



## Vapor Barrier Consolidated Specs

### STEGO® WRAP 10-MIL CLASS A VAPOR RETARDER

#### Product Description:

**USES:** Stego Wrap 10-Mil Class A Vapor Retarder is used as an exceptional vapor retarder, and as a protection course for below grade waterproofing applications.

**COMPOSITION:** Stego Wrap 10-Mil Class A Vapor Retarder is a multi-layer plastic extrusion manufactured with only high grade prime, virgin, polyolefin resins.

**ENVIRONMENTAL FACTORS:** Stego Wrap 10-Mil Class A Vapor Retarder can be used in systems for the control of soil gases (radon), and sulfates.

#### Technical Data:

PROPERTY	TEST	RESULTS
Under Slab Vapor Retarders	ASTM E1745 Class A, B & C – Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs	Exceeds Class A, B & C
Water Vapor Permeance	ASTM F1249 – Test Method for Water Vapor Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor	0.0254 perms
Permeance After Conditioning (ASTM E1745 Sections 7.1.2 - 7.1.5)	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	0.0258 perms 0.0259 perms 0.0241 perms 0.0245 perms
Radon Diffusion Coefficient	K124/02/95	$8.0 \times 10^{-12} \text{ m}^2/\text{second}$
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	50.6 lbf/in
Thickness		10 mil
Roll Dimensions		width x length: 14' x 210' area: 2,940 ft <sup>2</sup>
Roll Weight		146 lb

Note: perm unit = grains/(ft<sup>2</sup>\*hr\*in-Hg)

#### Installation:

**UNDER SLAB:** Unroll Stego Wrap 10-Mil Class A Vapor Retarder 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 10-Mil Class A Vapor Retarder and Stego accessories.

Stego Wrap should be installed below 110°F. Do not exceed 7 days between Stego Wrap installation and concrete placement or full protection from UV and weather exposure. Please review technical data sheets for Stego accessory products for installation/application temperature ranges.



## Vapor Barrier Consolidated Specs

### STEGO® WRAP 15-MIL VAPOR BARRIER

#### Product Description:

USES: Stego Wrap 15-Mil Vapor Barrier is used as a below-slab vapor barrier.

COMPOSITION: Stego Wrap 15-Mil Vapor Barrier is a multi-layer plastic extrusion manufactured with only high grade prime, virgin, polyolefin resins.

ENVIRONMENTAL FACTORS: Stego Wrap 15-Mil Vapor Barrier can be used in systems for the control of soil gases (radon), and sulfates.

#### Technical Data:

PROPERTY	TEST	RESULTS
Under Slab Vapor Retarders	ASTM E1745 Class A, B & C – Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs	Exceeds Class A, B & C
Water Vapor Permeance	ASTM F1249 – Test Method for Water Vapor Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor	0.0086 perms
Permeance After Conditioning (ASTM E1745 Sections 7.1.2 - 7.1.5)	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	0.0098 perms 0.0091 perms 0.0097 perms 0.0095 perms
Methane Transmission Rate	ASTM D1434 – Standard Test Method for Determining Gas Permeability Characteristics of Plastic Film and Sheeting	192.8 GTR* (mL(STP)/m <sup>2</sup> *day)
Radon Diffusion Coefficient	K124/02/95	8.8 x 10 <sup>-12</sup> m <sup>2</sup> /second
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	70.6 lbf/in
Thickness		15 mil
Roll Dimensions		width x length: area: 14' x 140' 1,960 ft <sup>2</sup>
Roll Weight		147 lb

Note: perm unit = grains/(ft<sup>2</sup>\*hr\*in-Hg)

\*GTR = Gas Transmission Rate

#### Installation:

UNDER SLAB: Unroll Stego Wrap 15-Mil Vapor Barrier 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 and Stego accessories.

Stego Wrap should be installed below 110°F. Do not exceed 7 days between Stego Wrap installation and concrete placement or full protection from UV and weather exposure. Please review technical data sheets for Stego accessory products for installation/application temperature ranges.



## Vapor Barrier Consolidated Specs

### STEGO™ WRAP 20-MIL VAPOUR BARRIER

#### Product Description:

USES: Stego Wrap 20-Mil Vapour Barrier is used as a below-slab vapour barrier.

COMPOSITION: Stego Wrap 20-Mil Vapour Barrier is a multi-layer plastic extrusion manufactured with only the highest grade of prime, virgin, polyolefin resins.

ENVIRONMENTAL FACTORS: Stego Wrap 20-Mil Vapour Barrier can be used in systems for the control of soil gases (radon, methane), soil poisons (oil by-products) and sulfates.

#### Technical Data:

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	0.40	0.0071
Permeance After Conditioning (ASTM E1745 Sections 7.1.2 - 7.1.5)	ASTM E154 Section 8, F1249 – Permeance after wetting, drying, and soaking	0.50	0.0088
	ASTM E154 Section 11, F1249 – Permeance after heat conditioning	0.46	0.0081
	ASTM E154 Section 12, F1249 – Permeance after low temperature conditioning	0.48	0.0084
	ASTM E154 Section 13, F1249 – Permeance after soil organism exposure	0.55	0.0077
Methane Transmission Rate	ASTM D1434 - Standard Test Method for Determining Gas Permeability Characteristics of Plastic Film and Sheeting	GTR = 152.2 mL(STP)/m <sup>2</sup> *day	
Radon Diffusion Coefficient	K124/02/95	9.9 x 10 <sup>-12</sup> m <sup>2</sup> /second	
Puncture Resistance	ASTM D1709 – Test Method for Impact Resistance of Plastic Film by Free-Falling Dart Method	3500+ grams*	
Tensile Strength	ASTM D882 – Test Method for Tensile Properties of Thin Plastic Sheeting	17.1 kN/m (97.7 lbf/in)	
Thickness		0.50 mm (20 mil)	
Roll Dimensions		width x length:	4.3 m x 32.0 m (14' x 105')
		area:	136 m <sup>2</sup> (1470 ft <sup>2</sup> )
Roll Weight		63 kg (140 lb)	

Note: GTR = Gas Transmission Rate

\* The material maxed out the testing equipment and did not fail at 3746 grams.

#### Installation:

UNDER SLAB: Unroll Stego Wrap 20-Mil Vapour Barrier 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 and Stego Accessories.