

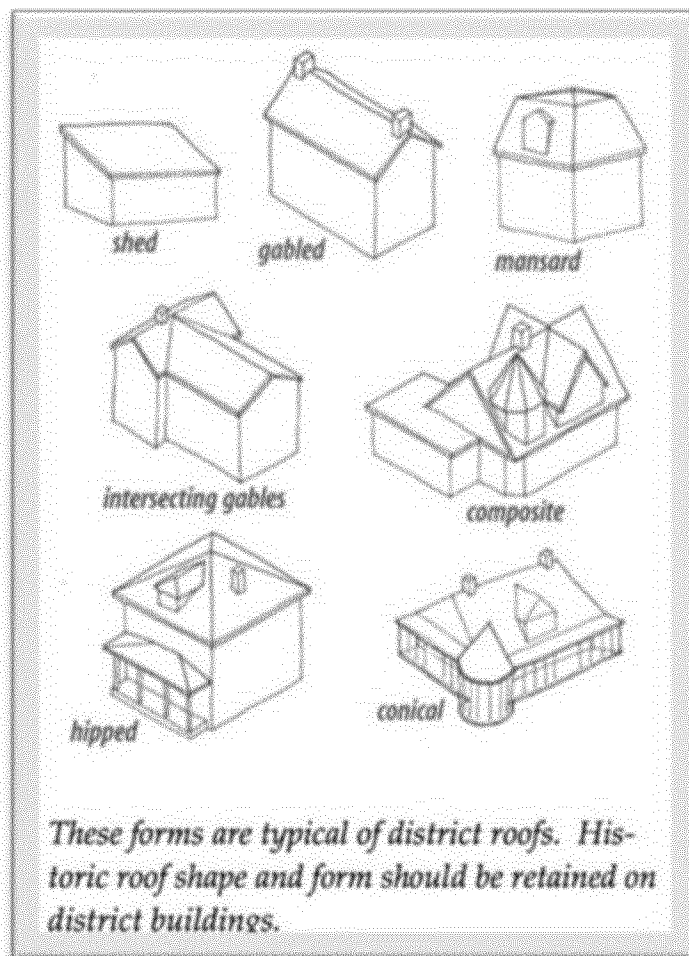
A. ROOFS

1. Any changes or additions to the configuration of an existing roof must be compatible with the architectural style of the existing structure and **must** be congruous with the Pinehurst Historic District.
2. Roofs and roof forms that contribute to the overall character of a structure, including their functional and decorative features, such as roofing materials, cresting, dormers, chimneys, cupolas, and cornices should be retained and preserved. Likewise, roofing materials should be preserved and retained.
3. If a roof feature, such as a dormer, is completely missing and is to be replaced, it should be replaced with a new feature based on the original feature or a new design compatible in scale, size, material, and color with the architectural style of the existing roof.

4. If repair or replacement of an entire roof is necessary, the new material should match the existing material in composition, dimension, size, shape, color, pattern, and texture.
5. Metal roofs used to replace existing non-metal roofs are allowed but **must** be compatible with the existing structure. If painted, such roofing must match a color selected from the Village of Pinehurst Roofing Color Palette.

Unpainted, naturally weathering metals such as copper, terne, and zinc are also allowed. Exposed galvanized metal is not appropriate.

6. Vents, including soffit vents and low-profile ridge vents, must be installed in a manner that does not diminish the original design of the roof or destroy the character of roof details.
7. Gutters and downspouts must be installed so that character-defining architectural features of the structure are not damaged or lost. Such gutters and downspouts must match a color selected from the Village of Pinehurst Color Palettes or a naturally weathering metal. Gutters and downspout colors should be harmonious with adjacent roof, wall, and trim colors.
8. Roof ventilators, attic fans, solar panels, and the like, should be located as inconspicuously as possible.
9. Skylights should be placed as inconspicuously as possible on the rear roof surface and should have a flat profile.
10. Glazed roofs such as can be found on greenhouses and conservatories are acceptable if compatible with the architecture of the existing house.



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3. If a roof feature, such as a dormer, is completely missing and is to be replaced, it should be replaced with a new feature based on the original feature or a new design compatible in scale, size, material, and color with the ~~structure, roofline and the Pinehurst Historic District~~ architectural style of the existing roof.

