



## OVERVIEW

Duragutter is an engineered system with easy to follow, step-by-step instructions.

Installers must review both this installation guide and the [installation videos](#) prior to installation.



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## Specialized Tools Required for Installation

- 12" sliding compound miter saw with minimum 80 tooth blade
- Bar clamp (minimum 5 1/2" throat depth) and miter clamp - we can include both in your order
- 7/16" drill bit
- 2 1/2" or 2 3/4" carbide hole saw (for 3" round outlet) or jigsaw with metal cutting blade (for rectangular outlets)

## General Installation Notes

1. Plan the work sequence. Always make inside miters before outside miters.
2. Use only glues and sealants supplied or approved by Duragutter. Do not allow glue or sealant to freeze.
3. When working with short lengths, it may be easier to assemble joints at waist level and then lift the assembled unit into place.
4. Use eye and ear protection when cutting Duragutter. Use dust collection or cut over a tarp or sweepable surface.

## Expansion Joints

Aluminum expands and contracts as a function of temperature. Yearly temperature ranges vary per climate zone. **Use the chart below** to determine expansion gaps at butt joints for your location. For example, New York City has a temperature range of approximately 80° F from low to high.

**If gutters are installed at the high end of the temperature range**, use minimal expansion gaps for dark colored gutters and do not use expansion gaps for light colored gutters.

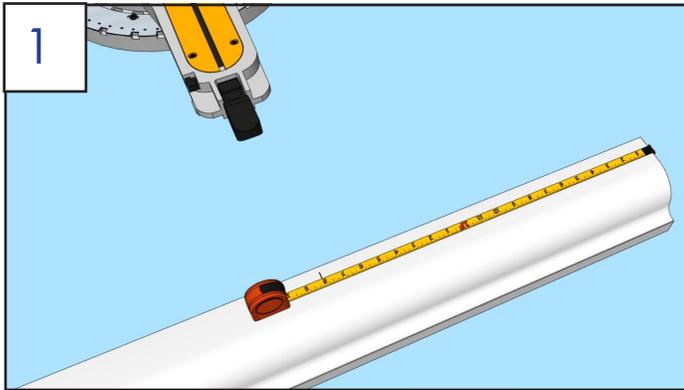
The provided sealing tape is designed to absorb movement and is essential to the watertightness of joints.

**Do not substitute other tapes or sealants.**

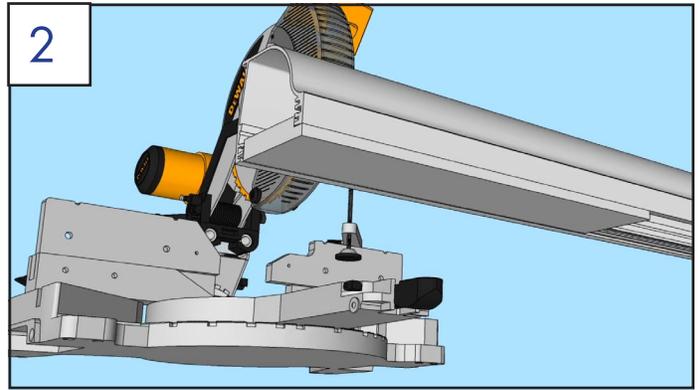
Yearly low to high temperature range (location specific)	<b>Light colored gutter:</b> Expansion gap per 26' run, at butt joints:	<b>Dark colored gutter:</b> Expansion gap per 26' run, at butt joints:
Under 40° F temperature range (stable year-round climate)	Not required	Not required
40° F temperature range	1/16"	1/8"
60° F temperature range	1/8"	3/16"
80° F temperature range	3/16"	5/16"

**NEXT: CUTTING DURAGUTTER**

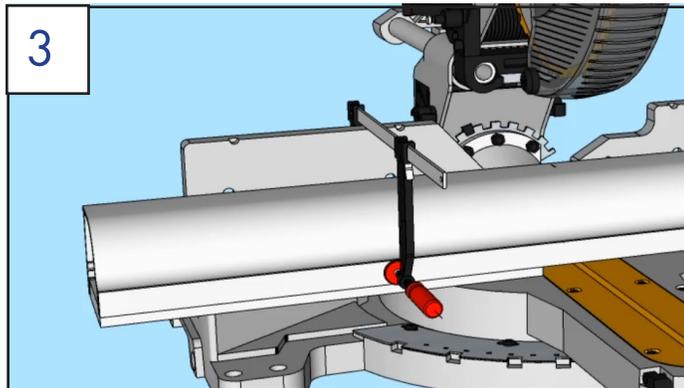
## Cutting Duragutter



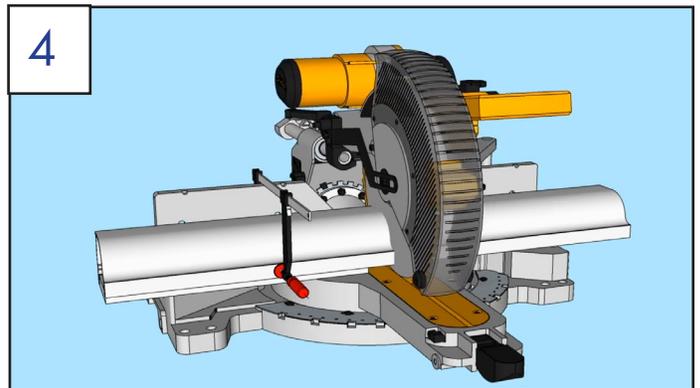
- Use a 12" sliding miter saw with a minimum 80 tooth blade.
- Measure and mark piece.



- Cut gutter upside down with front facing forwards.
- Insert supplied wooden block to raise front edge of gutter and prevent deformation of gutter shape when clamping.



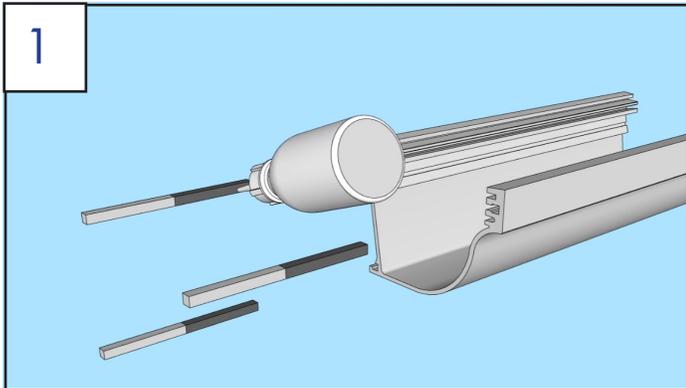
- Clamp front of gutter to saw fence - keep hands off gutter when cutting.
- To make a small piece, cut it off of a large piece. Do not try to clamp pieces smaller than 15".



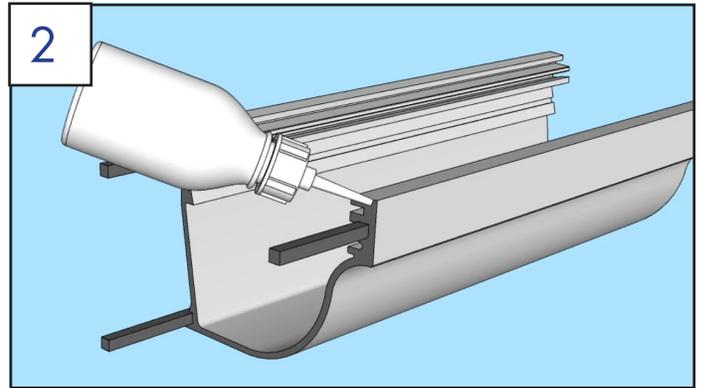
- Cut slow and steady - 10 seconds per cut. Fast cuts risk kickback and rough edges.
- Make miter cuts the same way. Ensure clamp is out of the way of the cut.

