1. **PRODUCT NAME**

STEGO WRAP 10-MIL CLASS C VAPOR RETARDER

2. **MANUFACTURER**

Stego Industries, LLC
216 Avenida Fabricante, Suite 101
San Clemente, CA 92672
Sales, Technical Assistance
Ph: (877) 464-7834
contact@stegoindustries.com
www.stegoindustries.com

3. **PRODUCT DESCRIPTION**

USES: Stego Wrap Class C is used as an exceptional vapor retarder.

COMPOSITION: Stego Wrap Class C is a multi-layer plastic extrusion manufactured with only high grade prime, virgin, polyolefin resins.

ENVIRONMENTAL FACTORS: Stego Wrap Class C can be used in systems for the control of soil gases (radon, methane), soil poisons (oil by-products) and sulfates.

4. **TECHNICAL DATA**

**TABLE 1: PHYSICAL PROPERTIES OF STEGO WRAP 10-MIL CLASS C VAPOR RETARDER**

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST</th>
<th>RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under Slab Vapor Retarders</td>
<td>ASTM E1745 Class A, B &amp; C – Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs</td>
<td>Exceeds Class C</td>
</tr>
<tr>
<td>Water Vapor Permeance</td>
<td>ASTM F1249 – Test Method for Water Vapor Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor</td>
<td>0.0209 perms</td>
</tr>
</tbody>
</table>
| Permeance After Conditioning     | ASTM E154 Section 8, F1249 – Permeance after wetting, drying, and soaking
ASTM E154 Section 11, F1249 – Permeance after heat conditioning
ASTM E154 Section 12, F1249 – Permeance after low temperature conditioning
ASTM E154 Section 13, F1249 – Permeance after soil organism exposure | 0.0226 perms
0.0222 perms
0.0214 perms
0.0214 perms |
| Puncture Resistance              | ASTM D1709 – Test Method for Impact Resistance of Plastic Film by Free-Falling Dart Method | 1,286 grams              |
| Tensile Strength                 | ASTM D882 – Test Method for Tensile Properties of Thin Plastic Sheeting | 49.2 lbf/in              |
| Thickness                        |                                                      | 10 mil                   |
| Roll Dimensions                  | width x length:
area:                                             | 14' x 210'
2,940 ft² |  |
| Roll Weight                      |                                                       | 140 lb                   |

Note: perm unit = grains/(ft²*hr*in-Hg)
5. INSTALLATION

UNDER SLAB: Unroll Stego Wrap Class C over an aggregate, sand or tamped earth base. Overlap all seams a minimum of 6 inches and tape using Stego® Tape or Stego® Crete Claw® Tape. All penetrations must be sealed using a combination of Stego Wrap Class C and Stego Accessories.

For additional information, please refer to Stego’s complete installation instructions.

6. AVAILABILITY & COST

Stego Wrap Class C is available through our network of building supply distributors. For current cost information, contact your local Stego distributor or Stego Industries’ Sales Representative.

7. WARRANTY

Stego Industries, LLC believes to the best of its knowledge, that specifications and recommendations herein are accurate and reliable. However, since site conditions are not within its control, Stego Industries does not guarantee results from the use of the information provided herein. Stego Industries, LLC does offer a limited warranty on Stego Wrap. Please see www.stegoindustries.com/legal.

8. MAINTENANCE

None required.

9. TECHNICAL SERVICES

Technical advice, custom CAD drawings, and additional information can be obtained by contacting Stego Industries or by visiting the website.

Email: contact@stegoindustries.com
Contact Number: (877) 464-7834
Website: www.stegoindustries.com

10. FILING SYSTEMS

- www.stegoindustries.com
1. **PRODUCT NAME**

STEGO MASTIC

2. **MANUFACTURER**

Stego Industries, LLC
216 Avenida Fabricante, Suite 101
San Clemente, CA 92672
Sales, Technical Assistance
Ph: (877) 464-7834
contact@stegoindustries.com
www.stegoindustries.com

3. **PRODUCT DESCRIPTION**

USES: Stego Mastic is designed to be used as a vapor retardant membrane for use in conjunction with Stego® Wrap Vapor Barrier/Retarder. Stego Mastic can be used for sealing utility and pipe penetrations in Stego Wrap.