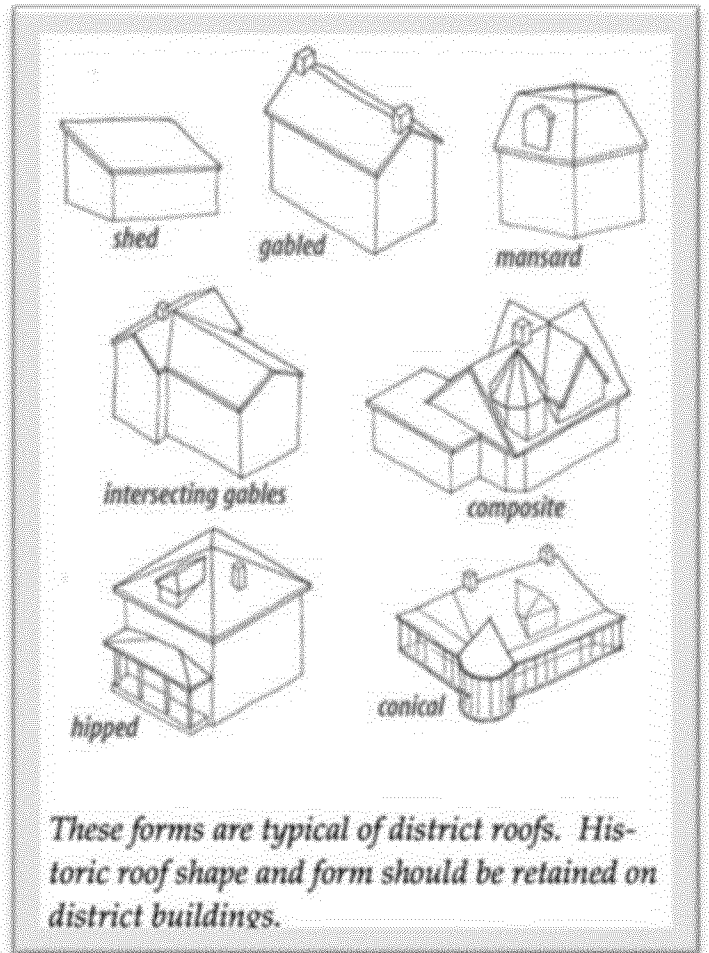
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5. Metal roofs used to replace existing non-metal roofs are allowed but the material **must** be compatible with the existing structure and the metal **must** be copper or one of the following colors:

~~weathered copper color, dark brown, dark bronze, dark gray, dark green, dark silver or black.~~ If painted, such roofing must match a color selected from the Village of Pinehurst Roofing Color Palette.

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8. ~~Replacement gutters and downspouts should be coated with paint or a baked enamel finish in a color in the Village of Pinehurst Color Palette, unless they are made of copper.~~
9. ~~Roof ventilators, solar attic fans, and solar panels, and the like, should be located as inconspicuously~~



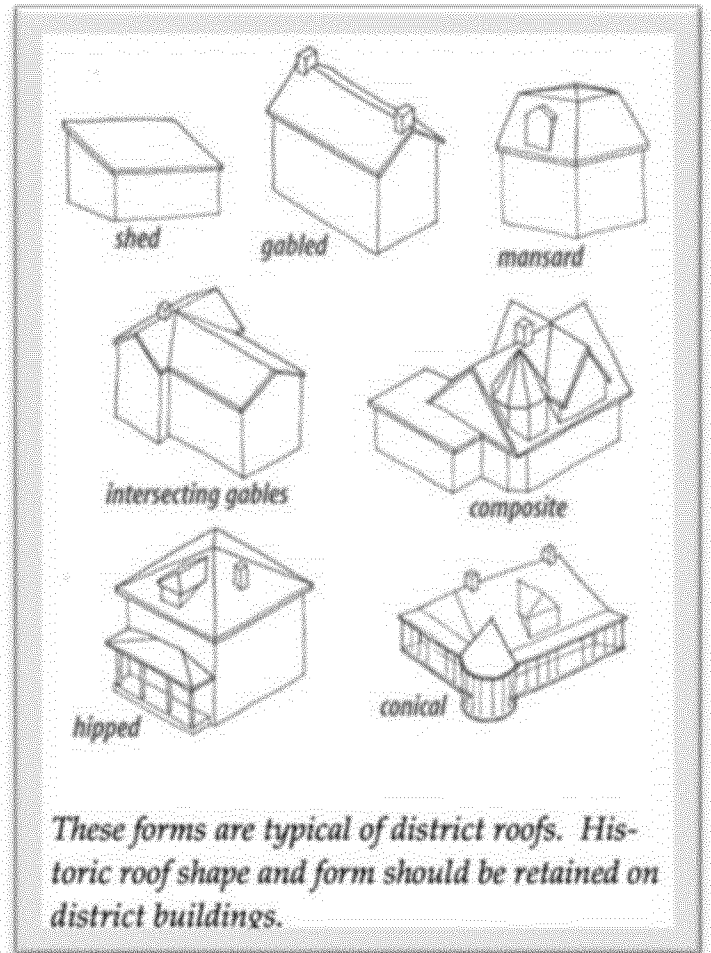
as possible.