NEXT: JOINING STRAIGHT SECTIONS

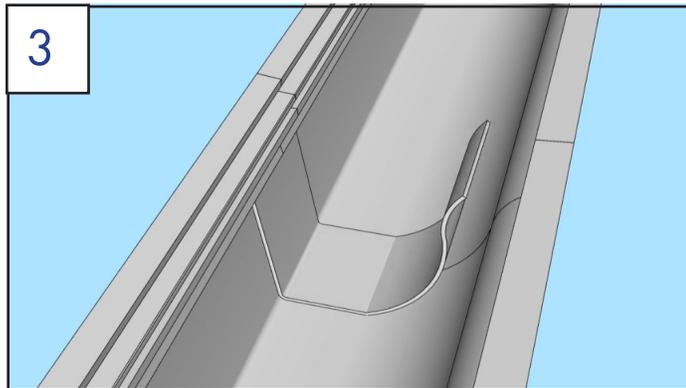
## Joining Straight Sections (Butt Joints)



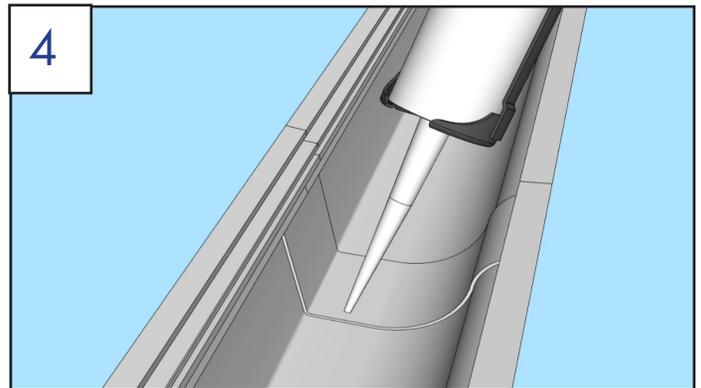
- Test fit the joint to ensure accuracy before installing pins.
- Apply 2P-10 Adhesive to one half of 3 straight pins. Slide the pins halfway into the pin grooves on gutter.



- Apply 2P-10 Adhesive to other half of pins and the edge of one gutter. Slide joint together.
- Clean any excess glue from outside surface of gutter with acetone rag immediately.
- Before applying tape, ensure that gutter is clean and dry. Clean with acetone rag if necessary.



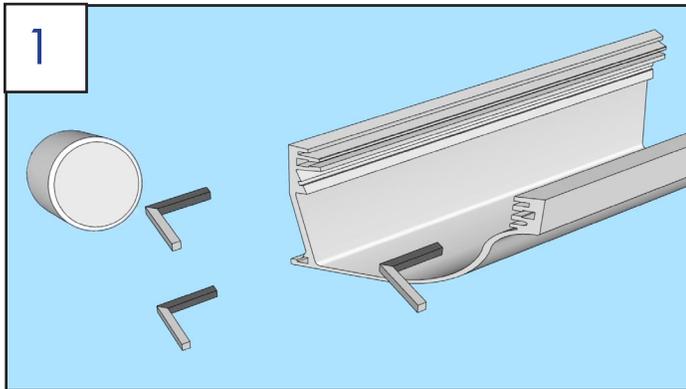
- Use tape labeled "BUTT JOINT".
- Apply pre-cut tape over joint. Peel a small amount of tape backing at a time, carefully stick tape, and apply pressure with fingers to remove any air bubbles.
- If temperature is below 35° F / 1.6° C, apply a small amount of 2P-10 Adhesive under edges of tape.



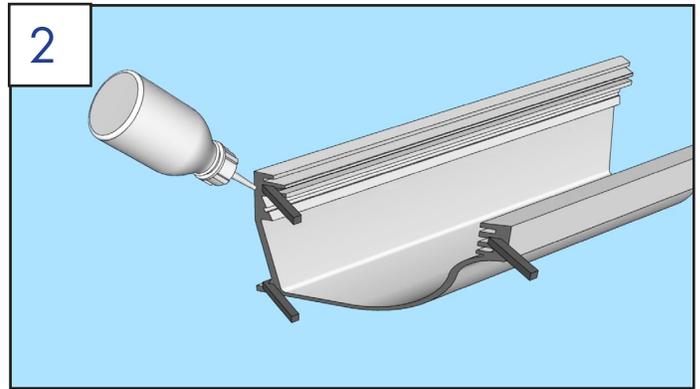
- Apply sealant in the grooves above the tape, and over the sides of the tape.

NEXT: INSIDE MITERS

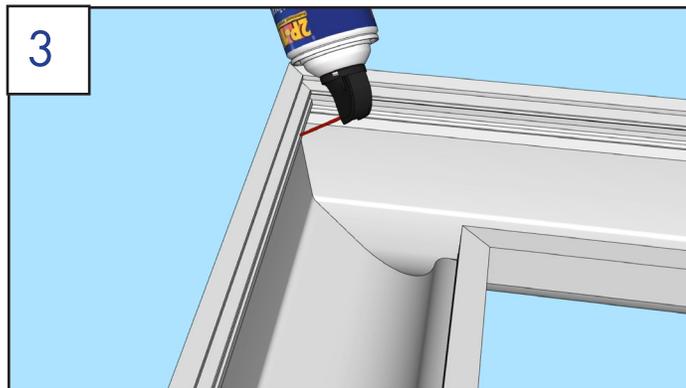
# Making Inside Miters



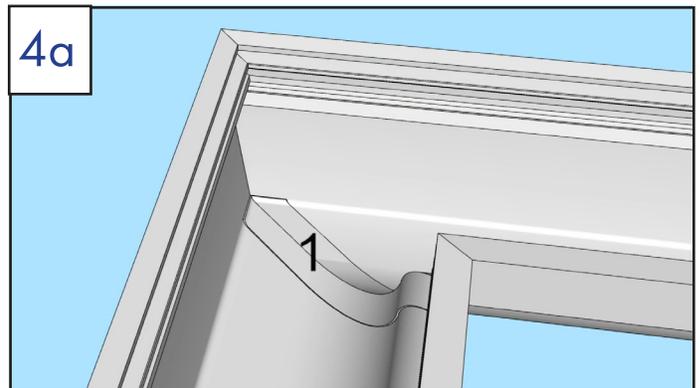
- Test fit joint to ensure accuracy before installing pins.
- Apply 2P-10 Adhesive to one half of 3 90° pins, and slide the pins halfway into the pin grooves on gutter.



- Apply 2P-10 Adhesive to other half of pins and the edge of one gutter. Slide joint together.
- Clean any excess glue from outside surface of gutter with acetone rag immediately.



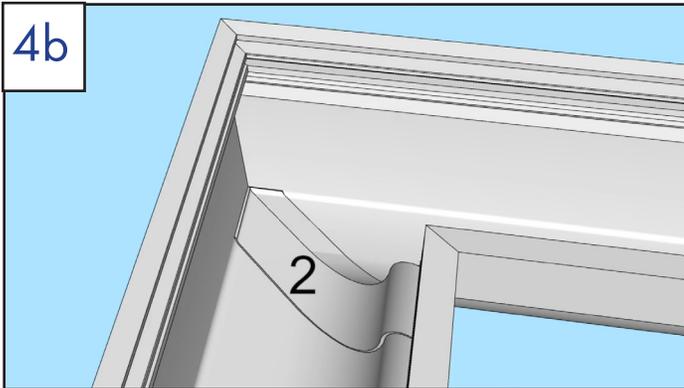
- Hold joint together and spray pins with 2P-10 Activator to instantly cure glue. If more working time is desired (approx. 5 mins), do not use Activator.
- Do not spray Activator on outside surface of gutter, as it can permanently stain the finish.
- Before applying tape, ensure that gutter is clean and dry. Clean with acetone rag if necessary.



