

SECTION 07 53 23 EPDM MEMBRANE ROOFING

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This section specifies materials and workmanship for EPDM Membrane Roofing.

1.2 SUBMITTALS

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Manufacturer's Literature and Data:
1. Product description.
 2. Application instructions.

1.3 APPLICABLE PUBLICATIONS

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only.
- B. American Society for Testing and Materials (ASTM):
- D1079..... Standard terminology Relating to Roofing and Waterproofing
- C. Glossary of NRCA's "The NRCA Roofing Manual."
- D. Roof Consultants Institute "Glossary of Roofing Terms."
- E. Sheet Metal Terminology and Techniques: SMACNA "Architectural Sheet Metal Manual."

1.4 DELIVERY, STORAGE AND HANDLING

- A. Deliver roofing materials in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, and directions for storage.

PART 2 - PRODUCTS

2.1 ETHYLENE PROPLYLENE DIENE MONOMER ROOFING MEMBRANE-EPDM

- A. Scrim or fabric internally reinforced uniform, flexible sheet made from Ethylene Propylene Diene Monomer, ASTM D 4367, Type II, 60 mils, black.

2.2 AUXILIARY ROOFING MATERIALS

- A. Sheet Flashing: Manufacturer's sheet flashing of same material, type, reinforcement, thickness, and color as sheet membrane.
- B. Primer Material: Manufacturer's standard synthetic-rubber polymer primer.

- C. Seaming Material: Manufacturer's standard, 6 inch wide minimum, butyl splice tape with release film.
- D. Bonding Adhesive: Manufacturer's standard water-based bonding adhesive for membrane.
- E. Metal Termination Bars: Manufacturer's standard predrilled stainless-steel or aluminum bars, with anchors.
- F. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening membrane to substrate, and acceptable to membrane roofing system manufacturer.

PART 3 - EXECUTION

3.1 SURFACE PREPARATION

- A. Surfaces to receive EPDM membrane shall be clean and smooth.
- B. Remove foreign matter, loose particles of mortar or other cementitious droppings.
- C. Clean and wash soil or dirt particles from surface.
- D. Remove free water and dry substrate surface.

3.2 APPLICATION

- A. Install roofing membrane in accordance with roofing system manufacturer's written instructions, applicable recommendations of the roofing manufacturer and requirements of this Section.
- B. Coordinate installing roofing system so components of the roofing membrane system are not subjected to precipitation or left uncovered at the end of the work day or when rain is imminent.
- C. Install roofing membrane over area to receive roofing. Unroll roofing membrane and allow to relax before installing. Install sheet in accordance with roofing system manufacturer's written instructions.
- D. Accurately align roofing membrane and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps where required.
- E. Bonding Adhesive: Apply water-based bonding adhesive to substrate at rate required by manufacturer and install roofing membrane. Do not apply bonding adhesive to splice area of roofing membrane.
- F. Mechanically fasten roofing membrane securely at terminations, penetrations and perimeter of roofing material.
- G. Field Fabricated Seam Installation: Clean and prime both faces of splice areas, apply splice tape, and firmly roll side and end laps of overlapping roofing membrane according

to manufacturer's written instructions to ensure a watertight seam installation. Apply lap sealant and seal exposed edges of roofing membrane terminations.

- H. Repair or remove and replace components of roofing system where test results or inspections indicate that they do not comply with specified requirements.

3.3 LOCATION

- A. Apply to surfaces where shown.

3.4 PROTECTION AND CLEANING

- A. Protect roofing system membrane from damage and wear during remainder of construction period.

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