9. ~~Skylights and skylight tubes~~ should be placed as inconspicuously as possible on the rear roof surface, and should have a flat profile.

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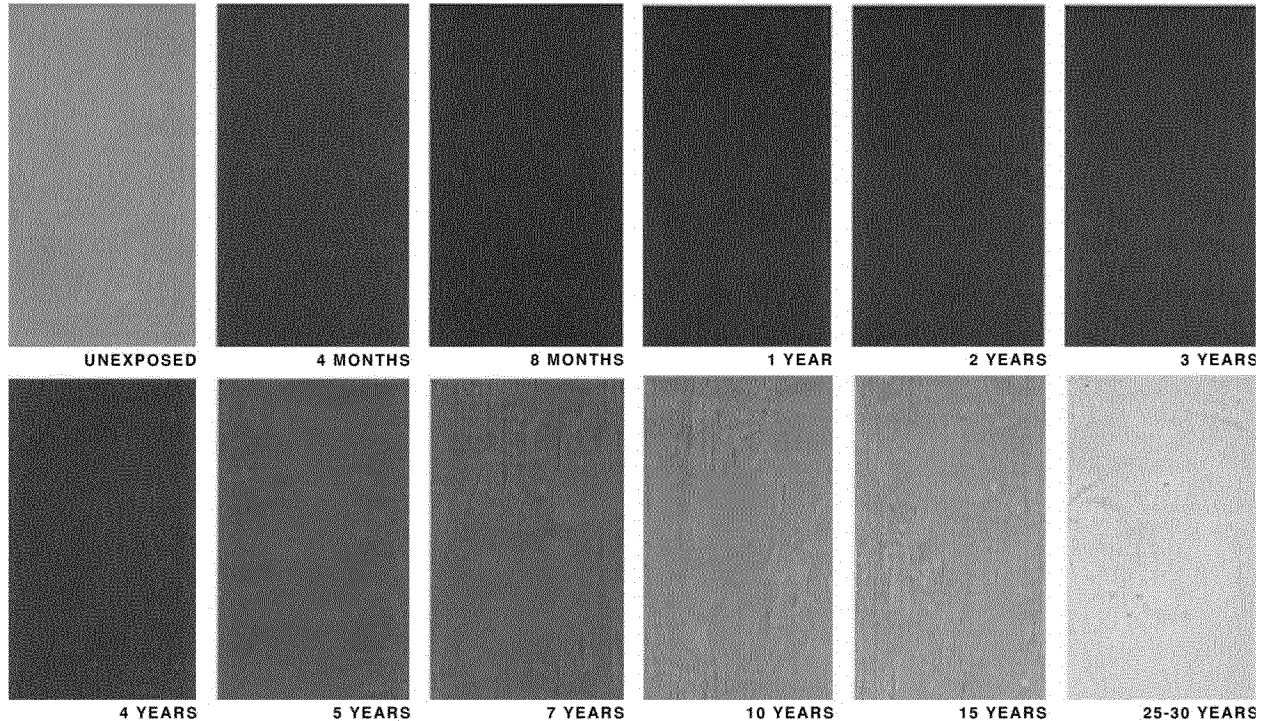
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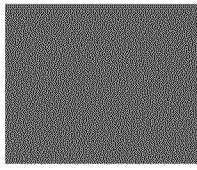
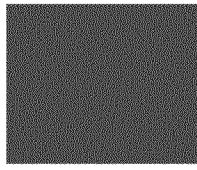
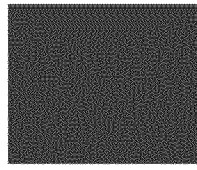
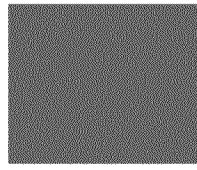
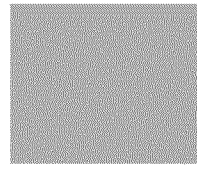
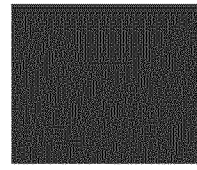
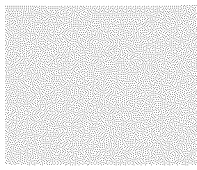
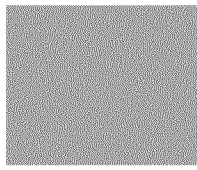
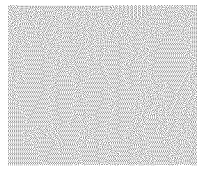
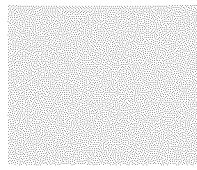
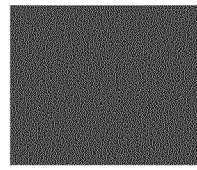
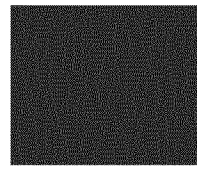
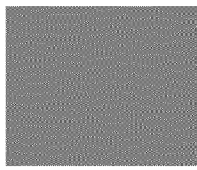
