



Your Roof. For Life.™

# LEED Color Chart

- PVDF Paint System (KYNAR 500® or HYLAR 5000®)
- 24 & 22\* Gauge Galvalume® Steel Substrate

## Standard Colors



## Premium Colors\* (See reverse for additional Premium Color choices.)



## Non-Painted

### LEED-NC 2.2 GREEN BUILDING RATING SYSTEM CREDIT INFORMATION

- SS Credit 7.2 Heat Island Affect: Roof
  - All colors above meet Steep-Sloped Roof (>2:12) with Solar Reflectance Index ≥ 29
  - ● = Meets Low-Sloped Roof (≤2:12) with Solar Reflectance Index ≥ 78
- MR Credit 4.1 Recycled Content 10% = All Union steel coil products meet this requirement
- MR Credit 4.2 Recycled Content 20% = All Union steel coil products meet this requirement
- MR Credit 5.1 Regional Materials = Consult Union for location of manufacture from one of ten regionally located manufacturing facilities

### ENERGY STAR® INFORMATION

- All colors above are ENERGY STAR rated for steep slope roof (>2:12)



### NOTES:

\* 22 gauge and premium colors require nominal surcharge and minimum order quantities. PVDF colors on this chart do not match colors on the Union SMP color chart. Colors shown have been matched as accurately as possible to actual finish. For exact color match, please request a metal color sample. Availability of colors and materials are subject to change. Custom colors are available. Minimum quantities will apply.

## PERFORMANCE DATA

COLOR	INITIAL SOLAR REFLECTANCE	3 YR. SOLAR REFLECTANCE	INITIAL THERMAL EMITTANCE	SOLAR REFLECTANCE INDEX
Aged Copper	0.49	0.49	0.87	56
Almond	0.63	0.61	0.87	75
Ash Gray	0.52	0.53	0.89	60
Burgundy	0.25	0.23	0.85	23
Champagne Metallic	0.37	0.35	0.80	37
Charcoal Gray	0.29	0.30	0.88	29
Colonial Red	0.30	0.30	0.88	30
Copper Metallic	0.49	0.47	0.86	56
Dark Bronze	0.31	0.32	0.87	32
Evergreen	0.31	0.31	0.87	32
Hartford Green	0.31	0.31	0.87	32
Hemlock Green	0.32	0.32	0.87	33
Mansard Brown	0.31	0.32	0.87	32
Matte Black	0.30	0.30	0.87	30
Medium Bronze	0.31	0.32	0.87	32
Pacific Blue	0.26	0.25	0.85	24
Patina Green	0.28	0.28	0.87	28
Pre-Weathered Galvalume	0.30	n/a	0.79	27
Regal Blue	0.26	n/a	0.85	24
Regal Red	0.44	0.44	0.87	49
Regal White	0.72	0.70	0.87	87
Sandstone	0.62	0.60	0.87	73
Sierra Tan	0.52	0.50	0.87	60
Silver Metallic	0.60	0.60	0.76	69
Slate Blue	0.36	0.36	0.87	38
Slate Gray	0.43	0.44	0.87	48
Stone White	0.63	0.61	0.87	75
Solar White	0.68	0.66	0.85	82
Teal	0.25	n/a	0.86	24
Terra Cotta	0.40	0.40	0.87	44
Acrylic Coated Galvalume	0.67	0.55	0.14	56

### ENERGY STAR Requirements

Initial Solar Reflectivity  
 Steep Slope Roofs (>2:12) ≥ 0.25  
 Low Slope Roofs (≤2:12) ≥ 0.65  
 3 Year Solar Reflectivity  
 Steep Slope Roofs (>2:12) = 0.15  
 Low Slope Roofs (≤2:12) = 0.50

### LEED 2.2 Requirements

Solar Reflectance Index (SRI)  
 Steep Slope Roofs = ≥ 29  
 Low Slope Roofs = ≥ 78

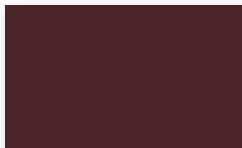
## Premium Colors\* - Non LEED Certified



