



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. (Metro Shake-II)
- B. Battens used only on Hip & Ridge areas.
- 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
Internet: www.smartroofs.com or www.metroroofproducts.com

2.2 MATERIALS

- A. Metal Panel: Metro SHAKE-II ® 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 raised and lowered panel sections resembling wood shake. 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. Nails: Corrosion resistant full round headed flathead, 2-inch long X .131-inch diameter Ring Shank as approved by manufacturer with minimum 1,000 hours salt spray resistance to ASTM B 117.
- F. 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.
- G. 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 along Hips & ridges.
- B. Nails: Common smooth non-galvanized: 16d, 3¼-inch long.
- C. Alternate Battens: Galvanized steel hat section; 25 gauge.
- 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.



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- 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 on either side of the ridge spaced 5-inches apart. Stagger ends.
- B. Nail all battens in place with 16d common nails as per manufacturer's instruction.
- C. 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 valleys. Panels on opposing sides of valley shall form a straight and even line over the valley. As an alternative, panels can be cut to the valley center and covered with a special valley cover piece finished with stone-coating as regular panels.
- D. Install new valley flashing on all re-roofing applications.

3.4 INSTALLATION – Metro SHAKE-II

- A. Install MetroSHAKE-II with alternating courses staggered per fixed interlock locations on panels.
- B. Fastened at not less than four points at the rear flange of the panels and at four points on the front down turn of the panel.
- D. Fastener points shall be along the sloping nose 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.