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VAPORFLEX® STANDARD

INSTALLATION GUIDE

VERSION 1

Layfield's VaporFlex® Standard transforms your approach to moisture control. VaporFlex® Standard helps prevents moisture and water vapor from infiltrating your concrete slabs and foundations, actively discouraging mold growth and blocking harmful vapors from permeating your building interiors.

Notably, VaporFlex® Standard goes above and beyond, surpassing all standards set by ASTM E1745 requirements for a CLASS A vapor barrier – the pinnacle in performance for "Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs."

Elevate your protection standards.

The following information is provided for general guidance in the installation of Layfield VaporFlex® Standard. Drawings, plans, and specifications issued for construction by the engineer or architect shall supersede anything provided in this document. It is the Installer's responsibility to ensure the work is conducted in a safe manner, adhering to all applicable laws and standards.

INSTALLATION INSTRUCTIONS

1. The installation must be conducted following the guidelines outlined in ASTM E 1643 **– Standard Practice for the Selection, Design, Installation, and Inspection of Water Vapor Retarders used in Contact with Earth or Granular Fill Under Concrete Slabs**.
2. Ensure the earth or granular material beneath the slab base is prepared in accordance with the project plan and specifications. The base should be free of any protruding objects and debris.
3. Lay the longest side of VaporFlex® Standard aligning with the direction of the concrete pour, completely covering the pour area. Make sure it's deployed in a relaxed state.
4. Overlap should be at least 6" and sealed using VaporFlex® Standard Tape. Press the tape joint firmly to ensure maximum adhesion. Prior to taping, make sure the surface is free from dust and contaminants that could interfere with adhesion.
5. Terminate the VaporFlex® Standard at the edge of the slab by folding it vertically against the wall to match the anticipated thickness of the concrete slab, or extend the vapor barrier a minimum of 1 foot up the foundation wall. Secure it using VaporFlex® Standard Moldable Sealant Tape or compatible polyethylene vapor barrier butyl sealant such as LePage PL Acousti-Seal Vapour Barrier & Sound Reduction Adhesive. Ensure that the surface is clean, dry, and free of dust or debris to promote proper adhesion. If the concrete surface remains dusty and prevents effective bonding of the tape or adhesive, a termination bar may be installed above the tape or adhesive to ensure a secure and durable seal. Follow figures A–C.
6. Seal the vapor barrier around all plumbing, columns, conduits or any other penetrations across the VaporFlex® Standard vapor barrier. Refer to the "Pipe Boot Installation" note below.
7. Use VaporFlex® Standard Moldable Sealant Tape or compatible polyethalene vapor barrier butyl sealant such as LePage PL Acousti-Seal Vapour Barrier & Sound Reduction Adhesive as filler material to contour gaps, voids, and irregular surfaces to provide a vapor-tight barrier.
8. Care should be taken to protect the finished barrier following installation and while pouring the floor slab. Protection from sharp stones, under boots, dropped tools, or other sharp objects is prudent for a successful installation.

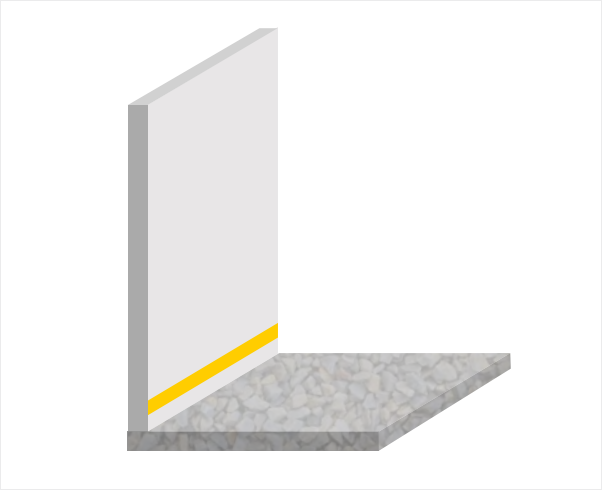

Figure A: VaporFlex® Standard Moldable Sealant Tape on vertical wall.