COMPOSITION: Stego Mastic is a medium viscosity, water-based, polymer-modified anionic bituminous/asphalt emulsion.

SIZE: Stego Mastic comes in 2-gallon or 5-gallon pails, and 20-ounce sausage tubes.

4. **TECHNICAL DATA**

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST</th>
<th>RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile</td>
<td>ASTM D412</td>
<td>32 psi</td>
</tr>
<tr>
<td>Elongation</td>
<td>ASTM D412</td>
<td>3860%</td>
</tr>
<tr>
<td>Resistance to Decay</td>
<td>ASTM E154</td>
<td>10% perm loss</td>
</tr>
<tr>
<td>Accelerated Aging</td>
<td>ASTM G23</td>
<td>No Effect</td>
</tr>
<tr>
<td>Permeance</td>
<td>ASTM E96</td>
<td>0.17 perms</td>
</tr>
<tr>
<td>Hydrostatic Water Pressure</td>
<td>ASTM D751</td>
<td>28 psi</td>
</tr>
<tr>
<td>Adhesion to Concrete &amp; Masonry</td>
<td>ASTM C836</td>
<td>7 lbf/in</td>
</tr>
<tr>
<td>Hardness</td>
<td>ASTM C836</td>
<td>75</td>
</tr>
<tr>
<td>Crack Bridging</td>
<td>ASTM C836</td>
<td>No Cracking</td>
</tr>
<tr>
<td>Low Temp Flexibility</td>
<td>ASTM C836</td>
<td>No Cracking</td>
</tr>
</tbody>
</table>

Note: perm unit = grains/(ft²*hr*in-Hg)
5. INSTALLATION

PREPARATION:
• A test application simulating the project environment should always be done prior to final usage of Stego Mastic.
• All surfaces should be dry and free of loose materials, oils and other contaminants. The surfaces should be cleaned in the same fashion as the test surface in order to ensure proper results.
• Store above 40°F, and apply above 40°F and below 100°F.

PENETRATIONS:
To repair penetrations in Stego Wrap, cut Stego Wrap just big enough to fit over and around the penetration so as to minimize void space. Liberally apply Stego Mastic around the penetration to keep the integrity of the membrane intact. Stego Mastic can be applied from sausage tubes with a standard sausage gun and/or from pails by brush, roller, or trowel.

NOTES: 1) If needed to minimize void space around penetrations, utilize a detail patch of Stego Wrap or Stego® Pre-Cut Pipe Boot to fit over the penetration and seal the patch/boot with Stego® Tape prior to applying Stego Mastic. 2) Solvent-based products should not be applied over this product. 3) Clean all tools with kerosene and/or oil-based cleaners.

For additional information, please refer to Stego’s complete installation instructions.

6. AVAILABILITY & COST

Stego Mastic is available through our network of building supply distributors. For current cost information, contact your local Stego distributor or Stego Industries’ Sales Representative.

7. WARRANTY

Stego Industries, LLC believes to the best of its knowledge, that specifications and recommendations herein are accurate and reliable. However, since site conditions are not within its control, Stego Industries does not guarantee results from the use of the information provided and disclaims all liability from any loss or damage. NO WARRANTY, EXPRESS, IMPLIED OR STATUTORY, IS GIVEN AS TO THE MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE WITH RESPECT TO THE PRODUCTS REFERRED TO. Please see www.stegoindustries.com/legal.

8. MAINTENANCE

None required.

9. TECHNICAL SERVICES

Technical advice, custom CAD drawings, and additional information can be obtained by contacting Stego Industries or by visiting the website.

Email: contact@stegoindustries.com
Contact Number: (877) 464-7834
Website: www.stegoindustries.com

10. FILING SYSTEMS

• www.stegoindustries.com
1. PRODUCT NAME
STEGO TAPE

2. MANUFACTURER
Stego Industries, LLC
216 Avenida Fabricante, Suite 101
San Clemente, CA 92672
Sales, Technical Assistance
Ph: (877) 464-7834
contact@stegoindustries.com
www.stegoindustries.com

3. PRODUCT DESCRIPTION
USES: Stego Tape is a low-permeance tape designed for protective sealing, hanging, seaming, splicing, and patching applications where a highly conformable material is required. It has been engineered to bond specifically to Stego® Wrap, making it ideal for sealing Stego Wrap seams and penetrations.