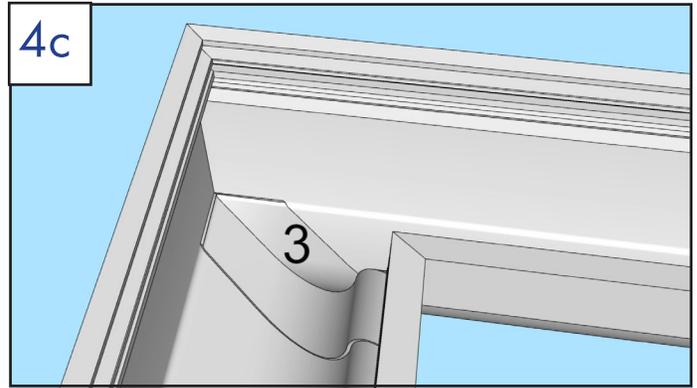
- Use tape kit labeled “INSIDE MITER”.
- Install 1st piece of tape starting at bottom corner.
- Peel a small amount of tape backing at a time, carefully stick tape, and apply pressure with fingers to remove any air bubbles.
- If temperature is below 35° F / 1.6° C, apply a small amount of 2P-10 Adhesive under edges of tape.

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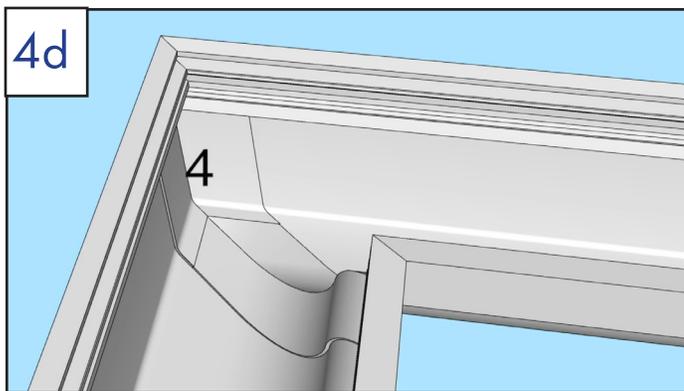
## Making Inside Miters (Continued)



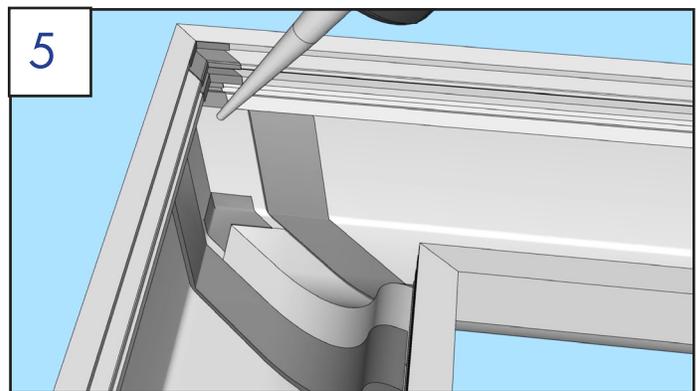
- Install 2nd piece of tape on left side of joint.



- Install 3rd piece of tape on right side of joint.



- Install 4th piece of tape on inside corner of joint, starting at the top.

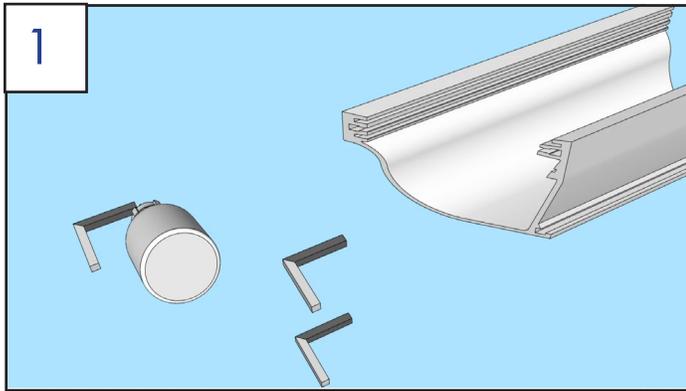


- Apply sealant as shown by shaded areas in illustration (in grooves above tape, over all tape edges).

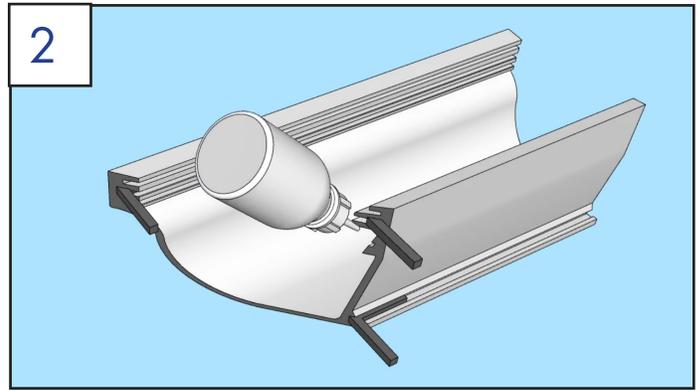
Send us a picture of your miter!  
781-862-0507 or [info@duragutter.com](mailto:info@duragutter.com)

NEXT: OUTSIDE MITERS

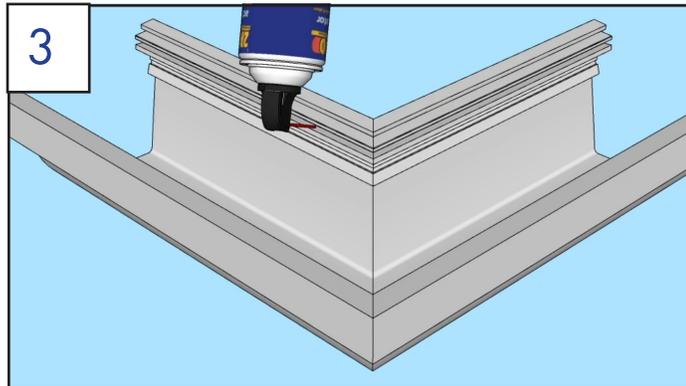
# Making Outside Miters



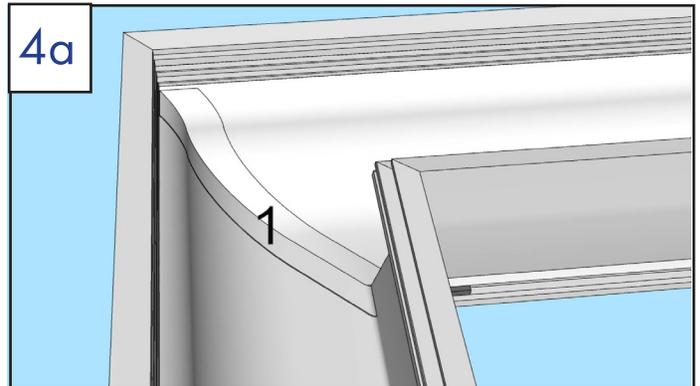
- Test fit joint to ensure accuracy before installing pins.
- Apply 2P-10 Adhesive to one half of 3 90° pins, and slide the pins halfway into the pin grooves on gutter.



- Apply 2P-10 Adhesive to other half of pins and the edge of one gutter. Slide joint together.
- Clean any excess glue from outside surface of gutter with acetone rag immediately.



