

Superior Gutter Guard Installation Procedure

Overview

To get the best performance from your Superior Gutter Guards, there are several factors and installation techniques to consider before installing. These Procedures will cover all that is required to get the best performance from your Superior Gutter Guards. The better the DIY installer does in getting the installation factors correct, the better the performance your Superior gutter guards will be.

Safety

When installing Superior, always make Safety your top priority, use your ladder, tools and equipment correctly.

Tools

1. Rechargeable Drill



(1/2' Self Tapping Hex Screws and Magnetic Nut Setter).



Metal cutting snips (Tinner & Aviation types)



2. Silicone Caulking, Clear, 100% (GE brand, 4 oz tube)



3. Ladders with a Ladder Stabilizer (highly recommended)

4. Clean work area Worktable or Bench.

Optional Tools: 2" putty knives, work gloves, 2" paint brushes and a gutter scoop.



Preparing Gutters

Begin by cleaning out all debris from your gutters including your downspouts. Make any required repairs to your gutters including making sure to seal all gutter seams. Products like Geocell 2320 or Seamer Mate 85148 are recommended for sealing gutters. We recommend using a cleaner like Windex or 409 to clean the outsides of your gutters. Make sure that your gutters are completely dry before applying any sealant.

Installation Under the Shingle

Under the Shingle is where the rear Rail of the gutter guard slides under the roof shingle and on top of the moisture barrier (or tar paper). The rear rail guard is supported by the roof deck, the front rail guard is attached to the front lip of the gutter, use the Magnetic Nut Setter to fasten the Self-tapping Hex screw to fasten the guard. Typically, the angle of the guard is enough to allow debris to "naturally self-clean" when using this method. There are techniques to adjust the guard angle to the "best" angle.

Performance Factors and Determining the Ideal Target Angle to use for your specific roof and gutter conditions:

There are 4 factors/criteria for a gutter guard to have top performance.

1. ANGLE (or slope) of both the gutter guard and the roof.
2. Roof Shingle MATERIAL (metal, tile, asphalt, wood, etc.).
3. Distance (length from gutter to the ridge top).
4. RUN (amount) of water (rainfall).

Install as close to the “ideal target angle” as possible. The recommended install angle (the target angle) will ensure the best performance under high water condition. If these “Ideal/best” or “better” angles are not possible, install as close as you can, to the target angle.

Basic Installation Guidelines

- Determine the **ideal target angle** or best angle to use for the product, install as close as possible to this target angle.
- It is **Not** recommended to install gutter guards flat, as debris will not be able to be pushed off by the wind and rainfall.
- It is recommended to install the inside and outside corners first, then filling in the straight sections in between those corners.

How to do a Straight, Inside and Outside cut, on Superior

Straight cut: Using tin snips:

1. Draw a Straight line across the entire Gutter Guard.
2. Cut front Rail first.
3. Cut back Rail second.
4. Cut the mesh screen to finish.

Inside corner cut: Using tin snips:

1. Draw a line at the desired angle across the entire Gutter Guard.
2. Cut front Rail at the desired angle first.
3. Cut back Rail at the desired angle second.
4. Cut the mesh screen to finish.

Note: that when flat, a 45 degree is used, but as the slope increases, the cut angle on the gutter guard **DECREASES**.

Example: on a 4/12 pitch roof, cut at a 43-degree angle. This allows the gutter guard rail to move closer together keeping a good seal while the roof angle decreases.

Outside corner cut: Using tin snips:

1. Draw a line at the desired angle across the entire Gutter Guard.
2. Cut front Rail at the desired angle first.
3. Cut back Rail at the desired angle second.
4. Cut the mesh screen to finish.

Note: that when flat, a 45 degree is used, but as the slope increases, the cut angle on the gutter guard **INCREASES** as well. **Example:** on a 4/12 pitch roof, cut it at a 48-degree angle. This allows the gutter guard rail to move farther apart keeping a good seal while the roof angle increases.

Straight run installs under the shingle method:

1. Using the 2” putty knives, slide under the roof shingle and on top of the Moisture Barrier. **Take special care not to Damage or Cut the moisture barrier.**
2. Install the rear rail under the shingle and on top of the moisture barrier.
3. Pull the product forward allowing the front lip of the guard to meet up with the front lip of the gutter.
4. Fasten, using both a Magnetic Hex Driver and self-tapping hex ½” screws.
5. Install a small silicone bead to seal the end mesh.

Use the Fascia Install Method in the following situations:

1. Heavy Stormy Areas:
Buffalo, New York, New Orleans and Miami, among others, all sit high in the ratings for stormiest cities in the USA. Go to www.weather.gov to check out your area.
2. Asphalt shingles may be glued to the roof, this type of roof should not be lifted, it will damage the roof.
3. Metal, concrete and Spanish tile roofs can be very difficult to lift and slide Superior gutter guards between the roof and moisture barrier.
4. If the rain gutter is installed an inch or more below the roof, that would lead to a steep angle and the water would just run over the gutter guard onto the ground.

The fascia method requires bending the Superior Gutter Guard (Up or Down) along the entire length of the fascia, attaching the gutter guard to the back edge of the fascia and not under the roof shingles. The bend can be up if the rain gutter is more than an inch below the roof, or it can be bent down if the rain gutter is installed less than an inch below the roof.

Bending Superior

1. Measure the rain gutter opening from the fascia to the inside edge of the rain gutter.
2. Make the measurement $1/8$ less than the actual length measured so if your measurement comes to 4" you would mark it at $3\ 7/8$ " giving you a $1/8$ " bend.
3. Mark the Gutter Guards at both ends with a sharpie.
4. Bending the mesh back allows the gutter guard to be installed on just about any gutter and roof configurations. All you need are two 1" x 2" boards 6ft. long and 4 clamps. When choosing a board, get a board that has a square edge, instead of a round edge. A square edged board will put straight creases in the mesh when you bend it.

End cap installation

There are several ways to cap the ends.

1. Cut 2 inches off both the front and back Rail, leaving you with an extra 2 inches of mesh, then fold the mesh downward so it's flush with the endcap, then seal the gap with silicone.
2. Or you can choose to, bend up the endcaps top ridge of the gutter, fold the mesh downward so it sets flush on the endcap, then seal the gap with silicone.

Note: The best results for endcap installs is to not have a gap at all, seal up all gaps with silicone. This will stop bees, wasps and other insects from nesting in your gutters.

If you need further assistance, Visit our website at www.superiongutterguards.com.

Thank You.