



# STEGO™ WRAP 10-MIL CLASS A VAPOUR RETARDER

A STEGO INDUSTRIES, LLC INNOVATION | VAPOUR RETARDERS 07 26 00, 03 30 00 | VERSION: 31 DEC 2018

## 1. PRODUCT NAME

STEGO WRAP 10-MIL CLASS A VAPOUR RETARDER

## 2. MANUFACTURER

Stego Industries, LLC  
 216 Avenida Fabricante, Suite 101  
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 Sales, Technical Assistance  
 Ph: +1 (877) 464-7834  
 international@stegoindustries.com  
 www.stegoindustries.com



## 3. PRODUCT DESCRIPTION

USES: Stego Wrap Class A is used as an exceptional vapour retarder.

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

ENVIRONMENTAL FACTORS: Stego Wrap Class A 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 A VAPOUR RETARDER**

PROPERTY	TEST	RESULTS	
Under Slab Vapour Retarders	ASTM E1745 Class A, B & C – Standard Specification for Water Vapour Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs	Exceeds Class A, B & C	
		<b>Permeance Units (perms):</b>	
		ng/(m <sup>2</sup> *s*Pa)	gr/(ft <sup>2</sup> *hr*in-Hg)
Water Vapour Permeance	ASTM F1249 – Test Method for Water Vapour Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor	1.45	0.0254
Permeance After Conditioning (ASTM E1745 Sections 7.1.2 - 7.1.5)	ASTM E154 Section 8, F1249 – Permeance after wetting, drying, and soaking	1.47	0.0258
	ASTM E154 Section 11, F1249 – Permeance after heat conditioning	1.48	0.0259
	ASTM E154 Section 12, F1249 – Permeance after low temperature conditioning	1.38	0.0241
	ASTM E154 Section 13, F1249 – Permeance after soil organism exposure	1.40	0.0245
Puncture Resistance	ASTM D1709 – Test Method for Impact Resistance of Plastic Film by Free-Falling Dart Method	3,006 grams	
Tensile Strength	ASTM D882 – Test Method for Tensile Properties of Thin Plastic Sheeting	8.9 kN/m (50.6 lbf/in)	
Thickness		0.25 mm (10 mil)	
Roll Dimensions		width x length:	4.3 m x 64 m (14' x 210')
		area:	273 m <sup>2</sup> (2,940 ft <sup>2</sup> )
Roll Weight		63 kg (140 lb)	

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## 5. INSTALLATION

**UNDER SLAB:** Unroll Stego Wrap Class A over an aggregate, sand or tamped earth base. Overlap all seams a minimum of 150 mm (6") and tape using Stego™ Tape or Stego™ Crete Claw™ Tape. All penetrations must be sealed using a combination of Stego Wrap Class A and Stego accessories.

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

## 6. AVAILABILITY & COST

Stego Wrap Class A is available through our network of building supply distributors. For current cost information, contact your local Stego Wrap 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](http://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:** [international@stegoindustries.com](mailto:international@stegoindustries.com)

**Contact Number:** +1 (877) 464-7834

**Website:** [www.stegoindustries.com](http://www.stegoindustries.com)

## 10. FILING SYSTEMS

- [www.stegoindustries.com](http://www.stegoindustries.com)





## STEGO™ MASTIC

A STEGO INDUSTRIES, LLC INNOVATION | VAPOUR RETARDERS 07 26 00, 03 30 00 | VERSION: 27 JUN 2018

### 1. PRODUCT NAME

STEGO MASTIC

### 2. MANUFACTURER

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### 3. PRODUCT DESCRIPTION

**USES:** Stego Mastic is designed to be used as a vapour retardant membrane for use in conjunction with Stego™ Wrap Vapour 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 7.57-litre (2 gal) or 18.9-litre (5 gal) pails, and 591-millilitre (20 oz) sausage tubes.

