



## Revere Copper Products, Inc. - FreedomGray Tips & Techniques



For Tech Support- 1-800-448-1776 ext. 2474 or 2707  
Outside US 315-338-2022

### Specifications

#### Architectural Guide Specification

Revere FreedomGray is cut, bent, formed and installed using the same tools and techniques as mill finished copper. Complete details and specifications for the installation of architectural sheet copper are contained in the Revere manual **Copper & Common Sense**.

#### Materials: Sheet Copper

All sheet copper shall be standard, ounce-weight copper conforming to ASTM specification B370. Where FreedomGray coated copper is specified or noted on drawings, copper shall be coated on both sides with zinc-tin alloy approximately 0.5 mils thick. Composition of the alloy shall be approximately 50 percent zinc and 50 percent tin with trace elements controlled for durability, corrosion, resistance and color. The hot-dip process shall apply Z-T alloy. All Z-T Alloy coated copper shall have temporary, degradable pre-weathered coating to minimize water-stains during transit and storage and provide initial weathered appearance.

#### Solder

Where used on Z-T alloy coated copper, solder shall conform to ASTM specification B32 and shall be lead-free.

#### Workmanship: Handling & Storage

Store FreedomGray coated copper sheets and formed shapes off the ground, in an enclosed structure. Do NOT store in a manner or location so that water moisture may remain between sheets or shapes prior to installation. Do NOT store on bare ground, under tarp or in any other manner that may cause condensation to form on or between sheets or shapes. Handle sheets and shapes in a manner to reduce scratches, dents, etc.

#### Commentary

**In the absence of oxygen, standing water may cause water-stains. Water-stains and surface scratches should not affect the life or durability of FreedomGray; however, they can be aesthetically unattractive.**

#### Soldering

Before soldering Z-T Alloy coated copper, the pre-weathered coating must be removed and surfaces to

receive soldering chemically and/or mechanically cleaned to produce clean, bright alloy.

#### Installation

Except as noted elsewhere, form and install FreedomGray as noted on the drawings and in the same manner as described for plain copper in Revere's sheet copper design manual **Copper & Common Sense**, latest edition.

#### Protection

Previously installed FreedomGray shall be protected during installation and cleaning of masonry with tarps, polyethylene sheeting, or similar impervious metal's surface, protection must be removed at the end of each workday.

#### Cleaning

Remove excessive dirt and construction debris by washing thoroughly with clear water. Grease, oils, etc., may be removed by washing with alkaline commercial cleaning agent in hot water. Do not otherwise chemically or mechanically clean FreedomGray.

**FreedomGray Warranty-** Revere warrants that, for a period of 25 years after delivery, FreedomGray will comply with the written specifications accepted by Revere and will be free from defects in workmanship and materials. Call Revere for complete warranty details.

**Copper & Common Sense-** Since 1945, Revere has published Copper & Common Sense, which is now the industry's most widely referenced sheet copper design manual. To learn how to obtain the latest edition, call, fax or email Revere at the address below.

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