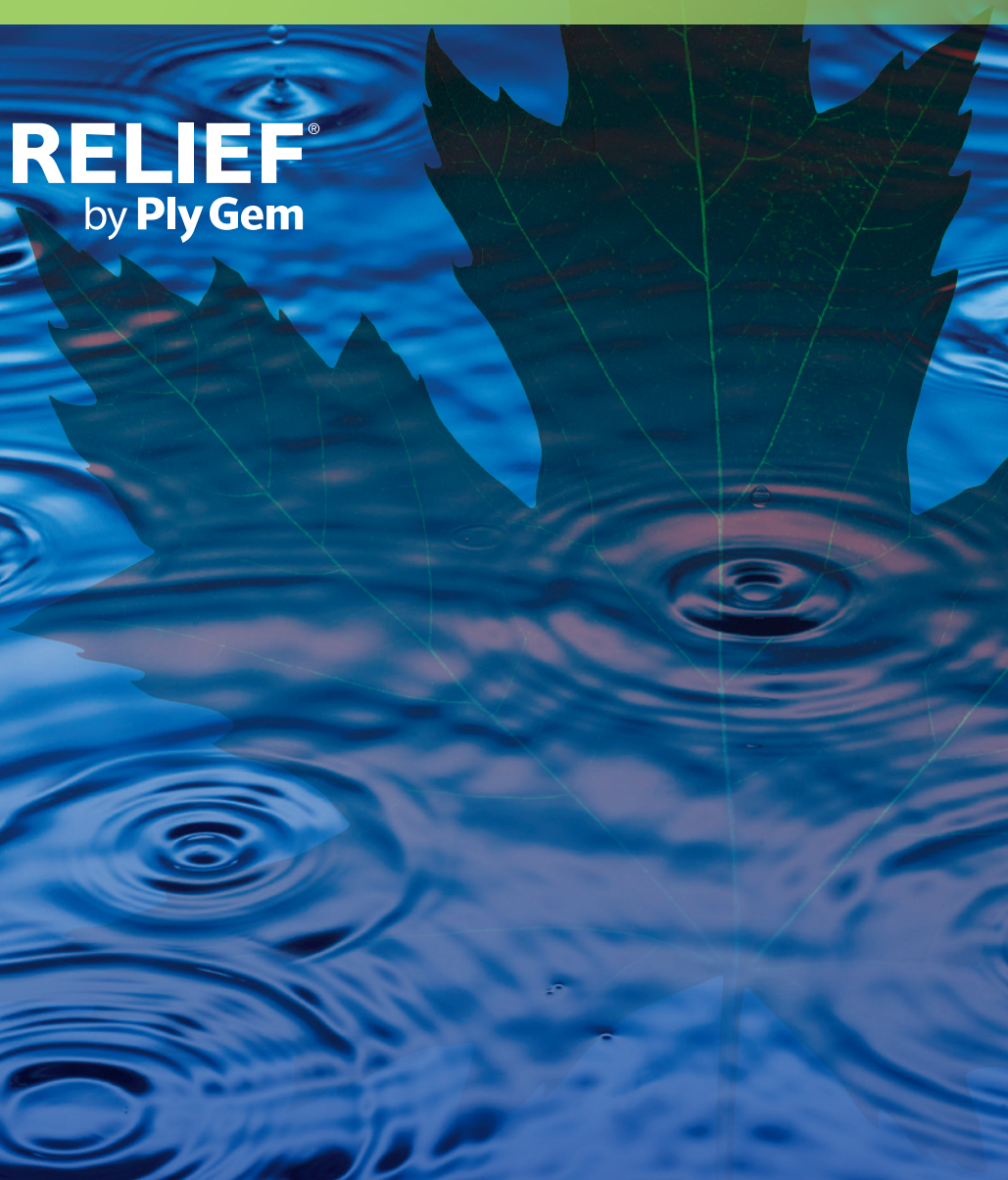




**LEAF RELIEF<sup>®</sup>**  
by Ply Gem



# Installation Guide


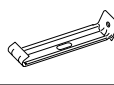
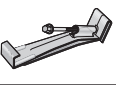
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




Leaf Relief Product Chart

Seamless Gutters

	Spike/Ferrule	Hidden Hanger Systems	Zip Hanger Systems	No Hanger/ New Gutter
				
CLASSIC/ ADJUSTABLE	✓	✓		
CONTINUOUS HANGER				✓
ZIP			✓	

NOTE: See product guide for ordering code.

