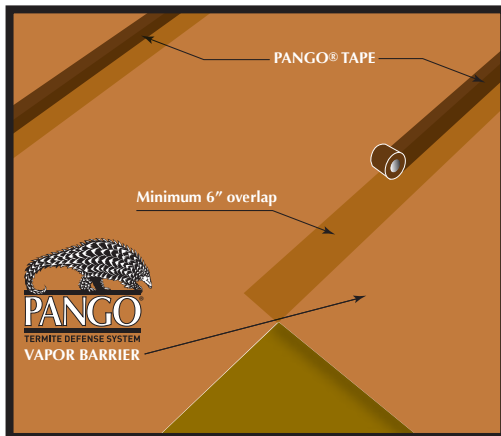


PANGO® WRAP TERMITE/VAPOR BARRIER INSTALLATION INSTRUCTIONS



IMPORTANT: Please read these installation instructions completely, prior to beginning any Pango Wrap installation. The following installation instructions are based on ASTM E1643 - Standard Practice for Selection, Design, Installation, and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs. There are specific instructions in this document that go beyond what is stated in ASTM E1643 to take into account subterranean termite protection. If project specifications call for compliance with ASTM E1643, then be sure to review the specific installation sections outlined in the standard along with the techniques referenced in these instructions.

FIGURE 1: UNDER-SLAB INSTALLATION



UNDER-SLAB INSTRUCTIONS:

1. Pango Wrap can be installed over an aggregate, sand, or tamped earth base. It is not necessary to have a cushion layer or sand base, as Pango Wrap is tough enough to withstand rugged construction environments.
2. Unroll Pango Wrap over the area where the slab is to be placed. Pango Wrap should completely cover the concrete placement area. All joints/seams both lateral and butt should be overlapped a minimum of six inches and taped using Pango Tape.

NOTE: The area of adhesion should be free from dust, dirt, moisture, and frost to allow maximum adhesion of the pressure-sensitive tape. Ensure that all seams are taped with applied pressure to allow for maximum and continuous adhesion of the pressure-sensitive Pango Tape.

3. ASTM E1643 requires sealing the perimeter of the slab. *Extend vapor retarder over footings and seal to foundation wall, grade beam, or slab at an elevation consistent with the top of the slab or terminate at impediments such as waterstops or dowels.* Consult the structural engineer of record before proceeding.

SEAL TO SLAB AT PERIMETER AND TERMINATING EDGES* OF PANGO WRAP:

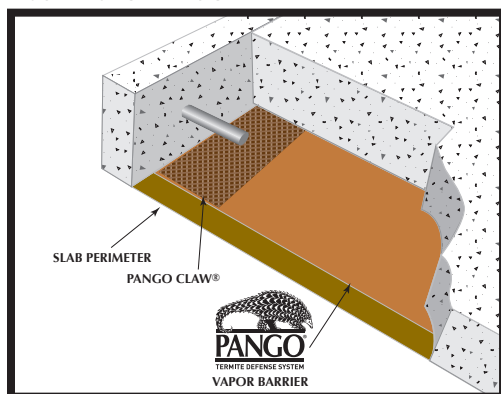
NOTE: Clean the surface of Pango Wrap to ensure that the area of adhesion is free from dust, dirt, moisture, and frost to allow maximum adhesion of the pressure-sensitive adhesive.

- a. Install Pango Claw® on the entire perimeter edge of Pango Wrap.
- b. Prior to the placement of concrete, ensure that the top of Pango Claw and all terminating edges are free of dirt, debris, or mud to maximize the bond to the concrete.

* Terminating Edge - Anywhere Pango Wrap stops in the interior area of the slab. Example: Interior footings or grade beams if they exist.

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FIGURE 2a: SEAL TO SLAB AT PERIMETER



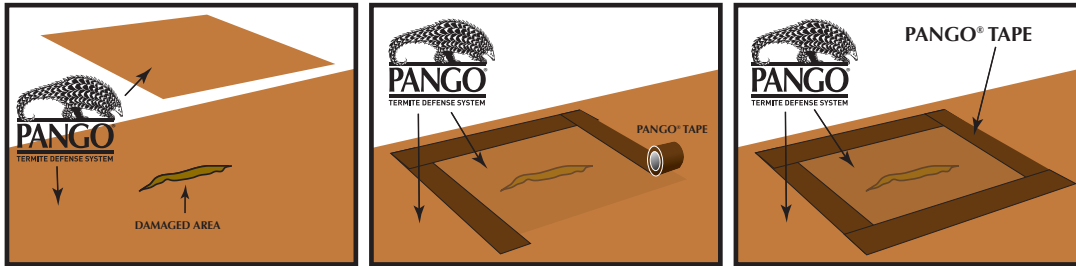
NOTE: Pango Wrap installation instructions are based on ASTM E1643 - *Standard Practice for Selection, Design, Installation, and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs.* These instructions are meant to be used as a guide, and do not take into account specific job site situations. Consult local building codes and regulations along with the building owner or owner's representative before proceeding. If you have any questions regarding the above mentioned installation instructions or products, please call us at 877-464-7834 for technical assistance. While Stego Industries' employees and representatives may provide technical assistance regarding the utility of a specific installation practice or Stego product, they are not authorized to make final design decisions.