PATINA GREEN ■



TEAL



BURGUNDY ■



PACIFIC BLUE



REGAL BLUE



PRE-WEATHERED GALVALUME

■ = ENERGY STAR rated for steep slope roof (>2:12)

## CERTIFIED LABORATORY TEST REPORT SUMMARY

**Specular Gloss at a glossmeter angle of 60° (ASTM D 523)**  
 35% ± 5%

**Pencil Hardness (ASTM D 3363)**  
 Minimum pencil hardness is "HB"

**Solvent Resistance (ASTM D 5402)**  
 Passes minimum of 100 double rubs of a MEK soaked cloth

**Cross-Hatch Adhesion (ASTM D 3359)**  
 No paint removal with Scotch #610 cellophane tape after cross-scoring with eleven horizontal and eleven vertical lines 1mm apart

**Impact Resistance (ASTM D 2794)**  
 No visible paint removal with Scotch #610 cellophane tape after direct and reverse impact of 80-inch pounds, using 5/8" steel ball on a Gardner Impact Tester

**T-Bend Adhesion (ASTM D 4145)**  
 No loss of adhesion when taped with Scotch #610 cellophane tape when subjected to a 2T-Bend

**Humidity Resistance (ASTM D 2247)**  
 No blistering, cracking, peeling, loss of gloss or softening of the finish after 1000 hours of exposure to 100% humidity at 100°F ± 5°F

**Cleveland Condensing (ASTM D 4585)**  
 No blistering, rusting or loss of adhesion of the finish after 1000 hours of exposure at 120°F

**Water Immersion Resistance (ASTM D 870)**  
 Samples immersed in distilled water at 100°F will exhibit no loss of gloss, blistering, cracking or color change after 500 hours

**Salt Spray Resistance (ASTM B 117)**  
 Samples diagonally scored and subjected to 5% neutral salt spray for 1000 hours, then taped 1 hour after removal from the test cabinet with Scotch #610 cellophane tape, exhibit no blistering, no loss of adhesion and scribe creep no greater than 1/8"

**Chemical Resistance (ASTM D 1308)**  
 No significant color change after 24 hours exposure to 10% solutions of hydrochloric and sulfuric acids, Procedure 7.2 (spot test)

**Kesternich Test (ASTM G 87)**  
 No significant color change after 10 cycles in a SO<sub>2</sub> chamber

**Accelerated Weathering (ASTM G 151 and 154)**  
 5 Hunter ΔE maximum color change, and at least #8 chalk rating after 10,000 hours exposure, using UVA-340 bulbs

**Exterior Weathering (ASTM D 2244 and ASTM D 4214 Method A)**  
 Florida exposure (45° South), 5 Hunter ΔE maximum color change, per ASTM D 2244, and at least #8 chalk rating, per ASTM D 4214, Method A, after 20 years real-time exposure

**Abrasion Resistance (ASTM D 968 Method A)**  
 Passes 60 ± 5 liters/mil of falling sand

**Flame Spread Rating (ASTM E 84)**  
 Displays a flame spread classification of A (Class 1)

### PLANT LOCATIONS

Corporate Headquarters  
 701 S. King St.  
 Fayetteville, NC 28301  
 (888) 685-7663

490 Oak Road  
 Ocala, FL 34472  
 (800) 331-3584  
 1463 Interplex Circle  
 Ceres Industrial Complex  
 Vicksburg, MS 39183  
 (888) 661-0577

101 Lexington Ave.  
 Spencer, NC 28159  
 (800) 526-8156

200 Coe Rd.  
 Anderson, SC 29624  
 (800) 544-5169

1801 West High Street  
 Piqua, OH 45356  
 (877) 615-9812

3365 US Hwy 41 South  
 Tifton, GA 31794  
 (800) 962-9131

600 N. Sara Road  
 Suite B  
 Yukon, OK 73099  
 (866) 373-5286

12435 James Madison Hwy  
 Orange, VA 22690  
 (800) 762-6785

1019 Underwood Rd.  
 Olyphant, PA 18447  
 (866) 695-6455