

Colorweld® 300

TECHNICAL DATA SHEET

Colorweld 300® prefinished aluminum and galvanized steel are ideal for general sheet metal use on buildings of all types, including both new and retrofit construction. Colorweld 300 prefinished aluminum and galvanized steel are used for roofing, siding, curtainwall and storefront applications, including copings, fascias, soffits, gravel stops, standing seam roofing, panel fabrication and many other fabricated trim elements.

PRODUCT DESCRIPTION

Colorweld 300® finishes are high-performance coating systems that feature 70% KYNAR 500®/HYLAR 5000® polyvinylidene fluoride (PVDF) resins, coil coated to ensure the highest color uniformity and quality. An off-white washcoat is applied to the reverse side of the coil for additional protection. Colorweld 300® coatings exhibit outstanding color and gloss retention, and are considered the premier architectural coatings for metal. They provide excellent flexibility and film adhesion for forming, and offer superior resistance to humidity, impact, salt spray, pollution, abrasion and graffiti. Several different finish systems are available to meet your specific application needs.

Opaque Finishes: These are 2-coat finishes typically consisting of a 0.2 mil primer and a 0.8 mil color coat, for a nominal dry film thickness of 1.0 mil.

Mica Finishes: These are 2-coat finishes typically consisting of a 0.2 mil primer and 0.8 mil color coat with mica flakes suspended in the finish. Nominal dry film thickness is 1.0 mil.

Metallic Finishes: Aluminum has a 3-coat finish with a nominal dry film thickness of 1.5 mils. Steel has a 4-coat finish with a nominal dry film thickness of 2.3 mils.

Alloy 3003 or 3004, in compliance with the Aluminum Association Chemical Composition Specifications and conforming to ASTM B209-96A, is standard. Galvanized steel conforming to ASTM A653, galvanized to ASTM A924, G90 Class, is standard.

PAINT FINISH PERFORMANCE

- Color Retention: Maximum rating of 5 units of change per ASTM D2244-89.
- Chalk Resistance: Maximum rating of 8 units of change per ASTM D4214-89.
- Specular Gloss: 20-30 at an angle of 60 degrees per ASTM D523-89; 25-35 for metallics.
- Pencil Hardness: HB-H per ASTM D3363-92A.

- Formability: Formable to a 1T for aluminum; 2T for galvanized steel; 0T for aluminum metallics with no cracking or tape removal of film per ASTM D4145-90. Colorweld 300 is generally flexible to the point of substrate rupture.
- Reverse Impact: No cracking or loss of adhesion per ASTM D2794-93.
- Atlas Weatherometer: Passes 5000 hours per ASTM D822-89 with no objectionable chalking, color change or adhesion loss.
- Humidity Resistance: Passes 3000 hours for aluminum; 1000 for galvanized steel per ASTM D2247-94 with no blisters.
- Salt Spray Resistance: Passes 3000 hours for aluminum; 1000 for galvanized steel per ASTM B117-95.
- Abrasion Resistance: 50-80 liters falling sand per ASTM D968-93. 130-200 liters for metallics.

AVAILABILITY

Flashing sheet, coil and fabricated trim is available in twenty-three (23) standard Colorweld 300 colors. Aluminum material is available in gauges .032", .040", .050" and .063". Galvanized steel material is available in 22 and 24 gauge. The standard width for all material is 48". Flashing sheet and fabricated trim are available in lengths from 5'0" to 14'0". Standard length is 10'0". Virtually any custom color can be provided in the Colorweld 300 family of finishes. Additionally, alternate finishes, custom metal gauges and custom widths and lengths are available. Minimum quantities are required.

GENERAL

Colorweld 300 finished material can be fabricated and installed utilizing various methods. Industry recognized practices for sheet metal work, rollforming, installation, safety, etc., should be followed. Precautions should be taken to avoid scratching, marring or gouging the finished surface. Minor scratches that occur during fabrication and installation can be easily repaired with touch-up paint. Careful attention to forming temperature and proper bend radii of substrate material must be exercised during fabrication. Any metal shavings or debris generated during cutting, forming, fastening, etc, should be immediately removed. Remove strippable film, if used, immediately prior to, or immediately after, installation. Routine cleaning of Colorweld 300 finished material is recommended. It may be washed with water and mild detergent, followed by a clean water rinse.

WARRANTY

A twenty (20) year coating warranty, specifically addressing film integrity, chalk resistance and color change, is available. The Colorweld 300 coating warranty is issued on a project specific basis. Contact us for warranty details.