

1. Apply Bonding Adhesive to the clean substrate and to the back of the membrane. Allow to flash off. While the Bonding Adhesive is flashing off, apply a 3/8" bead of Waterstop below the bottom of the deck or nailer.

2. Once the Bonding Adhesive has flashed off, roll in the membrane, embedding the edge into the bead of Waterstop. Sweep the membrane with a stiff bristle broom to ensure a positive bond with the substrate.

3. Align the Termination Bar with the bottom edge of the membrane, and fasten through the membrane into the vertical substrate with an appropriate fastener every 8" (every other pre-punched hole).

Note: Peel & Stick TPO membrane has factory applied adhesive on the back of the sheet, eliminating the need for application of Bonding Adhesive and Seam Tape as shown above. In lieu of applying Bonding Adhesive to the substrates, apply Substrate Primer, and allow it to flash off completely prior to installing the Peel & Stick TPO membrane. For membrane to membrane bonds, apply Seam Primer to bottom sheet as indicated above.

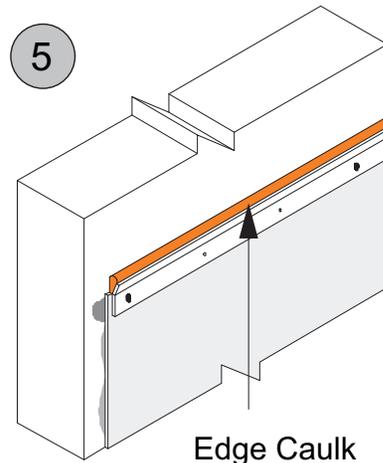
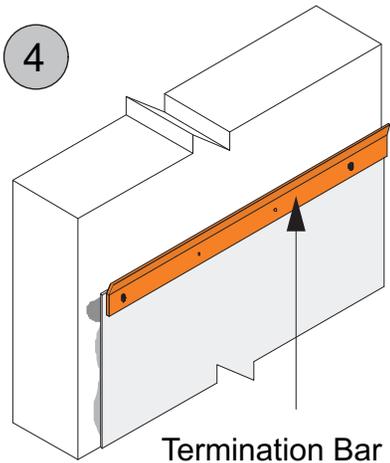
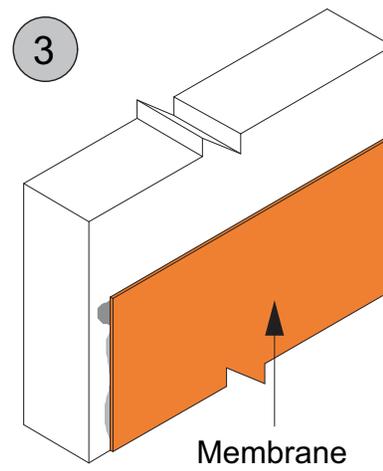
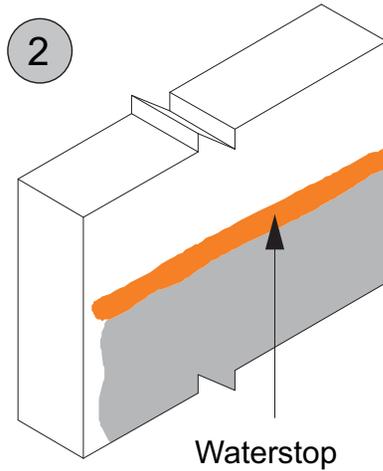
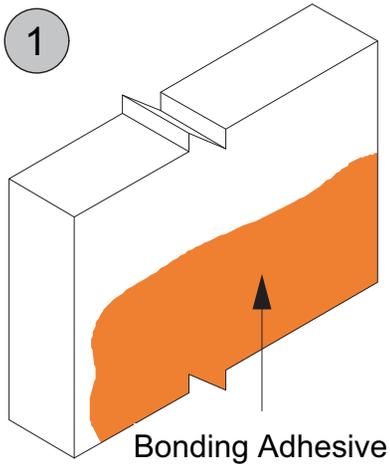


**A**

## Roof Edge Termination With A Termination Bar

03/2009

**GenTite<sup>®</sup> RRS**  
Residential Roofing Systems



1. Apply Bonding Adhesive to the clean substrate and to the back of the membrane flashing. Allow to flash off.

2. Identify where the top edge of the flashing will line up and apply a 3/8" wide bead of Waterstop 1/2" below that point. Be careful not to apply Waterstop where it will exceed the area being flashed.

3. Once the Bonding Adhesive has flashed off, mate the flashing to the substrate by rolling the membrane up the surface.

4. Align Termination Bar with the top edge of the membrane and pre-drill the required holes to accept the appropriate fastener of your choosing. Fastener spacing should not exceed 12" on center.

5. Apply Edge Caulk to the caulk reservoir of the Termination Bar at the rate of 15 lf per tube.

Note: Peel & Stick TPO membrane has factory applied adhesive on the back of the sheet, eliminating the need for application of Bonding Adhesive as shown above. In lieu of applying Bonding Adhesive to the substrates, apply Substrate Primer, and allow it to flash off completely prior to installing the Peel & Stick TPO membrane.