### 4. TECHNICAL DATA

**TABLE 1: PHYSICAL PROPERTIES OF STEGO MASTIC**

PROPERTY	TEST	RESULTS
Tensile	ASTM D412	221 kPa (32 psi)
Elongation	ASTM D412	3860%
Resistance to Decay	ASTM E154	10% perm loss
Accelerated Aging	ASTM G23	No Effect
Permeance	ASTM E96 (perms)	9.7 ng/(m <sup>2</sup> *s*Pa) (0.17 gr/(ft <sup>2</sup> *hr*in-Hg))
Hydrostatic Water Pressure	ASTM D751	193 kPa (28 psi)
Adhesion to Concrete & Masonry	ASTM C836	1.2 kN/m (7 lbf/in)
Hardness	ASTM C836	75
Crack Bridging	ASTM C836	No Cracking
Low Temp Flexibility	ASTM C836	No Cracking

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# STEGO™ MASTIC

A STEGO INDUSTRIES, LLC INNOVATION | VAPOUR RETARDERS 07 26 00, 03 30 00 | VERSION: 27 JUN 2018

## 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 4°C, and apply above 4°C and below 38°C.

### PENETRATIONS:

To repair penetrations in Stego Wrap, cut Stego Wrap just big enough to fit over and around the penetration so as to minimise 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 minimise void space around penetrations, utilise 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

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## 8. MAINTENANCE

None required.

## 9. TECHNICAL SERVICES

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## STEGO™ TAPE

A STEGO INDUSTRIES, LLC INNOVATION | VAPOUR RETARDERS 07 26 00, 03 30 00 | VERSION: 31 DEC 2018

### 1. PRODUCT NAME

STEGO TAPE

### 2. MANUFACTURER

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### 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 10 cm x 55 m (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 Vapour Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs

**TABLE 4.1: PHYSICAL PROPERTIES OF STEGO TAPE**

PROPERTY	RESULTS
Dimensions	10 cm x 55 m (3.75" x 180')
Total Thickness	0.15 mm (6 mil)
Permeance (perms)	1.7 ng/(m <sup>2</sup> *s*Pa) (0.03 gr/(ft <sup>2</sup> *hr*in-Hg))
Tensile Strength	3 kN/m (17 lb/in)
Elongation (at break) MD	1060%
Adhesion (20 min dwell ss, PSTC 101)	0.92 kN/m (84 oz/in)
Ultraviolet Resistance	Excellent

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## STEGO™ TAPE

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### 5. INSTALLATION

**SEAMS:** Overlap Stego Wrap 150 mm (6") 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 150 mm (6") overlap around all edges of the void space
- 2) Cut an "X" in the centre 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 4°C. In temperatures below 4°C 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 Wrap 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](http://www.stegoindustries.com/legal).

### 8. MAINTENANCE

None required.

### 9. TECHNICAL SERVICES

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# STEGO™ CRETE CLAW™ TAPE (75 mm wide)

A STEGO INDUSTRIES, LLC INNOVATION | VAPOUR RETARDERS 07 26 00, 03 30 00 | VERSION: 31 DEC 2018

## 1. PRODUCT NAME

STEGO CRETE CLAW TAPE (75 mm wide)

## 2. MANUFACTURER

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 Sales, Technical Assistance  
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 international@stegoindustries.com  
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## 3. PRODUCT DESCRIPTION

**USES:** Stego Crete Claw Tape is a multi-layered tape that is used to seal Stego™ Wrap Vapour 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 75 mm (3") x 55 m (180'). Stego Crete Claw Tape (75 mm Wide) ships 16 rolls in a case.

## 4. TECHNICAL DATA

**TABLE 4.1: PHYSICAL PROPERTIES OF STEGO CRETE CLAW TAPE (75 mm wide)**

PROPERTY	RESULTS
Dimensions	75 mm x 55 m (3" x 180')
Total Thickness	0.66 mm (26 mil)
Permeance: ASTM F1249	1.7 ng/(m <sup>2</sup> *s*Pa) (0.03 gr/(ft <sup>2</sup> *hr*in-Hg))
180° Adhesion Peel Strength: ASTM D903	3.1 kN/m (17.6 lbf/in)
Shear Adhesion Strength: 6.5 cm <sup>2</sup> (1 in <sup>2</sup> ) shear test using an Instron 3345 Machine	>338 kPa (>49 lbf/in <sup>2</sup> )*

\* Specimens failed by stretching vapour barrier to failure before pulling Crete Claw from concrete.

