



**SPECIFICATION**  
**METRO ROOF PRODUCTS**  
3093 'A' Industry Street  
Oceanside, CA USA 92054  
(760) 435-9842 FX (760) 435-1162

**PART 1**

**GENERAL**

**1.1 SECTION INCLUDES:**

- A. Formed metal roofing panels with colored stone chip finish. (MetroTile)
- B. Battens and nailers. (Applicable only to MetroTile)
- C. Associated metal flashings.

**1.2 RELATED SECTIONS**

- A. Section 06112 - Framing and Sheathing: Roof sheathing.
- B. Section 07620 - Sheet Metal Flashing and Trim.
- C. Section 07631 - Gutters and Downspouts.
- D. Section 15575 - Breechings, Chimneys and Stacks.

**1.3 REFERENCES:**

- A. ASTM A792/A792M - Sheet Steel, Aluminum - Zinc alloy coated by the Hot-Dip Process, structural (physical) quality.
- B. ASTM E 109 - Test for Fire Resistance of Roof Covering Material.
- C. UL1897 Tests for wind uplift resistance of roof assemblies.
- D. ASTM C 920-86 - Specification for Electrometric Joint Sealant.

**1.4 QUALITY ASSURANCE**

- A. Perform work in accordance with guidelines as set out by Metro Roof Products installation instructions.
- B. Maintain one copy of each document on site.
- C. Installer - Company specializing in performing the work of this section shall be experienced in the installation of the roofing system or trained in it's application by a manufacturer's representative.



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#### **1.5 REGULATORY REQUIREMENTS**

- A. Conform to applicable codes.

#### **1.6 DELIVERIES, STORAGE AND PROTECTION**

- A. During shipment, finished surfaces shall be protected from abrasion.
- B. Accept metal roofing on site in packaging. Inspect for damage.
- C. Job site storage shall be in a clean, dry area out of direct contact with the ground, under cover or sloped for drainage, protected from traffic, contamination by corrosion and staining materials.
- D. Stored materials and unfinished work shall be secured against damage by wind.

#### **1.7 WARRANTY**

- A. Provide owner with a fifty (50) year written fully transferable, limited warranty for defects from Metro Roof Products as the roofing material manufacturer.
- B. A written guarantee on labor and workmanship will be supplied by the installer in connection with this contract.



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**PART 2**

**PRODUCTS**

**2.1 MANUFACTURER**

- A. Metro Roof Products  
3093 'A' Industry Street  
Oceanside CA 92054  
Phone: (760) 435-9842 Fax: (760) 435-1162  
E-Mail: [info@metroroofproducts.com](mailto:info@metroroofproducts.com)  
Internet: [www.smartroofs.com](http://www.smartroofs.com) or [www.metroroofproducts.com](http://www.metroroofproducts.com)

**2.2 MATERIALS**

- A. Metal Panel: Metro TILE ® Pressure formed aluminum-zinc alloy coated sheet steel ASTM A792/A792M; 26 gauge thick steel 52 1/4 inches long X 16 inches wide nominal size with eight (8) individual tile pans. Acrylic resin coated, colored stone chip finish. Architect shall select color from manufacturer's standard colors.
- B. Hips, Ridges and Rakes: Barrel Trim of same color and surface finish as Metro panels.
- D. Flashing - Stone-Coated: Fascia Flashing and Side Flashing of same color and surface finish matching roof panels.
- E. Flashing - Painted: Rake metal flashing to mount Metro Barrel Trim on rake edges.
- F. Nails: Corrosion resistant full round headed flathead common nails, 8d, 2-3/8-inch long X .113-inch diameter as approved by manufacturer with minimum 1,000 hours salt spray resistance to ASTM B 117.
- G. Screws: No. 10 by 2-inch long corrosion resistant steel screws; moulded head screws or as approved by manufacturer. Color coat to match panel color. Minimum 1,000 hours salt spray resistance to ASTM B 117.
- H. Valley and other Flashings: Aluminum zinc alloy coated sheet ASTM-A792/A792M or G-90 Galvanized. **NOTE: Copper and lead flashings shall not be used due to metal incompatibility.**

**2.3 ACCESSORIES**

- A. Battens: Nominal 2-inch X 2-inch standard grade Douglas Fir or better and nominal 1-inch X 4-inch standard grade Douglas Fir or better counter battens in re-roof applications.
- B. Batten Nails: Common smooth 16d, 3/4-inch long.
- C. Alternate Battens: Galvanized steel hat section; 25 gauge.



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- D. Screws: Hot Dip galvanized steel; No. 10 by 2-inch long corrosion resistant steel screws or as approved by manufacturer.
- E. Sealant: In accordance with ASTM C 920-86.
- F. Pipe Jack Flashings: 26 gauge galvanized or aluminum/zinc alloy steel. Clean, prime and paint to match roof color. *NOTE: Lead pipe flashing shall not be used.*



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**PART 3**

**EXECUTION**

**3.1 GENERAL**

- A. Verify roof structure for correct framing prior to placing battens and Metro roof panels.
- B. Verify roof penetrations and plumbing vent stacks are in place and flash to roof surface.
- C. Exterior stucco accessible from roof is to be completed prior to roofing panel installation.
- D. It is the responsibility of the General Contractor that roof access by other trades be limited during installation.

**3.2 INSTALLATION - BATTENS**

- A. Install 2-inch X 2-inch battens across roof frame at 14½-inches from the front face of one batten to the next. Stagger ends.
- B. Install 1-inch X 4-inch counter battens spaced at 24-inch centers and/or vertically over roof framing member. Stagger ends.
- C. Nail all battens in place with 16d common nails as per manufacturer's instruction.
- D. Install additional battens to support and provide fastening points for flashings and trim.

**3.3 INSTALLATION - VALLEY**

- A. Valleys shall be installed with minimum 6-inches overlap in the direction of flow.
- B. Nail in place minimum 24-inches centers through folded outside edge of valley flashing.
- C. Metro Roof Products roof panels shall be cut and accurately bent down into valley. Panels on opposing sides of valley shall form a straight and even line over the valley.
- D. Install new valley flashing on all re-roofing applications.

**3.4 INSTALLATION – Metro TILE**

- A. Install MetroTILE with alternating courses staggered.
- B. Fastened at not less than four points.
- D. Fastener points shall be along the front downturn of each panel at the overlap, and at two other intermediate positions.



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### **3.5 INSTALLATION – Metro Trim**

- A. Place flashing and trim over locations as specified for their use by the manufacturer.
- B. Fold exposed ends of ridges and hips neatly and cap with similar roof material.
- C. Seal folds with sealant as required by manufacturer and secure with additional approved fasteners.