COMPOSITION: Stego Tape is composed of polyethylene film and an acrylic, pressure-sensitive adhesive.

SIZE: Stego Tape is 3.75” x 180’. Stego Tape ships 12 rolls in a case.

4. TECHNICAL DATA

APPLICABLE STANDARDS:
Pressure Sensitive Tape Council (PSTC)
• PSTC 101 – International Standard for Peel Adhesion of Pressure-Sensitive Tape

American Society for Testing & Materials (ASTM)
• 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

TABLE 4.1: PHYSICAL PROPERTIES OF STEGO TAPE

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>3.75” x 180’</td>
</tr>
<tr>
<td>Total Thickness</td>
<td>6 mil</td>
</tr>
<tr>
<td>Permeance</td>
<td>0.03 perms</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>17 lb/in</td>
</tr>
<tr>
<td>Elongation (at break) MD</td>
<td>1060%</td>
</tr>
<tr>
<td>Adhesion (20 min dwell ss, PSTC 101)</td>
<td>84 oz/in</td>
</tr>
<tr>
<td>Ultraviolet Resistance</td>
<td>Excellent</td>
</tr>
</tbody>
</table>

Note: perm unit = grains/(ft²•hr•in-Hg)
5. **INSTALLATION**

SEAMS: Overlap Stego Wrap 6 inches and seal with Stego Tape. Make sure the area of adhesion is free from dust, dirt, moisture and frost to allow maximum adhesion of the pressure sensitive tape.

PIPE PENETRATION SEALING
1) Install Stego Wrap around pipe by slitting/cutting material
2) If void space around pipe is minimal, seal around base of pipe with Stego Tape (Stego® Mastic can be used for additional coverage)

DETAIL PATCH FOR PIPE PENETRATION SEALING
1) Cut a piece of Stego Wrap that creates a 6 inch overlap around all edges of the void space
2) Cut an “X” in the center of the detail patch
3) Slide detail patch over pipe, secure tightly
4) Tape down all sides of detail patch with Stego Tape
5) Seal around base of pipe with Stego Tape (Stego Mastic can be used for additional coverage)

Stego Tape should be installed above 40°F. In temperatures below 40°F take extra care to remove moisture or frost from the area of adhesion.

For additional information, please refer to Stego’s complete installation instructions.

6. **AVAILABILITY & COST**

Stego Tape is available through our network of building supply distributors. For current cost information, contact your local Stego distributor or Stego Industries’ Sales Representative.

7. **WARRANTY**

Stego Industries, LLC believes to the best of its knowledge, that specifications and recommendations herein are accurate and reliable. However, since site conditions are not within its control, Stego Industries does not guarantee results from the use of the information provided herein. Stego Industries, LLC does offer a limited warranty on Stego Wrap. Please see www.stegoindustries.com/legal.

8. **MAINTENANCE**

None required.

9. **TECHNICAL SERVICES**

Technical advice, custom CAD drawings, and additional information can be obtained by contacting Stego Industries or by visiting the website.

- **Email:** contact@stegoindustries.com
  - **Contact Number:** (877) 464-7834
  - **Website:** www.stegoindustries.com

10. **FILING SYSTEMS**

- www.stegoindustries.com
1. **PRODUCT NAME**

STEGO CRETE CLAW TAPE (3” wide)

2. **MANUFACTURER**

Stego Industries, LLC
216 Avenida Fabricante, Suite 101
San Clemente, CA 92672
Sales, Technical Assistance
Ph: (877) 464-7834
contact@stegoindustries.com
www.stegoindustries.com

3. **PRODUCT DESCRIPTION**

USES: Stego Crete Claw Tape is a multi-layered tape that is used to seal Stego Wrap Vapor Barrier to the perimeter of the slab while the concrete is placed. Stego Crete Claw Tape allows wet concrete to cast into the textured top surface to form a mechanical bond/seal.

COMPOSITION: Stego Crete Claw Tape is composed of polyethylene film, aperture film, and an acrylic, pressure-sensitive adhesive.

SIZE: Stego Crete Claw Tape is 3” x 180’. Stego Crete Claw Tape (3” wide) ships 16 rolls in a case.

