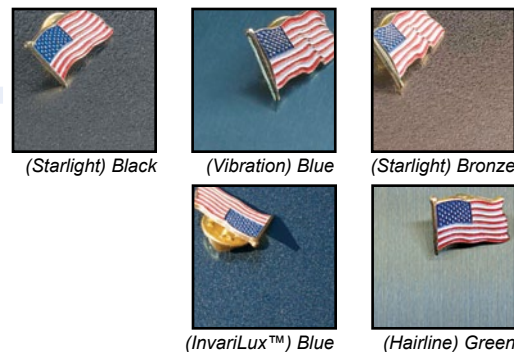


STAINLESS STEEL DATA SHEET

Anodic Colorized Finishes



Grade Selection

The long-term performance of Anodic Colorized Finishes is dependent on proper grade selection. In most environments, Type 304 will be sufficient to prevent corrosion. (Please refer to our Product Data Sheets for highlights of chemical analyses and properties for specific substrates and finishes.)

Pounds Per Piece

Thickness (in.) x Width (in.) x Length (in.) x .292

Available Sizes

.015 - .120" thick in widths up to 48" are available in lengths up to 192". Some products can be produced in longer lengths. Please contact a Contrarian Metal Resources Product Consultant for details. (Please note that hanger holes or gripper marks within 3/4" of one long edge of each sheet can be expected.)

Fire Resistance

Since stainless steel is dimensionally stable up to 2000°F, Anodic Colorized Finishes provide an added measure of protection in the event of a fire.

Flatness

Anodic Colorized Stainless Steel Finishes are supplied to ASTM (American Society for the Testing of Materials) commercial tolerances.

Fabrication

Anodic colorized stainless steel is readily welded or soldered. However, exposure to high temperatures will change the color of the anodized layer. Once the color is changed it cannot be restored. In the case of welding, a grade of welding wire more noble than the work piece should be used. While formation of a heat tint scale can be avoided in lighter gauges through use of shield gasses, any scale that is formed during the welding process should be removed prior to installation. Electrochemical descaling and passivating systems work well to yield a functional, clean weld.

In the case of soldering, it is advisable to use low temperature tin/lead soldering practices and avoid chloride-containing fluxes. Flux residue must be thoroughly removed after soldering.

The colorized layer will craze, or crack when bent. This is not a significant issue, as the condition is confined to a fine line along the bend radius. It manifests as a thinning of the color along that line, which can be observed with the naked eye at very close range. This condition can be lessened with the use of generous bend radii.

Product Description

Anodic colorized stainless steel is a substrate finished with a thin oxide film designed for use in architectural applications. Visually, the oxide film tints the stainless steel with color while allowing the surface characteristics of the substrate finish to remain visible. Anodic colorized stainless steel can be used in a variety of applications, including wall panels, coping and trim. The chromium oxide film is produced electrochemically. Unlike painted coatings, the finish is not reactive to ultraviolet light. Most anodic colorized finishes are available with a superior anti-fingerprint coating called FG3, which is recommended for most applications.

The appearance of anodic colors varies, and the designer must anticipate this variability when considering these products. For applications that require more visual uniformity, or are subjected to pedestrian traffic resulting in increased wear and abrasion, consideration should be given to specifying vapor deposition colorized stainless steel (please refer to our Vapor Deposition Colorized Stainless Steel Data Sheet). For exterior applications in marine, urban industrial or other more severe corrosive environments, a more suitably alloyed grade of stainless steel should be considered over conventional T304. As always, if there is any doubt as to the suitability of our products to a given application or environment, please contact a Contrarian Metal Resources Product Consultant.

Table I	SUBSTRATE FINISHES & COLOR COMBINATIONS				
	COLOR				
SUBSTRATE	Black	Blue	Bronze	Gold	Green
InvariMatte®	●				
InvariLux®	●				
InvariTone™	●				
InvariBrush™	●				
InvariWeave™	●	●	●	●	
InvariWisp™	●	●	●	●	●
InvariBlend®	●	●	●	●	●
InvariGlass™	●	●	●	●	
Starlight	●	●	●	●	
Origara	●	●	●		
Microchecker	●	●	●		
Pattern Polished & Other Finishes	Please contact a Contrarian Metal Resources Product Consultant for other substrate finishes and color combinations.				

Available Substrate Finish & Color Combinations

Please refer to Table I. More information relating to substrate finishes can be found in the data sheets specific to those finishes.

Installation

Since there is a degree of variability in the appearance of the finish, we recommend establishing an installation technique, similar to the way shingle roofs are installed, whereby the installer works from a few different crates of panels on the job site, so as to distribute panels with certain finish attributes over a wide area, co-mingled with panels made from other sheets.

Anodic Colorized Finishes are shipped with a high-grade UV resistant protective plastic covering designed to withstand the elements for several weeks. However, it is advisable to remove this material promptly after installation to prevent adhesive residue from remaining on the colorized stainless steel finish. After installation is completed, any rust stains from tools or construction debris must be removed.

Maintenance

Designed to require very little maintenance, Anodic Colorized Finishes require only periodic attention. It may, however, be appropriate to clean the surface to maintain its original appearance. Any detergent/ammonia solution can be effective for general cleaning. More tenacious contaminants, like adhesive residue will respond to pure acetone. Chloride-containing products must be avoided. Areas where incidental debris can collect, such as gutters, must be cleaned on a regular basis. For more information, please refer to "Cleaning Stainless Steel Finishes" in the Resources section of our website at www.metalresources.net.



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Limited Warranty

Contrarian Metal Resources (CMR) warrants its ASTM Grades 304, 304L, 316, 316L products against corrosion for a period of thirty (30) years from the date of purchase, subject to the limitations described in this warranty and provided the material is utilized solely for architectural applications and in normal atmospheric conditions. For purposes of this warranty, corrosion is defined as through wall penetration of the stainless steel. No warranty is made regarding mechanical damage, physical damage or damage as a result of substandard workmanship after receipt of the product from CMR (including but not limited to welding, shaping, or forming using methods that are not best practices for stainless steel of the grade in question) or using inappropriate cleaning solutions. This warranty does not cover any product that has been subject to misuse, neglect or accident. Use on chemical or manufacturing facilities, which produce or use chemicals known to have a deleterious effect on stainless steel, is excluded from this warranty. Please contact CMR prior to purchase if there is any question regarding application.

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