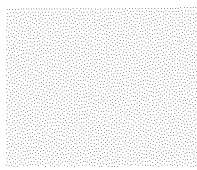
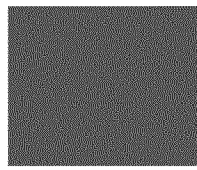
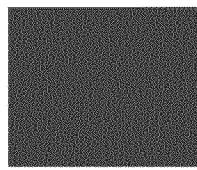
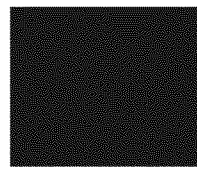
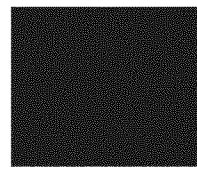
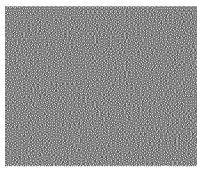
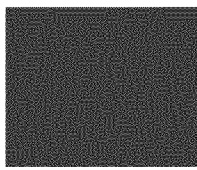
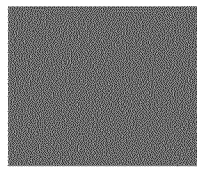
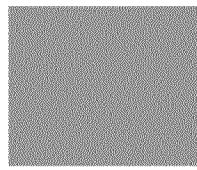
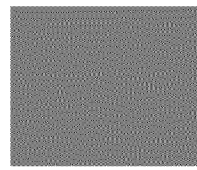
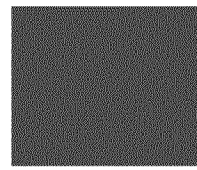
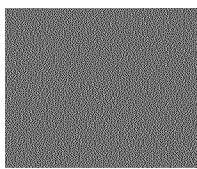
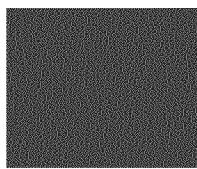
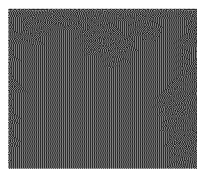
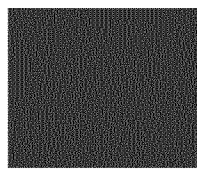
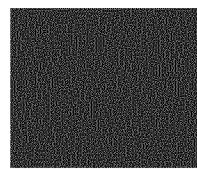
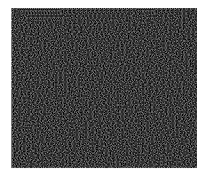
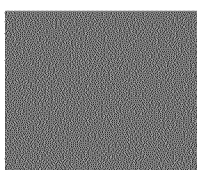
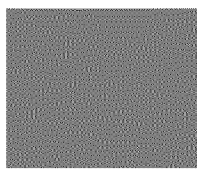
The Color of Copper Over Time

