



IntePlus® XF FILM

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

B. Related Sections

1. Section 03300 Cast-in-place Concrete
2. Section 07260 Vapor Retarder

1.2 REFERENCES

A. American Society for Testing and Materials (ASTM)

1. ASTM E 1745-09 Standard Specification for Plastic Water Vapor Retarders used in Contact with Soil or Granular Fill under Concrete Slabs.
2. ASTM E 154-99 (2005) Standard Test Methods for Water Vapor Retarders used in Contact with Earth under Concrete Slabs, on Walls, or as Ground Cover.
3. ASTM E 96-05 Standard Test Methods for Water Vapor Transmission of Materials.
4. ASTM E 1643-09 Selection, Design, Installation, and Inspection of Water Vapor Retarders used in Contact with Earth or Granular Fill under Concrete Slabs.
5. ASTM F 1249 Test Method for Water Vapor Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor.
6. ASTM D 903 Standard Test Method for Peel or Stripping Strength of Adhesive Bonds

B. American Concrete Institute (ACI)

1. ACI 302.2R-06 Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials. Vapor Retarder component is not less than 10 mils thick.

1.3 SUBMITTALS

A. Quality Control / Assurance

1. Summary of test results as per paragraph 8.3 of ASTM E 1745.
2. Manufacturer's samples, literature.
3. Manufacturer's installation instructions for placement, seaming and penetration repair instructions.

PART II – PRODUCTS

2.1 MATERIALS

A. Vapor Retarder (Performance Based Specification)

1. Vapor Retarder membrane must have the following properties:
 - a. Minimum 15 mil thick plastic geo-membrane
 - b. Manufactured with proprietary polyolefin resins
 - c. Water Vapor Retarder ASTM E 1745 Meets Class A (Plastics)
 - d. Water Vapor Permeance ASTM E 96 0.002 perms (g/hr/m²)
 - e. Water Vapor Permeance ASTM E 96 0.007 perms (US) or lower
 - f. Puncture Resistance ASTM E 1745 Class A minimum 3960 grams
 - g. Tensile Strength ASTM E 1745 Class A minimum 83.75 lbf/in



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2. Approved Manufacturer
 - a. Barrier-Bac VB-350 (16 mil) by Inteplast Group, 877-535-0555, www.BarrierBac.com
 - b. Vapor Block 15 (mil) manufactured by Raven Industries, 800-635-3456, www.ravenind.com
 - c. Griffolyn 15 mil manufactured by Reef Industries, 800-231-6074, www.reefindustries.com
 - d. Moistop Ultra 15 (mil) manufactured by Fortifiber, 800-773-4777, www.fortifiber.com

2.2 ACCESSORIES

A. Seam Tape

1. Tape manufactured and/or supplied by the approved manufacturers listed in section 2.1 Materials (B.):
 - a. Water Vapor Permeance ASTM E 96B <0.01 Perms

B. Pipe Boots

1. Construct Pipe Boots from Vapor Retarder material and pressure sensitive tape per manufacturer's instructions.

B. Pipe Boots

1. Mastic must have the following qualities:
 - a. Water Vapor Transmission ASTM E 96 — 0.3 perms or lower

PART III—EXECUTION

3.1 PREPARATION

- A. Ensure that base material is approved by Architect or Geotechnical Engineer
 1. Level and compact base material.

3.2 INSTALLATION

- A. Install vapor retarder in accordance with manufacturer's instructions and ASTM E 1643:
 1. Unroll vapor retarder with the longest dimension parallel with the direction of the concrete placement.
 2. Lap vapor retarder over footings and/or seal to foundation walls.
 3. Overlap joints 6 inches and seal with manufacturer's tape.
 4. Seal all penetrations (including pipes) per manufacturer's instructions.
 5. No penetration of the vapor retarder is allowed except for reinforcing steel and permanent utilities.
 7. Repair damaged areas by cutting patches of vapor retarder, overlapping damaged area 6 inches and taping all sides with tape.