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# GreenSeam+<sup>®</sup>

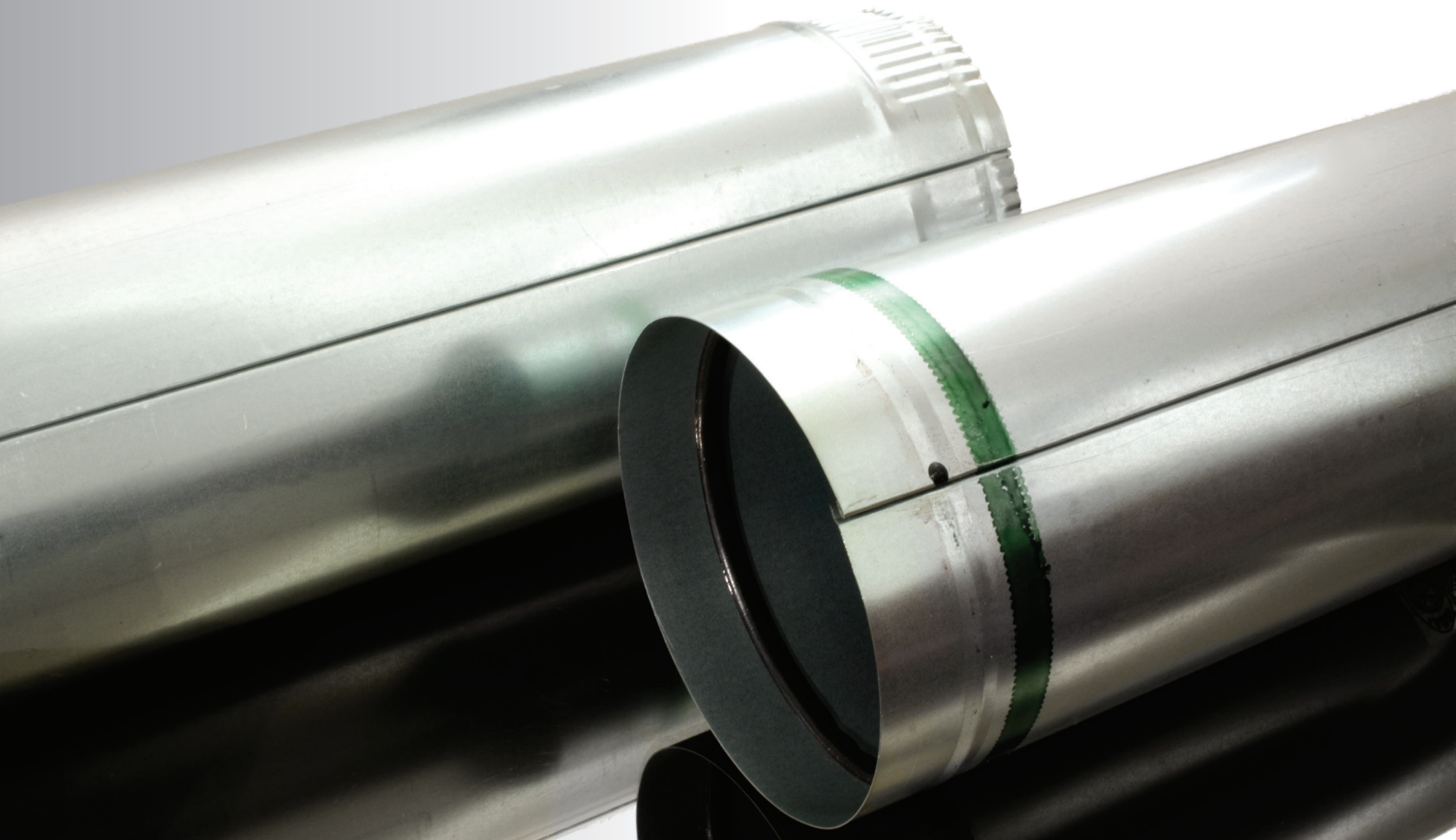
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Complete Factory Sealed Snap-Lock Pipe System

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Patent # 7,478,467 | Patent # 7,708,034  
Additional Patents Pending

