



# PURLIN GLIDE FP

INSULATION & LEADING EDGE FALL PREVENTION SYSTEM

[silvercote.com](http://silvercote.com)



*Through people, service and quality*

# If it's important to you. It's important to us!

We strive to provide an exceptional customer experience on every order.



## **SALES AND TECHNICAL SUPPORT**

- Customer Specific Support
- Building Code Experts



## **SERVICE**

- Centralized Operations
- Energy Code Compliance



## **QUOTING TOOL**

- 24/7 Online



## **RESEARCH AND DEVELOPMENT**

- Silvercote Envelope Solutions
- New and Improved Systems and Accessories
- Customer Training

## **BEST IN CLASS MATERIALS**

- Certified Formaldehyde Free Ecosse Technology



# Our Mission

Silvercote designs custom insulation solutions that create value for our customers, employees and shareholders. We empower our employees to deliver what we promise to drive success.



For more than 80 years Silvercote has partnered with customers in the metal building industry to provide innovative custom insulation solutions and systems.

As part of the Knauf Insulation family of companies, Silvercote has access to the latest technology in producing insulation products. Our made-to-order insulation systems are the simple, stress-free way to find the right solution for your steel or wood frame buildings.

Please contact us for more information (844) 232-3701 or [info@silvercote.com](mailto:info@silvercote.com)



# WHY CHOOSE PURLIN GLIDE FP®?



## ► **FALL PREVENTION\***

Protects the installation crew while the building is insulated and roofed by providing OSHA-compliant leading edge fall protection when installed by a Silvercote certified contractor. Purlin Glide FP is fall protection at the leading edge only and is only one component of a total fall protection plan for the job. Other means of fall protection are still required within six feet (6') of any exterior roof edge, roof opening or common rafter where the system has not been installed in both bays. Contact your Silvercote sales representative or see the Purlin Glide FP Contractor Sales Agreement and installation instructions for more details.

## ► **CLEAN, BRIGHT AND DURABLE INTERIOR**

The Purlin Glide FP fabric resists tears and provides a smooth, bright and durable finished surface.

## ► **EXCEPTIONAL FIRE PERFORMANCE**

Both the fiberglass insulation and Purlin Glide FP fabric feature a FHC 25/50 flame spread and smoke developed rating per ASTM E 84/UL 723.

## ► **MINIMAL SEAMS & INCREASED PRODUCTIVITY**

Fabric rolls in widths up to 27' and lengths up to 325' allow for increased productivity by reducing seams up to 70% compared to conventional faced metal building insulation. Our fabric roll overlap does not require any staples or tape.

## ► **LIGHTWEIGHT EQUIPMENT & QUICK SET-UP TIME**

Lightweight, well-maintained equipment and wide fabric rolls make the set-up quick and easy. The provided layout sheet takes the guesswork out of equipment and fabric roll placement.

\* Purlin Glide FP is fall prevention at the leading edge only and is only one component of a total fall protection plan for the job.

\*\*Higher R-value systems are available. Please contact your Silvercote sales person for more information.

# ROOF & WALL SYSTEM INSULATION SYSTEMS

## ROOF SYSTEM:

The patented Purlin Glide FP insulation system provides OSHA-compliant leading edge fall prevention\* and a more efficient method to insulate the roof of your pre-engineered metal building. Silvercote Insulation certifies contractors to install the Purlin Glide FP system on our training website – [certification.silvercote.com](http://certification.silvercote.com). Purlin Glide FP must be installed by a Silvercote certified contractor in order to qualify for OSHA-compliant, leading edge fall prevention.

