

**UNDER-SLAB VAPOR RETARDER
(Class C)**

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
 3. ASTM E 96 Standard Test Methods for Water Vapor Transmission of Materials
 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

- v **Provide a Vapor Retarder, which meets ALL criteria for Class C, per ASTM E-1745.**

υ *VaporBlock 6 by Raven Industries – 800-635-3456*

Other manufacturers accepted meeting the above specification:

Fortifiber Corporation – 800-732-6464

Reef Industries, Griffolyn Division. – 800-231-6074

2.2 ACCESSORIES

- A. Seam Tape
1. Vapor Bond 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.