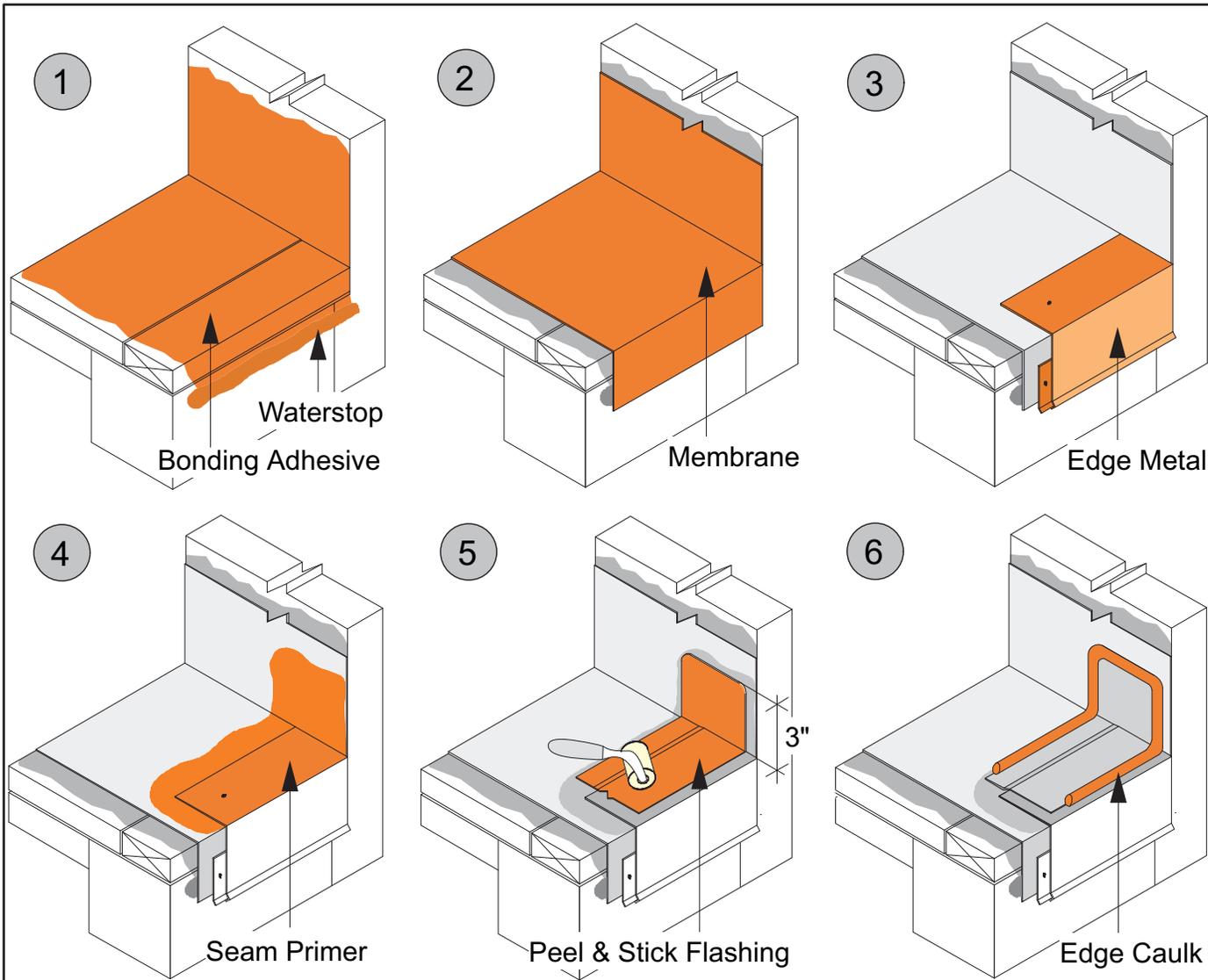


**B**

## Termination Bar Installation

03/2009

**GenTite<sup>®</sup> RRS**  
Residential Roofing Systems



1. Position membrane to extend over roof edge and down vertical substrate to 1" below roof deck or nailer. Fold membrane back and apply Bonding Adhesive to the clean substrate and to the back of the membrane. Allow to flash off. Apply a 3/8" wide bead of Waterstop 1/2" below roof deck or nailer.

2. Mate the membrane to the substrate and embed the bottom edge into the bead of Waterstop.

3. Apply the Edge Metal and any related lock strips. Ensure the metalwork covers the bottom edge of the membrane. Secure into place using a staggered 4" o.c. fastening pattern. Do not nail within 1 1/2" of face.

4. Apply Seam Primer to the metalwork flange and 3" onto the membrane. Seam Primer must extend 3" beyond metalwork even if the substrate requires the Seam Primer application to change angles as shown.

5. Remove the release liner from the Peel & Stick flashing and apply to the primed metalwork, extending 3" onto the membrane. Hand roll.

6. Apply Edge Caulk to all flashing edges.

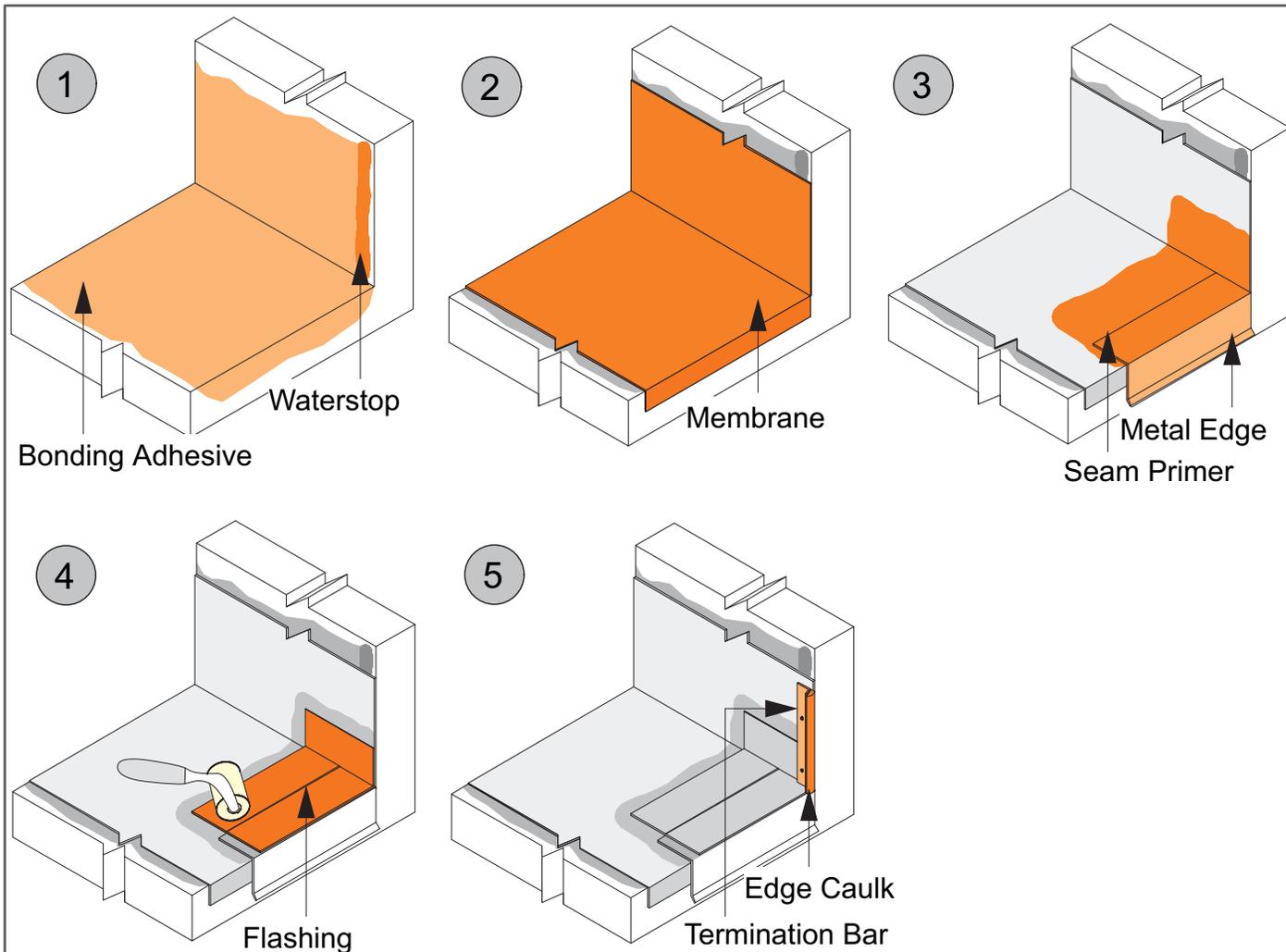
Note: Peel & Stick TPO membrane has factory applied adhesive on the back of the sheet, eliminating the need for application of Bonding Adhesive as shown above. In lieu of applying Bonding Adhesive to the substrates, apply Substrate Primer, and allow it to flash off completely prior to installing the Peel & Stick TPO membrane.



## C Metal Edge Installation And Flashing

03/2009

**GenTite<sup>®</sup> RRS**  
Residential Roofing Systems



1. Apply Waterstop in a 3/8" wide bead along vertical edge where membrane will be terminated. Keep Waterstop bead 1/2" in from edge of membrane. Apply Bonding Adhesive to the clean substrate and to the back of the membrane flashing. Allow to flash off.

2. Install membrane and embed edge into bead of Waterstop.

3. Install any metal edging, and prime with Seam Primer, using scrub pad and handle.

4. Once Seam Primer has flashed off, mate the flashing to the primed metal, while keeping the flashing edge aligned with the metal edge. Hand roll.