## 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 4°C 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.

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## STEGO™ CRETE CLAW™ TAPE (75 mm wide)

A STEGO INDUSTRIES, LLC INNOVATION | VAPOUR RETARDERS 07 26 00, 03 30 00 | VERSION: 31 DEC 2018

### 6. AVAILABILITY & COST

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

### 7. WARRANTY

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### 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.

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# STEGO™ CRETE CLAW™ TAPE (150 mm wide)

A STEGO INDUSTRIES, LLC INNOVATION | VAPOUR RETARDERS 07 26 00, 03 30 00 | VERSION: 31 DEC 2018

## 1. PRODUCT NAME

STEGO CRETE CLAW TAPE (150 mm wide)

## 2. MANUFACTURER

Stego Industries, LLC  
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 Ph: +1 (877) 464-7834  
 international@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 Vapour 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 150 mm (6") x 55 m (180'). Stego Crete Claw Tape (150 mm Wide) ships 8 rolls in a case.

## 4. TECHNICAL DATA

**TABLE 4.1: PHYSICAL PROPERTIES OF STEGO CRETE CLAW TAPE (150 mm wide)**

PROPERTY	RESULTS
Dimensions	150 mm x 55 m (6" x 180')
Total Thickness	0.66 mm (26 mil)
Permeance: ASTM F1249	1.7 ng/(m <sup>2</sup> *s*Pa) (0.03 gr/(ft <sup>2</sup> *hr*in-Hg))
180° Adhesion Peel Strength: ASTM D903	3.1 kN/m (17.6 lbf/in)
Shear Adhesion Strength: 6.5 cm <sup>2</sup> (1 in <sup>2</sup> ) shear test using an Instron 3345 Machine	>338 kPa (>49 lbf/in <sup>2</sup> )*

\* Specimens failed by stretching vapour barrier to failure before pulling Crete Claw from concrete.

## 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 4°C 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.

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## STEGO™ CRETE CLAW™ TAPE (150 mm wide)

A STEGO INDUSTRIES, LLC INNOVATION | VAPOUR RETARDERS 07 26 00, 03 30 00 | VERSION: 31 DEC 2018

### 6. AVAILABILITY & COST

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

### 7. WARRANTY

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### 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.

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## STEGOTACK™ TAPE

A STEGO INDUSTRIES, LLC INNOVATION | VAPOUR RETARDERS 07 26 00, 03 30 00 | VERSION: 20 JUL 2018

### 1. PRODUCT NAME

STEGOTACK TAPE

### 2. MANUFACTURER

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 216 Avenida Fabricante, Suite 101  
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 www.stegoindustries.com



### 3. PRODUCT DESCRIPTION

**USES:** StegoTack Tape is a double-sided adhesive strip used to bond and seal Stego™ Wrap Vapour Barrier to concrete, masonry, wood, metal, and other surfaces. StegoTack Tape is a flexible and mouldable 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 51 mm x 15 m (2" x 50'). StegoTack Tape ships 12 rolls in a case.

### 4. TECHNICAL DATA

**TABLE 4.1: PHYSICAL PROPERTIES OF STEGOTACK TAPE**

PROPERTY	RESULTS
Dimensions	51 mm x 15 m (2" x 50')
Total Thickness	0.76 mm (30 mil)
Permeance (at 0.76 mm/30 mil)	1.7 ng/(m <sup>2</sup> *s*Pa) (0.03 gr/(ft <sup>2</sup> *hr*in-Hg))
Colour	Grey
Material	Synthetic rubber blend
Adhesion to Steel	2.19 kN/m (12.5 lb/in) width ASTM D1000
Installation Temperature	4°C/43°C (40°F/110°F)
In Service Temperature Range	-29°C/60°C (-20°F/+140°F)
VOC Content	No VOCs, 100% solids

### 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 4°C and 43°C. For additional information please refer to Stego's complete installation instructions.