CHANGES IN APPEARANCE DURING WEATHERING CYCLES:

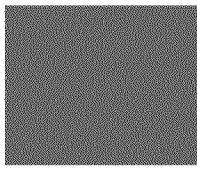
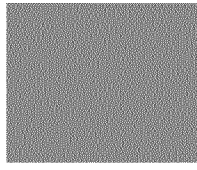
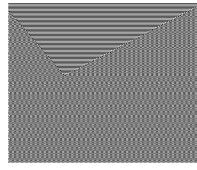
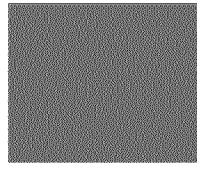
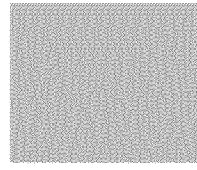
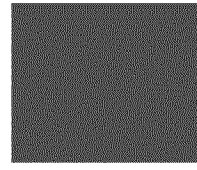


Copper oxidizes with exposure to the environment. Rather than rust, it morphs from a shiny yellow-orange to deep brown, then green finally becomes dull bluish-green. As the process occurs, the finish it develops is known as patina. Copper patina is called verdigris. The term comes from the French phrase “verte grez.”

The chart above shows how the color naturally advances from bright and new to rich, chocolaty brown to dark verdigris to the almost white of an old copper decoration.

					
▲★ Cardinal Red	▲★ Colonial Red	Burgundy	▲★ Terra Cotta	▲★ Sierra Tan	▲★ Mansard Brown
					
▲★ Stone White	▲★ Granite	▲★ Sandstone	▲★ Almond	▲★ Medium Bronze	▲★ Dark Bronze
					
▲★ Slate Gray	▲★ Bone White	▲★ Musket Gray	▲★ Charcoal	Midnight Bronze	Matte Black
					
▲★ Cityscape	Interstate Blue	▲★ Hemlock Green	▲★ Arcadia Green	▲★ Patina Green	▲ Hunter Green
					
▲★ Military Blue	Award Blue	▲ Teal	Hartford Green	Forest Green	▲★ Evergreen
		<p>● Denotes PAC-CLAD Metallic Colors ★ Denotes Energy Star® Colors ▲ Denotes PAC-CLAD Cool Colors</p> <p>Kynar 500® or Hylar 5000® pre-finished galvanized steel and aluminum for roofing, curtainwall and storefront applications.</p>			
★ Berkshire Blue	▲★ Slate Blue				

PAC-CLAD Metallic Colors

					
●▲★ Zinc	●▲★ Silver	●▲★ Copper Penny	●▲★ Aged Copper	●▲★ Champagne	●▲★ Weathered Zinc

PETERSEN ALUMINUM CORPORATION

HQ: 1005 Tonne Road Elk Grove Village, IL 60007 P: 800-PAC-CLAD F: 800-722-7150	9060 Junction Drive Annapolis Junction, MD 20701 P: 800-344-1400 F: 301-953-7627	10551 PAC Road Tyler, TX 75707 P: 800-441-8661 F: 903-581-8592	350 73rd Ave., NE, Ste 1 Fridley, MN 55432 P: 877-571-2025 F: 866-901-2935	102 Northpoint Pkwy Ext, Bldg 1, Ste 100 Acworth, GA 30102 P: 800-272-4482 F: 770-420-2533
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PAC-CLAD® COLOR AVAILABILITY