- ▶ The Purlin Glide FP insulation system utilizes unfaced fiberglass insulation and wide rolls of cross-woven polyethylene fabric. These rolls reduce the number of seams up to 70% compared to conventional faced metal building insulation. This results in faster installation and increased productivity.
- ▶ When Purlin Glide FP is installed using Silvercote's prescribed methods, it complies with OSHA's leading edge fall prevention guidelines, a vital part of an overall site-specific fall protection plan.
- ▶ Since the Purlin Glide FP fabric is not glued directly to the unfaced insulation or taped to the secondary steel, the fabric will have fewer wrinkles than laminated metal building insulation.
- ▶ Product packaging reduces material damage during shipment and on the jobsite. Fabric rolls are wrapped in a protective outer film reducing damage that may occur prior to installation. Purlin Glide FP equipment is boxed, palletized and poly-wrapped in our warehouse to ensure all materials are delivered complete to your jobsite.
- ▶ Purlin Glide FP works on nearly all metal buildings, regardless of size. The Purlin Glider™ weighs approximately 50 pounds and fits on nearly any secondary steel structure.

## ROOF PRE-INSTALLED SYSTEM R-VALUES

### SINGLE LAYER SYSTEMS

R-value	Nominal Thickness	Widths
R-8	2 5/8"	36", 48", 60", 72"
R-10	3"	36", 48", 60", 72"
R-11	3 1/2"	36", 48", 60", 72"
R-13	4"	36", 48", 60", 72"
R-19	6"	36", 48", 60", 72"
R-20	6"	36", 48", 60", 72"
R-25	8"	36", 48", 60", 72"
R-30	9 1/2"	36", 48", 60", 72"

### DOUBLE LAYER SYSTEMS\*\*

R-value	Thickness	Configuration
R-20	6" Double Layer	(R-10 + R-10)
R-23	7" Double Layer	(R-13 + R-10)
R-26	8" Double Layer	(R-13 + R-13)
R-29	9" Double Layer	(R-19 + R-10)
R-30	9 1/2" Double Layer	(R-19 + R-11)
R-32	10" Double Layer	(R-19 + R-13)



## WALL SYSTEM:

The Purlin Glide FP system may also be installed in wall structures by using the patented Purlin Glide Girt Glider and Base Angle Glider. Purlin Glide FP fabric can be installed on the walls of your building, creating a wrinkle-free, uniform appearance throughout your entire metal building.

## WALL PRE-INSTALLED SYSTEM R-VALUES

R-value	Thickness	Widths
R-10	3"	36", 48", 60", 72"
R-11	3 1/2"	36", 48", 60", 72"
R-13	4"	36", 48", 60", 72"
R-19	6"	36", 48", 60", 72"

# YOUR SAFEST BET

► **OSHA COMPLIANCE** - The Purlin Glide FP system meets OSHA requirements for leading edge fall prevention (29 CFR 1926.754 (e)(3)(i)). To meet OSHA guidelines an insulation support and fall prevention system must restrain and support 400 pounds dropped from at least 42" above the system. The Purlin Glide FP system passes this rigorous test! Go to [silvercote.com](http://silvercote.com) to view OSHA's review letter.

► **STRONG WELDS, TIGHT ROLLS** -

The Purlin Glide FP fabric is laser aligned and vacuumed into place prior to being hot-air compression welded. Precision winding results in square, tight and easy to unwind rolls.



◀ **TENSILE STRENGTH TESTING** - Silvercote conducts daily testing on actual production samples of welded Purlin Glide FP fabric to ensure your safety. Extensive drop testing has been performed to determine the actual failure point of the welded seam. Production samples must exhibit a seam strength of more than double the noted failure strength to meet our standards and be considered acceptable for use in a Purlin Glide FP system.





# PRODUCT SPECIFICATIONS

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**ROOF DESCRIPTION:** Acceptable system shall be the Purlin Glide FP system manufactured by Silvercote, with a pre-installed R-value of \_\_\_\_\_ and a thickness of \_\_\_\_\_ inches. Roof system shall be a single or a double (select one) layer system. It is important to consider the roof type (standing seam or screw down) and clip height if installing a double layer system.

**WALL DESCRIPTION:** Acceptable system shall be the Purlin Glide FP system manufactured by Silvercote, with a pre-installed R-value of \_\_\_\_\_ and a thickness of \_\_\_\_\_ inches.

