

SECTION 07264

BELOW-GRADE VAPOR RETARDERS

PART 1 - GENERAL

1.01 DESCRIPTION

- A. This Section describes the requirements for furnishing and installing vapor retarder and sand under new concrete slabs-on-grade.
- B. Related Sections:
 - 1. Cast-in-place concrete is specified in Section 03300.

1.02 SUBMITTALS

- A. Product Data: Include independent laboratory test results showing compliance with ASTM and ACI Standards. Include manufacturer's installation instructions for placement, seaming, and pipe boot installation.

1.03 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Protect products against damage during field handling and installation.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Vapor Barrier Sheeting: Stego Industries LLC "Stego Wrap 15-mil Class A" or approved equal.
 - 1. Water Vapor Permeance: 0.012-perms, ASTM E96 and ASTM F1249.
 - 2. Water Vapor Barrier: Meets or exceeds Class A, ASTM E1745.
 - 3. Thickness: Not less than 15-mils.
 - 4. Tensile Strength: 76.6 lbf./inch, ASTM D882.
 - 5. Puncture Resistance: 2445 grams, ASTM D1709.
- B. Sealing Material: High density polyethylene tape with pressure sensitive adhesive, minimum 4-inches wide.
- C. Pipe Boots: Construct from vapor retarder sheeting material and pressure sensitive tape in accordance with manufacturer's instructions.
- D. Sand: Clean yard sand, free from excessive dirt, debris, organic matter, and fines smaller than No. 200 sieve size.

PART 3 - EXECUTION

3.01 INSPECTION

- A. Below-grade and grading work and items penetrating vapor retarder shall be complete prior to start of installation.

3.02 INSTALLATION REQUIREMENTS

- A. Vapor Retarder Sheeting:
 - 1. Install in accordance with manufacturer's instructions and ASTM E1643.
 - 2. Unroll with the longest dimension parallel with the direction of the pour.
 - 3. Lap vapor retarder over footings and seal to foundation walls.
 - 4. Overlap joints 6-inches and seal with pressure sensitive tape.
 - 5. Seal penetrations, including pipes, with pipe boot.

6. Penetrations through vapor retarder sheeting except for reinforcing steel and permanent utilities are not permitted.
7. Repair damaged areas by cutting patches of vapor retarder sheeting, overlapping damaged area 6-inches and taping all four sides with pressure sensitive tape.

B. Sand Cushion:

1. Provide 2-inch layer over vapor retarder, unless otherwise indicated.
2. Spread over surfaces required and work to fill voids; leave in stable condition with finished surfaces reasonably uniform at established grade.

END OF SECTION