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# STEGOTACK™ TAPE

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## 6. AVAILABILITY & COST

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

## 7. WARRANTY

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## 8. MAINTENANCE

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

## 9. TECHNICAL SERVICES

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## STEGO™ TERM BAR

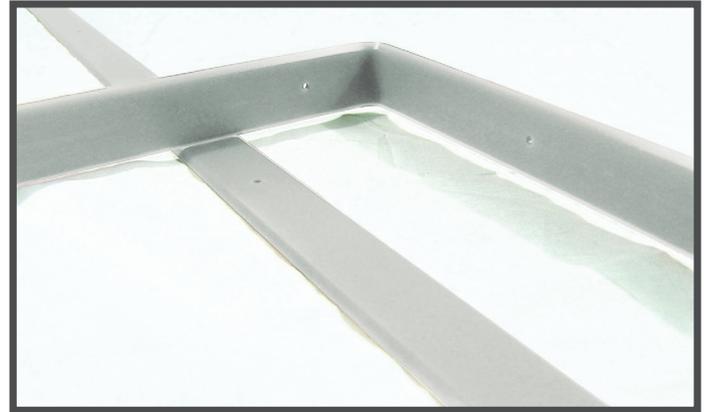
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### 1. PRODUCT NAME

STEGO TERM BAR

### 2. MANUFACTURER

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### 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 1.2 m x 28.6 mm (4' x 1.125").

### 4. TECHNICAL DATA

**TABLE 4.1: PHYSICAL PROPERTIES OF STEGO TERM BAR**

PROPERTY	RESULTS
Dimensions	1.2 m x 28.6 mm (4' x 1.125")
Colour	Grey
Material	Recycled PVC
Weight	132 grams (4.7 oz)

### 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 150 mm 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.

## STEGO™ TERM BAR

A STEGO INDUSTRIES, LLC INNOVATION | VAPOUR RETARDERS 07 26 00, 03 30 00 | VERSION: 31 DEC 2018

### 6. AVAILABILITY & COST

Stego Term Bar is available through our network of building supply distributors. For current cost information, contact your local Stego Wrap 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](http://www.stegoindustries.com/legal).

### 8. MAINTENANCE

Store above 16°C (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:** [international@stegoindustries.com](mailto:international@stegoindustries.com)

**Contact Number:** +1 (877) 464-7834

**Website:** [www.stegoindustries.com](http://www.stegoindustries.com)

### 10. FILING SYSTEMS

- [www.stegoindustries.com](http://www.stegoindustries.com)



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# STEGO™ PRE-CUT PIPE BOOTS

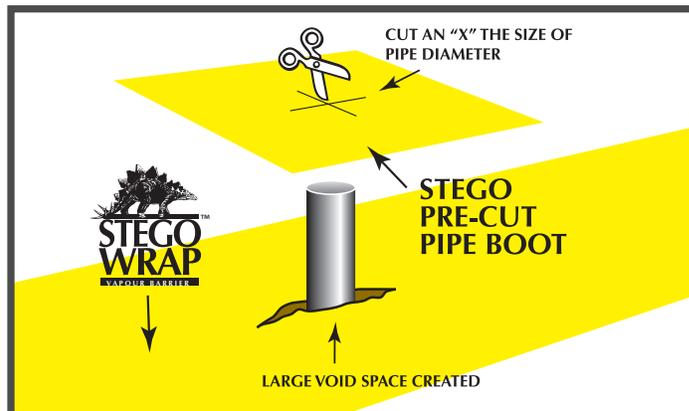
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## 1. PRODUCT NAME

STEGO PRE-CUT PIPE BOOTS

## 2. MANUFACTURER

Stego Industries, LLC  
 216 Avenida Fabricante, Suite 101  
 San Clemente, CA 92672 USA  
 Sales, Technical Assistance  
 Ph: +1 (877) 464-7834  
 international@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 Vapour Barrier (15-mil), and therefore are manufactured from only high grade prime, virgin, polyolefin resins.