**System components shall meet the following minimum specifications:**

**EQUIPMENT:** Dispensing device shall be Purlin Gliders as provided by Silvercote. These machines consist of a lightweight, welded steel frame weighing approximately 50 pounds that dispense the fabric when advanced by rooftop workers.

**INSULATION:** Shall be fiberglass blanket insulation meeting ASTM C 991 (unfaced) and ASTM E 136, or other insulation form as may be recommended and submitted by Silvercote and approved by the architect during submittals. Fiberglass blanket is rated FHC 25/50 with a flame spread rating of 25 or less and a smoke developed of 50 or less as tested in accordance with ASTM E 84. Pre-installed R-value will vary depending on customer requirements.

# FABRIC SPECIFICATIONS

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**PURLIN GLIDE FP** fabric is cross-woven reinforced high-density polyethylene yarns coated on both sides with a continuous white or colored polyethylene film. This material is manufactured in custom-fit rolls by hot-air compression welding. Rolls are fabricated to fit the building's secondary steel layout and allow for rapid installation.

The standard color is white; however, additional colors are available on a non-standard basis (minimum order size and lead time will vary). Purlin Glide FP fabric can be cleaned with a mild dishwashing detergent; chemical cleaners should be avoided.

<b>Coating Thickness</b>	1.75/1.1 mil average
<b>Weight</b>	3.4 oz. per square yard
<b>Tensile Strength</b>	115 lbs. warp x 65 lbs. weft (ASTM D 5034)
<b>Tongue Tear</b>	22 lbs. warp x 18 lbs. weft (ASTM D 2261)
<b>Puncture Resistance</b>	43 lbs. (ASTM D 4833)
<b>Permeance</b>	0.02 (ASTM E 96 A&B)
<b>Light Reflectance</b>	>80% (ASTM E 1347)
<b>Mullen Burst</b>	165 psi (ASTM D 3786)
<b>Flame Resistance</b>	Flame Spread - 10 Smoke Developed - 30 (ASTM E 84 & UL 723)
<b>UV Weathering</b>	UV stabilizers added for extra protection

**Note:** These are manufacturer supplied property values and are intended as guides only. The figures listed do not represent specification minimums or limits.

The Purlin Glide FP system provides OSHA-compliant leading edge fall prevention when installed according to the manufacturer's specifications by a Silvercote certified installing contractor. See Silvercote's Purlin Glide FP Contractor Agreement for complete details.





# INSTALLATION INSTRUCTIONS

**NOTICE:** The following is meant to provide a general understanding of the Purlin Glide FP system. These instructions are not complete and should not be relied solely upon to install the Purlin Glide FP system. Before relying upon the Purlin Glide FP system for leading edge fall prevention, installers must successfully complete our online certification course located at: [silvercote.com](http://silvercote.com).

**STEP 1:** Choose the preferred start-up method for your project. **Method 1** - start up the system close to the end wall working from the exterior of the building. **Method 2** - start up the system 8'-10' in from the end wall by working from the interior of the building. Next, place all of the Purlin Gliders and fabric rolls on the roof by referencing the included Purlin Glide layout sheet. The layout sheet must be followed precisely for the system to perform as designed and provide leading edge fall prevention. **Note: During the set up process, the Purlin Glide FP system does not provide leading edge fall prevention - an alternative means of fall protection must be used.**

**STEP 2:** Starting with the lead rolls, deploy enough fabric so that it will overhang the end wall by 6"-8". Next, lower the Purlin Glider fabric brake to prevent the fabric from spooling free. Beginning in the center of the rolls, pull the fabric taught and secure to the rake angle using the supplied two-sided tape. Screws with washers should also be used in windier conditions for additional anchoring support. Next, repeat this procedure for the trail rolls.