4. **TECHNICAL DATA**

**TABLE 4.1: PHYSICAL PROPERTIES OF STEGO CRETE CLAW TAPE (3” wide)**

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>3” x 180’</td>
</tr>
<tr>
<td>Total Thickness</td>
<td>26 mil</td>
</tr>
<tr>
<td>Permeance: ASTM F1249</td>
<td>0.03 perms</td>
</tr>
<tr>
<td>D903</td>
<td>17.6 lbf/in</td>
</tr>
<tr>
<td>Sheer Adhesion Strength: 1 in² shear test using an Instron 3345 Machine</td>
<td>&gt;49 lbf/in²*</td>
</tr>
</tbody>
</table>

* Specimens failed by stretching vapor barrier to failure before pulling Stego Crete Claw Tape from concrete.

Note: perm unit = grains/(ft²*hr*in-Hg)

5. **INSTALLATION**

SECURING STEGO WRAP TO SLAB: Clean surface of Stego Wrap to ensure that it is free of moisture, frost, dirt, and debris prior to the installation of Stego Crete Claw Tape. When ready to apply Stego Crete Claw Tape, peel back the release liner and apply to Stego Wrap. Stego Crete Claw Tape should be completely on Stego Wrap.

To detail, cut Stego Crete Claw Tape with a box knife or scissors. Stego Crete Claw Tape should be installed above 40°F for maximum adhesion. For additional information please refer to Stego’s complete installation instructions.

TIP: Wrap the release liner back over the entire roll while unrolling Stego Crete Claw Tape. This technique will allow the release liner to pull off easily and keep it out of the way.
6. **AVAILABILITY & COST**

Stego Crete Claw Tape is available through our network of building supply distributors. For current cost information, contact your local Stego distributor or Stego Industries’ Sales Representative.

7. **WARRANTY**

Stego Industries, LLC believes to the best of its knowledge, that specifications and recommendations herein are accurate and reliable. However, since site conditions are not within its control, Stego Industries does not guarantee results from the use of the information provided herein. Stego Industries, LLC does offer a limited warranty on Stego Wrap. Please see www.stegoindustries.com/legal.

8. **MAINTENANCE**

Store Stego Crete Claw Tape in a dry and temperate area.

9. **TECHNICAL SERVICES**

Technical advice, custom CAD drawings, and additional information can be obtained by contacting Stego Industries or by visiting the website.

**Email:** contact@stegoindustries.com  
**Contact Number:** (877) 464-7834  
**Website:** www.stegoindustries.com

10. **FILING SYSTEMS**

- www.stegoindustries.com
1. PRODUCT NAME

STEGO CRETE CLAW TAPE (6” wide)

2. MANUFACTURER

Stego Industries, LLC
216 Avenida Fabricante, Suite 101
San Clemente, CA 92672
Sales, Technical Assistance
Ph: {877} 464-7834
contact@stegoindustries.com
www.stegoindustries.com

3. PRODUCT DESCRIPTION

USES: Stego Crete Claw Tape is a multi-layered tape that is used to seal Stego® Wrap Vapor Barrier to the perimeter of the slab while the concrete is placed. Stego Crete Claw Tape allows wet concrete to cast into the textured top surface to form a mechanical bond/seal.

COMPOSITION: Stego Crete Claw Tape is composed of polyethylene film, aperture film, and an acrylic, pressure-sensitive adhesive.

SIZE: Stego Crete Claw Tape is 6” x 180’. Stego Crete Claw Tape (6” wide) ships 8 rolls in a case.

4. TECHNICAL DATA

TABLE 4.1: PHYSICAL PROPERTIES OF STEGO CRETE CLAW TAPE (6” wide)

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>6” x 180’</td>
</tr>
<tr>
<td>Total Thickness</td>
<td>26 mil</td>
</tr>
<tr>
<td>Permeance: ASTM F1249</td>
<td>0.03 perms</td>
</tr>
<tr>
<td>180° Adhesion Peel Strength:</td>
<td>17.6 lbf/in</td>
</tr>
<tr>
<td>ASTM D903</td>
<td></td>
</tr>
<tr>
<td>Sheer Adhesion Strength:</td>
<td></td>
</tr>
<tr>
<td>1 in² shear test using an</td>
<td></td>
</tr>
<tr>
<td>Instron 3345 Machine</td>
<td>&gt;49 lbf/in²*</td>
</tr>
</tbody>
</table>

* Specimens failed by stretching vapor barrier to failure before pulling Stego Crete Claw Tape from concrete.
Note: perm unit = grains/(ft²*hr*in-Hg)

5. INSTALLATION

SECURING STEGO WRAP TO SLAB: Clean surface of Stego Wrap to ensure that it is free of moisture, frost, dirt, and debris prior to the installation of Stego Crete Claw Tape. When ready to apply Stego Crete Claw Tape, peel back the release liner and apply to Stego Wrap. Stego Crete Claw Tape should be completely on Stego Wrap.