5. Align Termination Bar with the edge of the membrane and drill the required holes to accept the appropriate fastener of your choosing. Fastener spacing should not exceed 12" on center. Apply Edge Caulk to lip of the Termination Bar.

Note: Peel & Stick TPO membrane has factory applied adhesive on the back of the sheet, eliminating the need for application of Bonding Adhesive as shown above. In lieu of applying Bonding Adhesive to the substrates, apply Substrate Primer, and allow it to flash off completely prior to installing the Peel & Stick TPO membrane.

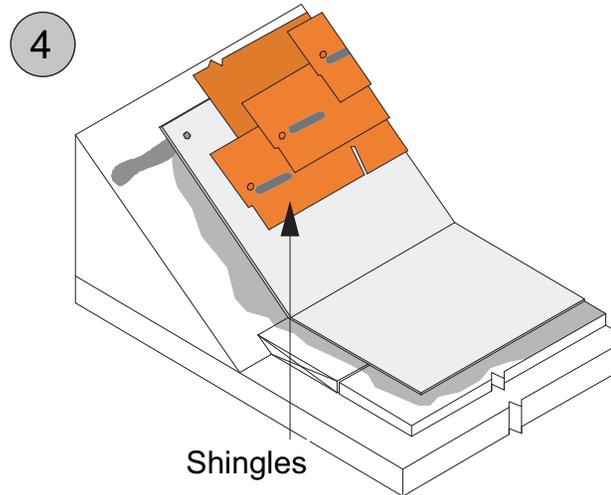
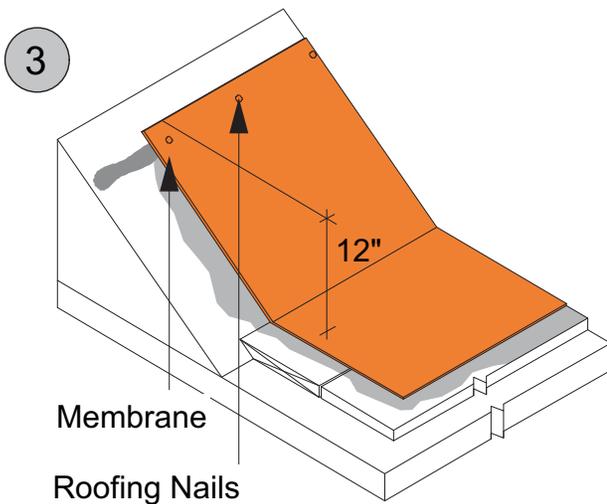
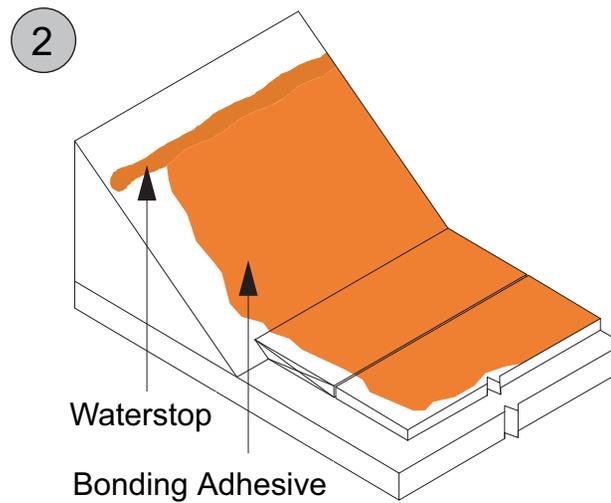
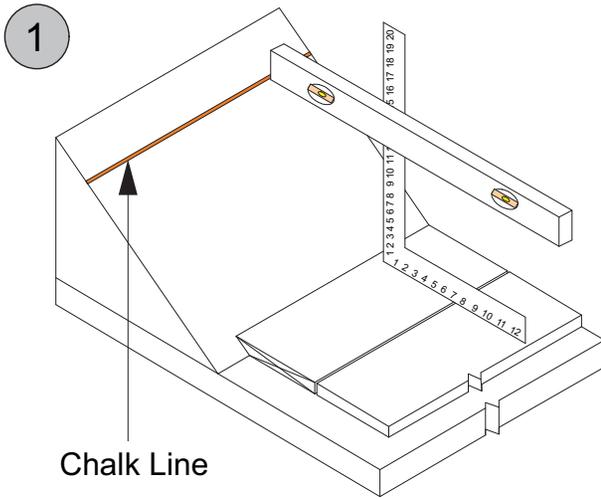


**D**

## Vertical Termination Bar Installation

03/2009

**GenTite<sup>®</sup> RRS**  
Residential Roofing Systems



1. Identify the point where 12" of vertical height from the deck surface meets with the sloped shingle substrate, and chalk a line. One way to identify flashing height is to use a framing square and level.

2. Apply a 3/8" wide bead of Waterstop 1/2" below the chalk line. Apply Bonding Adhesive to the clean substrate and to the back of the membrane flashing. Allow to flash off.

3. Bond the membrane to the sloped substrate and embed the top edge into the Waterstop. Nail top edge of membrane 12" o.c. with roofing nails to hold in place.

4. Reinstall the felt paper and shingles to overlap the top of the membrane by a minimum of 10" or to within 2" of the flat roof surface, whichever is lower. Do not allow the shingle edge to rest on the membrane surface.

Note: Peel & Stick TPO membrane has factory applied adhesive on the back of the sheet, eliminating the need for application of Bonding Adhesive as shown above. In lieu of applying Bonding Adhesive to the substrates, apply Substrate Primer, and allow it to flash off completely prior to installing the Peel & Stick TPO membrane.



