

**SECTION 07110**  
**SHEET MEMBRANE WATERPROOFING**

**PART 1- GENERAL**

**1.1 SUMMARY:**

**A. Section Includes:**

USE OF PVC, HYPALON OR EPDM SHEET  
SYSTEMS MUST BE APPROVED BY UCCS  
STAFF.

1. Sheet membrane waterproofing application.
2. Flashing around the perimeter of horizontal areas high enough to prevent leakage of accumulated water.
3. Flashing at all penetrations through the membrane system.
4. Protection for the membrane application.

**B. Related Sections:**

1. Section 03100 - Concrete Formwork.
2. Section 03300 - Cast-in-Place Concrete: Finishes on concrete to receive waterproofing.
3. Section 07120 - Fluid Applied Waterproofing.
4. Section 07160 - Bituminous Dampproofing.
5. Section 07320 - Roofing Tile: Modified bitumen perimeter underlayment.
6. Section 07600 - Flashing and Sheet Metal.

**1.2 SUBMITTALS:**

- A. Submit test data from manufacturer on proposed waterproofing system.
- B. Submit complete manufacturer's data including suggested installation procedures and details.
- C. Submit shop drawings showing penetrations, sheet layout, special conditions and details not standard with the manufacturer.

**1.3 QUALITY ASSURANCE:**

**A. Applicator Qualifications:**

1. Not less than 5 years successful experience on projects of similar size and scope using materials of the type specified.
2. Submit letter from manufacturer stating that the applicator is certified to apply the system specified in this section.
3. Provide certification letter on manufacturer's letterhead and signed by an officer of the company.

B. Waterproof membrane products used on this project shall be of one manufacturer, unless noted specifically otherwise herein. Manufacturer must have not less than 3 years successful experience in the manufacture of required materials.

C. Pre-Installation Conference:

1. Meet at the project site and review requirements for the work and conditions which could possibly interfere with the successful performance of the work. Require every party who is concerned with the work, or required to coordinate with it or to protect it thereafter, to attend the conference.

2. Require manufacturer's technical representative to participate in the conference.

#### 1.4 WARRANTY:

A. Manufacturer shall supply a five year materials warranty for this application.

B. Waterproofing applicator shall supply a two year workmanship warranty and acceptable surety.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS/MATERIALS:

A. "Bituthene" by W.R. Grace.

B. "Jiffy Seal" by Protecto Wrap.

C. "Miradri" by Mirafi.

D. "Polyguard" by Polyguard Products, Inc.

E. "Polyken 660" by Polyken Technologies.

F. Approved substitute.

#### 2.2 ACCESSORIES:

A. Provide accessories including expansion joints, primers, fillers, sealers, joint tapes, and other items recommended by the manufacturer of the primary waterproofing system.

B. Protection Course: Provide laminated protection board, board insulation, drainage composite board, or other protection board as recommended by the primary waterproofing system manufacturer.

**PART 3 - EXECUTION**

**3.1 FIELD QUALITY CONTROL:**

**A. Horizontal Surface Flood Test:**

1. Prior to placing of the finish concrete slab on horizontal surfaces, the areas shall be given 48 hour 1" deep minimum flood test.
2. Drains shall be plugged and barriers placed to contain the water.
3. 24 hours prior notification of the test shall be given to the Architect and manufacturer of the fluid-applied membrane.

**END OF SECTION 07110**