To detail, cut Stego Crete Claw Tape with a box knife or scissors. Stego Crete Claw Tape should be installed above 40°F for maximum adhesion. For additional information please refer to Stego’s complete installation instructions.

TIP: Wrap the release liner back over the entire roll while unrolling Stego Crete Claw Tape. This technique will allow the release liner to pull off easily and keep it out of the way.
6. AVAILABILITY & COST

Stego Crete Claw Tape is available through our network of building supply distributors. For current cost information, contact your local Stego distributor or Stego Industries’ Sales Representative.

7. WARRANTY

Stego Industries, LLC believes to the best of its knowledge, that specifications and recommendations herein are accurate and reliable. However, since site conditions are not within its control, Stego Industries does not guarantee results from the use of the information provided herein. Stego Industries, LLC does offer a limited warranty on Stego Wrap. Please see www.stegoindustries.com/legal.

8. MAINTENANCE

Store Stego Crete Claw Tape in a dry and temperate area.

9. TECHNICAL SERVICES

Technical advice, custom CAD drawings, and additional information can be obtained by contacting Stego Industries or by visiting the website.

   Email: contact@stegoindustries.com
   Contact Number: (877) 464-7834
   Website: www.stegoindustries.com

10. FILING SYSTEMS

   - www.stegoindustries.com
1. PRODUCT NAME
STEGOTACK TAPE

2. MANUFACTURER
Stego Industries, LLC
216 Avenida Fabricante, Suite 101
San Clemente, CA 92672
Sales, Technical Assistance
Ph: (877) 464-7834
contact@stegoindustries.com
www.stegoindustries.com

3. PRODUCT DESCRIPTION
USES: StegoTack Tape is a double-sided adhesive strip used to bond and seal Stego® Wrap Vapor Barrier to concrete, masonry, wood, metal, and other surfaces. StegoTack Tape is a flexible and moldable material to allow for a variety of applications and installations.

COMPOSITION: StegoTack Tape is made from a blend of synthetic rubber and resins.

SIZE: StegoTack Tape is 2” x 50’. StegoTack Tape ships 12 rolls in a case.

4. TECHNICAL DATA

<table>
<thead>
<tr>
<th>TABLE 4.1: PHYSICAL PROPERTIES OF STEGOTACK TAPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROPERTY</td>
</tr>
<tr>
<td>Dimensions</td>
</tr>
<tr>
<td>Total Thickness</td>
</tr>
<tr>
<td>Permeance (30 mil)</td>
</tr>
<tr>
<td>Color</td>
</tr>
<tr>
<td>Material</td>
</tr>
<tr>
<td>Adhesion to Steel</td>
</tr>
<tr>
<td>Installation Temperature</td>
</tr>
<tr>
<td>In Service Temperature Range</td>
</tr>
<tr>
<td>VOC Content</td>
</tr>
</tbody>
</table>

Note: perm unit = grains/(ft²*hr*in-Hg)

5. INSTALLATION

TO WALLS: Make sure the area of adhesion is free of dust, dirt, debris, moisture, and frost to allow maximum adhesion. Remove release liner on one side and stick to desired surface. When ready to apply Stego Wrap, remove the exposed release liner and press Stego Wrap firmly against StegoTack Tape to secure.

Cut StegoTack Tape using a utility knife or scissors. Cut StegoTack Tape before removing the release liner for easier cutting. Install StegoTack Tape between 40°F and 110°F. For additional information please refer to Stego’s complete installation instructions.

Continued...
6. **AVAILABILITY & COST**

StegoTack Tape is available through our network of building supply distributors. For current cost information, contact your local Stego distributor or Stego Industries’ Sales Representative.