**STEP 3:** Advance the Purlin Gliders. Begin with the lead fabric rolls. A fabric roll 17' or wider requires the use of three Purlin Gliders and three crew members to advance the fabric roll. Insert the push poles into the Purlin Glider and release the fabric brake. Advance the roll approximately 12'-15'. Once all the lead fabric rolls have been advanced and the fabric is taught, follow the same procedure for the trail rolls. **Note:** Always leave a distance of 1' between the lead and trail rolls so the trail roll, like the lead, can be pushed taught.

**STEP 4:** Secure the fabric to the eave of the building.

The extra fabric that is overlapping the eave should be rolled into a strip approximately 1 ½" wide and secured to the top of the eave strut with a screw and washer every 24" to 30" for the entire length of the building. Use caution not to allow the Purlin Glide FP fabric to interfere with the closure designed by your metal building manufacturer.

**STEP 5:** Install the unfaced insulation. Depending on the R-value, the insulation will be installed as a single layer system with the insulation perpendicular to the purlins, or a double layer system, with the lower layer of insulation installed parallel to the purlins. This layer will be cut down so that it will lay down within the secondary steel space. The upper layer of insulation can then be installed above the lower layer, perpendicular to the purlins.

**STEP 6:** The Purlin Glide FP system will need to be shut down in the event of inclement weather, at the end of the work day, or any time the job site will be unattended for an extended period of time. Proper system shut down ensures the unfaced insulation remains dry and keeps the fabric secure in the event of windy conditions. To properly shut the system down, install insulation and secure the last run of roof sheets as close to the trail fabric rolls as possible. Next, with a person on each Purlin Glider, lift up on the glider to release the purlin brake and roll the assembly onto the roof deck. Once all trail rolls have been rolled back, repeat this process for the lead rolls. **Note: The Purlin Glide FP system does not provide leading edge fall prevention during the shutdown process; you must rely on an alternative means of fall protection.**

**STEP 7:** To re-start the system, roll the lead fabric rolls forward, followed by the trail rolls. Make sure the rear guides and purlin brakes are properly locked back onto the purlin or bar-joist before beginning another push out. **Note: The Purlin Glide FP system does not provide leading edge fall prevention during the re-start process and the user must rely on an alternative means of fall protection.** Fall prevention is re-established once all fabric rolls are a minimum of 6' in front of the last secured run of roof sheets.



**A more detailed instruction manual is available for download at [silvercote.com](http://silvercote.com).**

**STEP 8:** In the event the building is too long to complete with one continuous roll of fabric, the rolls will have to be spliced together. Splices will typically be done above a frame. The splice location will be identified on the provided layout sheet. To make the splice, the ending fabric roll and the new fabric roll are joined above the designated frame using a Purlin Glide FP splice strip and two-sided tape.

**Note: The Purlin Glide FP system does not provide leading edge fall prevention during the splice process.** Leading edge fall prevention is not re-established until the new fabric rolls have been properly spliced in, a run of roof sheets have been secured on top of the splice, and the fabric rolls have been advanced a minimum of 6' beyond the last run of secured roof sheets.

**STEP 9:** To complete installation of the Purlin Glide FP system, advance the lead rolls to within one foot of the endwall, followed by the trail rolls. Once all Purlin Gliders are near the rake angle, install roof panels up to the back of the trail fabric rolls. Lock all fabric brakes in the open position and reconnect the clamps. Remove the tension rollers, roll guides and the used fabric rolls from the Purlin Gliders and set the fabric roll down directly ahead of the leading edge of the roof. With all the chains still attached, disengage the clamps and bring the Purlin Gliders back onto the roof deck and place them at a safe distance behind the roofing crew. Manually finish the roof by applying the two-sided tape to the rake angle. Cut the fabric free of the core leaving enough fabric to extend 2 feet beyond the endwall. Attach the fabric to the two-sided tape. Do not drop the remainder of the fabric rolls off the end of the building. **Note: Purlin Glide FP provides fall prevention at the leading edge only and is only one component of a total fall protection plan for the job. Once you are within six feet of the end of the roof, the Purlin Glide FP system will no longer provide leading edge fall prevention.** When roofing the last six feet, and during the removal of the fabric rolls and Purlin Gliders from the roof, an alternative means of fall protection must be employed.

