PART 1 - GENERAL

1.1 SUMMARY

A. Products Supplied But Not Installed Under This Section:
   1. Vapor retarder, seam tape, and penetration accessories for installation under interior slabs-on-grade.

B. Related Sections:
   1. Section 31 2324: Installation.

1.2 REFERENCES

A. American Society for Testing and Materials:
   1. ASTM E 96-00, 'Standard Test Methods for Water Vapor Transmission of Materials.'
   2. ASTM E 154-99, 'Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs.'
   3. ASTM E 1643-98, 'Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs.'
   4. ASTM E 1745-97 (2004), 'Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs.'

1.3 SUBMITTALS

A. Product Data: Manufacturer's literature.

B. Quality Control / Assurance:
   1. Independent laboratory test results showing compliance with ASTM Standards.
   2. Manufacturer's installation, seaming, and penetration boot instructions.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Vapor Retarder:
   1. Conform to requirements of ASTM E 1745, Class A minimum with a low density polyethylene membrane.
   2. Category Four Approved Products:
      b. Griffolyn 10 or 15 mil by Reef Industries, Houston, TX  www.reefindustries.com.
      c. VaporBlock 10 or 15 by Raven Industries, Sioux Falls, SD  www.ravenind.com.

2.2 ACCESSORIES

A. Seam Tape: As recommended by Membrane Manufacturer for continuous taping of seams and sealing of penetration boots.
B. Penetration Boots at Utility Penetrations:
   1. Moistop And Reef Industries: Factory fabricated pipeboots.
   2. All Others: Field fabricated from same material as vapor retarder membrane.

PART 3 - EXECUTION

3.1 INSTALLATION

   A. Install in accordance with ASTM E 1643, except where Contract Documents show otherwise.

END OF SECTION