

SHORT-FORM SPECIFICATIONS - Insert into Paragraph 2 of applicable specification sections

2.XX HOT-DIP GALVANIZING AND FACTORY-APPLIED ARCHITECTURAL FINISH

- A. Hot-Dip Galvanizing: Provide coating for iron and steel fabrications applied by the hot-dip process, Duragalv[®] by Duncan Galvanizing. Comply with ASTM A 123 for fabricated products and ASTM A 153 for hardware. Provide thickness of galvanizing specified in referenced standards. The galvanizing bath shall contain high grade zinc, nickel, and other earthy materials. Galvanizing shall exhibit a rugosity (smoothness) not greater than 4 rug (16-20 microns of variation) when measured by a profilometer over a 1 inch straight line on the surface of architectural and structural elements that are less than 24 pounds per running foot. Profilometer shall be capable of operating in 1 micron increments.
1. Surface blasting prior to application of factory-applied post galvanizing wet coatings will produce a high rugosity and not be acceptable.
- B. Architectural Finish: Provide factory-applied architectural coating over hot-dip galvanized steel, Colorgalv[®] by Duncan Galvanizing matching approved samples.
1. Primer coat shall be factory-applied prime coating. Apply primer within 12 hours after galvanizing at the galvanizer's plant in a controlled environment meeting applicable environmental regulations and as recommended by the primer coating manufacturer.
 2. Finish coat shall be factory-applied high performance architectural finish. Apply finish coating at the galvanizer's plant, in a controlled environment meeting applicable environmental regulations and as recommended by the finish coating manufacturer.
 3. Coatings shall be certified VOC compliant and conform to applicable regulations and EPA standards.
 4. Apply the galvanizing, primer and coating within the same facility and provide single-source responsibility for galvanizing, priming and finish coating.
 5. Blast cleaning of the galvanized surface is not acceptable.
- C. Performance Criteria: Coatings must meet or exceed the criteria for the following categories as stipulated by the coatings manufacturer.

Primer:

ABRASION - Method: ASTM D 4060 (CS17 Wheel, 1,000 grams load).
ADHESION - Method: ASTM D 3359, (Method B, 5 mm Crosshatch).
HUMIDITY - Method: ASTM D 4585
SALT SPRAY (FOG) - Method: ASTM B 117

Topcoat:

ABRASION - Method: ASTM D 4060 (CS17 Wheel, 1,000 grams load).
ADHESION - Method: ASTM D 3359, (Method B, 5 mm Crosshatch).
GRAFFITI RESISTANCE - Method: The following graffiti materials applied to coating and allowed to dry for seven days: acrylic, epoxy-ester and alkyl spray paints, ballpoint ink, crayon, Market marker, black shoe polish and lipstick.
EXTERIOR EXPOSURE - Method: Exposed at 45 degrees facing south
SURFACE BURNING CHARACTERISTICS - Method: ASTM E-84
QUV - Method: ASTM G 53 (ES-40 bulbs, 4 hours light, 4 hours dark)
SALT SPRAY (FOG) - Method: ASTM B 117
FLEXIBILITY
PENCIL HARDNESS