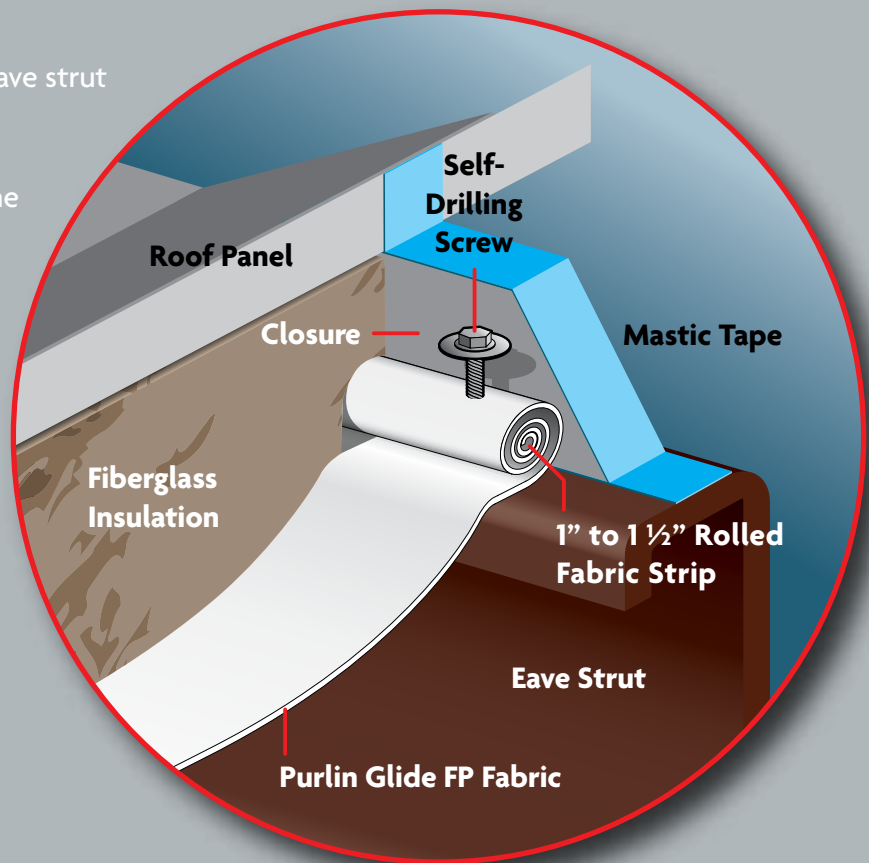
**STEP 10:** The 12" fabric overlap that is required for leading-edge fall prevention needs to be trimmed off prior to, or upon completion of, your Purlin Glide installation. If trimming progressively as the roof is being installed, be sure not to trim the fabric overlap beyond the last secured roof panel. Trim the fabric as close to the secondary steel as possible using a Silvercote-supplied letter opener or hook-blade utility knife.

**STEP 11:** Call Silvercote at (864) 297-6101 to notify us of completion of your project or contact your local Silvercote Sales Representative. We will make arrangements for the Purlin Glide FP equipment to be picked up, typically within 72 hours. There is no paperwork necessary. Purlin Gliders and other equipment must be properly palletized and loaded when the truck arrives.

# FABRIC ATTACHMENT TO EAVE

## SECURING THE PURLIN GLIDE FP FABRIC TO THE EAVE STRUT PROPERLY:

- Roll the overlap of fabric that extends past the eave strut into a strip 1" to 1½" wide.
- Secure rolled fabric to the top of the eave strut using a self-drilling screw with washer.
- Fabric must be secured to the top of the eave strut every 24" to 30".
- Insulation blanket should be laid so that it extends onto the eave strut.
- Be sure to follow your metal building manufacturer's recommended eave closure procedure. Do not allow the Purlin Glide FP fabric to interfere with that procedure.