SIZE: Stego Pre-Cut Pipe Boots are 450 mm x 450 mm (18" x 18") and 0.38 mm (15 mil) thick. Stego Pre-Cut Pipe Boots ship 10 packs of 25 in a case (250 boots per case).

## 4. TECHNICAL DATA

TABLE 1: PHYSICAL PROPERTIES OF STEGO PRE-CUT PIPE BOOTS

PROPERTY	TEST	RESULTS	
Under Slab Vapour Retarders	ASTM E1745 Class A, B & C- Standard Specification for Water Vapour Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs	Exceeds Class A, B & C	
		<b>Permeance Units (perms):</b> ng/(m <sup>2</sup> *s*Pa)   gr/(ft <sup>2</sup> *hr*in-Hg)	
Water Vapour Permeance	ASTM F1249 – Test Method for Water Vapour Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor	0.49	0.0086
Permeance After Conditioning [ASTM E1745 Sections 7.1.2 - 7.1.5]	ASTM E154 Section 8, F1249 – Permeance after wetting, drying, and soaking	0.56	0.0098
	ASTM E154 Section 11, F1249 – Permeance after heat conditioning	0.52	0.0091
	ASTM E154 Section 12, F1249 – Permeance after low temperature conditioning	0.56	0.0097
	ASTM E154 Section 13, F1249 – Permeance after soil organism exposure	0.54	0.0095
Puncture Resistance	ASTM D1709 – Test Method for Impact Resistance of Plastic Film by Free-Falling Dart Method	2,266 grams	
Tensile Strength	ASTM D882 – Test Method for Tensile Properties of Thin Plastic Sheeting	12.4 kN/m (70.6 lbf/in)	
Thickness		0.38 mm (15 mil)	
Pipe Boot Dimensions		width x length:	450 mm x 450 mm (18" x 18")

## 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.

# STEGO™ PRE-CUT PIPE BOOTS

A STEGO INDUSTRIES, LLC INNOVATION | VAPOUR RETARDERS 07 26 00, 03 30 00 | VERSION: 20 JUL 2018

## 6. AVAILABILITY & COST

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## 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.

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**Contact Number:** +1 (877) 464-7834