7. **WARRANTY**

Stego Industries, LLC believes to the best of its knowledge, that specifications and recommendations herein are accurate and reliable. However, since site conditions are not within its control, Stego Industries does not guarantee results from the use of the information provided herein. Stego Industries, LLC does offer a limited warranty on Stego Wrap. Please see www.stegoindustries.com/legal.

8. **MAINTENANCE**

For longer adhesive life, store in dry, temperate area.

9. **TECHNICAL SERVICES**

Technical advice, custom CAD drawings, and additional information can be obtained by contacting Stego Industries or by visiting the website.

**Email:** contact@stegoindustries.com  
**Contact Number:** (877) 464-7834  
**Website:** www.stegoindustries.com

10. **FILING SYSTEMS**

- www.stegoindustries.com
1. PRODUCT NAME
STEGO TERM BAR

2. MANUFACTURER
Stego Industries, LLC
216 Avenida Fabricante, Suite 101
San Clemente, CA 92672
Sales, Technical Assistance
Ph: (877) 464-7834
contact@stegoindustries.com
www.stegoindustries.com

3. PRODUCT DESCRIPTION
USES: Stego Term Bar is a semi-flexible plastic termination bar used for mechanically securing Stego® Wrap or other materials to concrete, masonry, or wood.

COMPOSITION: Stego Term Bar is made from post-industrial recycled PVC.

SIZE: Stego Term Bar is 4’ x 1.125”.

4. TECHNICAL DATA

<table>
<thead>
<tr>
<th>TABLE 4.1: PHYSICAL PROPERTIES OF STEGO TERM BAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROPERTY</td>
</tr>
<tr>
<td>Dimensions</td>
</tr>
<tr>
<td>Color</td>
</tr>
<tr>
<td>Material</td>
</tr>
<tr>
<td>Weight</td>
</tr>
</tbody>
</table>

5. INSTALLATION
UNDER SLAB: Nail through Stego Term Bar and Stego Wrap to secure material as needed. If the beveled edge is facing the wall, a pocket/lip is created for mastic/sealant to be used if required. Pre-drilled nail holes are provided every 6” for ease of installation.

To cut Stego Term Bar, score with a utility knife or wire snips. Stego Term Bar can be bent back and forth and then broken at desired locations as well.

Stego Term Bar is flexible enough to bend around corners and contours in the wall for easy installation.

For additional information, please refer to Stego’s complete installation instructions.
6. **AVAILABILITY & COST**

Stego Term Bar is available through our network of building supply distributors. For current cost information, contact your local Stego distributor or Stego Industries’ Sales Representative.

7. **WARRANTY**

Stego Industries, LLC believes to the best of its knowledge, that specifications and recommendations herein are accurate and reliable. However, since site conditions are not within its control, Stego Industries does not guarantee results from the use of the information provided herein. Stego Industries, LLC does offer a limited warranty on Stego Wrap. Please see www.stegoindustries.com/legal.

8. **MAINTENANCE**

Store above 60°F. Term Bar will become less flexible at lower temperatures.

9. **TECHNICAL SERVICES**

Technical advice, custom CAD drawings, and additional information can be obtained by contacting Stego Industries or by visiting the website.

Email: contact@stegoindustries.com  
Contact Number: (877) 464-7834  
Website: www.stegoindustries.com

10. **FILING SYSTEMS**

- www.stegoindustries.com
1. **PRODUCT NAME**
STEAGO PRE-CUT PIPE BOOTS

2. **MANUFACTURER**
Stego Industries, LLC
216 Avenida Fabricante, Suite 101
San Clemente, CA 92672
Sales, Technical Assistance
Ph: (877) 464-7834
contact@stegoindustries.com
www.stegoindustries.com

3. **PRODUCT DESCRIPTION**

USES: Stego Pre-Cut Pipe Boots are used to seal around permanent penetrations in Stego® Wrap.

COMPOSITION: Stego Pre-Cut Pipe Boots are made from Stego Wrap Vapor Barrier [15-mil], and therefore are manufactured from only high grade prime, virgin, polyolefin resins.

SIZE: Stego Pre-Cut Pipe Boots are 18” x 18” and 15 mil thick. Stego Pre-Cut Pipe Boots ship 10 packs of 25 in a case [250 boots per case].