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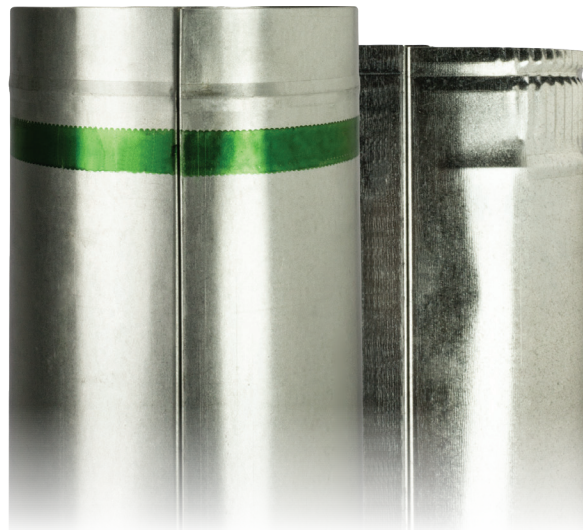


## Submittal Package



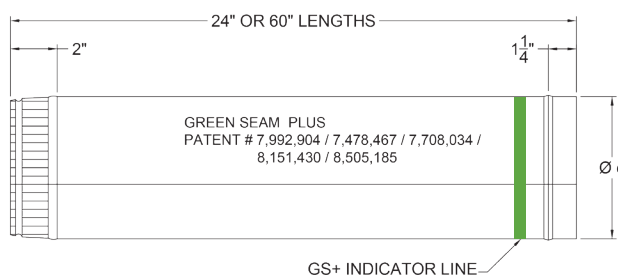
# GreenSeam<sup>®</sup> Plus

Factory Sealed Snap-Lock Pipe



## Technical Data

- GreenSeam Plus Pipe is designed and tested to surpass SMACNA Class 3 Leakage Standards
- Meets the requirements for SMACNA Seal Class A
- Transverse & Longitudinal seam is pre-sealed with gasket made of EPDM rubber and proprietary co-polymer
- Galvanized Steel (ASTM A653 and A924)
- Standard product is supplied in 26 GA, G-60 coating (ASTM A653 and ASTM A90)
- Available in Specialty Metals:
  - G-90 Galvanized Steel
  - Aluminum (ASTM B209 Alloy 3003 Temper H14)
  - 304 Stainless Steel (ASTM A480 2B Finish)
- Pressure Rating: -1" wg - +2" wg
- Button Lock Pipe meets SMACNA RL-8
- Exclusive technology:
  - Patent # 7,478,467
  - Patent # 7,708,034
  - Patent # 7,992,904
  - Patent # 8,151,430
  - Patent # 8,505,185



## Product Availability

Size (Ød)	24" Lengths					60" Lengths				
	Gauge			Quantity		Gauge			Quantity	
	28 Ga.	26 Ga.	24 Ga.	Bundle	Skid/Rack	28 Ga.	26 Ga.	24 Ga.	Bundle	Skid/Rack
4"	Yes	‡	-	-	-	Yes	‡	-	-	-
5"	Yes	‡	-	-	-	Yes	‡	-	-	-
6"	Yes	Yes	Yes	10	360	Yes	Yes	Yes	5	150
7"	Yes	Yes	Yes	10	220	Yes	Yes	Yes	5	100
8"	Yes	Yes	Yes	10	160	Yes	Yes	Yes	5	100
9"	Yes	Yes	Yes	10	140	Yes	Yes	Yes	5	80
10"	Yes	Yes	Yes	10	120	Yes	Yes	Yes	5	60
12"	Yes	Yes	Yes	10	90	Yes	Yes	Yes	5	45
14"	Yes	Yes	Yes	10	70	Yes	Yes	Yes	5	30

‡ Consult factory for availability.