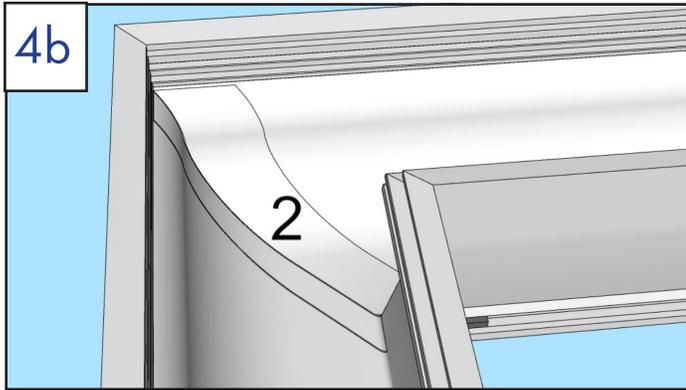
- Hold joint together and spray pins with 2P-10 Activator to instantly cure glue. If more working time is desired (approx. 5 mins), do not use Activator.
- Do not spray Activator on outside surface of gutter, as it can permanently stain the finish.
- Before applying tape, ensure the gutter is clean and dry. Clean with acetone rag if necessary.



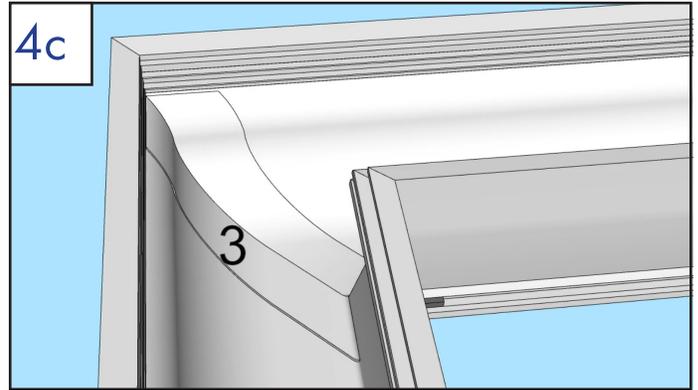
- Use tape kit labeled "OUTSIDE MITER".
- Install 1st piece of tape starting at bottom corner.
- Peel a small amount of tape backing at a time, carefully stick tape, and apply pressure with fingers to remove any air bubbles.
- If temperature is below 35° F / 1.6° C, apply a small amount of 2P-10 Adhesive under edges of tape.

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## Making Outside Miters (Continued)



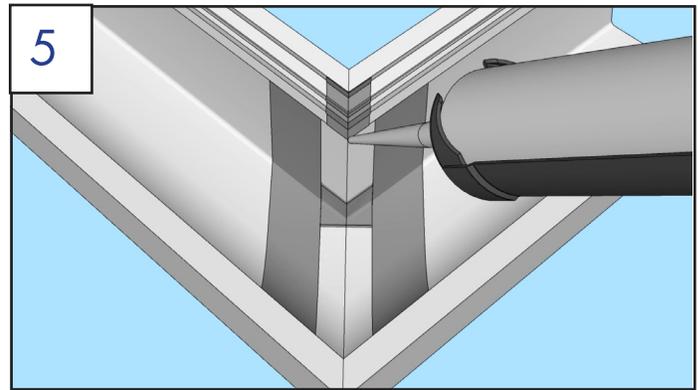
- Install 2nd piece of tape on right side of joint.



- Install 3rd piece of tape on left side of joint.



- Install 4th piece of tape on inside corner of joint, starting at the top.
- Smooth tape and apply pressure with fingers to remove any bubbles or wrinkles.



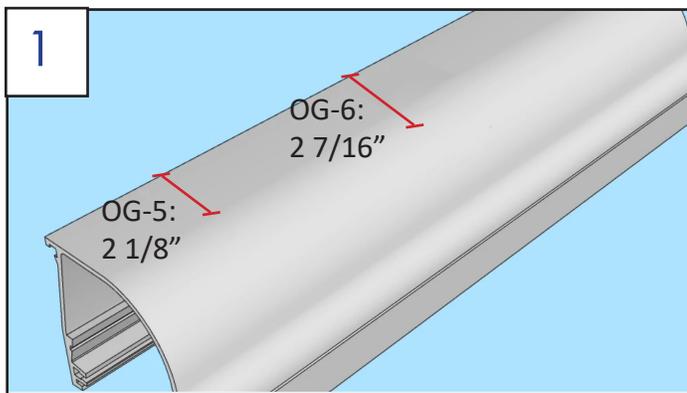
- Apply sealant as shown by shaded areas in illustration (in grooves above tape, over all tape edges).

### Question?

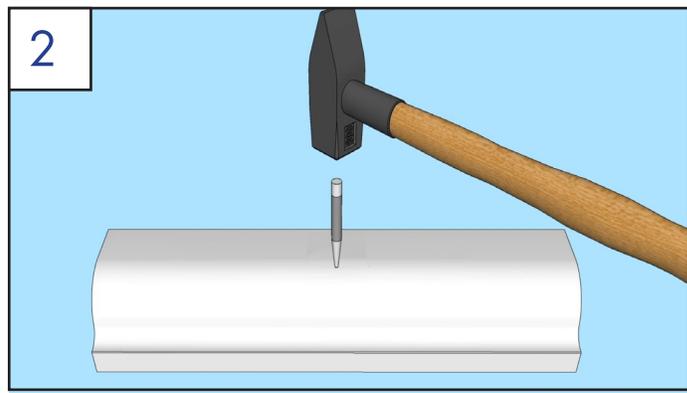
Give us a call at (781) 862-0507

NEXT: INSTALLING 3"  
ROUND OUTLET

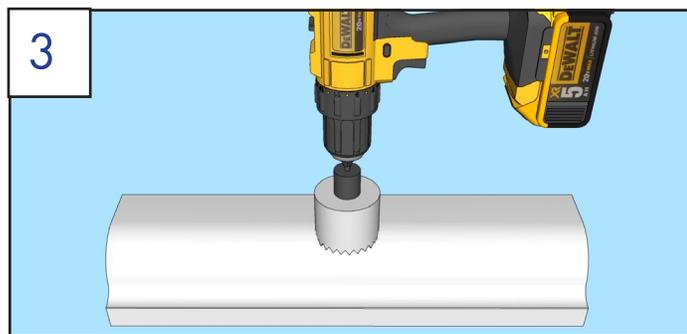
## Installing Outlet for 3" Round Downspout on OG-5, OG-6



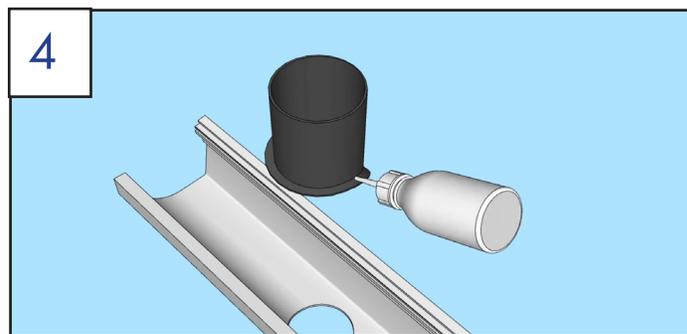
- Install outlets on the ground before installing gutter
- On OG-5, mark 2 1/8" from back edge of gutter
- On OG-6, mark 2 7/16" from back edge of gutter



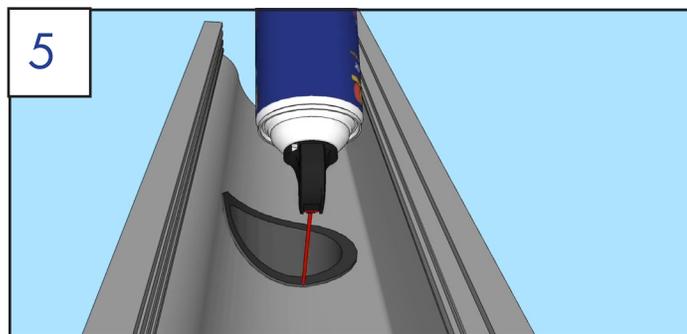
- Use center punch to mark center of hole.