4. **TECHNICAL DATA**

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST</th>
<th>RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under Slab Vapor Retarders</td>
<td>ASTM E1745 Class A, B &amp; C – Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs</td>
<td>Exceeds Class A, B &amp; C</td>
</tr>
<tr>
<td>Water Vapor Permeance</td>
<td>ASTM F1249 – Test Method for Water Vapor Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor</td>
<td>0.0086 perms</td>
</tr>
<tr>
<td>Permeance After Conditioning (ASTM E1745 Sections 7.1.2 - 7.1.5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ASTM E154 Section 8, F1249 – Permeance after wetting, drying, and soaking</td>
<td>0.0091 perms</td>
</tr>
<tr>
<td></td>
<td>ASTM E154 Section 11, F1249 – Permeance after heat conditioning</td>
<td>0.0097 perms</td>
</tr>
<tr>
<td></td>
<td>ASTM E154 Section 12, F1249 – Permeance after low temperature conditioning</td>
<td>0.0095 perms</td>
</tr>
<tr>
<td></td>
<td>ASTM E154 Section 13, F1249 – Permeance after soil organism exposure</td>
<td></td>
</tr>
<tr>
<td>Puncture Resistance</td>
<td>ASTM D1709 – Test Method for Impact Resistance of Plastic Film by Free-Falling Dart Method</td>
<td>2,266 grams</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM D882 – Test Method for Tensile Properties of Thin Plastic Sheeting</td>
<td>70.6 lbf/in</td>
</tr>
<tr>
<td>Thickness</td>
<td></td>
<td>15 mil</td>
</tr>
<tr>
<td>Pipe Boot Dimensions</td>
<td>width x length: 18” x 18”</td>
<td></td>
</tr>
</tbody>
</table>

Note: perm unit = grains/(ft²*hr*in-Hg)

5. **INSTALLATION**

UNDER SLAB: Cut an “X” the size of the pipe diameter in the center of the Pre-Cut Pipe Boot and slide tightly over pipe. Tape all sides of the pipe boot with Stego® Tape. Seal around the base of the pipe using Stego Tape and/or Stego® Mastic.

For additional information, please refer to Stego’s complete installation instructions.
6. **AVAILABILITY & COST**

Stego Pre-Cut Pipe Boots are available through our network of building supply distributors. For current cost information, contact your local Stego distributor or Stego Industries’ Sales Representative.

7. **WARRANTY**

Stego Industries, LLC believes to the best of its knowledge, that specifications and recommendations herein are accurate and reliable. However, since site conditions are not within its control, Stego Industries does not guarantee results from the use of the information provided herein. Stego Industries, LLC does offer a limited warranty on Stego Wrap. Please see www.stegoindustries.com/legal.

8. **MAINTENANCE**

None required.

9. **TECHNICAL SERVICES**

Technical advice, custom CAD drawings, and additional information can be obtained by contacting Stego Industries or by visiting the website.

- **Email:** contact@stegoindustries.com
- **Contact Number:** (877) 464-7834
- **Website:** www.stegoindustries.com

10. **FILING SYSTEMS**

- www.stegoindustries.com
**IMPORTANT:** Please read these installation instructions completely, prior to beginning any Stego 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. 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.

**UNDER-SLAB INSTRUCTIONS:**

1. Stego 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 Stego Wrap is tough enough to withstand rugged construction environments.

2. Unroll Stego Wrap over the area where the slab is to be placed. Stego Wrap should completely cover the concrete placement area. All joints/seams both lateral and butt should be overlapped a minimum of 6” and taped using Stego® Tape.

   **NOTE:** The area of adhesion should be free from dust, dirt, moisture, and frost to allow maximum adhesion of the pressure-sensitive 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:**

**NOTE:** Clean the surface of Stego 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 Stego® Crete Claw® Tape on the entire perimeter edge of Stego Wrap.
- b. Prior to the placement of concrete, ensure that the top of Stego Crete Claw Tape is free of dirt, debris, or mud to maximize the bond to the concrete.

**STEGO LABOR SAVER!**

This method not only complies with ASTM E1643, but it also:
- • reduces labor compared to other perimeter sealing techniques.
- • can be used even without an existing wall or footing, unlike alternatives.