## Part Number Schematic

Example: **60SPBGP10GA26\*\*** = 60" long, 10" round GreenSeam<sup>®</sup>+ Snap Pipe in 26Ga. Galvanized Steel

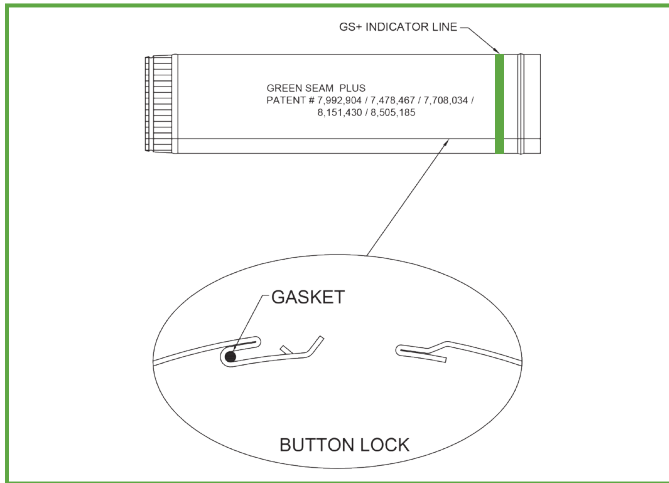
60	SP	B	G	P	10	GA	26
Pipe Length 24 - 2' 0" 60 - 5' 0" 48 - 4' 0" AL, S4 Only	Snap Pipe	Lock Type B - Button	GreenSeam	Plus	Pipe Diameter (Ød)	Material GA-Galvanized (Std.) AL - Aluminum S4 - 304 S.S	Gauge GA: 28, 26, 24 AL: 25 S4: 26

\*\* Add 90 for G90 Galvanized Coating

Items in green denote available options

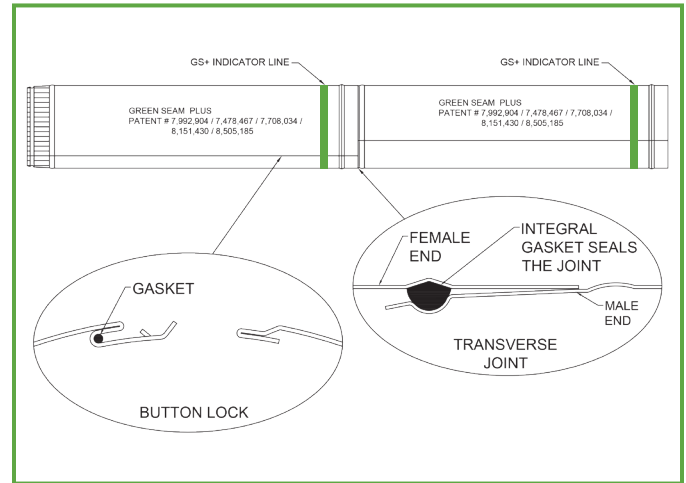
Check with your sales representative for availability of any size, gauge, or specialty metal item not shown here.

# Gasket Specifications



## Longitudinal Gasket Composition

This material is made of butyl and E.P.D.M. rubbers, and proprietary co-polymer. It contains some process aids, antioxidants, tackifying resins, and is fungi resistant.



## Transverse Gasket Composition

This material is a two-component polyurethane foamed gasket. The gasket is liquid applied directly onto the pipe by using FIPFG (formed-in-place foam gasket) technology. This produces a flexible tack-free foam gasket.

### Test Data

**Color:** Black

**Odor:** None

**Melt Point:** Ball & Ring, 300° F

**Slump:** 3/8" Bd @ 250° F — no slump or sag.

**Solids Content (% by weight):** 100%

**Elongation (0° F, 77° F):** 450%, 900%

**Tensile Strength:** ASTM D412 Die C — 65 psi

**Plasticizer Migration:** ASTM C772-74; no bleed or stain.

**Cold Temperature Flexibility:** ASTM C765-73 — passes.

**Water Resistance:** ASTM D1056 — 0.01%

**Shelf and Service Life:** 20 years min.

**Force to Compress:** As measured when one cubic inch of 3/8" thick material is compressed to 3/16" thick material at 2" per min.

