

## TRINAR® ARCHITECTURAL METAL COLOR SELECTION

### STANDARD COLORS



TERRA COTTA



SLATE BLUE



DESERT TAN



SLATE GRAY



ASCOT WHITE



SEAL BROWN



REGAL BLUE



COLONIAL RED



EVERGREEN



ASH GRAY



MANSARD BROWN



SANDSTONE

### DESIGNER COLORS



CORAL



TEAL PATINA

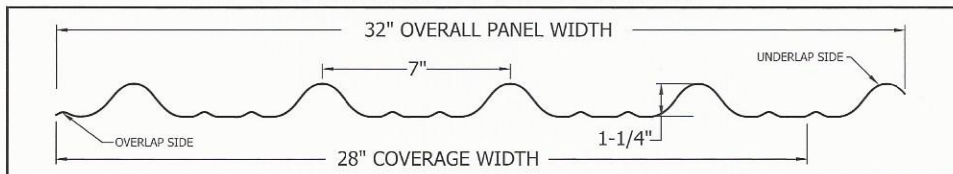


TEAL



COPPER

### PERMATILE PANEL PROFILE



- Colors shown are matched as accurately as possible, but may vary slightly from finished product. Please contact your representative for more information. Because of inventory fluctuations, please call for availability.
- Custom colors are available based on large quantity orders. Call for more details.
- A 35-year warranty is available upon request, for qualifying applications. This warranty covers peeling, color fade, chalking and paint integrity. Please reference actual warranty for details and conditions. Check suitability of use in potentially corrosive atmospheres.

## Application Characteristics

Film Thickness	Topside finish: Primer (dry)=0.20–0.30 mils; Topcoat (dry)=0.70–0.80 mils; Reverse side finish: Primer (dry)=0.15–0.25 mils; Pigmented backer (dry) = 0.30–0.40 mils. Total DFT for system = 0.90 - 1.15 mils. All measurements per ASTM D 5796.
Topside Color	Controlled to the Master Standard by an approved Color Difference Meter or Spectrophotometer, and by visual match under daylight and horizon light of a Macbeth Daylight Booth per ASTM D 1729.

## Physical Properties

Specular Gloss	Determined per ASTM D 523 at a glossmeter angle of 60°. TRINAR systems are typically 35% ± 5%, but are available in lower gloss ranges as well.
Pencil Hardness	Minimum pencil hardness, per ASTM D 3363, is "HB".
Solvent Resistance	Passes minimum of 100 double rubs of a MEK soaked cloth, per ASTM D 5402.
Cross-Hatch Adhesion	No paint removal with Scotch #610 cellophane tape after cross-scoring with eleven horizontal and eleven vertical lines 1 mm apart, per ASTM D 3359.
Impact Resistance	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, per ASTM D 2794.
T-Bend Adhesion	Per ASTM D 4145, no loss of adhesion when taped with Scotch #610 cellophane tape when subjected to a 2T-Bend.

## Testing Data

Humidity Resistance	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, per ASTM D 2247.
Cleveland Condensing	No blistering, rusting or loss of adhesion of the finish after 1000 hours of exposure at 120°F, per ASTM D 4585.
Water Immersion Resistance	Samples immersed in distilled water at 100°F per ASTM D 870 will exhibit no loss of gloss, blistering, cracking or color change after 500 hours.
Salt Spray Resistance	Samples diagonally scored and subjected to 5% neutral salt spray for 1000 hours, per ASTM B 117, 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	No significant color change after 24 hours exposure to 10% solutions of hydrochloric and sulfuric acids, per ASTM D 1308, Procedure 7.2 (spot test).
Kesternich Test	No significant color change after 10 cycles in a SO <sub>2</sub> chamber, per ASTM G 87.
Accelerated Weathering	5 Hunter ΔE maximum color change, and at least #8 chalk rating after 10,000 hours exposure, per ASTM G 151 and G 154 using UVA-340 bulbs.
Exterior Weathering	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	Per ASTM D 968, Method A, TRINAR passes 60 +/- 5 liters/mil of falling sand.
Flame Spread Rating	TRINAR displays a flame spread classification of A (Class 1) when tested in accordance with ASTM E 84.

## TRINAR® COOL CHEMISTRY® INFO

PERMATILE is proud to offer Akzo Nobel's TRINAR® COOL CHEMISTRY® Series coatings which contain infrared reflective pigments. These special pigments are designed to reflect infrared energy while still absorbing visible light energy, thus appearing as the same color yet staying much cooler. When COOL CHEMISTRY® Series coatings are used on metal roofing, the result is a sustainable building material that can lower air conditioning costs, reduce peak energy demand, and help to mitigate urban heat island effects.

TRINAR® is ideal for residential or low rise projects that require lasting durability and beauty. One of the secrets of TRINAR®'s superior durability lies in the molecular structure of its 70% polyvinylidene fluoride (PVDF) resin. This unique carbon/fluorine bond is the key to its unsurpassed thermal, chemical and ultraviolet resistance properties. When coupled with Akzo Nobel's proprietary acrylic resin, premium ceramic and select inorganic pigmentation, this system demonstrates remarkable resistance to weathering, fading, cracking, chalking and comes with a current limited warranty period of 35 years.

Our low gloss PERMATILE roofing panels and trim are produced from 26g tension leveled, extra smooth G-90 Hot Dipped Galvanized steel. The TRINAR® is factory-applied through roll coating to properly cleaned and pretreated first-quality substrates, and then oven baked to cure. It is a two-coat system, composed of a topcoat over a High Performance Primer. Using TRINAR® coatings will ensure your project will continue to look good for many years to come.



*Versatility, Strength, and Beauty*