Foldover Style Gutter

	No Hanger / New Gutter	Combo	Snug Fit	Bar	Strap	Combo Strap	Roof Hanger
							
CLASSIC/ ADJUSTABLE					✓		■ ✓
CONTINUOUS HANGER	✓						
ZIP		✓	✓	✓		✓	

■ Field notch Leaf Relief at rod.

# INSTALLATION OF NEW GUTTERS WITH CONTINUOUS HANGERS

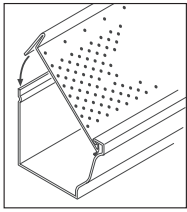


Fig. 1

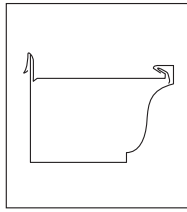


Fig. 2

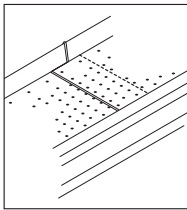


Fig. 3

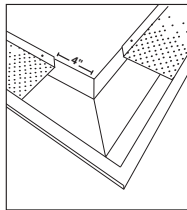


Fig. 4a

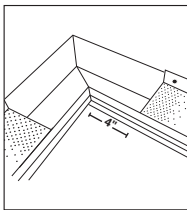


Fig. 4b

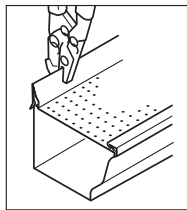


Fig. 5a

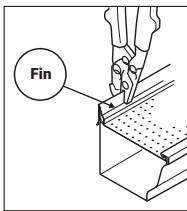


Fig. 5b

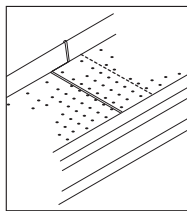


Fig. 6

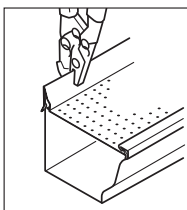


Fig. 7

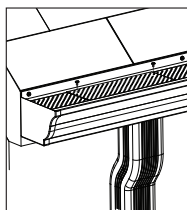


Fig. 8

## Installing the Continuous Hanger, Box Gutter and DuoPro Continuous Hanger

### **Mounting the product on the gutter**

Insert the front of the Continuous Hanger inside the front of the gutter. (Figure 1)

Insert the back of the Continuous Hanger on the back of the gutter. (Figure 2)

Make sure that each section of the Continuous Hanger overlaps perfectly. (Figure 3)

At the outside corner, stop the section of the Continuous Hanger 4" from the outside corner, leaving a space to apply the gutter sealant. (Figure 4a)

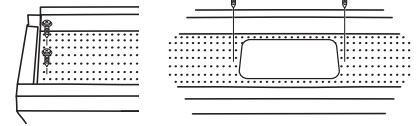
At the inside corner, stop the section of the Continuous Hanger 4" from the inside corner, leaving a space to apply the gutter sealant. (Figure 4b)

Using an endcap crimping tool, pinch the back of the Continuous Hanger and the gutter every 3'. (Figure 5a)

For the Box Gutter Continuous Hanger, pinch right above the fin to stabilize it. (Figure 5b)

Stop the Continuous Hanger sections short of the end cap to prevent water overflow.

## IMPORTANT



To cut the DuoPro Continuous Hanger, always secure the two layers of the product together with ½" screws before making a straight cut or a hole for the 2nd floor downspout connection

### **Installing the Access Panel for Continuous Hanger**

For optimal use, one Access Panel must be placed over the downspout and at the other end of the gutter.

Insert the front of the Access Panel inside the front of the gutter. Insert the back of the Access Panel on the back of the gutter. Make sure that each Access Panel overlaps perfectly with the Continuous Hanger. (Figure 6)

Using an endcap crimping tool, pinch the back of the Access Panel and the gutter at both ends of the Access Panel. (Figure 7)

Place the Access Panel inside the end cap to prevent water from overflowing.

