YOUR GUIDE TO
SEALING AT THE SLAB PERIMETER

Helpful Tips for Successful Below-Slab Vapor Barrier Installation

GUIDE TO SEALING AT THE SLAB PERIMETER

Options for Sealing at the Slab Perimeter to Meet ASTM E1643

The key to an effective Stego Wrap installation is to create a monolithic layer of protection between the moisture sources and the concrete slab. This can be accomplished by following the installation instructions outlined in 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,* as well as Stego's complete installation instructions.

ASTM E1643 discusses how to overlap seams, seal pipe and utility penetrations, and repair damaged areas in the vapor retarder. Along with these basics, ASTM E1643 'requires sealing the vapor barrier at the perimeter of the slab.

ASTM E1643, Section 6.4 - *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...*

ASTM E1643, Section 6.6 - *Extend vapor retarder over the tops of pile caps and grade beams to a distance acceptable to the structural engineer and terminate as recommended by the manufacturer.*

Stego's Line of Engineered Accessory Products

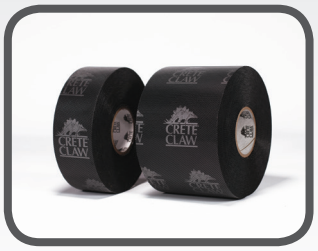
At Stego, we know every project has its own unique challenges. To make a Stego Wrap installation easy and flexible, we offer a great line of accessory items to give you options to accomplish an effective perimeter seal that meets ASTM E1643*. **Consult the project architect, owner's representative, and structural engineer of record before proceeding with any of these options.**

Stego® Mastic

A liquid vapor retardant membrane, designed to be used with Stego Wrap, for sealing utility and pipe penetrations and terminating edges.

StegoTack® Tape

A double-sided adhesive strip used to bond and seal Stego Wrap to concrete, masonry, wood, metal, and other surfaces.



Stego® Crete Claw® Tape

A multi-layered tape/detail strip that will mechanically seal Stego Wrap Vapor Barrier to concrete cast against it.

Stego's Installation Support - A Free Service

When you choose Stego Barrier Solutions and Products, you gain access to a large nationwide network of full-time technical sales representatives **providing unmatched local support and service**. If you ever have a question or concern regarding the following installation scenarios please contact us and take advantage of our free Stego Installation Support.

*If ASTM E1643 is specified, consult with project architect and structural engineer to determine which perimeter seal technique should be employed for the project.

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Note – legal notice on last page.

GUIDE TO SEALING AT THE SLAB PERIMETER

SEALING AT TEMPORARY CONCRETE FORMS WITH STEGO CRETE CLAW TAPE

1. Extend Stego Wrap to the height of the slab (likely the height of the forms).

   Note: If needing to temporarily secure Stego Wrap in place at the height of the form, utilize strategic sections of Stego® Tape prior to installing Stego Crete Claw Tape. Stego Tape should be cut along the top of the form prior to form removal.
2. Clean surface of Stego Wrap to ensure that it is free of moisture and debris prior to the installation of Stego Crete Claw Tape.
3. Install Stego Crete Claw Tape to the edge of Stego Wrap (over Stego Tape if present) on the side that the concrete will be placed.
4. Fresh concrete will cast into the textured top surface forming a mechanical bond that seals Stego Wrap to the perimeter of the slab.
5. Once the concrete forms are removed, Stego Wrap remains in place, sealing to the slab on the concrete side.

SEALING AT FOUNDATION WALLS WITH STEGOTACK TAPE OR STEGO MASTIC

1. Make sure area of adhesion is free of dust, dirt, debris, moisture, and frost to allow maximum adhesion.
   - **a.** If utilizing **StegoTack Tape**, remove release liner on one side of StegoTack Tape and stick to foundation wall at the height of the slab or at impediments.
   - **b.** If utilizing **Stego Mastic**, apply mastic to the foundation wall at the anticipated edge of the subsequently applied Stego Wrap (as previously noted, at the height of the slab or at impediments).
2. Clean surface of Stego Wrap to ensure that it is free of moisture and debris prior to the installation of Stego's sealing accessory.
3. When ready to apply Stego Wrap:
   - **a.** If utilizing **StegoTack Tape**, remove the exposed release liner and press Stego Wrap firmly against StegoTack Tape.
   - **b.** If utilizing **Stego Mastic**, press Stego Wrap firmly against the applied Stego Mastic on the foundation Wall.

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GUIDE TO SEALING AT THE SLAB PERIMETER

SEALING AT GRADE BEAMS, FOOTINGS, PILE CAPS, PIERS WITH STEGOTACK TAPE, STEGO MASTIC OR STEGO CRETE CLAW TAPE

1. Plan to extend Stego Wrap to/over existing structural concrete constructions (examples noted above) to a distance acceptable to the structural engineer.
2. If utilizing StegoTack Tape or Stego Mastic, make sure area of adhesion is free of dust, dirt, debris, moisture, and frost to allow maximum adhesion.
3. Clean surface of Stego Wrap to ensure that it is free of moisture and debris prior to the installation of Stego's sealing accessory.
4. When you are ready to install your sealing accessory:
   - **a.** If utilizing **StegoTack Tape** or **Stego Mastic,** apply products to the existing concrete construction at the anticipated edge of the subsequently applied Stego Wrap. Extend Stego Wrap to/over the existing structural concrete constructions as planned.
   - **b.** If utilizing **Stego Crete Claw Tape**, apply it fully along Stego Wrap's terminating edge (and only on Stego Wrap) facing the subsequently cast slab.

NOTE: Stego Industries, LLC's ("Stego") 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 Stego products, please call us at 877-464-7834 for technical assistance. While Stego 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.

Contact

Please contact us to get in touch with the nearest Stego representative.
We look forward to working with you on your next project.
877-464-7834 | www.stegoindustries.com

GAME-CHANGING BARRIER SOLUTIONS

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