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## 10. FILING SYSTEMS

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# STEGO™ WRAP VAPOUR BARRIER/RETARDER INSTALLATION INSTRUCTIONS

**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 Vapour 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:

FIGURE 1: UNDER-SLAB INSTALLATION

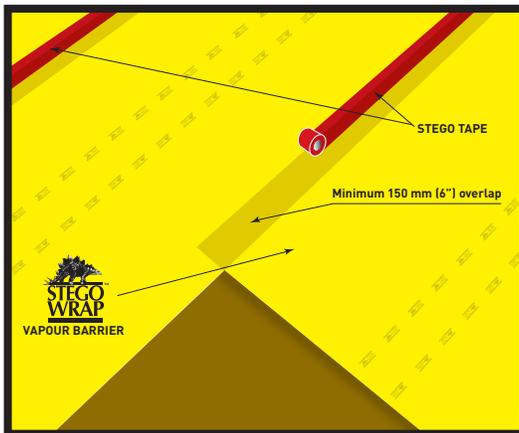


FIGURE 2a: SEAL TO SLAB AT PERIMETER

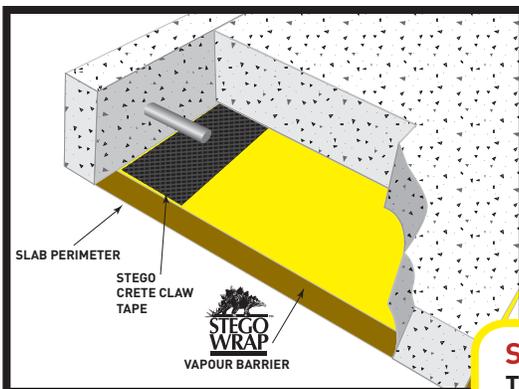
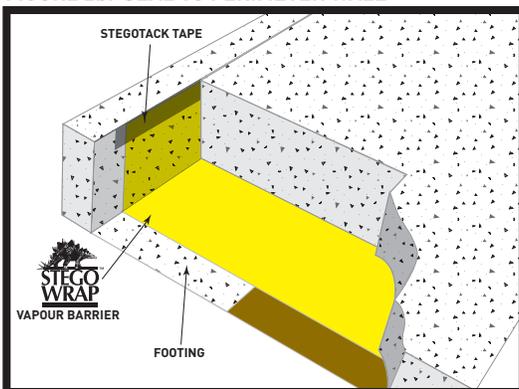


FIGURE 2b: SEAL TO PERIMETER WALL



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 vapour 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 maximise the bond to the concrete.

### STEGO LABOUR SAVER!

This method not only complies with ASTM E1643, but it also:

- reduces labour compared to other perimeter sealing techniques.
- can be used even without an existing wall or footing, unlike alternatives.

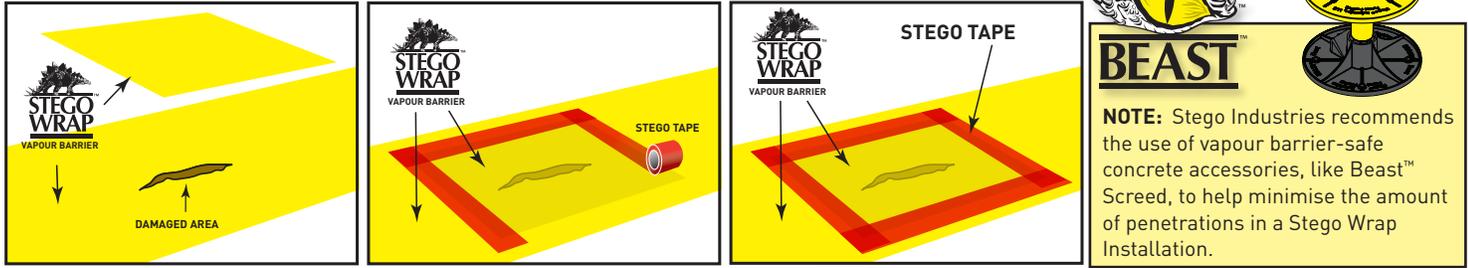
### OR SEAL TO PERIMETER WALL WITH STEGOTACK™ TAPE:\*

- 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.

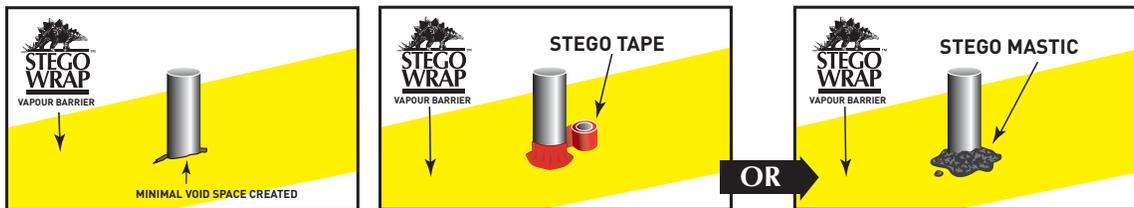
4. In the event that Stego Wrap is damaged during or after installation, repairs must be made. For holes, cut a piece of Stego Wrap to a size and shape that covers any damage by a minimum overlap of 150 mm (6") in all directions. Clean all adhesion areas of dust, dirt, moisture, and frost. Tape down all edges using Stego Tape (see figure 3, Sealing Damaged Areas).

FIGURE 3: SEALING DAMAGED AREAS



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, Pipe Penetration Sealing).