Install the sliding panel above the opening with one ½" screw on each side. The screws need to be placed near the back of the gutter. (Figure 8)



## Installing the Continuous Hanger, Box Gutter and DuoPro Continuous Hanger (continued)

### Installing the Access Panel for Box Gutter and DuoPro Continuous Hanger

For optimal use, one Access Panel must be placed over the downspout and at the other end of the gutter. Leave a 9" space without product and attach an A or B part over the opening with two ½" screws on the front lip of the product. (Figure 9)

### Installing the gutter

Insert the back of the gutter under the drip edge (flashing). (Figure 10)

Screw the back of the Continuous Hanger into the fascia board every 24" using the self-sealing screws. (Figure 11)

Screw the back of the Access Panel into the fascia board at each end with self-sealing screws. (Figure 11)

### Installing the Continuous Hanger in Corners

Use a Leaf Relief prefab corner and make sure that it overlaps the sections of Continuous Hanger on both sides. Once in place on the gutter, screw two ½" screws on the front lip of each part and at the intersection of both parts then secure with self-sealing screws in the back if needed. (Figure 12)

### Installing the Box Gutter and DuoPro Continuous Hanger in Corners

Make sure the prefab corner overlaps the Continuous Hanger on both sides.

For an outside corner, slide the sub-membrane flush with the tip B of the top membrane.

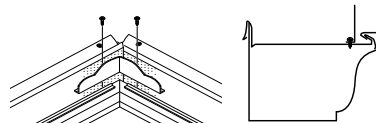
For an inside corner, slide the sub-membrane flush with the tip A of the top membrane. (Figure 13)

Cut out the sub-membrane guiding yourself with the top membrane cut. (Figure 14)

Slide the sub-membrane of one of the parts to clear about 3 rows of perforations of the top membrane (the overlap section). (Figure 15)

Once in place on the gutter, first screw two ½" screws on the front lip of each part and at the intersection of both parts then secure with self-sealing screws in the back. (Figure 16)

### IMPORTANT



For inside corners and valleys, install a water diverter directly on the Continuous Hanger surface.

3" x 4" Downspouts are recommended in areas with conifer (pine) trees.

The flow from high-level gutters must be transferred within downspouts directly into lower-level gutters.

To install the Continuous Hanger with longer flashings (2" or more), skip installation Steps 2 and 5, placing both the flashing and the Continuous Hanger fold over inside the gutter.