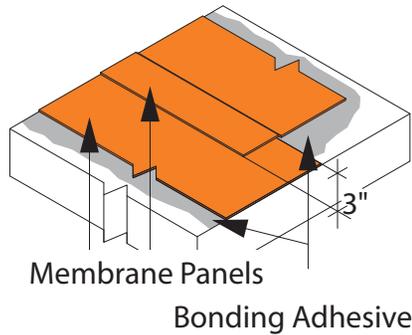
**E**

## Tie In To A Shingle Roof

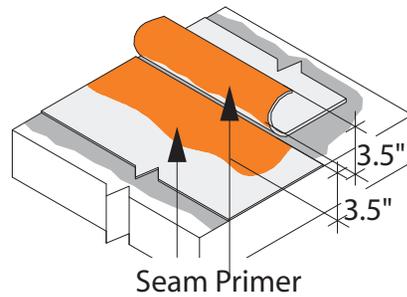
03/2009

**GenTite<sup>®</sup> RRS**  
Residential Roofing Systems

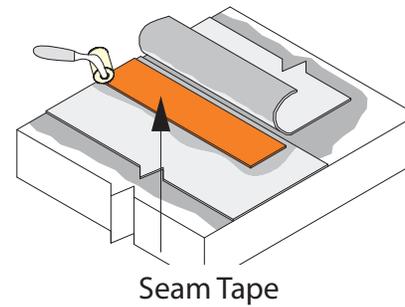
1



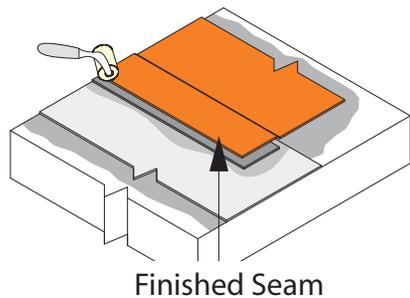
2



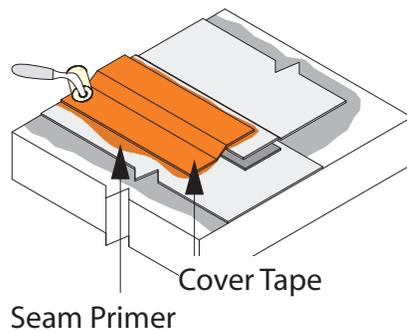
3



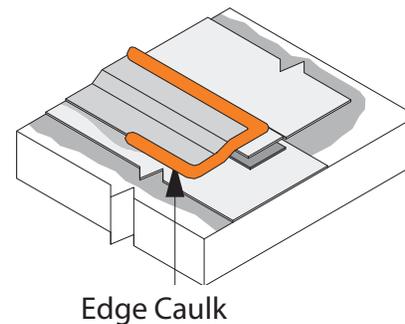
4



5



6



1. Align adjacent membrane panels to achieve a 3 1/2" wide overlap with the top panel being up slope of the lower panel and bond to the substrate.

2. Fold back the upper membrane edge and prime both mating surfaces with Seam Primer and allow to flash off.

3. Apply Seam Tape to primed membrane surface positioned so as to leave 1/4" of tape exposed when membrane flap is laid over top of tape. Roll with seam roller prior to removing the release liner.

4. Fold the upper membrane flap over the seaming area, reach under flap and peel away Seam Tape release liner while smoothing the membrane outward. Roll with a seam roller to ensure a positive bond.

5. Apply Seam Primer to assembled seam with scrub pad & handle. Allow to flash off. Apply Cover Tape, centered over seaming edge. Hand roll to ensure a positive bond.

6. Apply Edge Caulk to all flashing edges.

Note: Peel & Stick TPO membrane has factory applied adhesive on the back of the sheet, eliminating the need for application of Bonding Adhesive and Seam Tape as shown above. In lieu of applying Bonding Adhesive to the substrates, apply Substrate Primer, and allow it to flash off completely prior to installing the Peel & Stick TPO membrane. For membrane to membrane bonds, apply Seam Primer to bottom sheet as indicated above.

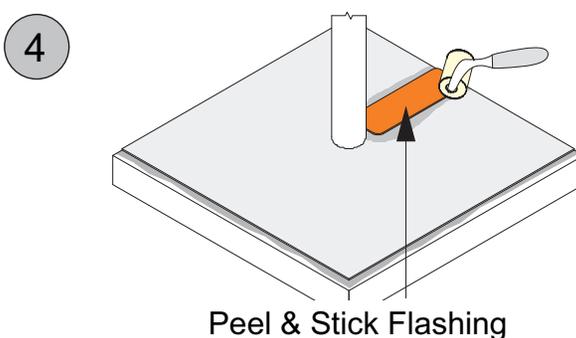
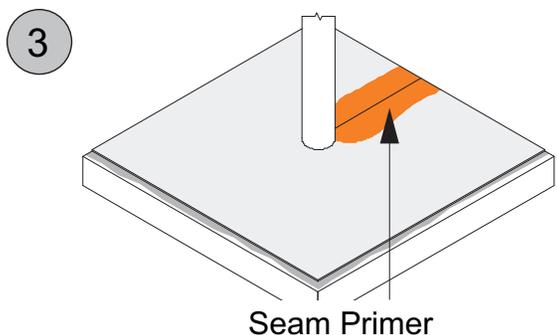
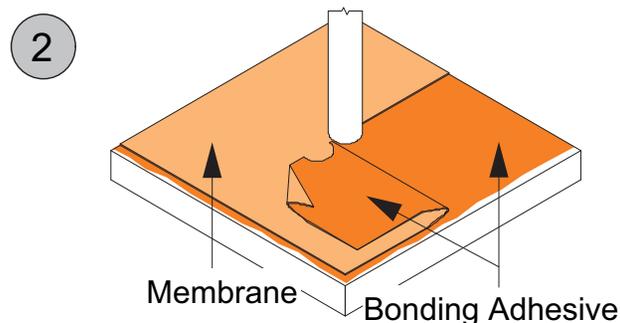
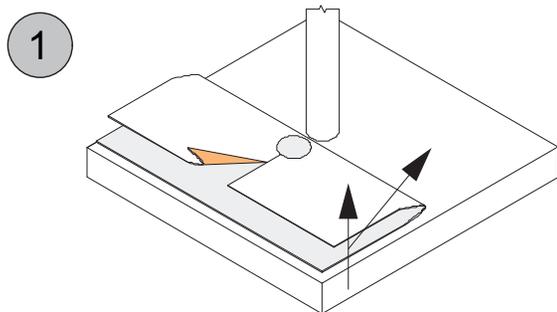


F

## Seam Assembly

03/2009

**GenTite® RRS**  
Residential Roofing Systems



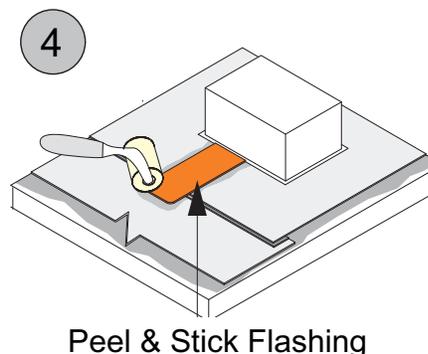
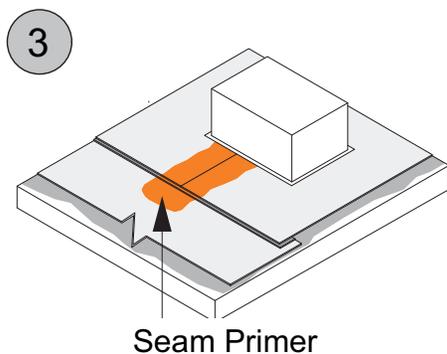
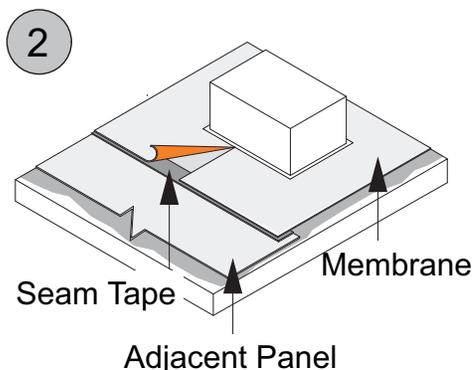
1. Position deck membrane as required by the roof layout and fold back to clear the penetration. Cut the required opening in the membrane to fit the penetration, and cut a straight line to the nearest membrane edge.

2. Apply Bonding Adhesive clean substrate and to the back of the membrane. Allow to flash off. Roll membrane onto the prepared surface, and broom to ensure positive bond.

3. Apply Seam Primer to cut in membrane, and allow to flash off.

4. Cut a strip of Peel & Stick Flashing 6" wide and long enough to extend from the penetration to 3" past the membrane edge and onto the adjacent membrane sheet. Remove the release liner and apply the Peel & Stick Flashing strip to the primed membrane, centered over the cut. Hand roll.

### Curb Penetration Example



Follow these steps for any rooftop penetration, whether the penetration is a pipe or a curb.

