



SPECIFICATION – SHAKE-II Batten

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 and Rake 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.metroroofs.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 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.
- C. Flashing - Stone-Coated: V-Bat Riser Flashing, Fascia Flashing, Head-Wall Flashing, Z-Bar Flashing, Tile-Rake Metal Flashing and Valley Cover Flashing of same color and surface finish matching roof panels.
- D. Flashing - Painted: Provide as necessary for specific job various shaped metal flashing sections for transition areas with construction & Stone-Coated steel roof.
- E. Nails: Corrosion resistant full round headed flathead, Ring Shank 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.
- F. Screws: #-10 X 2"inch (Back heel of panel) & #-10 X 2-1/2" inch (Front downturn nose of panel) long corrosion resistant steel, 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.
- 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 equal) or better along Hips, Ridges and Rakes.
- B. Batten Nails: Common smooth 16d, 3¼-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.
- G. Pipe Sleeve Covers: Metro SMART-Sleeves (For pipes from 3/4" up to and including 4" diameter) and are designed to be used in conjunction with a Metro SMART-Jack pipe flashing.



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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 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.
- E. Install Metro Stone-Coated Fascia Metal across bottom batten at the fascia.

3.3 INSTALLATION - VALLEY

- A. Valleys shall be installed with minimum 6-inches overlap in the direction of flow.
- B. Fasten in place minimum 24-inches centers through outer flange section of valley flashing. Or use hold tabs. Fasteners shall be either sealed or have a rubber washered head to prevent leaking.
- 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 SHAKE-II

- A. Install Metro SHAKE-II with alternating courses staggered.
- B. Fastened at not less than eight (8) points (four across the nose & four across the back flange) for regular conditions and twelve (12) points (six across the nose and six across the back flange) for High Velocity Hurricane Zones (HVHZ) areas.



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- C. Fastener points shall be, along the back flange and across the front downturn nose of each panel at the overlap, and at two other intermediate positions.

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.