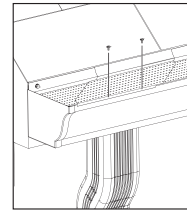


Fig. 9

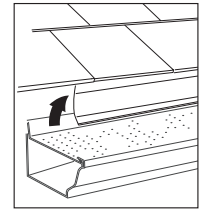


Fig. 10

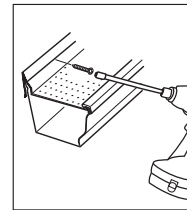


Fig. 11

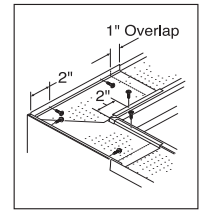


Fig. 12

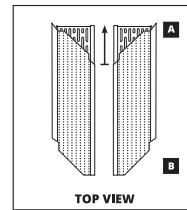


Fig. 13

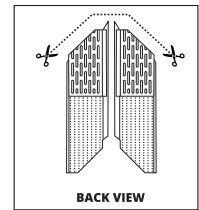


Fig. 14

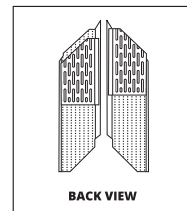


Fig. 15

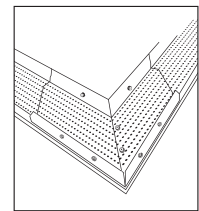


Fig. 16

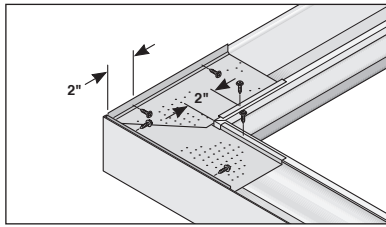


Fig. 1

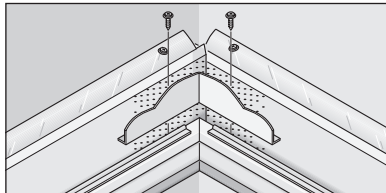


Fig. 2

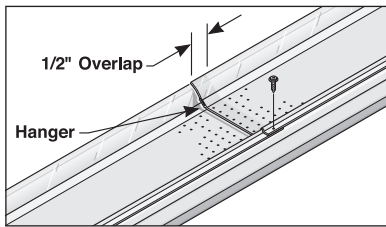


Fig. 3

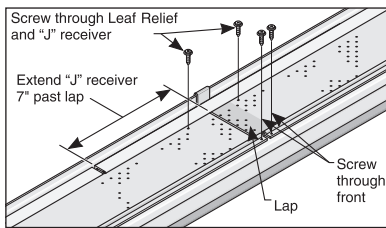


Fig. 4

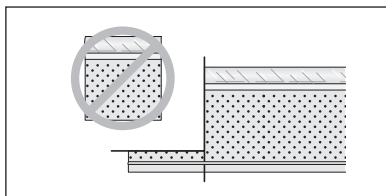


Fig. 5

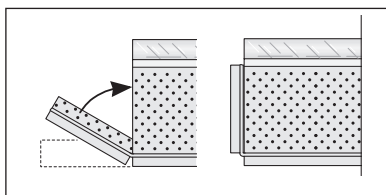


Fig. 6

## Installation on Flat Hangers or Spike/Ferrule

*Prepare the Gutter*  
Clean and flush existing gutters and downspouts thoroughly with water.

*Install Leaf Relief Corners*  
Attach Leaf Relief corners using 6 screws as shown in the drawing. (Figure 1)

*NOTE: Pre-fabricated corners must be at the same level as the Leaf Relief sections.*

## 5" & 6" Leaf Relief Retrofit Installation

Downspouts 3" x 4" or larger are recommended for proper function in a coniferous tree zone.

The flow from high-level gutters must be transferred within downspouts directly into lower-level gutters and sealed. An alternative to this would be to install water diverters.

*NOTE: To prevent overflow, all inside corners and valleys must have a water diverter/deflector. Diverter/deflector must be installed on the top surface of the Leaf Relief behind front lip. (Figure 2)*

## Install Leaf Relief System

*NOTE: For Adjustable; slide "J" receiver onto the Leaf Relief sections.*

Place the Leaf Relief sections on top of the gutter with the vinyl strip against the fascia or drip edge. For proper function, the Leaf Relief surface (front-to-back) must be level or have a slight slope toward the fascia. Do not install Leaf Relief over hangers that will result in a forward slope.

For best support, place Leaf Relief so that the piece nearest the hanger is beneath the adjoining Leaf Relief section. Overlap 1/2" with adjacent Leaf Relief section – do not butt. Add or replace hangers as needed for proper support (maximum support spacing is 30"). (Figure 3)

Starting at one end, fasten front of Leaf Relief to gutter every 24" using #6-3/8" screws. (Figure 4)

*NOTE: For Adjustable; adapt the "J" receiver to fit the width of the gutter. Using same screws as noted above, attach every 2' as shown.*

*In applications where the Leaf Relief is level with the endcap:*

At the end of the run, make a 4" cut on the back of the Leaf Relief up to the lip on the front. (Figure 5)

Cut parallel to the front about 1/2" from the lip.

Make another cut in the opposite direction to the lip.

Turn and fold under the excess material. (Figure 6)

## Installation with Mitered Corners

### Outside Corners

Use perforation pattern as a guide to create corners. Using tin snips cut diagonally along the perforation to create a 45° angle starting at the outside edge and cutting as shown, through the plastic strip.

(Figure 1)

Notch and remove one inch of the front edge and plastic strip from the newly formed angle. When mounted, the pieces will overlap one inch and form a 90° outside corner. Place one screw through the overlapping pieces. Attach to back through the metal feature that retains the plastic strip with screws two inches from the point of the corner.

(Figure 2)

### Inside Corners

Use perforation pattern as a guide to create corners. Using tin snips cut diagonally along the perforation to create a 45° angle, starting at the rear edge (plastic strip) and cutting as shown until complete.

(Figure 3)

Notch and remove one inch of the front edge and plastic strip from the newly formed angle. When mounted, the pieces will overlap one inch and form a 90° inside corner. Place one screw through the overlapping pieces. Attach to back through the metal feature that retains the plastic strip with screws two inches from the point of the corner.