Note: Peel & Stick TPO membrane has factory applied adhesive on the back of the sheet, eliminating the need for application of Bonding Adhesive as shown above. In lieu of applying Bonding Adhesive to the substrates, apply Substrate Primer, and allow it to flash off completely prior to installing the Peel & Stick TPO membrane.



**G**

## Cutting In A Penetration

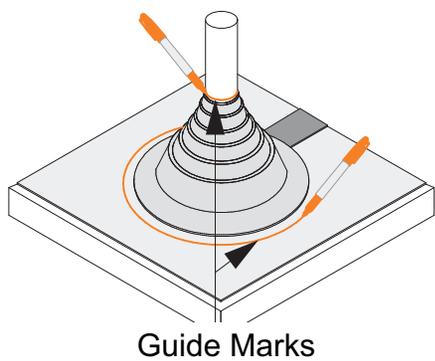
03/2009

**GenTite® RRS**  
Residential Roofing Systems

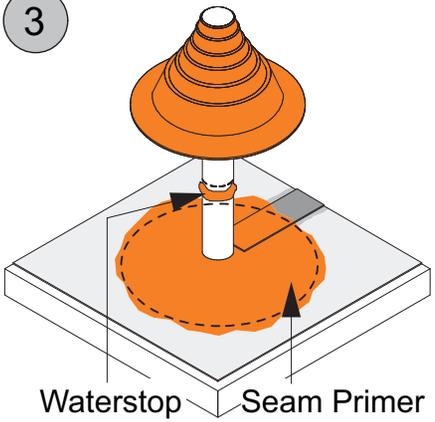
1

See "Cutting In A Penetration" for instructions on installing the membrane around a pipe penetration. Then continue steps 2 through 6 of this detail.

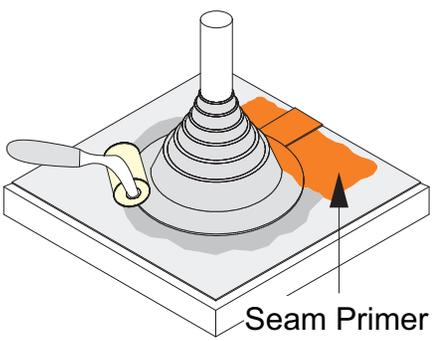
2



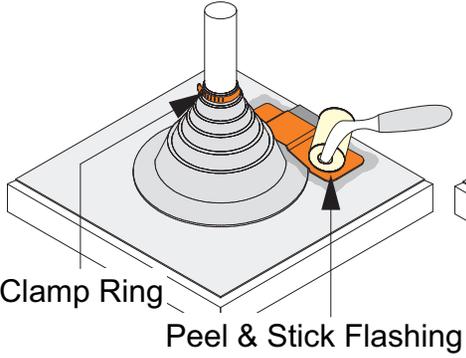
3



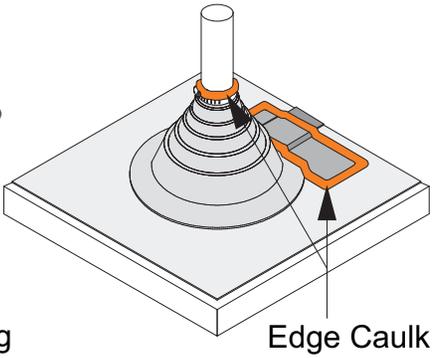
4



5



6



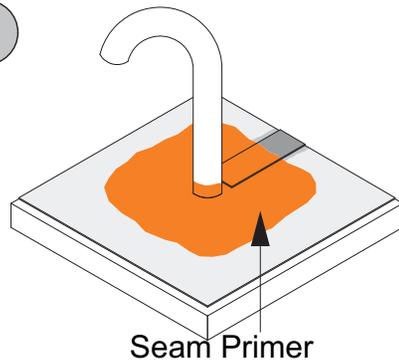
1. See "Cutting In A Penetration".
2. Size the Peel & Stick Pipe Boot to fit the pipe diameter and position over the pipe without removing the release liner from boot flange. Mark pipe at the top of the boot and 1/2" outside of the flange.
3. Raise or remove the boot. Apply Seam Primer to the deck membrane, extending past the marks you made. Allow to flash off. Apply Waterstop in a 3/8" wide bead 1/2" below the mark you made on the pipe. Remove the liner from the boot flange, and slide boot down to mate with the membrane. The inside top of the boot will sit in the bead of Waterstop.
4. Roll the boot flange. Apply Seam Primer to the T-Joint area where the boot flange extends over the Peel & Stick Flashing for 6" x 12". Allow to flash off.
5. Cut a 6" x 12" piece of Peel & Stick Flashing, remove the release liner, and apply the Flashing strip to the primed membrane & boot flange, centered on the T-Joint area. Hand roll. Install the stainless steel clamping band at the top of boot. Tighten to create a compression seal between the boot and the pipe.
6. Apply Edge Caulk to the top of the pipe boot and along all flashing and boot flange edges.



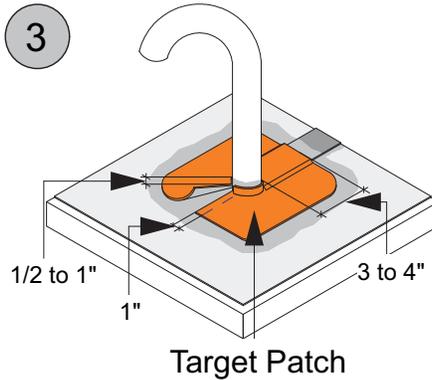
1

See "Cutting In A Penetration" for instructions on installing the membrane around a pipe penetration. Then continue steps 2 through 7 of this detail.