# QUESTION AND ANSWER

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- ▶ **WHAT IS THE MAXIMUM ROOF PITCH ON WHICH PURLIN GLIDE FP CAN BE USED?** 4:12 for single layer systems and 2:12 for double layer systems.
- ▶ **WHERE CAN I FIND MY PURLIN GLIDE FP LAYOUT SHEET?** Inside the designated glider box which also contains a jobsite copy of the order acknowledgement.
- ▶ **HOW MANY CREW MEMBERS DO I NEED TO USE THE PURLIN GLIDE FP SYSTEM?** On a typical job, the maximum number of gliders per fabric roll is 3. You will need at least 3 crew members on the roof to advance the fabric rolls.
- ▶ **WHAT EQUIPMENT DO I NEED ONSITE TO PROPERLY START UP THE SYSTEM?** Screw guns, telescoping or scissor lift or appropriate scaffolding.
- ▶ **ONCE I START SETTING UP THE SYSTEM, HOW LONG WILL IT BE BEFORE I AM READY TO BEGIN ROOFING?** It depends on the size of the job and how many crew members participate in the set up process. A 100' wide building can typically be set up and ready to begin roofing in 2-3 hours with 4 crew members.
- ▶ **HOW DO I RETURN MY PURLIN GLIDE FP EQUIPMENT?** Call Silvercote (864) 297-6101. Allow 1-2 days notice to schedule a pick up. Once scheduled, the pick up will typically be made within 24 hours.
- ▶ **WHAT DRAWINGS MUST BE SUPPLIED TO SILVERCOTE WHEN ORDERING THE PURLIN GLIDE FP SYSTEM?** We need the detailed steel erection drawings that contain the roof framing plan and building cross sections. Architectural drawings are not acceptable.
- ▶ **AS A FIRST TIME USER OF THE PURLIN GLIDE FP SYSTEM, WHAT KIND OF INSTALLATION RATE CAN I EXPECT TO GET?** This is the most commonly asked question, and one that is difficult to answer as it is highly dependant upon the skill and cooperation of the roofing crew. Typically, labor should not exceed that required to install standard faced metal building insulation while using other means of fall protection. With a small amount of experience, Purlin Glide FP installation rates should be considerably faster.
- ▶ **MY BUILDING REQUIRES THE USE OF STEEL BANDING ON TOP OF THE PURLINS – WILL THIS INTERFERE WITH THE PURLIN GLIDER?** It will interfere with the glider but we have highlighted techniques in the online training video that allow you to jump the banding with minimal loss to installation time. When possible, do not pre-install the banding, but instead install it on top of the fabric as you are roofing.
- ▶ **WHEN ORDERING THE PURLIN GLIDE FP SYSTEM, DO I NEED TO DECLARE ANY FRAMED OPENINGS OR ROOF TOP UNITS?** Yes. Rooftop units (RTU's) and framed openings not shown on the framing plan should be conveyed to Silvercote. All attempts will be made during the system design to avoid having a Purlin Glider in those areas but, in some cases the glider will have to be lifted up and over that area. Where possible, cut all RTU's in after the roof has been installed or the fabric has been advanced beyond that area.