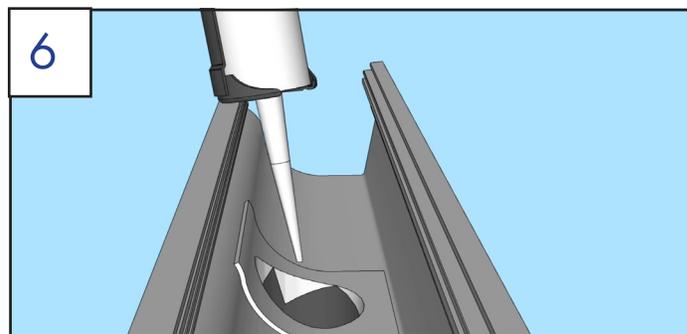
- On OG-5, drill hole with 2 1/2" carbide hole saw.
- On OG-6, drill hole with 2 3/4" carbide hole saw.
- **Hold or clamp gutter securely while drilling.**



- Remove any burrs on inside of hole with a file.
- Apply 2P-10 Adhesive to bottom lip of outlet and insert outlet in gutter.



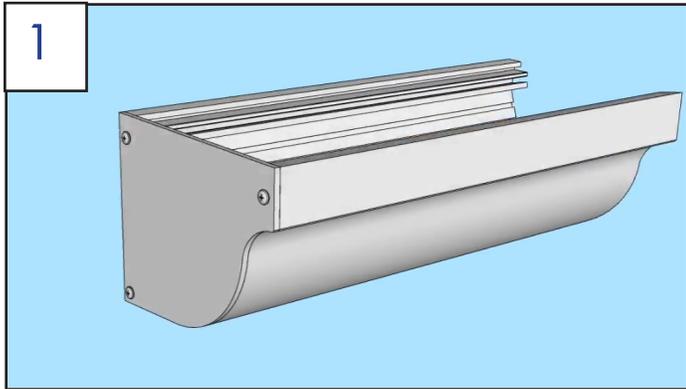
- Spray perimeter of hole with 2P-10 Activator.
- Before applying tape, ensure gutter is clean and dry. Clean with acetone rag if necessary.



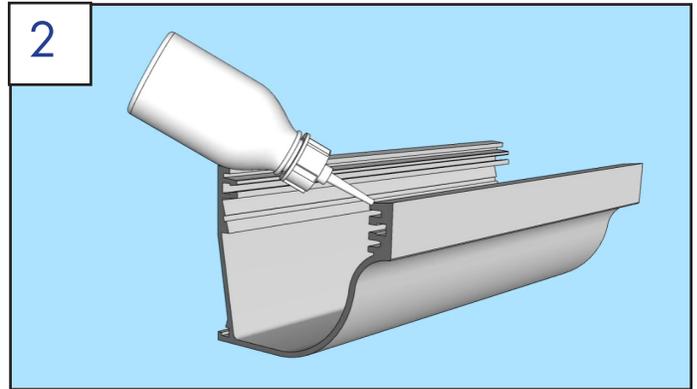
- Apply rectangular piece of tape over whole outlet, cut X in middle, and fold edges of tape into outlet.
- Apply Dicor sealant over edges of tape.

**NEXT: INSTALL END CAPS**

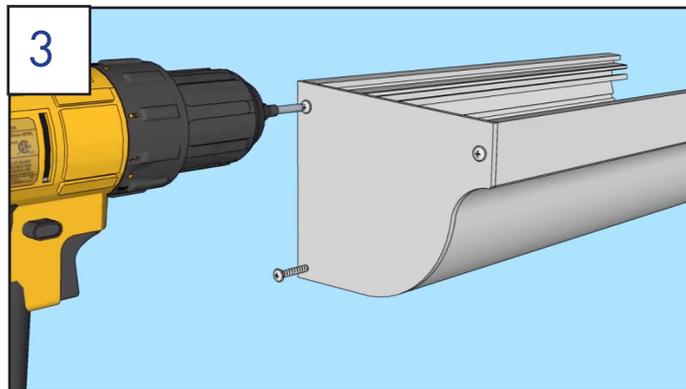
## Installing End Caps



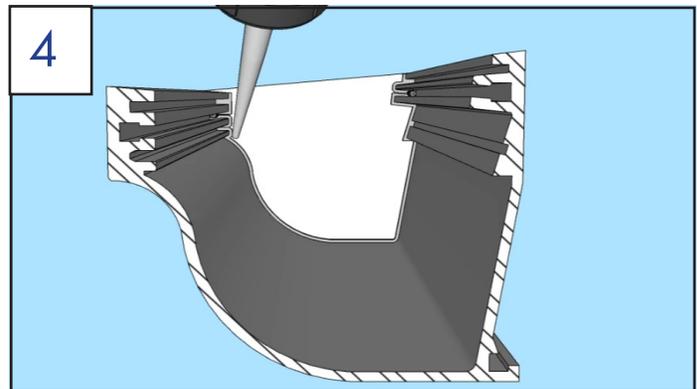
- $\frac{1}{8}$ " thick aluminum end caps are used where the end of a gutter is exposed. End cap screws are included with each end cap.
- They have countersunk holes on each side, so there are no "lefts" or "rights". They screw into the internal grooves in the gutter.



- Apply 2P-10 Adhesive to edge of gutter.



- Align end cap with gutter and press tight.
- Install 3 supplied screws in pre-drilled holes.

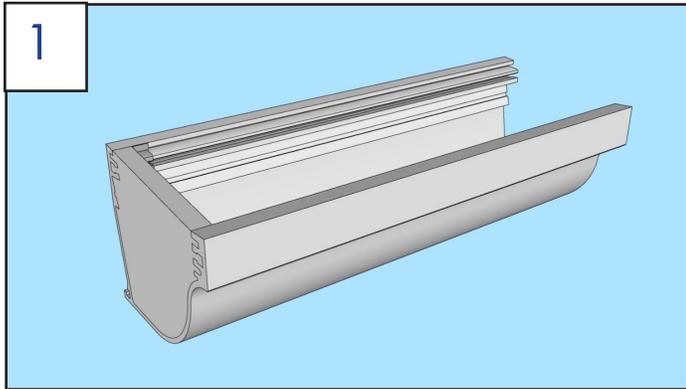


- Apply sealant to the inside of end cap, including in grooves in gutter.