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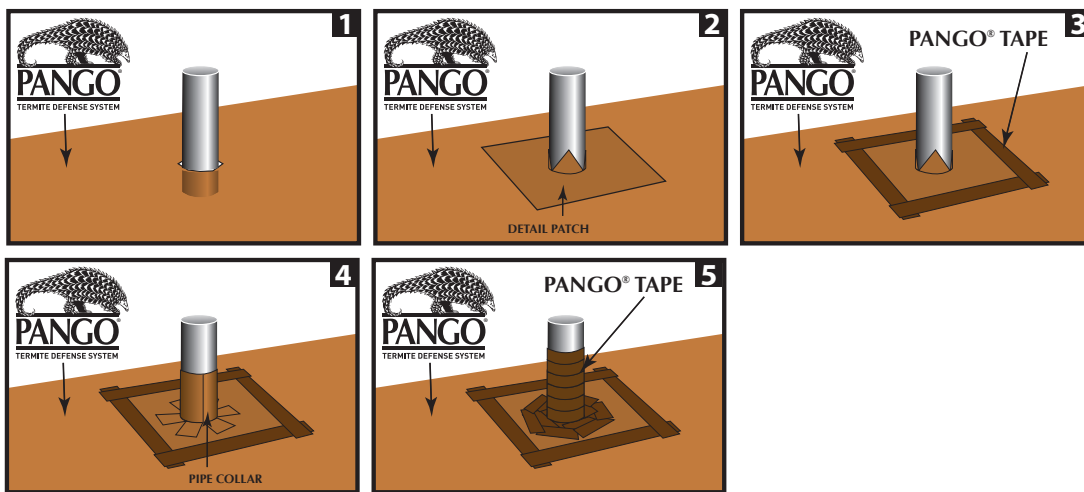
- In the event that Pango Wrap is damaged during or after installation, repairs must be made. Cut a piece of Pango Wrap to a size and shape that covers any damage by a minimum overlap of six inches in all directions. Clean all adhesion areas of dust, dirt, moisture, and frost. Tape down all edges using Pango Tape (see figure 3, Sealing Damaged Areas).

FIGURE 3: SEALING DAMAGED AREAS



- IMPORTANT: ALL PENETRATIONS MUST BE SEALED.** All pipe, ducting, rebar, wire penetrations and block outs should be sealed using Pango Wrap and Pango Tape (see figure 4a, Pipe Penetration Sealing).

FIGURE 4a: PIPE PENETRATION SEALING



PANGO WRAP PIPE PENETRATION REPAIR DETAIL: (See Figure 4a)

- Cut a hole into Pango Wrap such that the membrane fits over and around base of the pipe as closely as possible.
- Cut a detail patch to a size and shape that creates a six inch overlap on all edges around the void space at the base of the pipe. Cut an "X" the size of the pipe diameter in the center of the pipe boot and slide tightly over pipe.
- Tape the edges of the detail patch using Pango Tape.
- Construct a pipe collar using Pango Wrap by cutting a piece with width at least 12 inches and length at least 50% greater than the pipe's circumference. Cut slits half the width of the film, and tightly wrap the collar around the pipe as shown. The previously cut slits will manifest as flanges that lie flat against the horizontal Pango Wrap.
- Place strips of Pango Tape over the flanges of the collar such that: all edges are secured to the underlying Pango Wrap, and no voids at the base of the collar and the pipe (where the collar transitions vertically) are left uncovered by Pango Tape. Encircle the base of the collar with Pango Tape and continue upward such that the vertical portion of the collar is completely encompassed with Pango Tape. Extend this tape at least an inch beyond the top of the collar onto the pipe itself, or as far as needed to ensure the collar is secured and the Tape completely adhered to the pipe around its full circumference.

Note: Stego Industries recommends the use of vapor barrier-safe concrete accessories, like Beast® Screed, to help minimize the amount of penetrations in a Pango Wrap Installation.

IMPORTANT: WHEN INSTALLATION IS DEEMED TO BE COMPLETE, YOU SHOULD NOT BE ABLE TO SEE SUBBASE IN ANY AREA WHERE CONCRETE IS GOING TO BE PLACED.

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