

Montgomery County Public Schools Facilities Guide
DIVISION 7 - THERMAL AND MOISTURE PROTECTION

SECTION 07300

SHINGLES AND ROOFING TILES

PART 1 GENERAL

1.01 GUIDE INCLUDES

- A. Fiberglas or recycled plastic shingles on roofs as shown.

Comment [ASC1]: Environmentally metal is preferable to asphalt shingles.

1.02 QUALITY ASSURANCE

- A. Roofing contractor certified by manufacturer of material installed.

1.03 SUBMITTALS

- A. Submit location of manufacturer and, if available, extraction/ recovery of roofing materials.
- B. Submit recycled-content data, designating percentages of post-consumer and pre-consumer material.
- C. Submit MSDS for any applicable products used.
- D. If applicable, submit manufacturer data on Solar Reflectance Index (SRI).

1.04 WARRANTY

- A. 30 year limited warranty by manufacturer.

PART 2 PRODUCTS

2.01 PERFORMANCE

- A. If necessary to contribute to 75 percent of total available roof area, roof shingles shall have a minimum Solar Reflectance Index (SRI) of 29.

2.02 MANUFACTURERS

- A. Asphalt shingle type and manufacturers, provide products manufactured within a 500-mile-radius of project site:
 1. Oakridge by Owens/Corning Fiberglas Corp.
 2. Timberline Series by GAF Building Materials Corp.
 3. Dimensional/30 Shake by Celotex Corp.
 4. Heritage 30 by Tamko Roofing Products
 5. Independence Shingle by CertainTeed Corp.

2.03 RECYCLED PLASTIC-RUBBER SLATE-LOOK SHINGLES

- A. Manufacturers
 1. Majestic Slate by EcoStar, division of Carlisle.
 2. Authentic Roof by Crowe Building Products Ltd
- B. Made from at least 50 percent total recycled plastic and/or rubber materials, installed based on UL-approved Class A fire rated details:

2.04 DECKING

- A. Decking shall be a minimum of 1/2 inch plywood or weatherboard surface bonded to polyisocyanurate foam core of thickness necessary to provide an R value of 30 equal to AC foam vented-R nail base by Atlas Energy Products.
Cornell Corp. - ThermaCal
Johns Manville - NailBoard
R Max, Inc. - Nailable Base
- B. If manufacturer will not warrant the roof using above described decking, manufacturer shall submit type of decking and insulation proposed for approval by Architect/Owner

PART 3 EXECUTION

3.01 EXAMINATION

- A. Inspect deck to receive roofing and correct any deficiencies before commencing work.

3.02 INSTALLATION

- A. Install 15# organic felt over decking in shingle pattern, lapping joints a minimum of 2 inches secure with roofing manufacturers' recommended nails spaced 18 inches o.c. each way and 6 inches o.c. at the edge.
- B. Install shingles in accordance with manufacturer's recommended procedures using minimum of 4 nails per 12 x 36 inch shingle (no staples).
- C. Provide ventilation by vent ridge row or other methods to provide proper ventilation.
- D. Comply with OSHA requirement pertaining to fall protection and scaffolding.
- E. Recycle waste roofing materials in accordance with Division 1 Construction Waste Management requirements.

END OF SECTION