

STEGOCRAWL®

CRAWL SPACE ENCAPSULATION INSTALLATION INSTRUCTIONS



Premium Performance,
a Lifetime of Value.™



Additional StegoCrawl installation resources and videos are available on our website at:

stegoindustries.com/resources

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The installation recommendations set forth in these instructions are based on best practices related to common applications of StegoCrawl products, guidance on vapor barrier installation from ASTM E1643, and radon mitigation standards from AARST (American Association of Radon Scientists and Technologists). Always defer to your local building codes and/or project-specific Contract Documents regarding crawl space vapor barrier/retarder installation requirements, and consult with the building owner or owner’s representative if applicable.

Each section provides explanations and options for the varying conditions.

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StegoCrawl Wrap

StegoCrawl is a complete solution for crawlspace encapsulation designed to provide unmatched, permanent performance for the Life of the Building™. With an extremely low water vapor permeance, StegoCrawl Wrap exceeds building code requirements for a Class I vapor retarder to cover the ground and be sealed/attached to foundation walls in crawlspace. Unlike generic polyethylene sheeting or many traditional crawlspace encapsulation options, StegoCrawl Wrap complies with ASTM E1745, an industry-established performance standard for vapor retarders and barriers.



- StegoCrawl® Wrap 15-Mil Vapor Barrier
- StegoCrawl® Wrap 10-Mil Vapor Retarder
- StegoCrawl® Wrap 6-Mil Vapor Retarder

StegoCrawl Accessories

At Stego, we know every project has its own unique conditions. The StegoCrawl system features accessories specifically engineered for an efficient, durable, safe, and visually appealing crawlspace installation.



StegoCrawl® Tape

Low-permeance, pressure-sensitive adhesive tape ideal for sealing StegoCrawl Wrap seams and penetrations.



StegoTack® Tape

Double-sided adhesive strip used to bond and achieve a low vapor-permeance seal of StegoCrawl Wrap to concrete, masonry, metal, many foam insulation materials, and other surfaces.



StegoCrawl® Term Bar

Semi-flexible, plastic termination bar with pre-drilled holes used to assist in mechanically securing StegoCrawl Wrap to concrete, masonry, many foam insulation materials, and other surfaces.

Preparation

Prior to installing StegoCrawl Wrap and accessories, consider these preparation steps:

- **Clean Crawl Space** – clear unwanted waste, foreign objects, and other debris. Pay close attention to removing sharp objects that could risk damage to the vapor barrier during and after installation.
- **Compact Base Course** – consider tamping base course, especially if it is crushed rock, to minimize sharp components that could risk damage to the vapor barrier during and after installation.
- **Proper Material Storage** – prior to and during StegoCrawl installation, store accessory products in a temperate environment to reduce exposure to extreme temperatures that may affect installation ease and adhesion.

Proper installation is an important part of crawl space encapsulation but does not have to be daunting. This short, 5-minute StegoCrawl installation video provides DIY enthusiasts and experienced contractors with the materials list, techniques, and tips to efficiently and effectively encapsulate a crawl space with StegoCrawl.

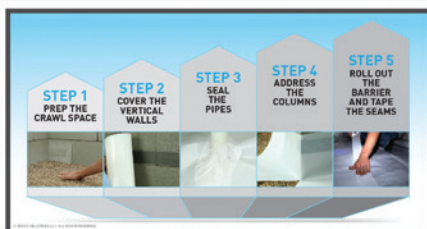


Watch the StegoCrawl step-by-step installation instructions and additional how-to-videos at:

stegoindustries.com/media-center

RESOURCES

For more tips and resources to best prepare for a crawl space encapsulation project, visit stegoindustries.com/blog



STEP-BY-STEP GUIDE FOR DIY CRAWL SPACE ENCAPSULATION



WHAT SUPPLIES WILL I NEED TO ENCAPSULATE MY CRAWL SPACE?



HOW MUCH MATERIAL DO I NEED FOR MY DIY CRAWL SPACE ENCAPSULATION?