(Figure 4)

*NOTE: To prevent overflow, all inside corners and valleys must have a water diverter/deflector, sold separately. Diverter/deflector must be installed on the top surface of the Leaf Relief behind front lip.*

(Figure 5)

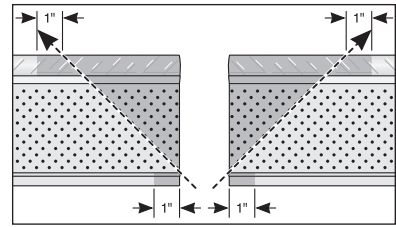


Fig. 1

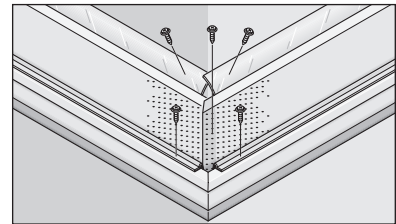


Fig. 2

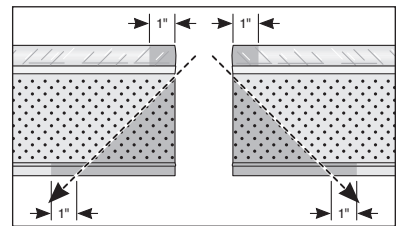


Fig. 3

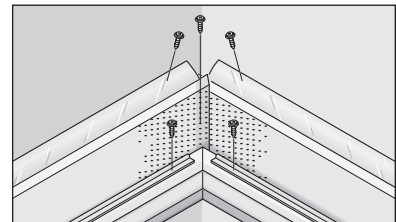


Fig. 4

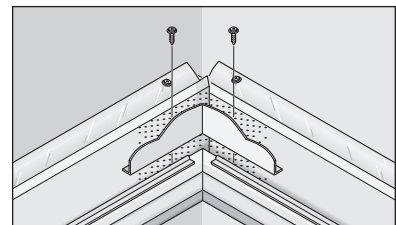


Fig. 5

# INSTALLATION ON ZIP HANGERS

## Installation on Zip Hangers

### *Prepare the Gutter*

Clean and flush existing gutters and downspouts thoroughly with water.

Downspouts 3" x 4" or larger are recommended for proper function in a coniferous tree zone.

The flow from high-level gutters must be transferred within downspouts directly into lower-level gutters and sealed. An alternative to this would be to install water diverters.

### *Install Leaf Relief System*

Place the Leaf Relief sections on top of the gutter with the vinyl strip against the fascia or drip edge. For proper function, the Leaf Relief surfaces (front-to-back) must be level or have a slight slope toward the fascia. (Figure 1)

For best support, place Leaf Relief so that the piece nearest the hanger is beneath the adjoining Leaf Relief section. Overlap 1/2" with adjacent Leaf Relief section – do not butt. Add or replace hangers as needed for proper support (maximum support spacing is 30"). (Figure 2)

Starting at one end, fasten front of Leaf Relief to gutter every 24" using #6-3/8" screws.

*NOTE: To prevent overflow, all inside corners and valleys must have a water diverter/deflector. Diverter/deflector must be installed on the top surface of Leaf Relief. (Figure 3)*

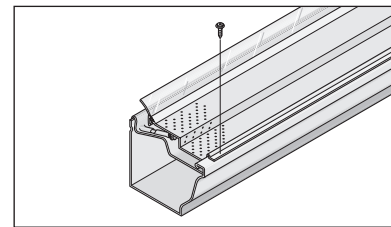


Fig. 1

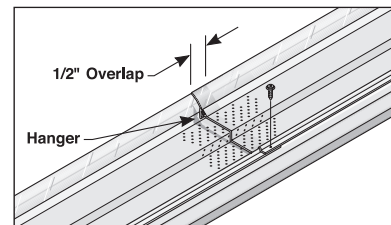


Fig. 2

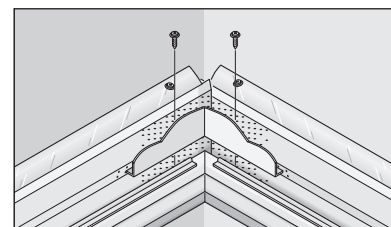


Fig. 3



## Installation on Zip Hangers

*NOTE: Because ZIP product has a stepped profile, pre-fabricated corners cannot be used.*

### Outside Corner

Use the perforated pattern to cut a 45° angle at the ends of the Leaf Relief sections. Then cut away 1" from the front and back of one section as shown. (Figure 1)

Overlap sections by 1" and attach with a #6-3/8" stainless steel screw. (Figures 2, 3)

### Inside Corner

Use the perforated pattern to cut a 45° angle at the ends of the Leaf Relief sections. Then cut away 1" from the front and back of one section as shown. (Figure 4)