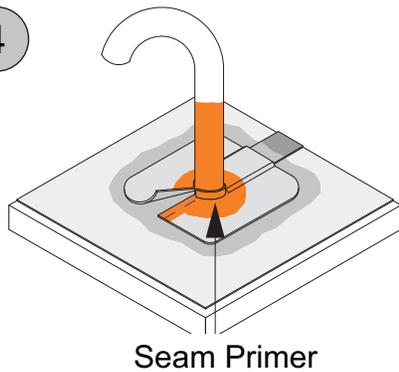
2



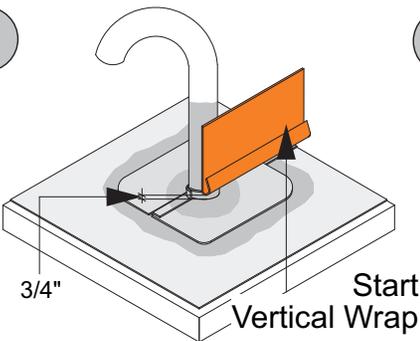
3



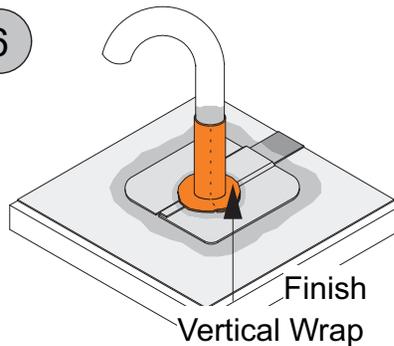
4



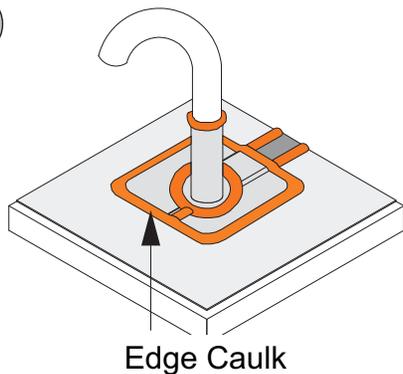
5



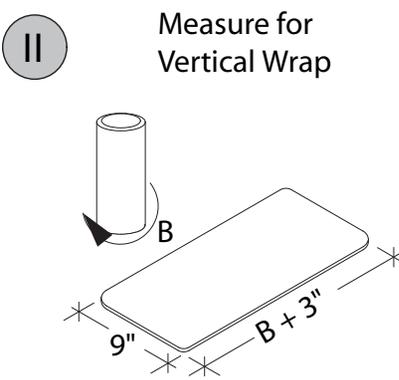
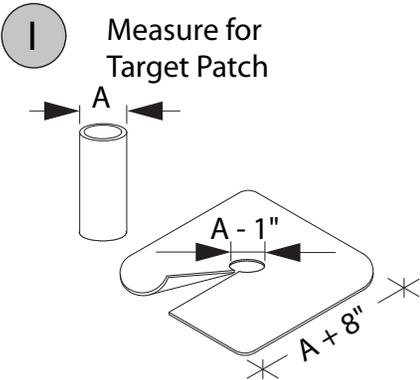
6



7



### Measurement Tips



1. See "Cutting In A Penetration".

2. Apply Seam Primer to the deck membrane extending 6" in all directions. Allow to flash off.

3. Cut a target patch from Peel & Stick Flashing. Refer to illustration "I". For penetrations without top access, cut the target patch as shown. Remove release liner, wrap patch around the pipe, and pull the flashing tightly around the pipe so that it overlaps itself by 1" and extends 1/2" up the pipe.

4. Apply Seam Primer to the target patch overlap area and to the vertical wrap flange mating area, including the penetration. Allow to flash off.

5. Cut a vertical flashing wrap. Refer to illustration "II". Remove half of the release liner and fold back bottom 1 1/2" of flashing to form flange. Press exposed tape onto primed pipe 1/4" above the deck. Wrap the flashing 3/4 of the way around the pipe. Apply Seam Primer to 3" of the adhered flashing end. Allow to flash off. Continue the wrap until the material ends, achieving a 3" overlap.

6. Roll the flashing down the pipe to the deck. Flare the flashing outward and down until it contacts the deck membrane and continue around the pipe. Apply Seam Primer to the flared base of the vertical wrap where the flashing will overlap itself. Allow to flash off. Continue the wrap to achieve the prescribed overlap, roll the remainder of the flashing material to the deck and flare to mate with the primed flashing. Hand roll the entire detail.

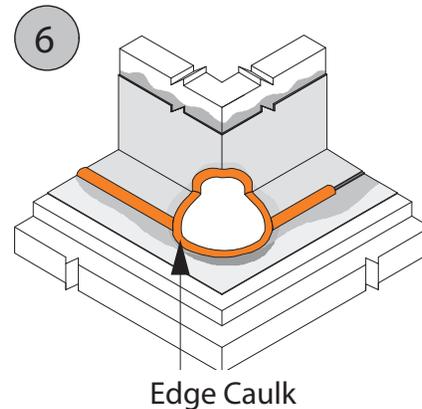
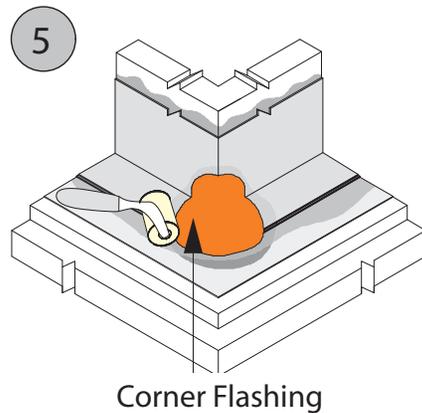
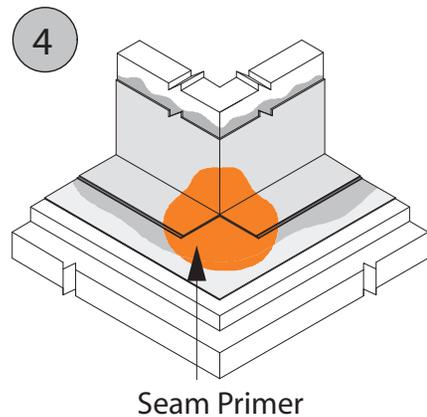
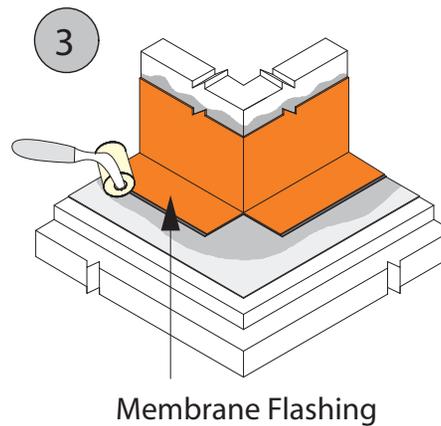
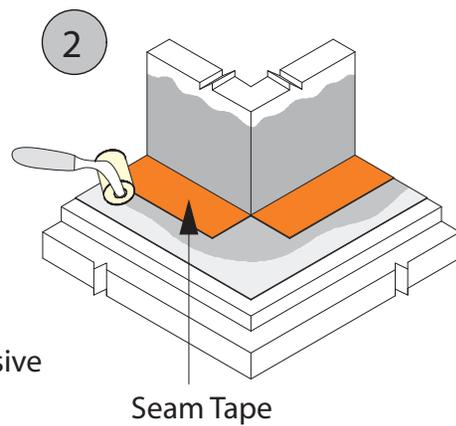
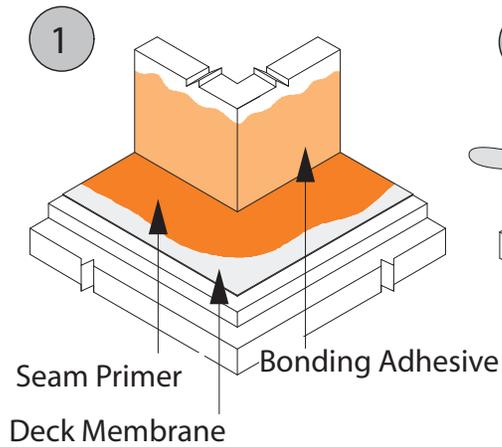
7. Apply Edge Caulk to all flashing edges.



# I Field Flashing A Penetration

03/2009

**GenTite® RRS**  
Residential Roofing Systems



1. Once the deck membrane is installed to the curb or outside wall corner, apply Bonding Adhesive to the vertical substrate to the intended flashing height and to the back of the membrane flashing. Apply Seam Primer to the deck membrane extending 4" from angle change. Allow to flash off.

2. Apply Seam Tape to primed deck membrane tight to the angle change, and roll with the seam roller with release liner still on tape.

3. Align edge of the flashing membrane with the Seam Tape, leaving 1/4" of the tape exposed. Press the membrane into the angle change to minimize bridging, and continue up the vertical. Hand roll.