Seal and Attach to Perimeter Foundation Wall

Sealing and attaching StegoCrawl Wrap to the perimeter foundation wall is an important step in achieving an effective and long-lasting crawl space vapor barrier system. It is not required to take this step first, but there may be utility in securing StegoCrawl Wrap at the perimeter first before covering the ground.

StegoCrawl Wrap can be sealed and attached to a variety of foundation wall surfaces, including poured concrete, masonry/CMU, brick, stone, insulation, and more. The steps provided and shown here reflect a common crawl space wall and best practices using StegoCrawl Wrap and accessories. Project-specific conditions may vary related to wall composition and sealing surfaces; accordingly, certain uncommon surfaces may fall outside the scope of these installation recommendations and require alternate treatment. The appropriate sealing and fastening approach at the perimeter wall may also be influenced by sequencing, installation ease, compatibility, performance, local building code requirements, any project-specific contract documents, and/or budget considerations.

Note: StegoCrawl Wrap can be extended up the foundation wall to any height. Often this distance is dictated by local building code. Common code requirements (2021 IRC R408.3) call for the vapor barrier to extend not less than 6 inches up the foundation wall. Additionally, some building codes require leaving a termite inspection gap (often 3") between the top of the foundation wall (or sill plate) and the vapor barrier. Other considerations related to the distance the vapor barrier should extend up the foundation wall may include the use and type of perimeter wall insulation, exterior moisture management strategy, location of outside grade, and wall composition.



1

The foundation wall should be free from dirt, debris, and moisture at the point where StegoCrawl Wrap will be sealed and attached.

Pro Tip: use a stiff brush and/or damp rag to help remove fine residue from wall surface.



2

Remove the release liner on one side of StegoTack Tape and adhere to the foundation wall. Be sure to apply firm pressure to maximize bond to the wall surface.

Pro Tip: to get release liner started, pinch corner tightly and pull to stretch adhesive. Peel the adhesive in one direction to expose one side of the release liner.



3

When ready to adhere StegoCrawl Wrap, remove the exposed release liner from StegoTack Tape.



4

Press StegoCrawl Wrap firmly against StegoTack Tape to secure to the foundation wall.

Pro Tip: a firm roller or tape flashing tool can help apply consistent pressure.



5

Mechanically attach StegoCrawl Term Bar, being sure to line up with the StegoTack Tape.

Note: StegoCrawl Term Bar can be attached in a variety of ways:

- **Screw Anchors:** it is best to pre-drill holes for concrete anchors with a Rotary (SDS) Hammer Drill.
- **Powder Actuated Nail Gun:** it is best to use concrete nails/pins with washers. Higher powder loads may cause StegoCrawl Term Bar to break, use proper powder load for wall composition.

Be sure screws or other anchors have a head greater than 1/4" diameter to span StegoCrawl Term Bar pre-drilled holes.

Seal to Support Columns

Sealing to interior support columns or piers is important to ensure an effective and long-lasting system. Interior supports in crawl spaces can also vary in composition and surface profile. Be sure to avoid sealing StegoCrawl Wrap over any wood-based structural elements.



1

Ensure any interior support columns are free from dust, dirt, and moisture.



2

Remove the release liner on one side of StegoTack Tape and adhere to the support column. Be sure to apply firm pressure to maximize bond to the column.



3

When ready to adhere StegoCrawl Wrap, remove the exposed release liner from StegoTack Tape.



4

Press StegoCrawl Wrap firmly against StegoTack Tape to secure to the column.



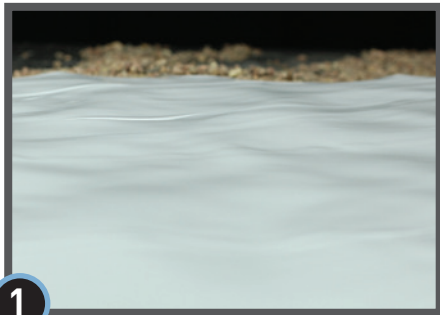
5

To help allow StegoCrawl Wrap to lay flat on the horizontal ground surface, relief slits can be cut into the material or detail strip.