The sections will overlap by 1" and be attached with a #6-3/8" stainless steel screw. (Figures 5, 6)

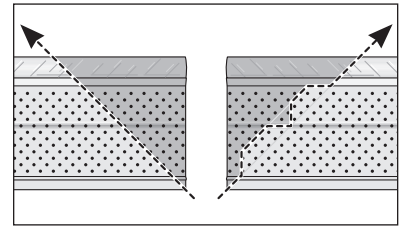


Fig. 1

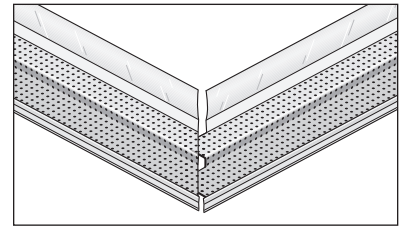


Fig. 2

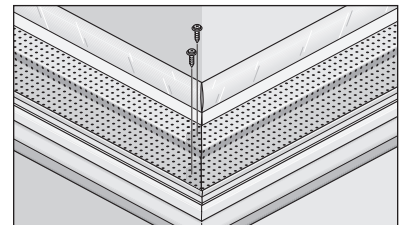


Fig. 3

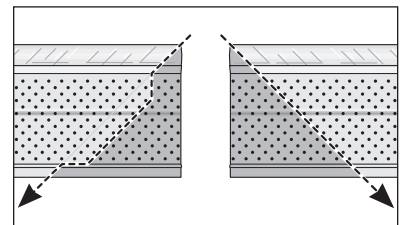


Fig. 4

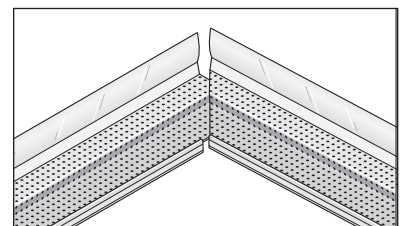


Fig. 5

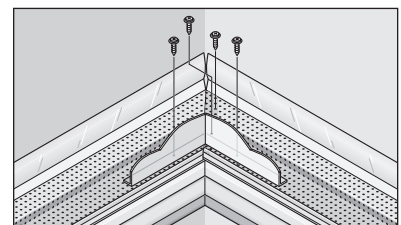


Fig. 6

# INSTALLING ON HALF-ROUND GUTTERS

## Installing Leaf Relief on Half-Round Gutters

### *Wrap-Around Fascia Hangers*

Lay Leaf Relief on gutter in front of hanger and mark location of bracket. (Figure 1)

Notch back of Leaf Relief as shown. (Figure 2)

Firmly press back of Leaf Relief behind gutter and pivot down to rest on front lip of gutter. (Figure 3)

Attach with screws through Leaf Relief and front lip of gutter every 24". (Figure 4)

Continue installing Leaf Relief panels, overlapping 1/2". As required, a screw can be inserted through overlapping panels to reduce sagging.

### *Spring Clip Bar Hangers*

Lay Leaf Relief on gutter in front of hanger and mark location of bracket. (Figure 5)

Cut and notch Leaf Relief as shown. (Figure 6)