0° F — 60 psi

77° F — 30 psi

120° F — 15psi

**Aging Characteristics:** ASTM D750-68 (1000 hrs.) on surface — slight haze

**VOCs:** 0

**Surface Burning Characteristics:** ASTM E-84 Test GreenSeam Plus Longitudinal Gasket applied to Galvanized Steel.

Test Results: Flame Spread Index - 0

Smoke Developed Index - 30

Test applied in two 3/8" wide strips 8" on center (coverage of 3% of the exposed test sample area)

*Full test report available upon request*

### Test Data

**Color:** Black

**Odor:** None

**Service Temperature:** -40° F to 212° F

**Rebound (% after compression to z''): 80% +/- 20%**

**Long Term Flexibility:** Indefinitely Flexible

**VOCs:** 0

**Surface Burning Characteristics:** ASTM E-84 Test GreenSeam Plus Transverse Gasket applied to Galvanized Steel.

Test Results: Flame Spread Index - 0

Smoke Developed Index - 30

Test applied in two 3/8" wide strips 8" on center (coverage of 3% of the exposed test sample area)

*Full test report available upon request*

**GreenSeam+**<sup>®</sup>  
Complete Factory Sealed Snap-Lock Pipe System



# Farabaugh Engineering and Testing Inc.

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Project No. T309-22

Report Date: October 20, 2022

No. Pages: 4 (inclusive)

AIR LEAKAGE TEST

6" GREENSEAM PLUS HVAC PIPE

FOR

GREENSEAM INDUSTRIES  
210 5TH STREET  
CHARLEROI, PA 15022

Prepared by:

Paul G. Farabaugh

Approved by:

Daniel G. Farabaugh



DADE COUNTY  
ACCREDITED  
LABORATORY



AAMA  
ACCREDITED  
LABORATORY



TEXAS  
ACCREDITED  
LABORATORY



FLORIDA  
ACCREDITED  
LABORATORY  
& QC ENTITY

## AIR LEAKAGE TESTING

### **Purpose**

The purpose of this test is to establish air leakage rates on 6" GreenSeam Plus HVAC Pipe.

### **Test Date**

10/11/2022

### **Test Specimen**

Manufacturer: Greenseam Industries  
210 5th Street  
Charleroi, PA 15022

Test Specimens: 6" Diameter Greenseam Plus Circular Ducts 26 ga ( with factory applied gasket and grease sealant). The ducts had factory applied foam-in-place gasket and red grease sealant located on the inside perimeter of the female joint. A factory applied foam-in-place gasket was also on the full length of the interlocking longitudinal joint. All ducts were 5' long (nominal) sections.

### **Test Apparatus**

Extech Differential Pressure Manometer Model: HD 700 Range: 0-2 psi

Extech Digital 4-Channel Thermometer Model: SDL200 Range: -3 to +3 of WC

Meriam Laminar Air Flow Meter Model:50MC2-2 Range: 0-20 psig

**Installation**

The circular duct sections were assembled with male / female end laps that pushed together. Each specimen consisted of six sections with each section being 5' long duct sections with five tested end-lap joints. There were (3) #10 - 16 x 3/4" long tek screws at each end lap joint, one screw on each side and one screw opposite the longitudinal seam. The first pipe was sealed with tape and the additional five other pipes were attached in series to the first pipe. The outer most end of the duct mock-up was capped and sealed. There was a 3/4" opening on the end cap to help with flow thru the piping. A positive blower was connected to one end and a pressure tap was added in the middle of each specimen. *Note - Only five longitudinal seam and five end lap joints of the six 5' sections of pipe were used to determine the flow thru the system. ALL other joints or seams were sealed.*