Note: If desired to ensure long-term attachment to column, StegoCrawl Term Bar can be used.

Cover the Ground (Create a Monolithic Membrane)

Covering the ground with the vapor barrier is critical in isolating the crawl space (and home or building above) from soil threats. The goal is to create a monolithic membrane over the entire exposed ground area.



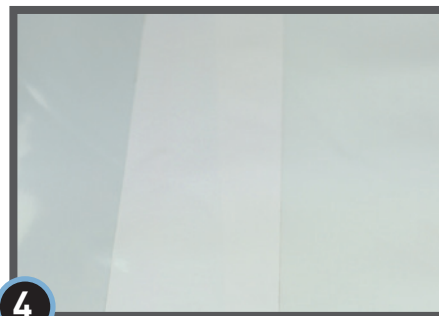
1 Unroll (and unfold) StegoCrawl Wrap to cover entire crawl space floor area.



2 All seams/joints should be overlapped a minimum of 6 inches, including where connected to previously installed perimeter wall and column sections.
Note: some jurisdiction requirements call for a 12" overlap at seams, often as part of radon mitigation.



3 Ensure StegoCrawl Wrap is clean and dry when applying StegoCrawl Tape.
Pro Tip: use a cloth or other means to remove dust, debris, or moisture from StegoCrawl Wrap prior to applying StegoCrawl Tape.



4 Seal the seams with StegoCrawl Tape. Be sure to apply firm pressure to maximize initial and long-term adhesion.

Sealing Damaged Areas: Small Hole or Slice

In the event StegoCrawl Wrap is damaged during or after installation, repairs should be made.



1

Small hole or slice in StegoCrawl Wrap.



2

Clean area of adhesion.



3

Center and apply StegoCrawl Tape over small hole or slice in StegoCrawl Wrap.

Sealing Damaged Areas: Larger Hole

For larger holes, cut a piece of StegoCrawl Wrap to a size and shape that covers any damage by a minimum overlap of 6" in all directions. Clean all adhesion areas of dust, dirt, moisture, and frost. Tape down all edges using StegoCrawl Tape.



1

Occasionally, damage may cause a larger hole in the vapor barrier that requires a patch.



2

Clean area of adhesion. Measure and cut a piece of StegoCrawl Wrap to cover damaged area 6" in all directions. Then center the StegoCrawl Wrap patch to cover the damaged area 6" in all directions.



3

Seal patch with StegoCrawl Tape.

Sealing Penetration: Minimal Void Space

All penetrations must be sealed, including pipes, ducting, sumps, and drains. Penetrations should be sealed using StegoCrawl Wrap and StegoCrawl Tape.



1 Install StegoCrawl Wrap around pipe penetrations by slitting/cutting material as needed. Try to minimize the void space created.



2 Lay StegoCrawl Wrap flat around penetrations. Clean the area of adhesion where StegoCrawl Tape will be applied.



3 Seal around the penetration using StegoCrawl Tape.
Pro Tip: using smaller pieces of StegoCrawl Tape can help minimize tenting.

Sealing Penetration: Larger Void Space Using Detail Patch

To minimize void space around a penetration, a detail patch/boot may be used.



1 Cut a detail patch/boot of StegoCrawl Wrap to a size and shape that creates a 6" overlap on all edges around the void space at the base of the penetration.



2 A single straight cut from the edge to the center of the detail patch may be necessary for many crawl space penetrations.



3 Seal all sides of the patch and around the penetration with StegoCrawl Tape.



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Products and Accessories
for Your Crawl Space?



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LET'S TALK.

Have questions? Want to buy?
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NOTE: Stego Industries, LLC's ("Stego") installation instructions are based on best practices related to common applications of StegoCrawl products, guidance on installation of vapor barrier products from 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*, and certain radon mitigation standards from AARST (American Association of Radon Scientists and Technologists). 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, any project-specific Contract Documents, and the building owner or owner's representative if applicable 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 and will not make final design decisions.

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