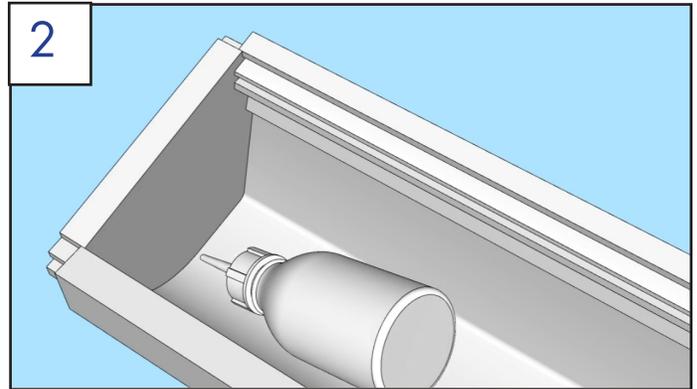
Send us a photo of your install!  
781-862-0507 or [info@duragutter.com](mailto:info@duragutter.com)

NEXT: INSTALL  
INTERNAL PLUGS

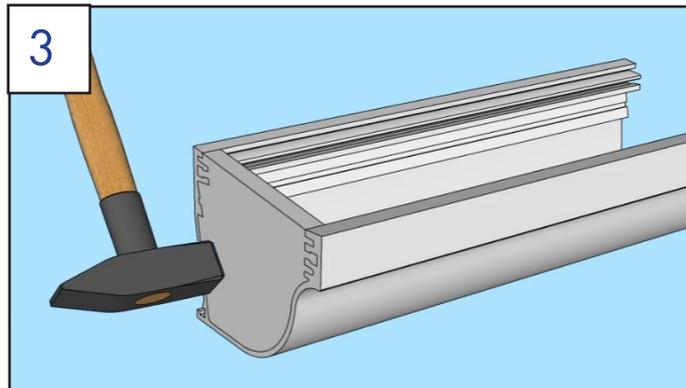
## Installing Internal Plugs



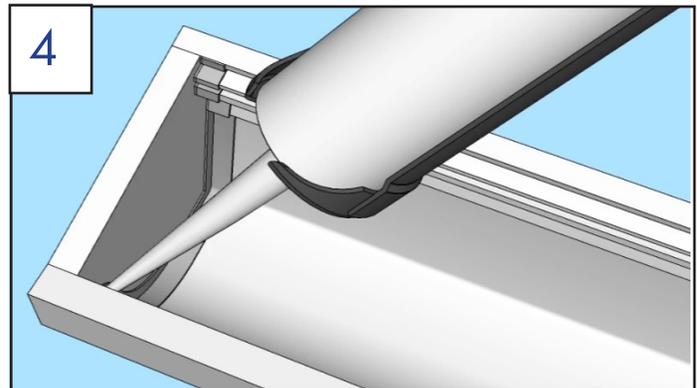
- PVC internal plugs seal off the gutter where it butts into a wall or piece of trim. They fit inside the gutter and are flush with the outside.
- Do not use where end of gutter is exposed - use end cap instead.



- Insert plug 1/8" into gutter, taking care to align the edges.
- Apply 2P-10 Adhesive to the inside of the gutter next to the plug.



- Tap the plug flush with the end of the gutter.



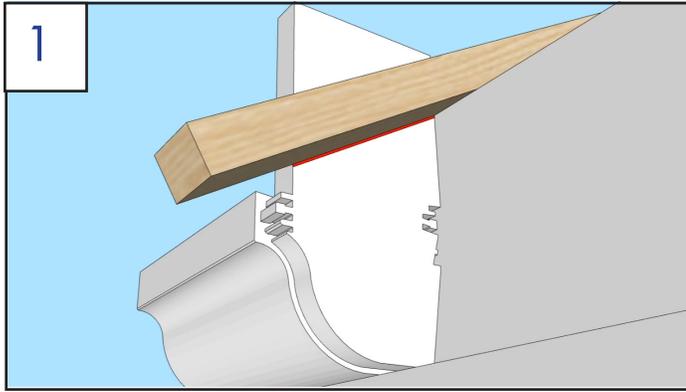
- Apply sealant to inside of plug, including the grooves in gutter.

### Question?

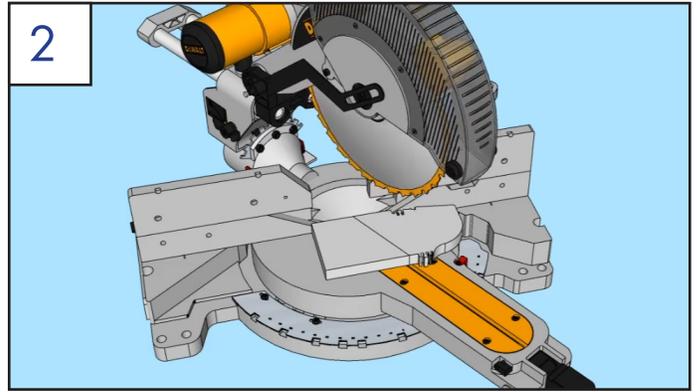
Give us a call at (781) 862-0507

**NEXT: INTERNAL PLUGS  
AT RAKE MITERS**

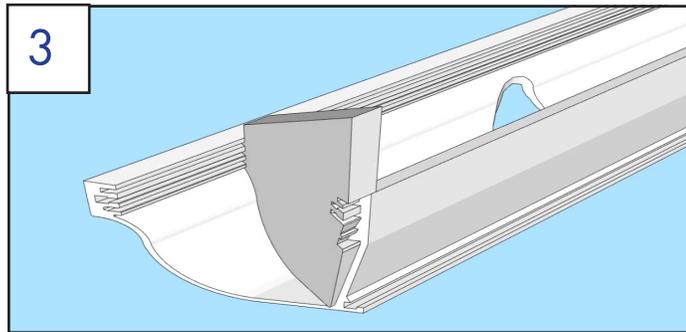
## Installing Tall Internal Plug (use at Rake Miter only)



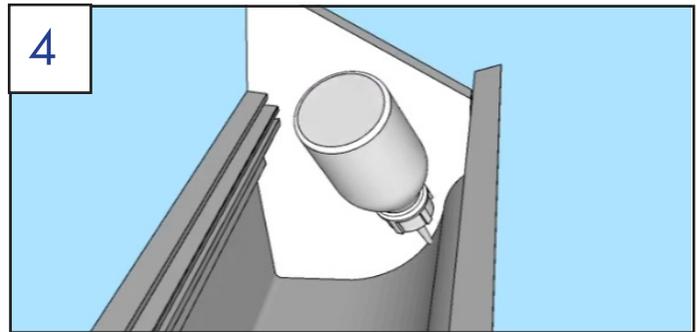
- 1
- Insert plug 1/8" into a scrap of gutter.
  - Place gutter at desired height and mark roof pitch on plug.



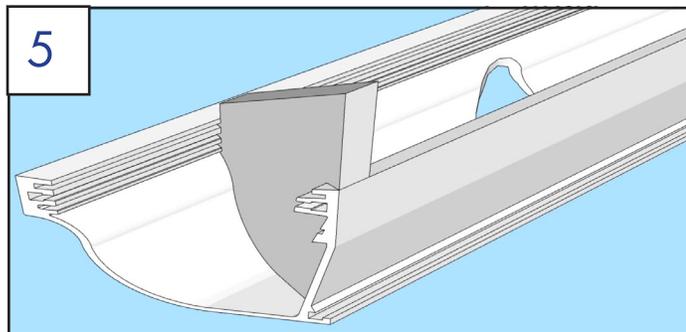
- 2
- Remove plug and cut at roof pitch angle on miter saw.



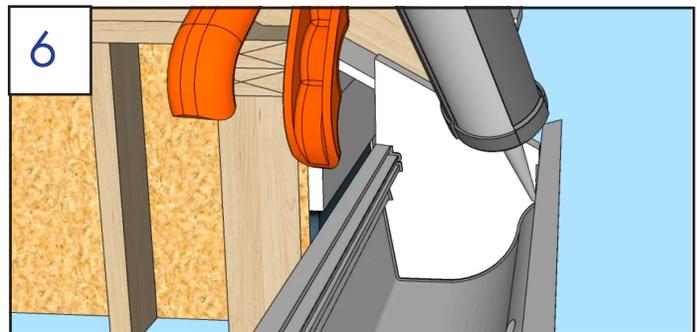
- 3
- Tap the plug part way into the gutter, taking care to align the edges.