**Procedure**

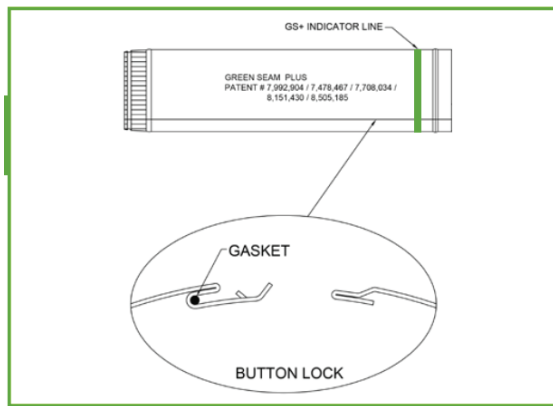
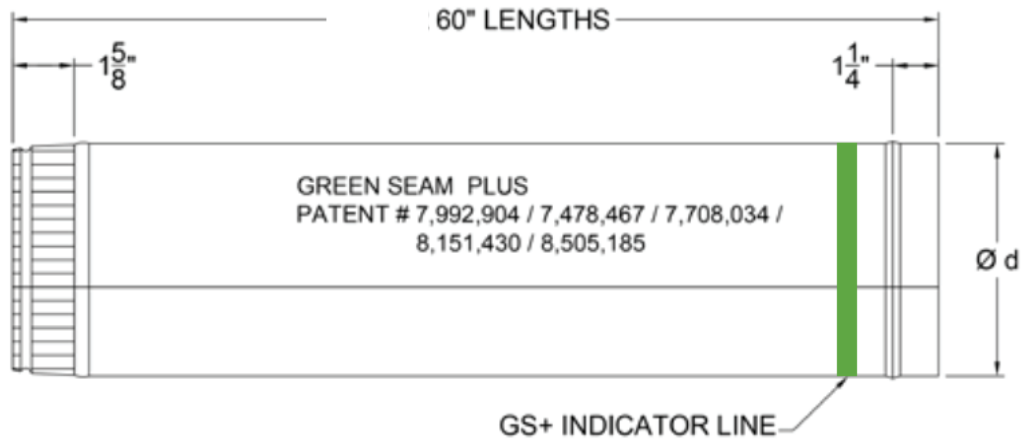
The tests were conducted using a blower to induce a positive pressure inside the duct mock-up. A laminar flow element was used to measure the air flow at various pressures. The duct joints were taped off to determine the air leakage in the set-up apparatus. Additional air leakage readings were taken at the various pressures with the tape removed to determine the air leakage through the duct mock-up. The air leakage values reported here-in are the net air leakage values (Total Air Leakage minus Set-up Apparatus Leakage).

**TEST RESULTS**

**Test Data**

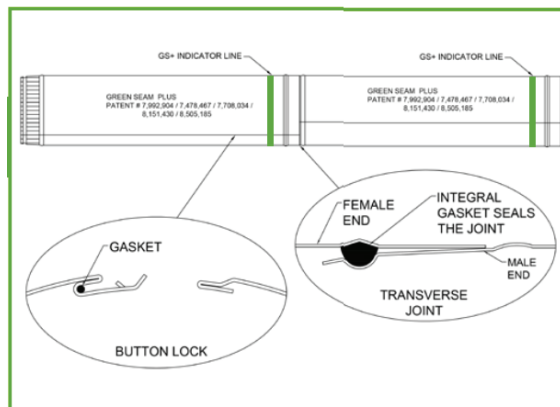
**Specimen: GreenSeam Plus Pipe, 6" dia. X 26 ga Circular Duct**

Test Pressure (Inches of H2O)	TEST #1 (CFM)	TEST #2 (CFM)	TEST #3 (CFM)	TEST #4 (CFM)	AVG (CFM)	CLASS
0.5	0.418	0.573	0.147	0.149	0.322	1.29
1	0.621	0.790	0.425	0.420	0.564	1.44
2	0.964	0.974	0.421	0.727	0.772	1.25
4	1.751	1.580	0.829	1.190	1.338	1.38
6	1.628	1.639	1.110	1.290	1.417	1.13
8	1.911	1.983	1.100	1.330	1.581	1.04
10	2.281	2.145	1.330	1.602	1.840	1.05



**Longitudinal Gasket Composition**

This material is made of butyl and E.P.D.M. rubbers, and proprietary co-polymer. It contains some process aids, antioxidants, tackifying resins, and is fungi resistant.



**Transverse Gasket Composition**

This material is a two-component polyurethane foamed gasket. The gasket is liquid applied directly onto the pipe by using FIPFG (formed-in-place foam gasket) technology. This produces a flexible tack-free foam gasket.



Farabaugh Engineering and Testing Inc.

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Project No. T310-22

Report Date: October 20, 2022

No. Pages: 4 (inclusive)

AIR LEAKAGE TEST

12” GREENSEAM PLUS HVAC PIPE

FOR

GREENSEAM INDUSTRIES  
210 5TH STREET  
CHARLEROI, PA 15022

Prepared by:

Paul G. Farabaugh

Approved by:

Daniel G. Farabaugh



DADE COUNTY  
ACCREDITED  
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ACCREDITED  
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TEXAS  
ACCREDITED  
LABORATORY



FLORIDA  
ACCREDITED  
LABORATORY  
& QC ENTITY

## AIR LEAKAGE TESTING

### **Purpose**

The purpose of this test is to establish air leakage rates on 12" GreenSeam Plus HVAC Pipe.