PAC-CLAD STANDARD COLORS	REFLECTIVITY	EMISSIVITY	3 YEAR EXPOSURE	SRI	STEEL			ALUMINUM			ENERGY STAR®
					24GA.	22GA.	.032	.040	.050	.063	
Almond	0.56	0.83	0.57	64	✓	✓	✓	✓	✓	•	
Arcadia Green	0.33	0.84	0.32	33	✓		✓			•	
Bone White	0.71	0.85	0.71	86	✓	✓	✓	✓	✓	•	
Cardinal Red	0.42	0.84	0.41	45	✓		✓		✓	•	
Charcoal	0.28	0.84	0.28	27	✓		✓		✓	•	
Cityscape	0.37	0.85	0.34	39	✓		✓	✓	✓	•	
Colonial Red	0.34	0.85	0.33	35	✓		✓	✓	✓	•	
Dark Bronze	0.27	0.85	0.26	26	✓	✓	✓	✓	✓	•	
Evergreen	0.27	0.85	0.25	26	✓		✓			•	
Granite*	0.36	0.84	0.35	37	✓	✓	✓	✓	✓	•	
Hemlock Green	0.30	0.85	0.31	30	✓	✓	✓		✓	•	
Hunter Green	0.26	0.84	0.26	24	✓		✓			•	
Mansard Brown	0.26	0.84	0.24	24	✓	✓	✓	✓	✓	•	
Medium Bronze	0.30	0.85	0.29	30	✓	✓	✓	✓	✓	•	
Military Blue	0.29	0.84	0.28	28	✓		✓			•	
Musket Gray	0.32	0.84	0.31	32	✓	✓	✓		✓	•	
Patina Green	0.34	0.85	0.33	35	✓		✓			•	
Sandstone	0.51	0.83	0.51	57	✓	✓	✓	✓	✓	•	
Sierra Tan	0.38	0.85	0.35	40	✓	✓	✓	✓	✓	•	
Slate Blue	0.25	0.84	0.27	23	✓		✓			•	
Slate Gray	0.38	0.84	0.37	40	✓	✓	✓	✓	✓	•	
Stone White	0.61	0.86	0.59	72	✓	✓	✓	✓	✓	•	
Teal	0.26	0.85	0.26	24	✓		✓			•	
Terra Cotta	0.37	0.84	0.37	39	✓		✓		✓	•	
PAC-CLAD METALLIC COLORS											
Aged Copper	0.27	0.83	0.25	25	✓		✓		✓	•	
Champagne	0.45	0.78	0.41	57	✓		✓	✓	✓	•	
Copper Penny	0.45	0.82	0.42	49	✓		✓	✓	✓	•	
Silver	0.53	0.80	0.51	59	✓		✓	✓	✓	•	
Weathered Zinc	0.27	0.80	0.27	23	✓		✓		✓	•	
Zinc	0.30	0.85	0.30	30	✓		✓		✓	•	
Galvalume Plus**	0.68	0.14	0.55	57	✓					•	
PAC-CLAD STANDARD COLORS (DO NOT MEET COOL ROOF REQUIREMENTS)											
Award Blue					✓		✓		✓		
Berkshire Blue*	0.25	0.84	0.22	23	✓					•	
Burgundy					✓		✓		✓		
Forest Green					✓	✓	✓	✓	✓		
Hartford Green					✓		✓	✓	✓		
Interstate Blue					✓		✓		✓		
Matte Black					✓		✓	✓	✓	✓	
Midnight Bronze								✓			

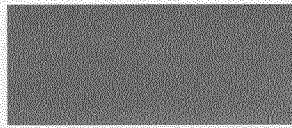
PAC-CLAD® Metallic finishes are available from stock at a moderate extra cost. PAC-CLAD® Copper Penny is a Non-Weathering finish. Solar Reflectance Index calculated according to ASTM C-1549. *Low Gloss/Low Sheen, full Kynar 500® or Hylar 5000® finish **Acrylic coated, non-Kynar Finish.

Energystar® Performance Criteria: Emissivity uses ASTM C1371. Reflectivity uses ASTM C1549. Samples: These color reproductions are as accurate as modern printing technology will permit. Free material samples are available on request. Technical Data for Kynar 500® / Hylar 5000® Coating: • Life Expectancy: 20 years exposure: Chalk – rating of 8 or better. Color - <5ΔE (Hunter Units) change. • Accelerated Weathering: (ASTM G-23 Type EH Apparatus) 5,000 hours: Chalk – rating of 8 or better. Color: ≤2ΔE (Hunter Units) color change.