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 minimise the void space created.
- 2: If Stego Wrap is close to pipe and void space is minimised then seal around pipe penetration with Stego Tape and/or Stego Mastic. **[See Figure 4a]**
- 3: If detail patch is needed to minimise void space around penetration, then cut a detail patch to a size and shape that creates a 150 mm (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 centre 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

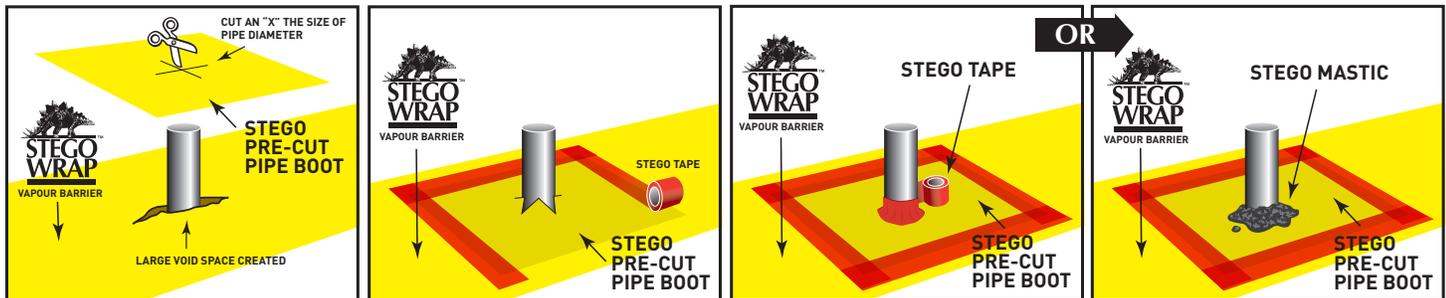
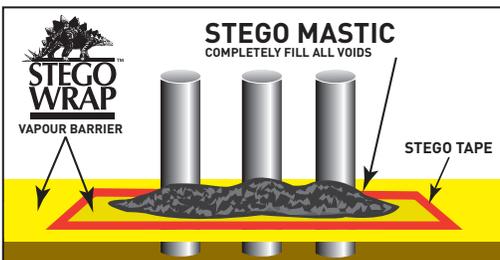


FIGURE 5: MULTIPLE PIPE PENETRATION SEALING



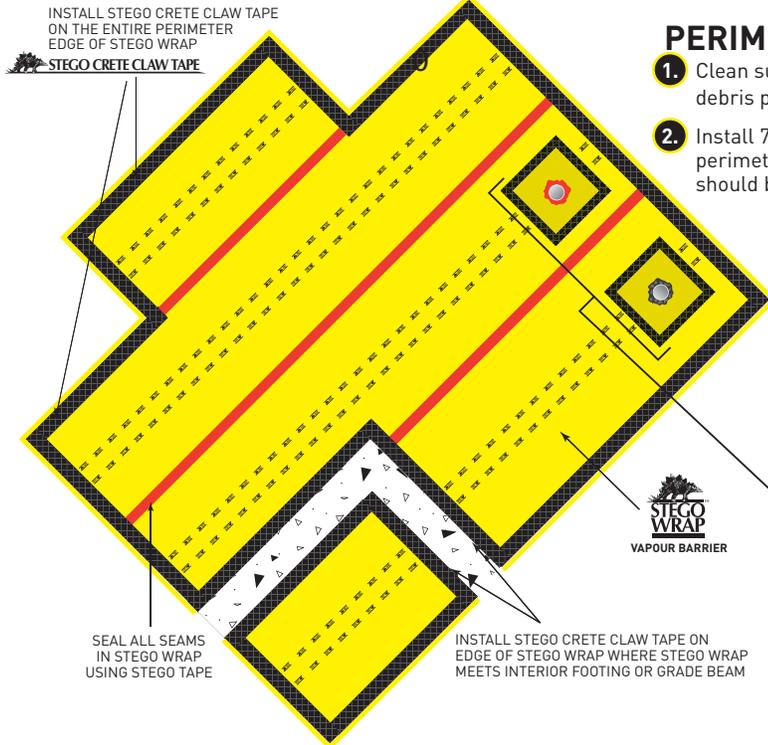
**MULTIPLE PIPE PENETRATION SEALING:**

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, Multiple Pipe Penetration Sealing).