- 4
- Apply 2P-10 Adhesive to the inside of the gutter next to the plug.



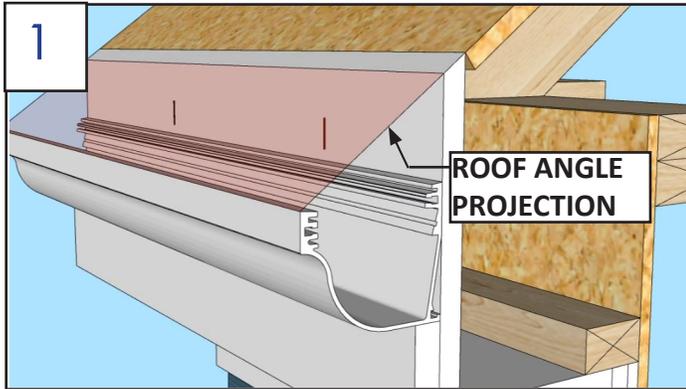
- 5
- Tap plug all the way into the gutter.



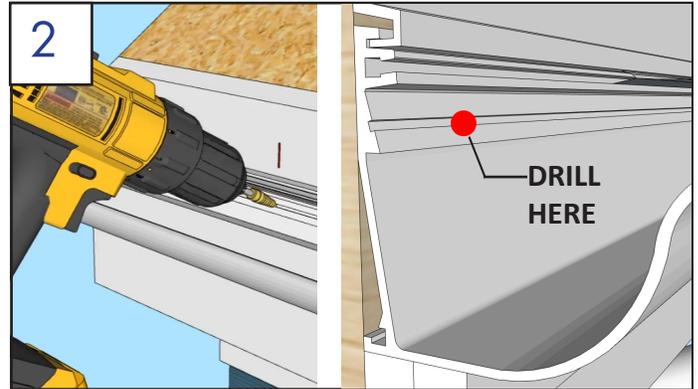
- 6
- Apply sealant to the inside of the plug, including the grooves in gutter.

**NEXT: ATTACH GUTTER TO FASCIA**

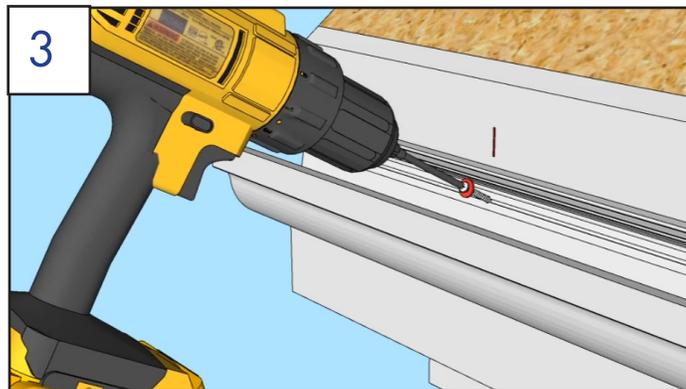
# Attaching Gutter to Fascia



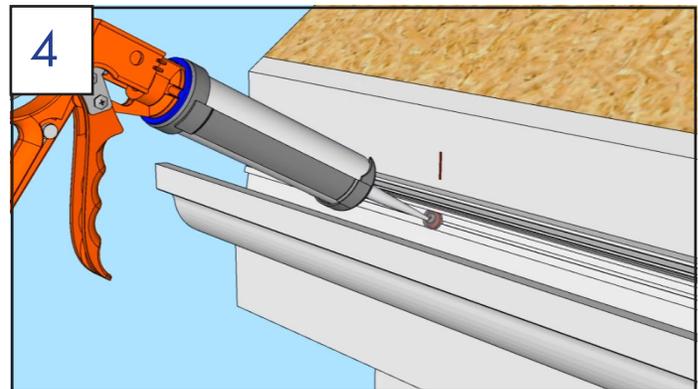
- If applicable, mark rafter locations on fascia.
- Set gutter into place on molding or temporary blocks.
- On sloped roofs, outside top lip of gutter should align with projection of angled roof plane.



- Drill a 7/16" hole centered on the angled shelf inside gutter.



- Install screws with washers. Tighten until washer is slightly compressed. Do not overtighten.
- Use one screw per rafter. If there is a structural sub-fascia, place screws at 16" intervals.

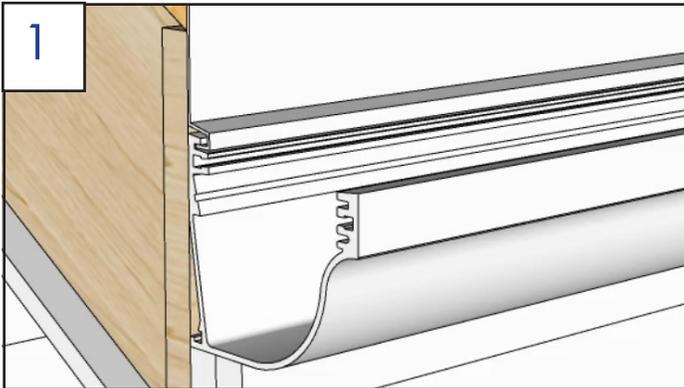


- Cover the screw head and washer with sealant.

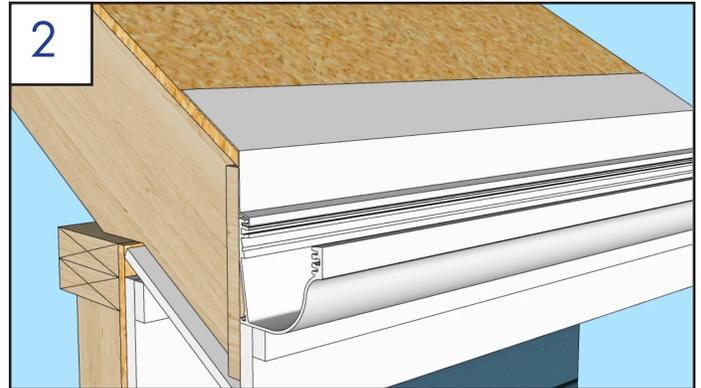
Send us a photo of your install!  
781-862-0507 or [info@duragutter.com](mailto:info@duragutter.com)

NEXT: INSTALL  
INTEGRAL FLASHING

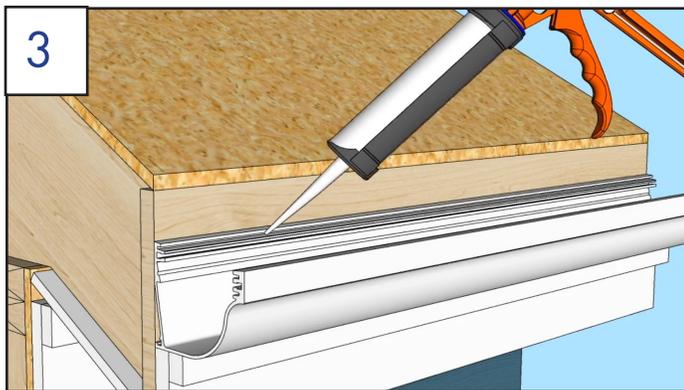
# Installing Integral Flashing



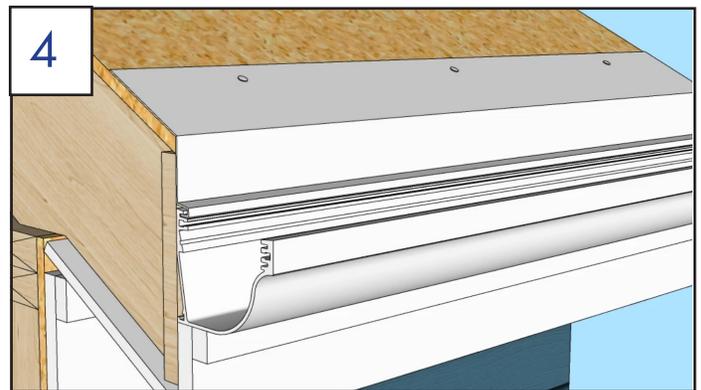
- Pre-bent edge of metal flashing fits into top groove inside gutter. On membrane roof (e.g. EPDM), flashing should be installed after membrane, and cover tape should be installed over flashing. On shingle roof, flashing should be installed before Ice and Water Shield.