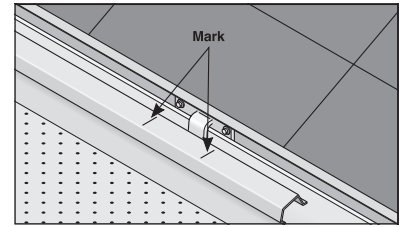


Fig. 1

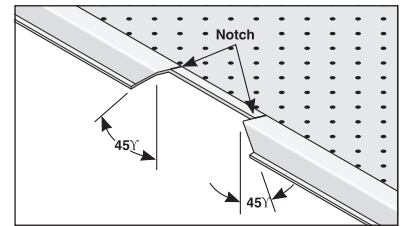


Fig. 2

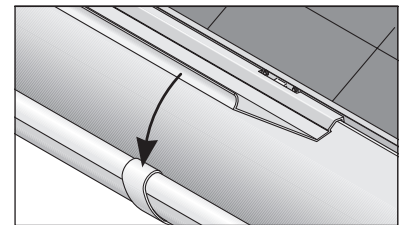


Fig. 3

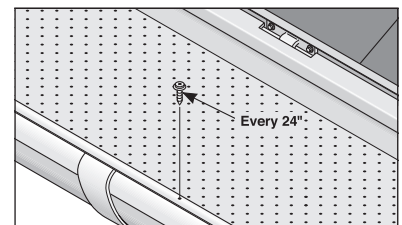


Fig. 4

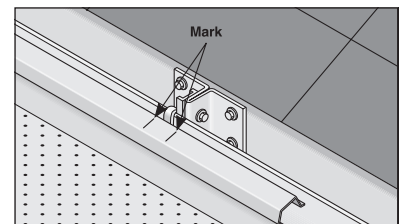


Fig. 5

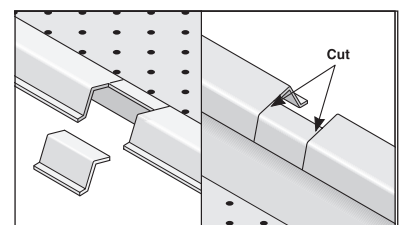


Fig. 6

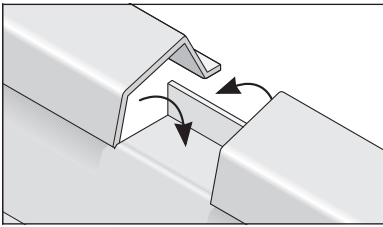


Fig. 7

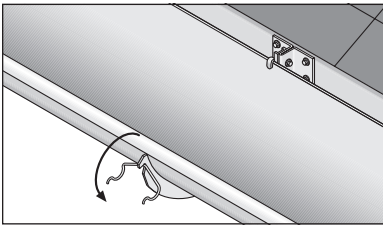


Fig. 8

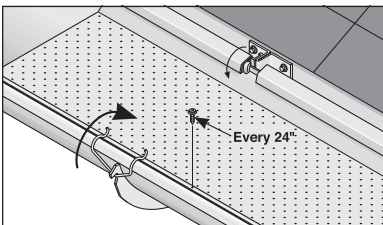


Fig. 9

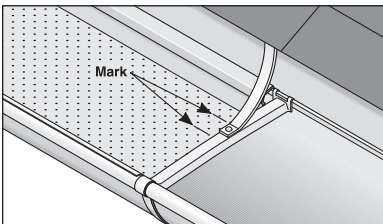


Fig. 10

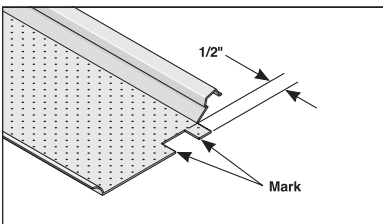


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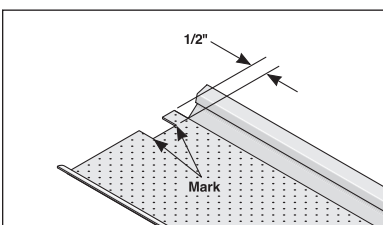


Fig. 12

## Installing Leaf Relief on Half-Round Gutters

### Spring Clip Bar Hangers

(continued)

Bend tab on Leaf Relief as shown. (Figure 7)

Release spring clip on front of gutter and bend up back tab holding gutter. (Figure 8)

Place Leaf Relief on gutter, bend hanger back tab over the back of the Leaf Relief. Fasten hanger spring clip over Leaf Relief. (Figure 9)

Continue installing Leaf Relief panels, overlapping 1/2", attaching with screws through Leaf Relief and front lip of gutter every 24". As required, a screw can be inserted through overlapping panels to reduce sagging.

### Wrap-Around Strap Hangers (Existing Gutters)

Place first Leaf Relief panel on gutter in front of hanger and mark location of strap. (Figure 10)

Cut and notch Leaf Relief as shown (Figure 5) and lay in position on gutter. (Figure 11)

Place next section of Leaf Relief on gutter, mark location of strap, then cut and notch as shown. (Figure 12)

## Installing Leaf Relief on Half-Round Gutters (continued)

### Wrap-Around Hangers, Existing Gutters

Install on gutter in position so that it overlaps previous section by 1/2".

Attach with screws through Leaf Relief at every hanger overlap. Also, attach the Leaf Relief every 24" through the front lip of the gutter. (Figure 13)

As required, a screw can be inserted through overlapping panels to reduce sagging.