- ▶ **TO USE THE PURLIN GLIDE FP SYSTEM, ARE THERE ANY DOCUMENTS THAT NEED TO BE SIGNED?** Yes. Every contractor that purchases the Purlin Glide FP system and intends to rely upon it for fall prevention, must complete the Purlin Glide FP Contractor Agreement. These will be presented by your Sales Representative and must be completed and submitted before we can begin production of your system.
- ▶ **IS THERE ANY TRAINING NEEDED TO INSTALL PURLIN GLIDE FP AS FALL PREVENTION?** Yes. Installers of the Purlin Glide FP system must complete our online certification course for the system to provide leading edge fall prevention. Training can be obtained at [certification.silvercote.com](http://certification.silvercote.com).
- ▶ **IS IT TRUE THAT SILVERCOTE WILL ALSO SUPPLY A PURLIN GLIDE FP SITE TRAINER?** Yes. For your first Purlin Glide FP installation, we will provide a site trainer free of charge. The trainers' primary purpose is to help your crew set up and adjust the Purlin Gliders on the roof, verify the fabric rolls and Purlin Gliders are installed in the correct locations, and answer any additional questions your installers may have. The length of time they will be on site depends on the size of your job but typically ranges from 1-½ to 2 days.
- ▶ **WHERE CAN I FIND THE COMPLETE DETAILED INSTALLATION INSTRUCTIONS?** You can obtain the complete installation instructions by viewing the Purlin Glide FP training video at [certification.silvercote.com](http://certification.silvercote.com) or by downloading the Purlin Glide FP Installation Manual at [silvercote.com](http://silvercote.com).
- ▶ **CAN PURLIN GLIDE FP FABRIC BE PAINTED?** We do not recommend painting Purlin Glide FP fabric. The paint may adversely affect the properties of the fabric and over time may peel or flake off. Additionally, if structural steel is to be painted, we recommend doing so prior to installing the Purlin Glide FP system.



# UNFACED INSULATION BLANKET

## DESCRIPTION

Silvercote’s unfaced fiberglass insulation is a light density blanket of fiberglass. Its purpose is to add to the structure’s thermal performance as a backfill insulation in the Purlin Glide FP system.

The recovered R-values of Silvercote’s unfaced fiberglass insulation products are guaranteed prior to installation. For complete warranty details visit [silvercote.com](http://silvercote.com).

## AVAILABLE PRODUCTS

R-Value	Nominal Thickness	Widths
R-8	2 ½”	36”, 48”, 60”, 72”
R-10	3”	36”, 48”, 60”, 72”
R-11	3 ½”	36”, 48”, 60”, 72”
R-13	4”	36”, 48”, 60”, 72”
R-19	6”	36”, 48”, 60”, 72”
R-20	6”	36”, 48”, 60”, 72”
R-25	8”	36”, 48”, 60”, 72”
R-28	8”	36”, 48”, 60”, 72”
R-30	9 ½”	36”, 48”, 60”, 72”

Tolerances subject to normal manufacturing variations.

## TECHNICAL DATA

<b>Fire hazard Classification*:</b>	Flame Spread<5    Smoke Developed <20
<b>Corrosion Resistance:</b>	Will not accelerate corrosion of steel or copper.
<b>Resistance To Fungi And Bacteria:</b>	Does not breed or promote fungi or bacteria growth.
<b>Odor:</b>	Commercially odorless.