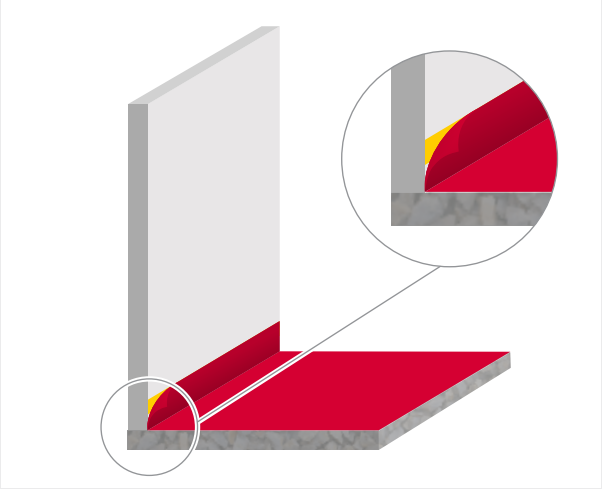

Figure B: Secure VaporFlex® Standard over VaporFlex® Standard Moldable Sealant Tape on vertical wall.

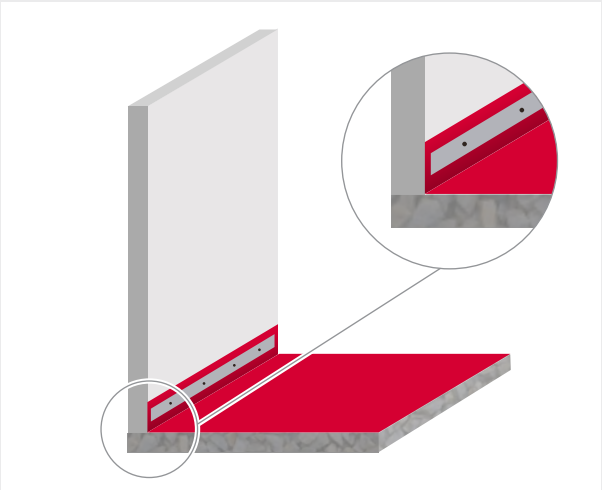

Figure C: Optional use of Termination bar for mechanical attachment.

PIPE BOOT INSTALLATION
Single Penetration

1. Cut a piece of VaporFlex® Standard that is equal to pipe circumference plus 6" additional wide by minimum 12" in length. *(Fig. 1)*
2. Mark 6" high slit along the length of the above cut piece at regular intervals that could go around the periphery of the pipe penetration. *(Fig. 2)*
3. Use a knife or scissors to cut “fingers” half the way of the film, as shown in the diagram. *(Fig. 2)*
4. Cut a “X” hole that is slightly smaller than the pipe diameter in the VaporFlex® Standard sheet at the pipe penetration location. *(Fig. 3)*
5. Wrap the VaporFlex® Standard around the pipe, taping the collar in place and securing the fingers to the bottom layer using the VaporFlex® Standard Tape. *(Fig. 4 and 5)*

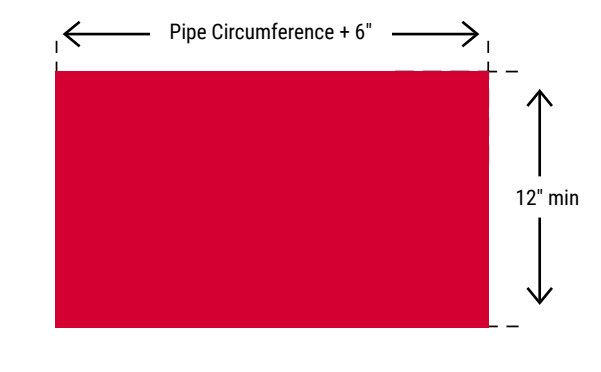

Figure 1:
Cut a piece of VaporFlex®.

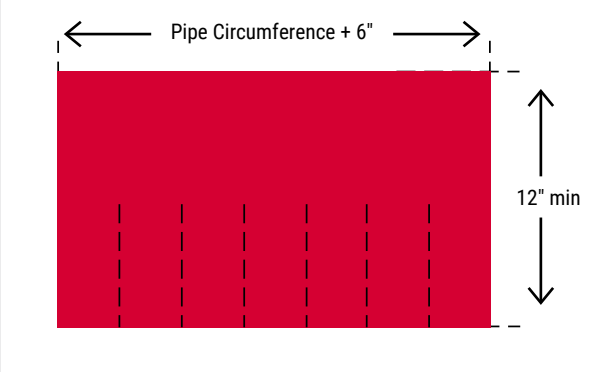

Figure 2:
Cut 6" slits along the length of the VaporFlex® piece.