### Wrap-Around Strap Hangers

#### *New Gutter Installation*

Plan location of strap hangers and Leaf Relief panels. Remember that Leaf Relief must overlap 1/2". Notch Leaf Relief at each hanger as shown. (Figure 14)

Install Leaf Relief overlapping panels by 1/2". Screw through front edge of Leaf Relief into front lip of gutter every 24" (Figure 15)

As required, a screw can be inserted through overlapping panels to reduce sagging.

Attach hangers over Leaf Relief to gutters. (Figure 16)

Install gutters to structure per manufacturer's instructions.

## Mitering Corners

### *Outside Corners*

Use perforation pattern as a guide to create corners. Using tin snips cut diagonally along the perforation to create a 45° angle starting at the outside edge and cutting as shown. Notch and remove one inch of the front edge from the newly formed angle. (Figure 17)

When mounted, the pieces will overlap one inch and form a 90° outside corner. Place one screw through the overlapping pieces. (Figure 18)

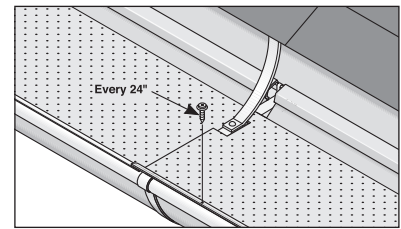


Fig. 13

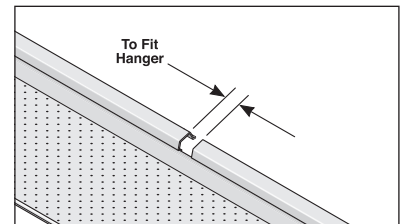


Fig. 14

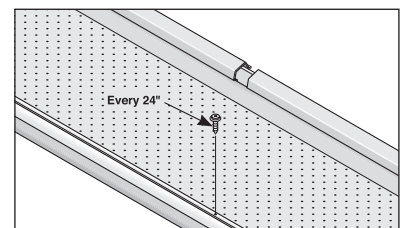


Fig. 15

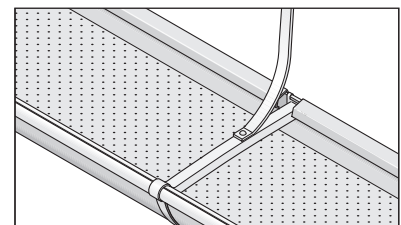


Fig. 16

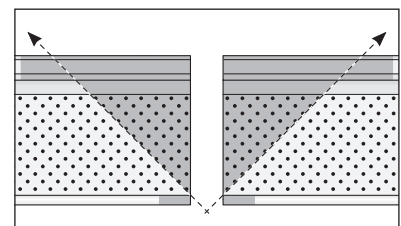


Fig. 17

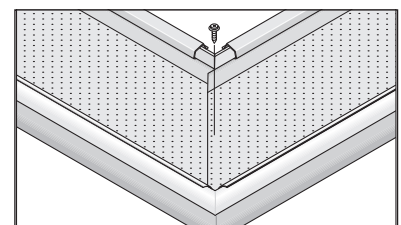


Fig. 18



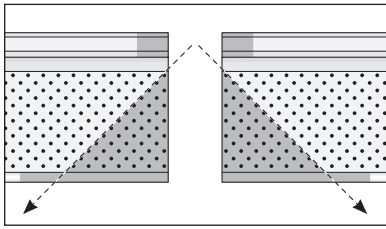


Fig. 19

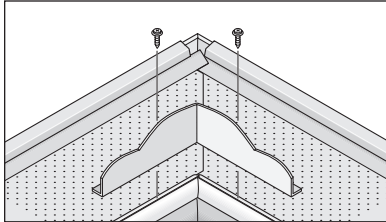


Fig. 20

## Installing Leaf Relief on Half-Round Gutters (continued)

### Mitering Corners

#### *Inside Corners*

Use perforation pattern as a guide to create corners. Using tin snips cut diagonally along the perforation to create a 45° angle starting at the rear edge and cutting as shown. Notch and remove one inch of the front edge from the newly formed angle. (Figure 19)

When mounted, the pieces will overlap one inch and form a 90° inside corner. Place one screw through the overlapping pieces. (Figure 20)

*NOTE: To prevent overflow, all inside corners and valleys must have a water diverter/deflector. Diverter/deflector must be installed on the top surface of Leaf Relief.*







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