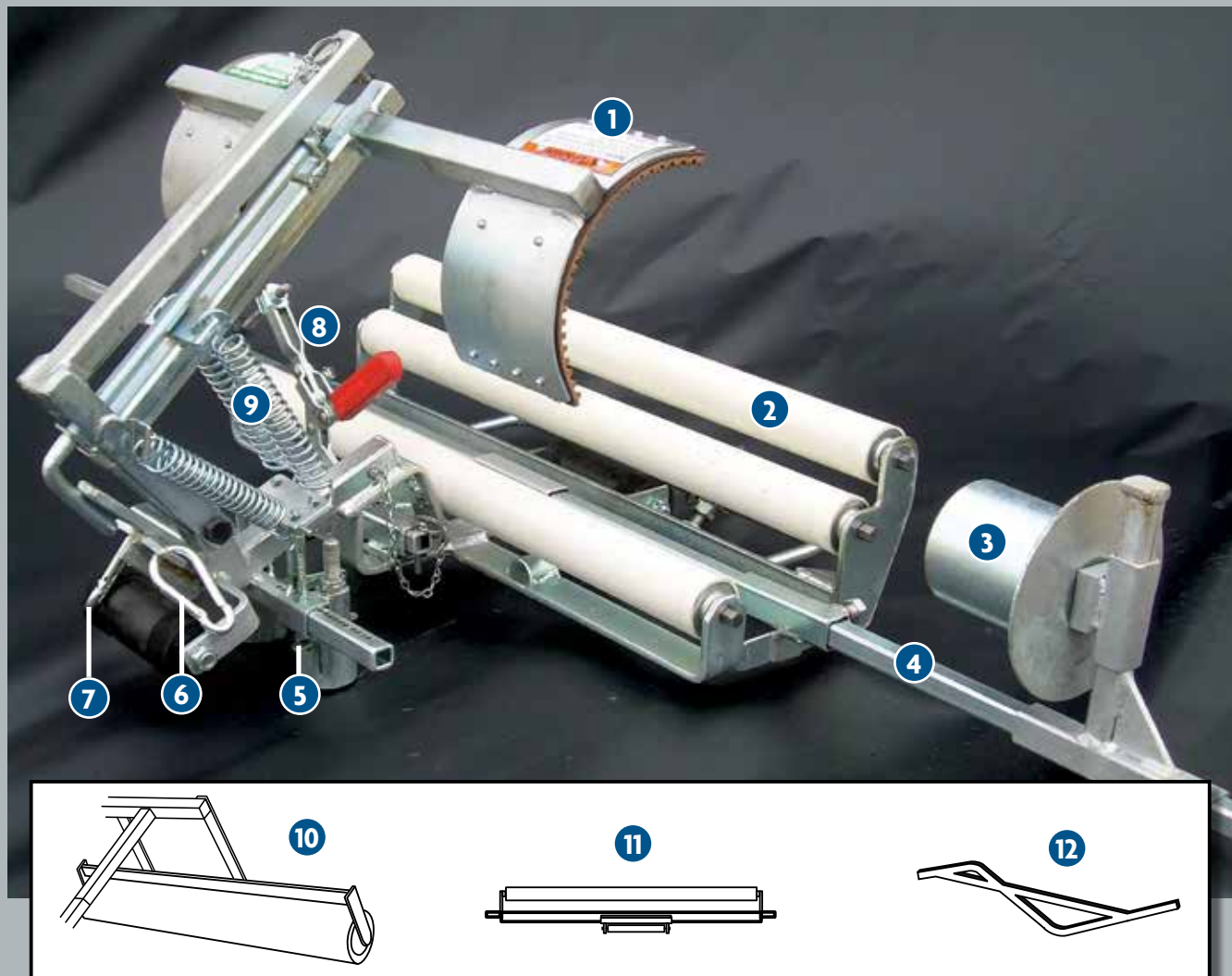
\*The above flame spread rating was determined in accordance with ASTM E 84. This standard is used solely to measure and describe properties of materials and products in response to heat and flame under controlled laboratory conditions. This numerical flame spread is not intended to reflect hazards presented by this material under actual fire conditions. Results are reported to the nearest five rating.

## COMPLIANCE AND SPECIFICATION DATA

- ASTM E 84
  - Surface Burning
- ASTM C 653
- ASTM E 136
- ASTM C 553
- ASTM C 665 Type I
- ASTM C991



# PURLIN GLIDER PARTS



- |                       |                       |                               |                               |
|-----------------------|-----------------------|-------------------------------|-------------------------------|
| <b>1</b> Fabric Brake | <b>4</b> Extension    | <b>7</b> Front Roller         | <b>10</b> Tension Roller      |
| <b>2</b> Roller       | <b>5</b> Purlin Brake | <b>8</b> Clamp                | <b>11</b> Trail Roll Cradle   |
| <b>3</b> Roll Guide   | <b>6</b> Carabiner    | <b>9</b> Fabric Brake Springs | <b>12</b> Push Pole Z Adapter |

U.S. Patent Numbers  
 6,247,288 · 6,308,489 · 6,393,797  
 6,595,455 · 6,705,059



[silvercote.com](http://silvercote.com)



**Please contact your Silvercote Sales Representative  
for more information at (844) 232-3701 or [info@silvercote.com](mailto:info@silvercote.com)**