4. Apply Seam Primer to the corner flashing area. Allow to flash off.

5. Cut a corner flashing from Peel & Stick Flashing using the template provided in the Seam Accessory kit. Remove half of the release liner and fold in half with the tape side exposed. Mate the flashing with the primed deck surface. Reach between the layers of flashing and press the upper flap into the point of the corner, using the sides of your hands. Tightly flare the flashing into the angle changes on the two sides of the corner. Avoid bridging and gaps. Hand Roll.

6. Apply Edge Caulk to all flashing and seam edges.

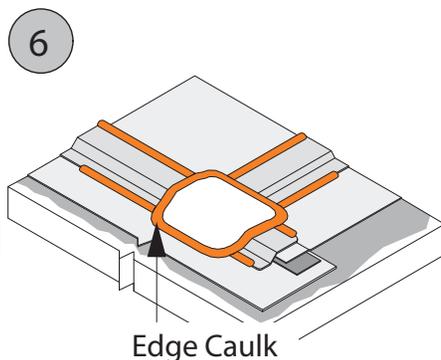
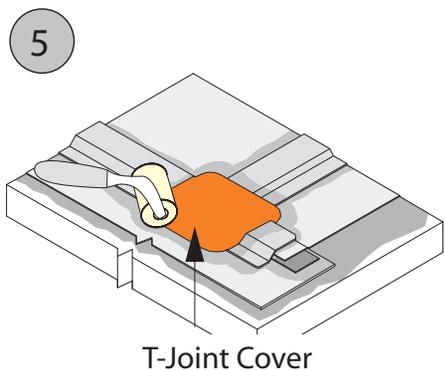
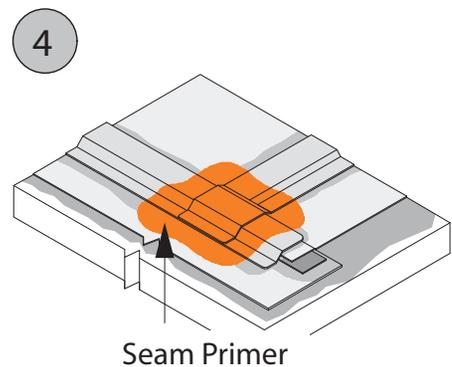
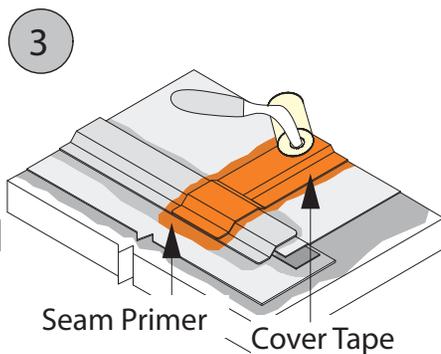
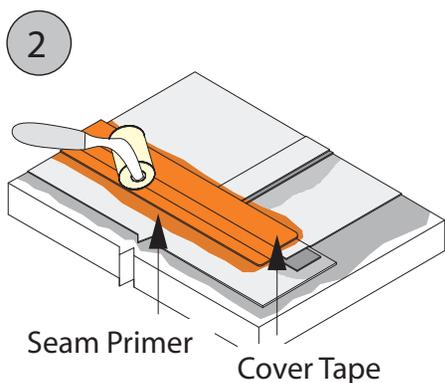
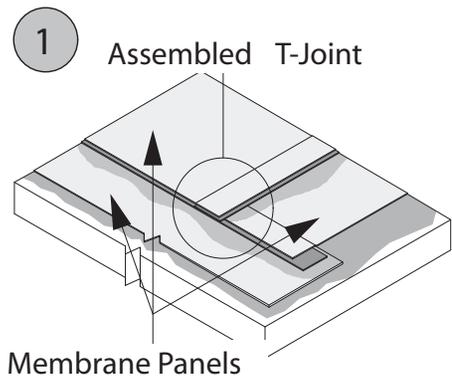


Note: Peel & Stick TPO membrane has factory applied adhesive on the back of the sheet, eliminating the need for application of Bonding Adhesive and Seam Tape as shown above. In lieu of applying Bonding Adhesive to the substrates, apply Substrate Primer, and allow it to flash off completely prior to installing the Peel & Stick TPO membrane. For membrane to membrane bonds, apply Seam Primer to bottom sheet as indicated above.

## J Curb or Wall Flashing & Outside Corner

03/2009

**GenTite<sup>®</sup> RRS**  
Residential Roofing Systems



1. Install and seam field sheets. Please see "Seam Assembly" for instructions on installing and seaming membrane panels.

2. With scrub pad & handle, apply Seam Primer to field seam. Allow primer to flash off, and then apply Cover Tape. Hand roll to ensure adhesion.

3. With scrub pad & handle, apply Seam Primer to field seam and to installed Cover Tape at intersection. Allow primer to flash off, and then apply Cover Tape. Hand roll to ensure adhesion.

4. Apply Seam Primer to T-Joint area, extending 5" from center of T-Joint in all directions. Allow to flash off.

5. Using template supplied in the Flashing and Seam Accessory Kit, cut a T-Joint cover from Peel & Stick Flashing. Remove release liner and apply T-Joint Cover, centered over T-Joint. Begin in the center, and smooth outward to avoid wrinkles or bubbles. Hand roll cover.

6. Apply Edge Caulk to all flashing and seam edges. This includes the T-Joint cover edges and the Cover Tape edges.

Note: Peel & Stick TPO membrane has factory applied adhesive on the back of the sheet, eliminating the need for application of Bonding Adhesive and Seam Tape as shown above. In lieu of applying Bonding Adhesive to the substrates, apply Substrate Primer, and allow it to flash off completely prior to installing the Peel & Stick TPO membrane. For membrane to membrane bonds, apply Seam Primer to bottom sheet as indicated above.