### **Test Date**

10/11/2022

### **Test Specimen**

Manufacturer: Greenseam Industries  
210 5th Street  
Charleroi, PA 15022

Test Specimens: 12" Diameter Greenseam Plus Circular Ducts 26 ga ( with factory applied gasket and grease sealant). The ducts had factory applied foam-in-place gasket and red grease sealant located on the inside perimeter of the female joint. A factory applied foam-in-place gasket was also on the full length of the interlocking longitudinal joint. All ducts were 5' long (nominal) sections.

### **Test Apparatus**

Extech Differential Pressure Manometer Model: HD 700 Range: 0-2 psi

Extech Digital 4-Channel Thermometer Model: SDL200 Range: -58.0 – 999.9 F

Meriam Laminar Air Flow Meter Model:50MC2-2 Range: 0-20 psig

**Installation**

The circular duct sections were assembled with male / female end laps that pushed together. Each specimen consisted of six sections with each section being 5’ long duct sections with five tested end-lap joints. There were (3) #10 - 16 x 3/4" long tek screws at each end lap joint, one screw on each side and one screw opposite the longitudinal seam. The first pipe was sealed with tape and the additional five other pipes were attached in series to the first pipe. The outer most end of the duct mock-up was capped and sealed. There was a 3/4" opening on the end cap to help with flow thru the piping. A positive blower was connected to one end and a pressure tap was added in the middle of each specimen. *Note - Only five longitudinal seam and five end lap joints of the six 5' sections of pipe were used to determine the flow thru the system. ALL other joints or seams were sealed.*

**Procedure**

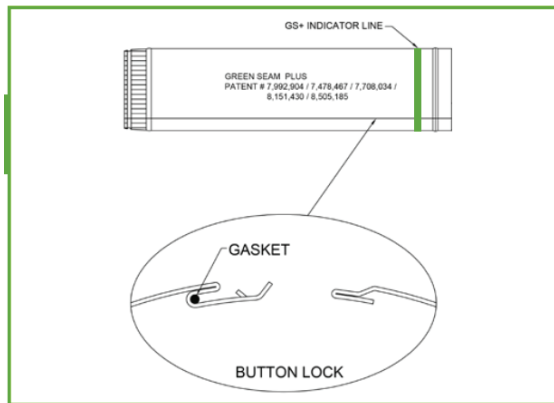
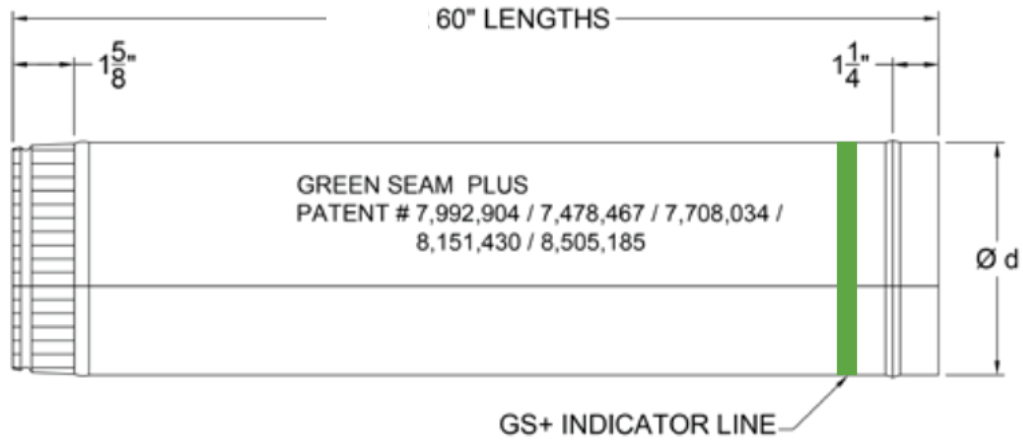
The tests were conducted using a blower to induce a positive pressure inside the duct mock-up. A laminar flow element was used to measure the air flow at various pressures. The duct joints were taped off to determine the air leakage in the set-up apparatus. Additional air leakage readings were taken at the various pressures with the tape removed to determine the air leakage through the duct mock-up. The air leakage values reported here-in are the net air leakage values (Total Air Leakage minus Set-up Apparatus Leakage).