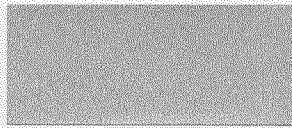
• Solvent Resistance: (NCCA procedure 11-18, no comparable ASTM test) – Pass. • Humidity Resistance: (ASTM D 2247, Apparatus A1) - 2,000 hours, hot dipped Galvanized, or 3000 hours, Aluminum: No field blisters. • Salt Spray Resistance: (ASTM B 117), 3,000 hours, aluminum – No creep from scribe; no blisters. 1000 hours, hot dipped galvanized – creep from scribe not to exceed 1/16"; no blisters. • Chemical/Acid Pollution Resistance: (ASTM D 1308) - Pass. • Formability: (ASTM D 4145) – 1T – 3T, No loss of adhesion.

• Pencil hardness: (ASTM D 3363) – HB to 2H. • Specular Gloss (ASTM D 523) – At 60 degrees; Typical; 20 – 35 (low gloss/low sheen available). • Abrasion Resistance: (ASTM D 968) – 65±10 liters. • Adhesion: (ASTM D 3359) – No loss of adhesion. • Impact Resistance: (ASTM D 2794) – 1/2" ball indenter, Gardner Impact tester: No cracking; no loss of adhesion. • Flame Test (ASTM E 84) – Class A coating Recycled Content: For information on recycled content, contact your PAC representative or visit www.pacgreeninfo.com

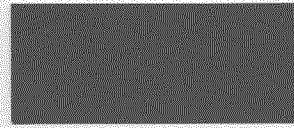
COLOR LOC FLUROPON COATINGS 24 Gauge



Classic Copper
PREMIUM COLOR



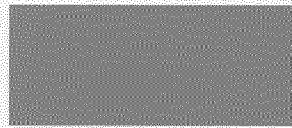
Silver Metallic
PREMIUM COLOR



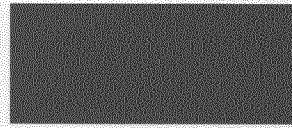
Ruby Red
PREMIUM COLOR



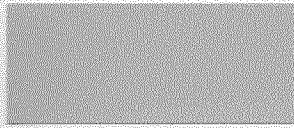
Coastal White



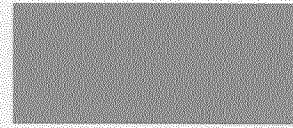
Patina



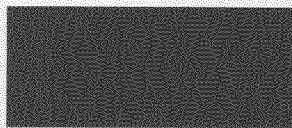
Charcoal



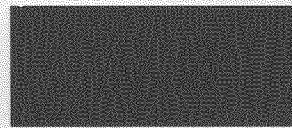
Sand Stone



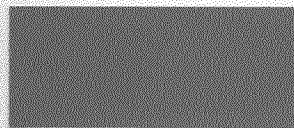
Sahara Tan



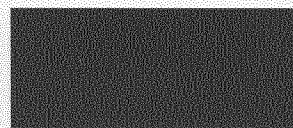
Beaufort Blue



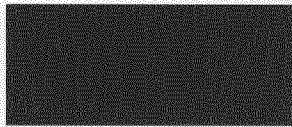
Biscayne Blue
PREMIUM COLOR



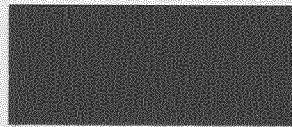
Stone Gray



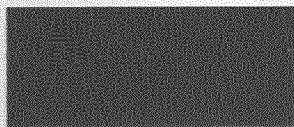
Colonial Red



Dark Bronze



Hilton Head Green



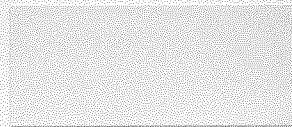
Medium Bronze



Onyx Black



Cityscape



Bone White



Pre-Weathered Galvalume
PREMIUM COLOR



Acrylic Coated Galvalume

Colors are represented as closely as possible.