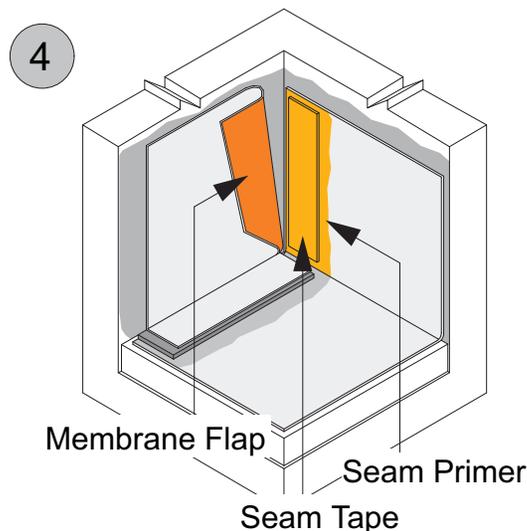
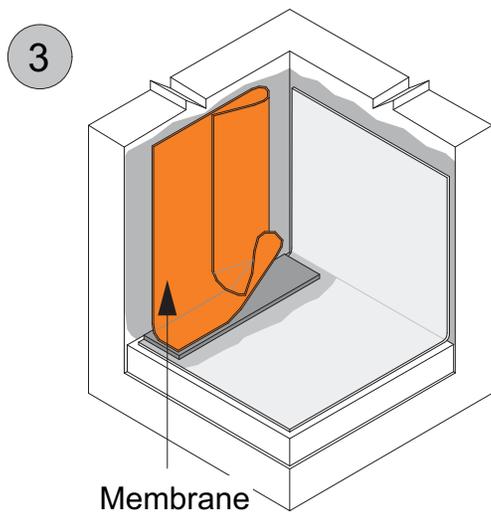
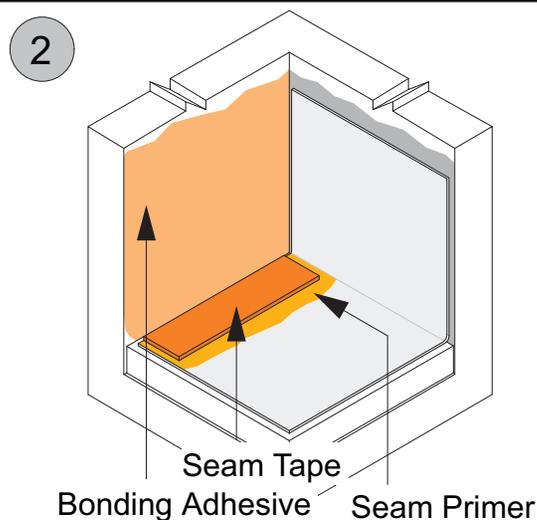
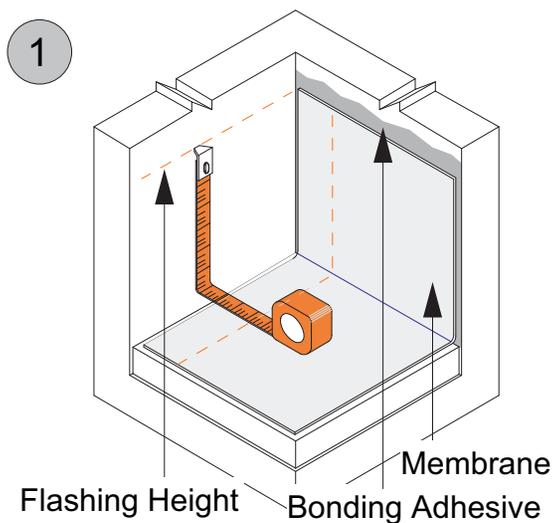


**K**

## T-Joint Cover

03/2009

**GenTite<sup>®</sup> RRS**  
Residential Roofing Systems



Note: Peel & Stick TPO membrane has factory applied adhesive on the back of the sheet, eliminating the need for application of Bonding Adhesive and Seam Tape as shown above. In lieu of applying Bonding Adhesive to the substrates, apply Substrate Primer, and allow it to flash off completely prior to installing the Peel & Stick TPO membrane.

1. Measure the area to be flashed from the intended flashing height to the deck and into the field 3" and cut your flashing membrane accordingly.

2. Prime the deck sheet and allow to flash off prior to applying the 3" Seam tape. Hand roll Seam Tape with release liner still on.

3. With the assistance of a helper, align the edge of the flashing membrane with the edge of the installed seam tape leaving 1/2" of the release liner exposed and roll the flashing tightly into the angle change and then up the vertical substrate without trapping air or excessively bridging the angle change. Reach under the seam flap and grasp the edge of the seam tape release liner and remove the release liner while smoothing the membrane onto the seam tape and then hand roll with a 2" roller. Trim the excess membrane to form a 3" flap to extend onto the adjacent vertical substrate. The flap should be trimmed along the deck edge at a 45 degree angle as shown in step four.

4. Prime the vertical seam area and allow to flash off prior to applying the seam tape to the seam area. After the seam tape is applied with hand pressure, hand roll the Seam Tape with the release liner still on. Fold seam flap over Seam Tape and remove release liner while smoothing the membrane flap onto the Seam Tape. Hand roll the assembled seam.

5. See "Inside Corner - Part 2".



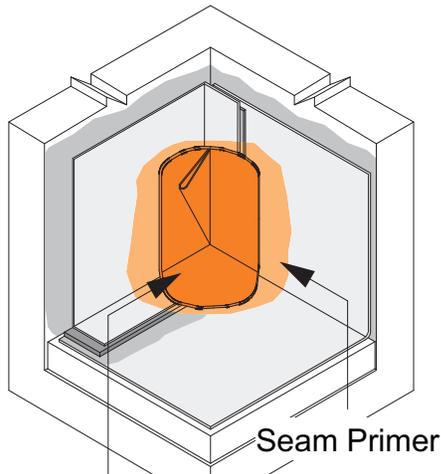
**L**

## Inside Corner - Part 1

03/2009

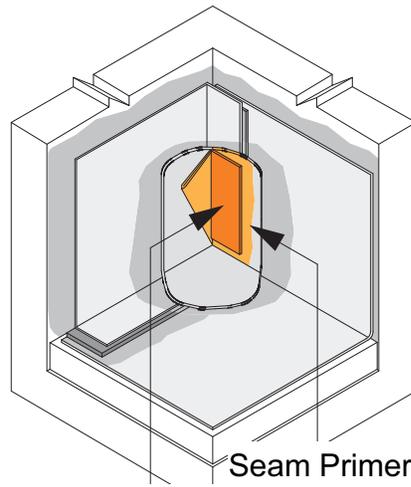
**GenTite<sup>®</sup> RRS**  
Residential Roofing Systems

2



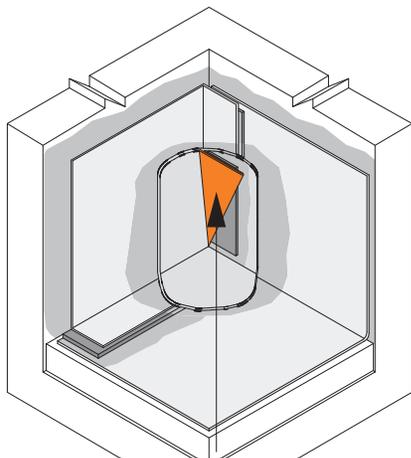
Peel & Stick Flashing

3



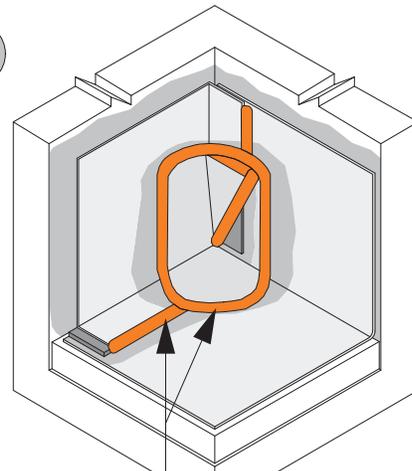
Peel & Stick Flashing

4



Peel & Stick Flashing  
"Pig's Ear"

5



Edge Caulk

1. See "Inside Corner - Part 1".

2. Apply Seam Primer to inside corner flashing area and allow to flash off. Peel release liner from half of corner flashing and fold in half with the exposed tape facing outward. Set the flashing onto the deck membrane 1/2" from angle change in both directions and square to corner. Roll the flashing tightly into the angle change and extend upward. Once the flashing is set, peel the second half of the release liner off and carefully roll the flashing onto the primed surface. When you reach the adjacent vertical surface, roll the bottom portion of the flashing upward before rolling the vertical portion in from the side. This creates a small pocket called a "Pig's Ear". Pinch the pocket tightly closed. Hand roll the entire flashing, including the Pig's Ear.

3. Apply Seam Primer to corner flashing and side of Pig's Ear that will be adhered to Seam Tape. Allow to flash off. Install Seam Tape. Hand roll with liner still intact.

4. Remove release liner from Seam Tape, and press Pig's Ear into tape. Hand Roll.

5. Apply Edge Caulk to flashing and seam edges.