**NOTE:** Stego Industries, LLC's ("Stego") installation instructions are based on ASTM E1643 - *Standard Practice for Selection, Design, Installation, and Inspection of Water Vapour 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 +1 877-464-7834 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 authorised to make final design decisions.



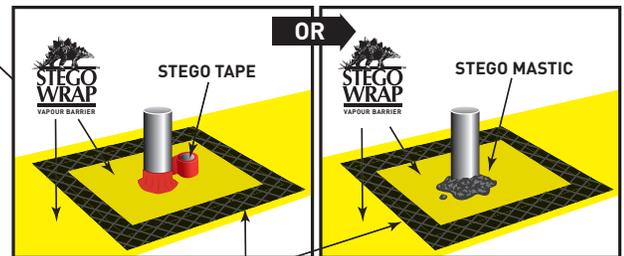
# STEGO™ CRETE CLAW™ TAPE INSTALLATION INSTRUCTIONS



## 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 Stego Crete Claw Tape.
2. Install 75 mm or 150 mm 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 PENETRATIONS WITH STEGO TAPE AND/OR STEGO MASTIC. STEGO CRETE CLAW TAPE IS NOT MEANT FOR REPAIRING PENETRATIONS.



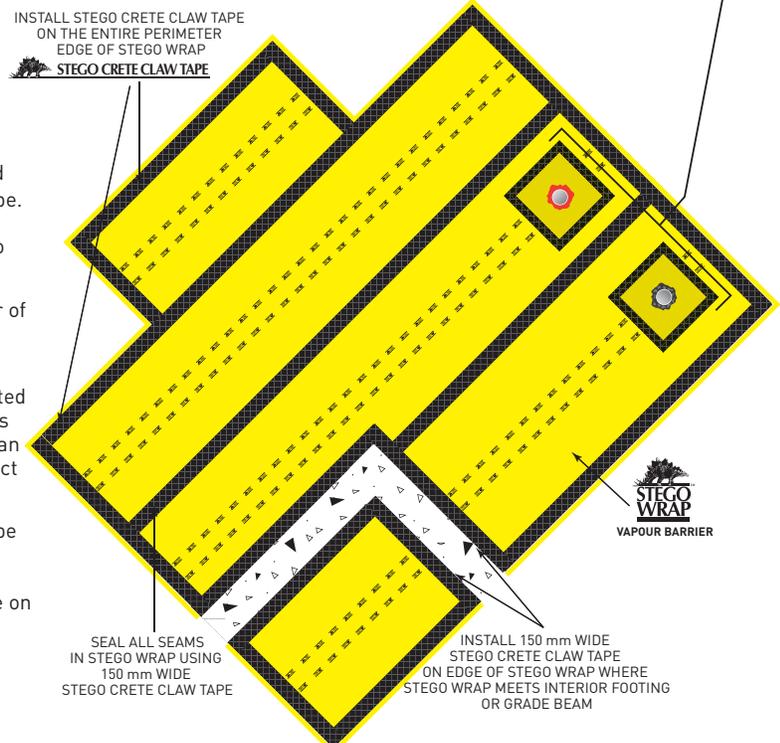
STEGO CRETE CLAW TAPE CAN BE USED TO SEAL SEAM AROUND DETAIL PATCH FOR ADDED PROTECTION.

## 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 150 mm wide Stego Crete Claw Tape.
2. Overlap seams a minimum of 150 mm (6"). Seal all seams in Stego Wrap using Stego Crete Claw Tape.
3. Install 150 mm 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 150 mm 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 150 mm 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 Vapour 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 +1 877-464-7834 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 authorised to make final design decisions.