



SPECIFICATION – SHINGLE Batten-Less

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 Shingle)
- B. 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.



SPECIFICATION – SHINGLE Batten-Less

METRO ROOF PRODUCTS

3093 'A' Industry Street
Oceanside, CA USA 92054
(760) 435-9842 FX (760) 435-1162

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.



SPECIFICATION – SHINGLE Batten-Less

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

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 SHINGLE ® Pressure formed aluminum-zinc alloy coated sheet steel ASTM A792/A792M; 26 gauge thick steel 52 1/2 inches long X 10 1/2 inches wide nominal size with raised and lowered sections forming a series of 'shingle'. Acrylic resin coated, colored stone chip finish. Architect shall select color from manufacturer's standard colors.
- B. Hips and Ridges: Shingle Trim Caps of same color and surface finish as Metro panels.
- C. Rake: Shingle Rake Channel flashing of same color and surface finish as Metro panels. Drip Edge metal is painted in the same or contrasting color to Metro panels.
- D. Flashing - Stone-Coated: Fascia Flashing, Head-Wall Flashing, Z-Bar Flashing and Valley Cover Flashing of same color and surface finish matching roof panels.
- E. Flashing - Painted: Provide as necessary for specific job various shaped metal flashing sections for transition areas with construction & Stone-Coated steel roof.
- F. Nails: Corrosion resistant, 1¼-inch long by 0.125-inch diameter ring shank roofing nails as approved by manufacturer.
- G. Screws: No. 10 by 1-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. D. Screws: Hot Dip galvanized steel; No. 10 by 2-inch long corrosion resistant steel screws or as approved by manufacturer.
- B. Sealant: In accordance with ASTM C 920-86.



SPECIFICATION – SHINGLE Batten-Less

METRO ROOF PRODUCTS

3093 'A' Industry Street
Oceanside, CA USA 92054
(760) 435-9842 FX (760) 435-1162

- C. 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.**

- D. 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.



SPECIFICATION – SHINGLE Batten-Less

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

PART 3

EXECUTION

3.1 GENERAL

- A. Verify roof structure for correct framing prior to placing 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 - 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 mitre cut $\frac{3}{4}$ -inch away from valley center diverter. They may also be bent down into valley. Panels on opposing sides of valley shall form a straight and even line up the valley. A valley cover flashing finished as the regular panels is installed down the center of the valley and fastened to the panels with stitch (zip) screws into the top of every second course of panels.
- D. Install new valley flashing on all re-roofing applications.

3.4 INSTALLATION – Metro SHINGLE

- A. Install Metro SHINGLE with alternating courses staggered.
- B. Fastened at not less than four points.
- D. Fastener points shall be along the back nailing flange at the overlap, and at two other intermediate positions.



SPECIFICATION – SHINGLE Batten-Less

METRO ROOF PRODUCTS

3093 'A' Industry Street
Oceanside, CA USA 92054
(760) 435-9842 FX (760) 435-1162

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.