications. The pretreated substrate is primed with 0.2 - 0.30 mil of a high performance primer. The Signature® 300 protective coating is applied over the primed substrate at 0.7 - 0.8 mil. The flexibility of the system permits coil-coated stock to be post-formed by either a roll former or press brake. All applicators of Signature® 300 coatings must have the approval of manufacturer. A list of approved applicators is available upon request.

### Warranty

The Signature® 300 warranty is backed by the strictest production specifications and is one of the strongest in the industry. Details and further information are available by contacting manufacturer.

### Maintenance

Signature® 300 coatings are virtually maintenance free and non-staining. If necessary, surface residue may be removed by conventional cleaning solvents or detergents. Minor scratches may be touched-up with a specially formulated, field-applied coating of the same colour.

Signature® 300 coatings can be used in conjunction with conventional sealants and caulking compounds. Mortar, plaster, etc. will neither adhere to nor stain the surface.

### Technical Assistance

Complete technical information and literature is available from manufacturer.

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GALVALUME® is a registered trademark of BIEC International Inc.

## TECHNICAL DATA–PHYSICAL PROPERTIES

Property	Value	Test Designation	
<b>Gloss @ 85°</b>	8-15	ASTM D523	(1) No evidence of cracking, and no loss of adhesion to the point of metal rupture.
<b>Film Hardness</b>	HB-Min (Eagle Turq.)	ASTM D3363 (NCCA II-12) (2)	(2) No removal of finish after 1/16-inch cross-hatching to bare metal, to impact limits or point of metal rupture.
<b>Impact Resistance, .5" Ball Indenter, 3x Metal Thickness</b>	(8) Acceptable	ASTM D2794	(3) No cracking, peeling, blistering, loss of adhesion or corrosion of base metal. Chalk rating of 8 per ASTM D4214. Colour change less than 2ΔE per ASTM D2244.
<b>Formability:</b>	(1) Acceptable	ASTM D522	(4) Rating of 10, no blistering, cracking, creepage or corrosion per ASTM D1654.
<b>180° bend around 1/8" mandrel</b>	(2) Acceptable	ASTM D3359 (NCCA II-5)	(5) No more than 5/32-inch average creepage from scribed line rating of 7, field test rating of 8 per ASTM D1654.
<b>Adhesion</b>	67 Liters	ASTM D968	(6) No more than 1/32-inch creepage from scribed line, rating of 8.
<b>Abrasion Resistance, Falling Sand</b>	(3) Acceptable	ASTM D4587, G53, or G154	(7) No blistering, rating of 10 per ASTM D1654.
<b>Accelerated Weathering, 5,000 hrs. exposure</b>	(4) Acceptable	ASTM D2247, Apparatus A1	(8) 10% Hydrochloric acid solution 24 hours no visible changes. 25% sodium hydroxide 1 hour test no colour change, no blistering.
<b>Humidity, 3,000 hrs.</b>	(5) Acceptable	ASTM B117 (NCCA III-2)	(9) Reverse impact and direct impact, no cracking or loss of adhesion.
<b>Salt Spray, 2,000 hrs.</b>	(6) Acceptable	ASTM D5894	
<b>Cyclic Salt Fog/UV exposure, 3,000 hrs.</b>	(7) Acceptable	ASTM D1308	
<b>Chemical Spot Test</b>			

Descriptions and specifications contained herein were in effect at the time this publication was approved for printing. We reserve the right to discontinue products at any time or change specifications and/or designs without notice and without incurring obligation.