**OR SEAL TO PERIMETER WALL WITH STEGOTACK® TAPE:**

- a. Make sure area of adhesion is free of dust, dirt, debris, moisture, and frost to allow maximum adhesion.
- b. Remove release liner on one side and stick to desired surface.
- c. When ready to apply Stego Wrap, remove the exposed release liner and press Stego Wrap firmly against StegoTack Tape to secure.

* If ASTM E1643 is specified, consult with project architect and structural engineer to determine which perimeter seal technique should be employed for the project.
4. In the event that Stego Wrap is damaged during or after installation, repairs must be made. For holes, cut a piece of Stego 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 Stego Tape (See Figure 3).

5. IMPORTANT: ALL PENETRATIONS MUST BE SEALED. All pipe, ducting, rebar, wire penetrations and block outs should be sealed using Stego Wrap, Stego Tape and/or Stego Mastic (See Figure 4a). If penetrations are encased in other materials, such as expansive materials like foam, unless otherwise specified, Stego Wrap should be sealed to the underlying penetration directly.

### FIGURE 3: SEALING DAMAGED AREAS

![Sealing Damaged Areas Diagram]

### FIGURE 4a: PIPE PENETRATION SEALING

**STEGO WRAP PIPE PENETRATION REPAIR DETAIL:**
1. Install Stego Wrap around pipe penetrations by slitting/cutting material as needed. Try to minimize the void space created.
2. If Stego Wrap is close to pipe and void space is minimized then seal around pipe penetration with Stego Tape and/or Stego Mastic. (See Figure 4a)
3. If detail patch is needed to minimize void space around penetration, then cut a detail patch to a size and shape that creates a 6” overlap on all edges around the void space at the base of the pipe. Stego Pre-Cut Pipe Boots are also available to speed up the installation.
4. Cut an “X” the size of the pipe diameter in the center of the pipe boot and slide tightly over pipe.
5. Tape down all sides of the pipe boot with Stego Tape.
6. Seal around the base of the pipe using Stego Tape and/or Stego Mastic. (See Figure 4b)

### FIGURE 4b: DETAIL PATCH FOR PIPE PENETRATION SEALING

![Detail Patch Diagram]

### FIGURE 5: MULTIPLE PIPE PENETRATION SEALING

**MULTIPLE PIPE PENETRATION SEALING:**
Multiple pipe penetrations in close proximity and very small pipes may be sealed using Stego Wrap and Stego Mastic for ease of installation (See Figure 5).

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**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 877-444-7834 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.

**NOTE:** Stego Industries recommends the use of vapor barrier-safe concrete accessories, like Beast Screed, to help minimize the amount of penetrations in a Stego Wrap installation.
SEAL ALL PENETRATIONS WITH STEGO TAPE AND/OR STEGO MASTIC.
STEGO CRETE CLAW TAPE IS NOT MEANT FOR REPAIRING PENETRATIONS.

PERIMETER SEAL TO SLAB
1. Clean surface of Stego Wrap to ensure that it is free of moisture and debris prior to the installation of 6” wide Stego Crete Claw Tape.
2. Install 3” or 6” Stego Crete Claw Tape on the entire perimeter of the Stego Wrap installation. Stego Crete Claw Tape should be completely on Stego Wrap.

SEAL ALL SEAMS IN STEGO WRAP USING STEGO TAPE

SECURING STEGO WRAP TO THE BOTTOM OF THE SLAB
1. Clean surface of Stego Wrap to ensure that it is free of moisture and debris prior to the installation of 6” wide Stego Crete Claw Tape.
2. Overlap seams a minimum of 6”. Seal all seams in Stego Wrap using Stego Crete Claw Tape.
3. Install 6” wide Stego Crete Claw Tape on the entire perimeter of the Stego Wrap Installation. Stego Crete Claw Tape should be completely on Stego Wrap.
4. Install additional Stego Crete Claw Tape if required. Lab and simulated field tests have shown that if 6” wide Stego Crete Claw Tape is installed on all seams and around the perimeter, then it is more than strong enough to support Stego Wrap. If determined by the architect or engineer, additional Stego Crete Claw Tape may be specified.
5. Prior to the placement of concrete, ensure that Stego Crete Claw Tape is free of dirt or debris to ensure maximum bond to the concrete.

These are general instructions. Installation requirements may change on a project-by-project basis.

IMPORTANT - For the application of securing Stego Wrap to the bottom of the slab, always use 6” wide Stego Crete Claw Tape.

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.