**TEST RESULTS**

**Test Data**

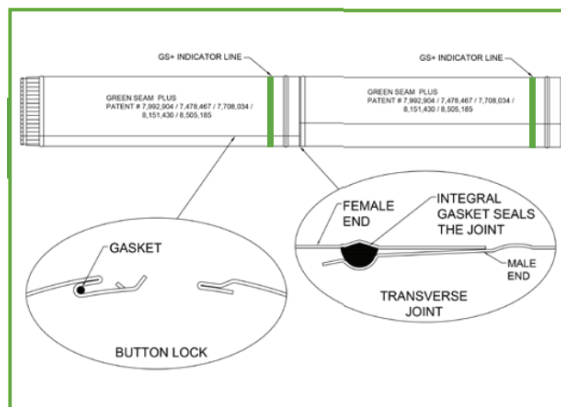
**Specimen: GreenSeam Plus Pipe, 12” dia. X 26 ga Circular Duct**

<b>Test Pressure (Inches of H2O)</b>	<b>TEST #1 (CFM)</b>	<b>TEST #2 (CFM)</b>	<b>TEST #3 (CFM)</b>	<b>TEST #4 (CFM)</b>	<b>AVG (CFM)</b>	<b>CLASS</b>
0.5	1.124	0.168	0.773	0.759	0.706	2.82
1	1.668	0.555	1.077	1.018	1.080	2.75
2	1.992	0.571	1.592	1.165	1.330	2.16
4	2.440	0.935	1.311	1.797	1.621	1.68
6	2.825	1.188	1.439	2.385	1.959	1.56
8	3.989	1.428	1.580	2.741	2.435	1.61
10	3.596	1.544	1.606	2.767	2.378	1.36



### Longitudinal Gasket Composition

This material is made of butyl and E.P.D.M. rubbers, and proprietary co-polymer. It contains some process aids, antioxidants, tackifying resins, and is fungi resistant.



### Transverse Gasket Composition

This material is a two-component polyurethane foamed gasket. The gasket is liquid applied directly onto the pipe by using FIPFG (formed-in-place foam gasket) technology. This produces a flexible tack-free foam gasket.

**Safety Data Sheet**  
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
OSHA GHS

Printing date 24.11.2014

Revision: 24.11.2014

**SECTION 1: Identification of the substance/mixture and of the company/  
undertaking**


- **1.1 Product identifier**
- **Trade name: GS Prime 32**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Sealant
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
GreenSeam Industries  
210 5th St.  
Charleroi, PA 15022  
Phone: 800-990-8459
- **1.4 Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924, +1 (813)248-0585



**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified as hazardous according to GHS regulations.  
The product is not classified as hazardous according to OSHA GHS regulations within the United States.  
The product is not classified as hazardous according to the CLP regulation.

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- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
 Xn; Harmful  
R22: Harmful if swallowed.
- **Information concerning particular hazards for human and environment:**  
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.  
The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

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- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is not classified as hazardous according to OSHA GHS regulations within the United States.
- **Hazard pictograms** Not Regulated
- **Signal word** Not Regulated
- **Hazard statements** Not Regulated
- **Hazard description:**
- **WHMIS-symbols:** Not hazardous under WHMIS.

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
OSHA GHS

Printing date 24.11.2014

Revision: 24.11.2014

**Trade name: GS Prime 32**

· **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 0  
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 0  
Fire = 0  
Reactivity = 0

· **HMIS Long Term Health Hazard Substances**

None of the ingredients are listed.

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 8001-79-4	Castor oil	☒ Xn R22	25-50%
EINECS: 232-293-8			

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

## SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:**  
Unlikely route of exposure.  
Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Remove contact lenses if worn.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**  
Headache

**Safety Data Sheet**  
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
OSHA GHS

Printing date 24.11.2014

Revision: 24.11.2014

**Trade name: GS Prime 32**

Gastric or intestinal disorders.

Nausea

· **Hazards** May be harmful if swallowed.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

Water haze or fog

Foam

Fire-extinguishing powder

Carbon dioxide

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

· **Additional information** Cool endangered receptacles with water fog or haze.

### SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Pick up mechanically.

Dispose contaminated material as waste according to item 13.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Store in cool, dry place in tightly closed receptacles.

Use only in well ventilated areas.

Wash hands before breaks and at the end of work.

· **Information about fire - and explosion protection:** No special measures required.

**Safety Data Sheet**  
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
OSHA GHS

Printing date 24.11.2014

Revision: 24.11.2014

**Trade name: GS Prime 32**

- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Avoid storage near extreme heat, ignition sources or open flame.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Avoid close or long term contact with the skin.  
Avoid contact with the eyes.  
Do not inhale gases / fumes / aerosols.  
Clean skin thoroughly immediately after handling the product.  
Use only in well ventilated areas.
- **Respiratory protection:**  
Not required under normal conditions of use.  
Use suitable respiratory protective device in case of insufficient ventilation.  
For spills, respiratory protection may be advisable.
- **Protection of hands:**



Protective gloves

Wear protective gloves to handle contents of damaged or leaking units.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.


- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Safety Data Sheet**  
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
OSHA GHS

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**Trade name: GS Prime 32**

- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **For the permanent contact gloves made of the following materials are suitable:** Rubber gloves
- **Eye protection:**  
 Safety glasses
- **Body protection:**  
Not required under normal conditions of use.  
Protection may be required for spills.
- **Limitation and supervision of exposure into the environment** No special requirements.
- **Risk management measures** No special requirements.

**SECTION 9: Physical and chemical properties**

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form: Pasty
  - Colour: Not determined.
- **Odour:** Not determined.
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
  - Melting point/Melting range: Not Determined.
  - Boiling point/Boiling range: Undetermined.
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Not applicable.
- **Auto/Self-ignition temperature:** Not determined.
- **Decomposition temperature:** Not determined.
- **Self-igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower: Not determined.
  - Upper: Not determined.
- **Vapour pressure:** Not determined.
- **Density:** Not determined.
- **Relative density** Not determined.
- **Vapour density** Not determined.

**Safety Data Sheet**  
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
OSHA GHS

Printing date 24.11.2014

Revision: 24.11.2014

**Trade name: GS Prime 32**

- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **9.2 Other information** No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**  
Reacts with catalysts, oxidising agents and strong alkali.  
Reacts with strong acids.
- **10.4 Conditions to avoid** Excessive heat.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Nitrogen oxides  
Toxic metal oxide smoke

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

**8001-79-4 Castor oil**

Oral	LD50	>4952 mg/kg (rat)
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- **Primary irritant effect:**
  - on the skin:** No irritant effect.
  - on the eye:** No irritating effect.
- **Sensitisation:** No sensitising effects known.
- **Additional toxicological information:**  
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.  
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

**Safety Data Sheet**  
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
OSHA GHS

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- **Acute effects (acute toxicity, irritation and corrosivity):** May be harmful if swallowed.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** The product contains materials that are harmful to the environment.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Due to mechanical actions of the product (e.g. agglutinations) damages may occur.
- **Additional ecological information:**
- **General notes:**  
Avoid transfer into the environment.  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.  
Can be disposed of with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- **14.1 UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** Not Regulated
- **14.2 UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA** Not Regulated
- **14.3 Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class** Not Regulated
- **14.4 Packing group**
- **DOT, ADR, IMDG, IATA** Not Regulated

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- **14.5 Environmental hazards:**
- **Marine pollutant:** No
- **14.6 Special precautions for user:** Not applicable.
- **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
- **UN "Model Regulation":** -

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65 (California):**

· **Chemicals known to cause cancer:**

7440-02-0	nickel powder (particle diameter < 1 mm)
7440-48-4	cobalt
7440-38-2	arsenic
107-13-1	acrylonitrile

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **Carcinogenic Categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients are listed.

· **IARC (International Agency for Research on Cancer)**

7631-86-9	silicon dioxide, chemically prepared	3
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· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients are listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

**Safety Data Sheet**  
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· **Canada**

· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

8001-79-4 | Castor oil

· **Other regulations, limitations and prohibitive regulations**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients are listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

R22 Harmful if swallowed.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

· **Sources**

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