Coastal Metal Service • Goldsboro, NC • 888-267-6153

Products Available



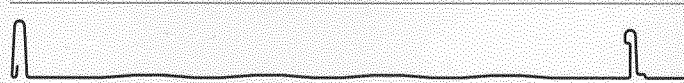
EZ LOC



SS 150



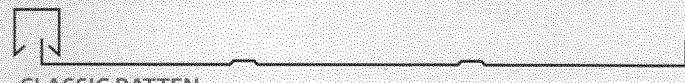
SS 24



NCR 150



NCR



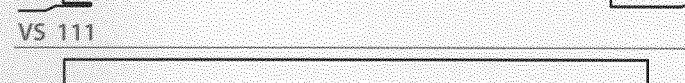
CLASSIC BATTEN



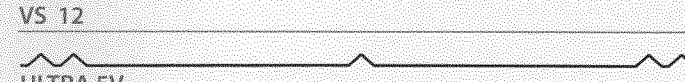
HT 150



LT 100



VS 111



VS 12

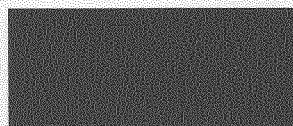


ULTRA 5V

SILICONIZED POLYESTER 29 Gauge and 26 Gauge



Seafoam White



Sunrise Red



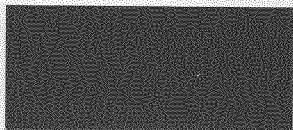
Scarlet Red
PREMIUM COLOR



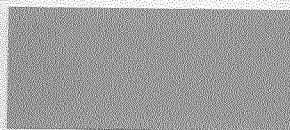
Teak Brown



Sand Dune



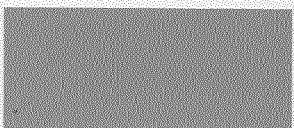
Gulfstream Blue
PREMIUM COLOR



Marsh Gray



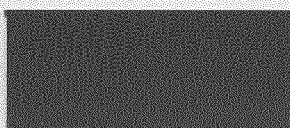
Deep Green



Sun Tan



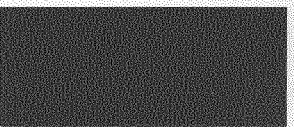
Black Beard



Charcoal



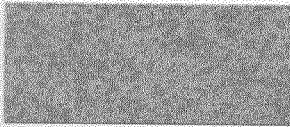
Burgundy



Burnished Slate



Copper Penny
PREMIUM COLOR



Acrylic Coated Galvalume

Colors are represented
as closely as possible.

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Products Available



DRI LOC

29 Gauge



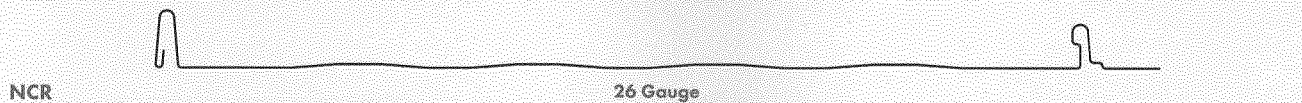
RIB LOC

29 and 26 Gauge



5V

29 and 26 Gauge



NCR

26 Gauge



SS 26

26 Gauge

CLASSIC SIL-POLY
 AVAILABLE IN 29G

SOLAR REFLECTIVITY

PREMIUM KYNAR
 AVAILABLE IN 26G & 24GV

SOLAR REFLECTIVITY

Light Stone	53%
Sierra Tan	48%
Clay	43%
Light Brown	29%
Dark Brown	30%
Bronze	26%
Brite Red	34%
Country Red	32%
Berry	27%
Colonial Green	34%
Fern Green	28%
Forest Green	35%
Hawaiian Blue	29%
Gallery Blue	26%
Brite White	73%
Polar White	71%
Light Gray	47%
Dark Gray	38%
Matte Black	26%
Glossy Black	29%
Brite Yellow	57%
Brite Orange	38%

Snowdrift White	71%
Almond	55%
Silver	51%
Champagne	42%
Sierra Tan	47%
Roman Bronze	38%
Copper Penny	38%
Banner Red	42%
Colonial Red	36%
Cordovan	32%
Mansard Brown	37%
Dark Bronze	36%
Slate Blue	42%
Royal Blue	35%
Slate Gray	42%
Musket Gray	39%
Charcoal Gray	31%
Matte Black	30%
Aged Copper	39%
Classic Green	32%
Ivy Green	31%
Hartford Green	31%

METALS

Galvanized
Galvalume®
Copper
Aluminum
Painted Galvalume®

*Colors shown are matched as accurately as possible, but may vary slightly from finished product. Samples are available upon request.

MATCHING OLD TERNE WITH NEW TERNE



Terne, like copper and zinc, will weather over time. To what extent and how quickly are determined by the application and the environment in which the building is located.

Restoration can require adding new material next to the old. The colors of the new material will take time to even out, but they will do so given time.