- Bend the upper part of the flashing to the proper roof angle (or specify the angle and have us bend it for you).



- For extra protection against ice dams, apply sealant in the top groove before installing flashing.



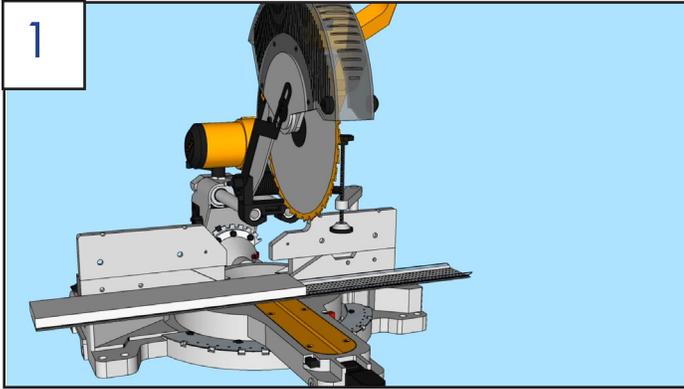
- Install flashing in top groove inside gutter and nail to roof. Each piece of flashing should overlap adjacent pieces by 3”.

## Question?

Give us a call at (781) 862-0507

NEXT: INSTALL PVC  
LEAFGUARD

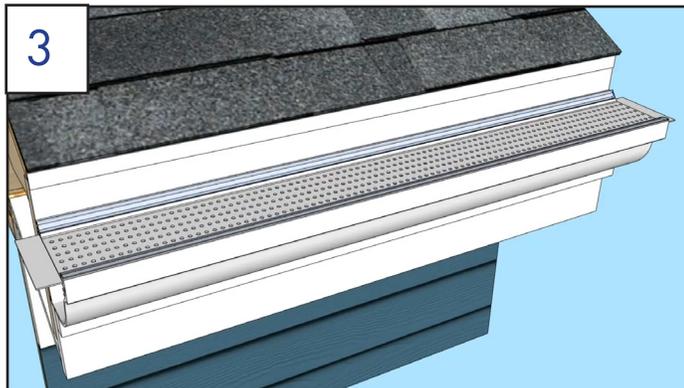
# Installing PVC Leafguard



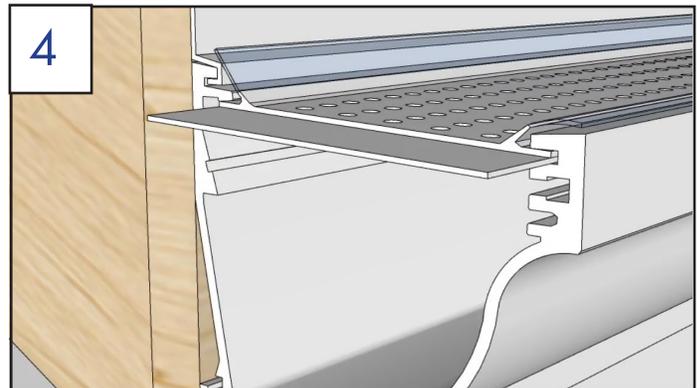
- Where necessary to cut leafguard, measure and mark piece, place wood block over leafguard and hold securely.
- Cut through wood block and leafguard with miter saw.



- Install supplied leafguard supports at each end of leafguard, and in middle. See below image for correct grooves in gutter.



- Install leafguard by pushing it into the back groove first, then snapping it into the front groove.



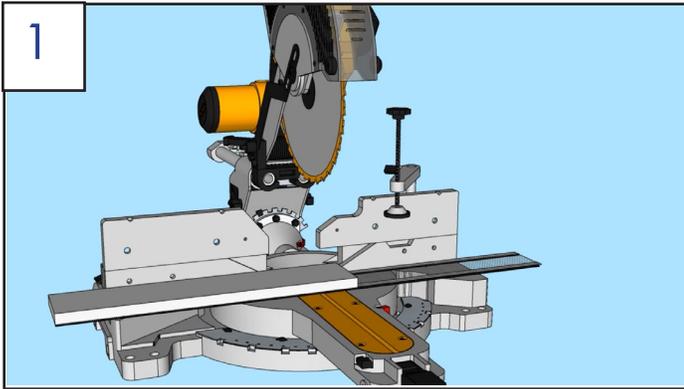
Send us a photo of your install!

781-862-0507 or [info@duragutter.com](mailto:info@duragutter.com)

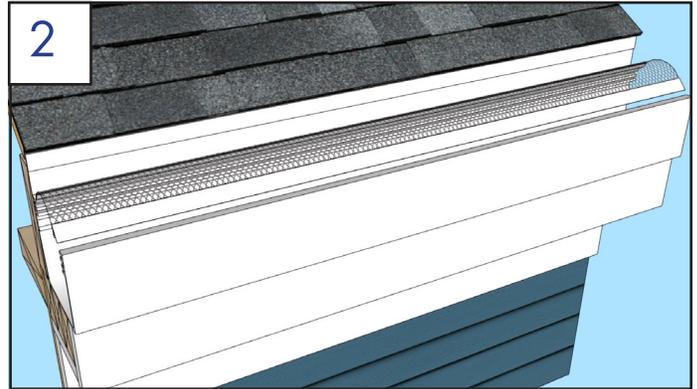
NEXT: INSTALL STAINLESS  
STEEL LEAFGUARD

# Installing Stainless Micro-Mesh Leafguard

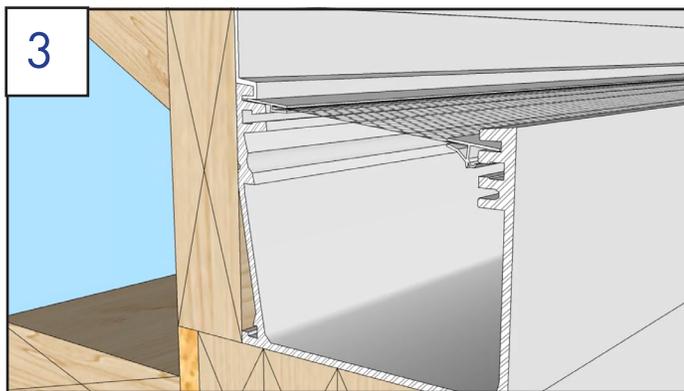
(Note: SQ profile shown here. Process to install flashing is the same on OG profiles.)



- Where necessary to cut leafguard, measure and mark piece, place wood block over leafguard and hold securely.
- Cut through wood block and leafguard with miter saw.



- Bend the leafguard up slightly in the middle of the mesh, so it can fit inside the grooves in the gutter.



- Insert leafguard into gutter and flatten out, so it fits tightly into grooves.
- Side of leafguard with hook below mesh is oriented toward front of gutter.

## Question?

Give us a call at (781) 862-0507

**NEXT: INSTALL STAINLESS  
STEEL LEAFGUARD**