

SECTION 07312 – LAMINATED FIBERGLASS ASPHALT SHINGLES (ARCHITECTURAL)

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals:
  - 1. Product Data
  - 2. Roof Shingle Samples in selected color.
  
- B. Identify each bundle of shingles with appropriate markings of UL or another testing and inspecting agency acceptable to authorities having jurisdiction.
  - 1. Exterior Fire-Test Exposure: UL 790, Class A.
  - 2. Wind-Resistance-Test Characteristics: ASTM D 3161.
  - 3. Roof system wind uplift resistance: As per table 1507.2.7.1, FBC 2010.
  - 4. Roof system shall have Florida Product Approval for components and cladding or Miami-Dade Notice of Approval.
  
- C. Warranties: Provide standard manufacturer's written warranty, signed by manufacturer agreeing to promptly repair or replace fiberglass-asphalt shingles that fail in materials or workmanship within 50 years from date of Substantial Completion.
  
- D. Quality Assurance: Installer Qualifications: Utilize an installer having demonstrated experience on projects of similar size and complexity.

PART 2 - PRODUCTS

2.1 LAMINATED FIBERGLASS-ASPHALT SHINGLES

- A. Fiberglass Shingles: ASTM D 3462 and as follows:
  - 1. Laminated-Strip Double-Layer, Random Cut Asphalt Shingles: laminated, multi-ply overlay construction, glass-fiber reinforced, mineral-granule surfaces, self-sealing.
  - 2. Ridgecap Asphalt Shingles: Mineral-granule surfaced, self-sealing, square, and single tab. Straight butt edge.
  
- B. Products:
  - 1. Basis of Design: **Tamko Heritage Premium. Tamko Roofing Products Inc.**
    - a. Color: Selected from manufacturers standard colors by Owners Representative.

2.2 ACCESSORIES

- A. Self-Adhering Sheet Underlayment: ASTM D 1970, SBS-modified asphalt; mineral-granule or slip-resisting-polyethylene surfaced; with release paper backing; cold applied.
  - 1. Grace "Ice and Water Shield"
  
- B. Asphalt Roofing Cement: ASTM D 4586, Type II, asbestos free.

- C. Exhaust vents: Meet TAS-100, ASTM D 1929, ASTM D 635, ASTM D 2843
  - 1. GAF – Elk Cobra Exhaust Vent, low profile attic ridge vent for installation under ridge shingles (Polyester fiber mesh)
- D. Roofing Nails: Stainless-steel shingle nails, minimum 0.120-inch diameter, of sufficient length to penetrate 3/4 inch into solid wood decking or extend at least 1/8 inch through OSB or plywood sheathing.
- E. Accessories: The contractor shall provide **all** materials required to complete a weather tight roofing system as per the construction documents including, flashing, vents, trim, copings, fascias, valley pans, gutters and downspouts.
- F. Sheet Metal Flashing and Trim: Sheet Metal: Aluminum.
  - 1. Fabricate sheet metal flashing and trim to comply with recommendations in SMACNA's "Architectural Sheet Metal Manual."
  - 2. Drip Edge: Formed sheet metal with at least a 2-inch roof deck flange and a 1-1/2-inch fascia flange with a 3/8-inch drip at lower edge.
  - 3. Open-Valley Flashing: Fabricate with 1-inch- high inverted-V profile at center of valley and equal flange widths of 12 inches.

## 2.3 SUBSTITUTIONS

- A. By owner approval only. All material samples and submittals shall be made to the owner's representative and shall be pre-approved prior to installation.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- A. Comply with recommendations in ARMA's "Residential Asphalt Roofing Manual" and with asphalt shingle recommendations in NRCA's "The NRCA Roofing and Waterproofing Manual."
- B. Apply self-adhering sheet underlayment over entire roof, extending up under flashing at side wall locations.
- C. Install valleys complying with ARMA and NRCA instructions. Construct woven and closed-cut valleys.
- D. Install metal flashings and other sheet metal to comply with recommendations in ARMA's "Residential Asphalt Roofing Manual," and asphalt shingle recommendations in NRCA's "The NRCA Roofing and Waterproofing Manual."
- E. Install first and remaining courses of asphalt shingles stair-stepping diagonally across roof deck with manufacturer's recommended offset pattern at succeeding courses, maintaining uniform exposure.
- F. Ensure that roof installation meets requirements by Florida Building Code 2010 for windload criteria.

END OF SECTION 07312