PART 1 – GENERAL

1.1 SUMMARY
   A. Products Supplied Under This Section
      1. Vapor Retarder, seam tape, and pipe boots

1.2 REFERENCES
   A. American Society for Testing and Materials (ASTM)
      1. ASTM E 1745 Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil Or Granular Fill Under Concrete Slabs
      2. ASTM E 154 Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs
      4. ASTM E 1643 Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs
   B. American Concrete Institute (ACI)
      1. ACI 302.1R-6 & 7 Section 3.2.3 Vapor Retarder

1.3 SUBMITTALS
   A. Testing/Specifications
      1. Independent laboratory test results showing compliance with ASTM & ACI Standards.
      2. Manufacturer’s samples, literature.
      3. Manufacturer’s installation instructions for placement and seaming.

PART 2 – PRODUCTS

2.1 MATERIALS
   • Provide a Vapor Retarder, which meets ALL criteria for Class A, per ASTM E-1745. Supplied material must be printed with “Meets ASTM E-1745 Class A” a minimum of 1 time per 500 sq.ft.
     • VaporBlock 15 by Raven Industries – 800-635-3456
     
     Other manufacturers accepted meeting the above specification:
     W.R. Meadows – 800-342-5976
     Fortifiber Corporation – 800-732-6464

2.2 ACCESSORIES
   A. Seam Tape
      1. VaporBond Tape by Raven Industries, 800-635-3456 or other 4” wide tape approved by vapor retarder manufacturer.
   B. Pipe Boots
      1. Raven VaporBoot System or other Manufacturer’s supplied pipe boot system.

PART 3 – EXECUTION

3.1 PREPARATION
   A. Ensure that subsoil is approved by architect
      1. Level and tamp or roll aggregate, sand or tamped earth base.

3.2 INSTALLATION
   A. Install Vapor Retarder:
      1. Installation shall be in accordance with manufacturer’s instructions and ASTM E 1643.
         A. Unroll Vapor Retarder with the longest dimension parallel with the direction of the pour.
         B. Lap Vapor Retarder over footings and seal to foundation walls.
         C. Overlap joints 6 inches and seal with VaporBond Tape or other 4” wide pressure sensitive tape.
         D. Seal all penetrations (including pipes) with manufacturer’s pipe boot.
         E. No penetration of the Vapor Retarder is allowed except for reinforcing steel and permanent utilities.
         F. Repair damaged areas by cutting patches of Vapor Retarder, overlapping damaged area 6 inches and taping all four sides with VaporBond Tape or other 4” wide pressure sensitive tape.

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