PIPE BOOT INSTALLATION
Multiple Penetrations

1. Prepare a patch that is 6" larger in all directions for the multiple penetration
2. Cut the patch material in “X” patterns where each pipe would be penetrating and slide it over it.
3. The bottom VaporFlex® Standard layer should be slit to let multiple pipes to penetrate.
4. Tape it around each of the penetrations to patch securely with VaporFlex® Standard Tape.

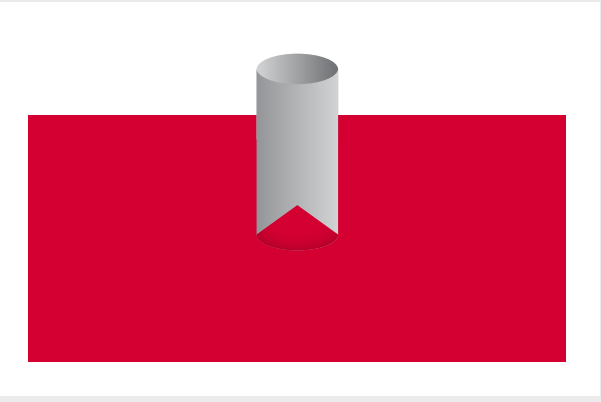

Figure 3:
Cut an ‘X’ in the panel for pipe penetration.

REPAIR INSTRUCTIONS

Accidental tear/hole caused during the installation needs to be fixed prior pouring the concrete.

Whether the damage is small or large it can pe patched by cutting a piece of VaporFlex® Standard that is at least 6" larger in all directions from the area to be covered.

Use VaporFlex® Standard Moldable Sealant Tape or compatible polyethylene vapor barrier butyl sealant such as LePage PL Acousti-Seal Vapour Barrier & Sound Reduction Adhesive. on the edge of the patch first and place the patch on the damaged surface and roll it down using a roller press to ensure proper bonding.

VaporFlex® Standard Tape
4" x 180' (SKU 47041806W)

VaporFlex® Standard
Moldable Sealant Tape
2" x 50' (SKU 4700250MS)

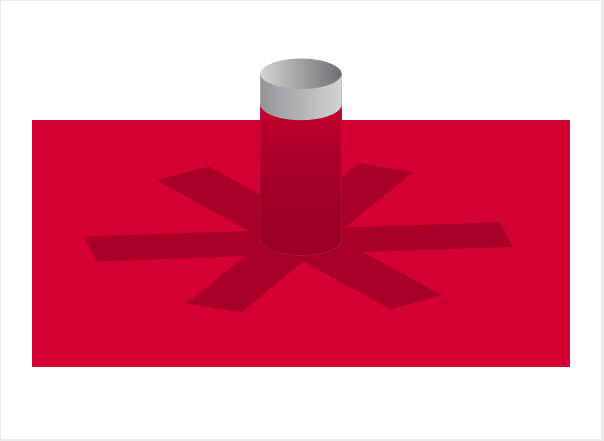

Figure 4: Wrap the slit cut piece around the pipe and 'fingers' on the VaporFlex®.

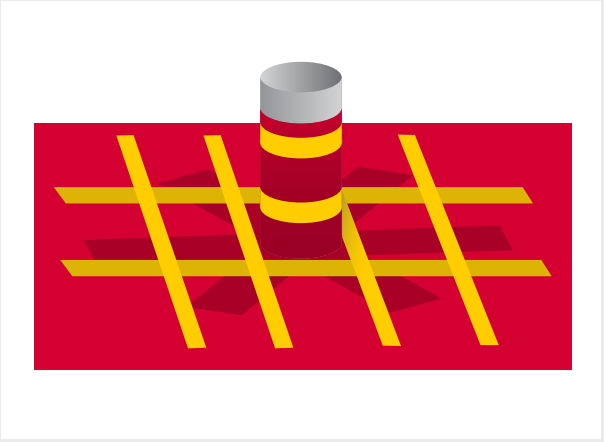

Figure 5:
Secure the 'fingers' using VaporFlex® Standard Tape.