

**UNDER-SLAB VAPOR RETARDER**  
**(ASTM D 1745-11, Class A – Contains Post-Consumer Recycled Content)**

**PART 1 – GENERAL**

1.1 SUMMARY

A. Products Supplied Under This Section

1. Vapor Retarder/Barrier, 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.
4. Manufacturer's LEED compliance score sheet.

**PART 2 – PRODUCTS**

2.1 MATERIALS

- **Provide a Vapor Retarder containing Post-Consumer Recycled Content, which meets ALL criteria for Class A, per ASTM E-1745-11.** Supplied material must be printed with "Meets ASTM E-1745 Class A" a minimum of 1 time per 500 sq.ft., and must also directly list the material contains post-consumer recycled content.
  
- **VaporBlock® G™ 15** by Raven Industries – 800-635-3456

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 G 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 and pull open all folds.
  - B. Lap Vapor Retarder over footings and seal with Butyl Seal Tape or approved equal to foundation walls.
  - C. Overlap joints 6 inches and seal with VaporBond Tape or other approved 4" wide pressure sensitive tape.
  - D. Seal all penetrations (including pipes) with manufacturer's pipe boot system.
  - 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 approved 4" wide pressure sensitive tape.