

# **DIVISION 07 – THERMAL AND MOISTURE PROTECTION**

## **07 50 00 MEMBRANE ROOFING**

### **PART 1 - GENERAL**

#### 1.01 DESIGN CRITERIA

- A. EPDM (ethylene propylene diene monomer) is the WSU standard for all flat or low-sloped roofs. Use of TPO (thermoplastic polyolefin) requires specific approval from the WSU Project Manager and the WSU Roofing Shop.

### **PART 2 - PRODUCTS**

#### 2.01 ROOFING MEMBRANE

- A. Acceptable Manufacturers
  - 1. Carlisle EPDM
  - 2. Firestone
  - 3. Johns Manville

### **PART 3 - EXECUTION**

#### 3.01 INSTALLATION

- A. Application of volatile and/or irritant adhesives:
  - 1. Contractor shall coordinate all membrane roofing installation with the WSU Construction Manager and incorporate methods to prevent volatile and/or irritant adhesive vapor entrainment in buildings, either through the HVAC system or through doorways or windows at:
    - i. The building receiving the roofing installation.
    - ii. Buildings adjacent to the roofing project whose air supply inlets, doors or windows may be subject to air quality degradation.
- B. Use of mechanical fasteners in lieu of fully adhered roofing membrane requires specific approval from the WSU Construction Manager.

#### 3.02 WARRANTY

- 1. See general warranty requirements and design wind speed references in section 07 00 00 "Thermal and Moisture Protection."
- 2. Manufacturer's Special Warranty, without monetary limitation, in which manufacturer agrees to repair or replace components of membrane roofing system that fail in materials or workmanship within specified warranty period or below design wind speed.

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- i. Special warranty includes membrane roofing, base flashings, roof insulation, fasteners, vapor barrier/temporary roof, insulation adhesive cover boards, roofing accessories, and other components of membrane roofing system. Special warranty to include an R-value warranty term.

**END OF SECTION**