



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 ROMAN Tile)
- B. Battens and nailers. (Applicable only to Metro ROMAN Tile)
- 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.metroroofs.com

2.2 MATERIALS

- A. Metal Panel: Metro ROMAN 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 five (5) individual concave tile under-pans and five (5) convex tile over-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: Eave Profiled 'Bird-Stop' Fascia Flashing and Side Flashing of same color and surface finish matching roof panels.
- E. Flashing - Painted: Tile 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 .131-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 hex 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: Metro SMARTjack 3-in-1 (Fit pipes from 1-1/4" – 3") or 3-in-4 (Fit pipes from 3" – 4") rubber gasket pipe jacks stone coated to match the Metro panel finish. 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 or 1-inch X 4-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. Or use hold tabs.
- 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 Metro ROMAN Tile 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.