

Guide Specification

VB-350 (16mil) Vapor Retarder

UNDER-SLAB VAPOR RETARDER (03300 & 07260)

PART I – GENERAL

1-1 SUMMARY

A. Products Supplied Under This Section

1. Vapor Retarder, Seam Tape & Accessories for installation under concrete slabs
2. Only 100% Virgin Resin Products – No Recycled Polyethylene / Visqueen
3. Only products by Manufacturer – No Private Label / Marketed / Outsourced Products
4. Only products with Local Manufacturer Field Representative

B. Related Sections

1. Section 03300 – Cast-in-place Structural Concrete
2. Section 07260 – Under-Slab Vapor Retarder

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
5. ASTM D 903 – Standard Test Method for Peel or Stripping Strength of Adhesive Bonds

B. American Concrete Institute (ACI)

1. ACI 302.1R-04 – Vapor Retarder Component (plastic membrane) is not less than 10 mils thick

1.3 SUBMITTALS

A. Quality Control / Assurance

1. Submit Laboratory test results showing compliance with ASTM & ACI Standards
2. Submit Manufacturers Product Samples & Literature
3. Manufacturer's installation instructions for placement, seaming and pipe boot installation

PART II – PRODUCTS

2.1 MATERIALS

A. Vapor Retarder

1. Must Be 100% Virgin Resin High Density Polyethylene Vapor Retarder
 - a. Water Vapor Permeance ASTM E 96 0.009 Perms (US)
 - b. Water Vapor Permeance ASTM E 96 0.006 Perms (Metric)
 - c. Water Vapor Retarder ASTM E 1745 Meets Class A (Plastics)
 - d. Tensile Strength ASTM D 882 63 lbs/in
 - e. Puncture Resistance ASTM D 1709 2750 grams



IntePlus® XF FILM

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2. Vapor Retarder Products

- a. Barrier-Bac VB-350 (16 mil) by Inteplast, 877-535-0555, www.BarrierBac.com
- b. Premoulded Membrane with Plasmatic Core by WR Meadows
- c. Zero-Perm by Alumiseal
- d. Florprufe 120 by Grace Construction Products

2.2 ACCESSORIES

A. Seam Options

1. Seam Tape must have the following qualities:
 - a. Water Vapor Permeance ASTM E 96 <0.02 Perms
 - b. Tensile Strength ASTM D 882 22 lbs/in. minimum
2. Seam Tape
 - a. Barrier-Bac Seam Tape by Inteplast, 877-535-0555, www.BarrierBac.com
3. Seam Welding
 - a. Seams may be heat welded if desired
 - b. Contact Inteplast at 877-535-0555 for heat welding assistance

B. Pipe Boots

1. Construct pipe boots from Vapor Retarder material & Seam Tape per manufacturer details

PART III – EXECUTION

3.1 PREPARATION

A. Ensure that subsoil is approved by architect or geotechnical firm

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 1643-98
 - 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 manufacturer's tape.
 - d. Seal all penetrations (including pipes) per manufacturer's instructions.
 - 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 tape.
 - g. Vapor Retarder installation to be inspected by field representative prior to concrete placement at no charge to owner, architect, engineer or contractor.
 - h. Architect to be notified when installation of Vapor Retarder is started to schedule field inspection.