3.5 Corners

3.5.1 Inside Corner

- **Folded Inside Corner**

  - **Applicability**
  At inside corners, the EPDM membrane can be folded into a pig-ear and adhered to the upstand as illustrated below. This offers a non-penetrating, watertight detail that can be applied on any roof. Note however that this detail becomes more difficult to execute and less esthetic on higher upstands.

  - **Installation Instructions**
  The wall flashing is fully adhered to the upstand with the techniques previously described. Work the EPDM membrane tightly into the angle change and continue up against the upstand.

  ![Fig 3.5.1](image)

  Continue the flashing up against the other wall, allowing the membrane to form an internal pig-ear as illustrated. Close the pig-ear and work from the base to remove all entrapped air.

  ![Fig 3.5.2](image)
It is recommended to apply Splice Adhesive in order to close the pig-ear against the upstand. The use of QuickPrime Plus or Bonding Adhesive is also allowed, although less performing.

Close the pig-ear and roll the adhered part tightly into the corner. Properly terminate the flashing with an appropriate termination detail.
### Inside Corner using 229 mm (9”) QuickSeam FormFlash

**Applicability**

When flashing higher upstands, the EPDM membrane is cut at the corners so that a vertical seam can be made at the angle change. The vertical seam is completed with 76 mm (3”) QuickSeam Splice Tape in accordance with general seaming techniques.

An alternative is to cut the membrane completely away to create a butt joint. In this case, the flashing techniques remain the same, only the length of the first flashing piece needs to be sufficient to cover the base overlap with the EPDM membrane (100 mm), the parapet height, plus 100 mm over the top of the parapet.

**Installation Instructions**

The inside corner details is a two step process using two identical pieces of QuickSeam FormFlash to cover the pinhole in the corner. Apply QuickPrime Plus on the membrane, to an area covering 150 mm out from the pinhole on the horizontal and 250 mm on the vertical surface.

![Fig. 3.5.5](image)

Both pieces of QuickSeam FormFlash are 229 mm wide and 300 mm long. Make sure to round all corners of the cut QuickSeam FormFlash pieces. Allow the QuickPrime Plus to flash off completely before mating the QuickSeam FormFlash.

Fold the first QuickSeam FormFlash piece back onto itself lengthwise, making sure the fold is approximately 10 mm offset from the center of the piece. Fold back a square base on the smaller half and remove the release paper.

Position the folded base on the horizontal surface, 10 mm out from the upstand, as illustrated. Work the flashing piece tightly into the angle change and continue up against the upstand opposite to the vertical seam.

![Fig. 3.5.6](image)

![Fig. 3.5.7](image)
Work the QuickSeam FormFlash piece into the two remaining angle changes, forming a pig ear as illustrated. Beginning at the base, press the piece onto the upstand to form the pig ear fold. Work from the base of the fold to remove any entrapped air. Roll the QuickSeam FormFlash gently with a silicone rubber roller before removing the protective film.

![Fig. 3.5.8](image1)

Apply QuickPrime Plus to the area that will be covered by the pig ear as illustrated and adhere the pig ear on the side of the vertical seam. Roll all adhered parts of the QuickSeam FormFlash piece with a small 50 mm wide silicone roller.

![Fig. 3.5.9](image2)

Use the second piece of QuickSeam FormFlash to cover the pig ear fold after reapplying QuickPrime Plus in the designated area. Make sure to center the width of the second piece over the side edge of the first piece and work it completely into the angle change. Roll the entire flashing piece with a silicone roller. Seal all exposed cut edges with Lap Sealant.

![Fig. 3.5.10](image3)  ![Fig. 3.5.11](image4)
3.5.2 Outside Corner

Outside Corner using 229 mm (9") QuickSeam FormFlash

At outside corners, the EPDM flashing can be continuous (wrap piece on smaller penetrations), or in separate flashing pieces that are spliced together with a vertical seam at the corner. In both cases, the pinhole at the bottom of the outside corner will be waterproofed using a square piece of QuickSeam FormFlash of 229 mm wide that is cut circular at one end. Round off the cut corners on the opposite side. The use of a heat gun can be advantageous to properly work in the QuickSeam FormFlash.

After completion of (eventually) the vertical seam at the corner, clean the corner area with QuickPrime Plus as illustrated. Fold the QuickSeam FormFlash piece in half with the release paper on the outside. Remove the paper from the square half.

Position the flashing piece with the center aligned at the corner. Wrap both sections around the corner and mate them to the vertical upstand.

Remove the second half of the release paper as well as the protective film and work the QuickSeam FormFlash from the tape side down to the angle change, as illustrated. Work the piece into the angle and continue out approximately 20 mm onto the horizontal surface, without overstretching. The diamond pattern into the material should remain visible. Fold the remaining of the circular part onto the horizontal surface, taking care to evenly distribute the stresses.
Roll the corner detail with a silicone roller from the inside towards out. Apply Lap Sealant along all exposed cut edges of the QuickSeam FormFlash.

**Note:**
If the different EPDM flashing strips are butt-jointed at the corner edge, the QuickSeam FormFlash piece should be long enough to cover the base overlap with the EPDM membrane (100 mm), the height of the upstand and an additional 100 mm to cover the top of the upstand when necessary.

The one-piece outside corner detail cannot be executed in regular FormFlash using Splice Adhesive. An outside corner detail in regular FormFlash always requires the use of 2 pieces (see hereafter).
Alternative Outside Corner Detail

When dressing small roof penetrations (skylights, HVAC units,...), it can be more practical and/or cost-effective to flash in the upstands completely with QuickSeam FormFlash instead of using EPDM flashing strips. In this case, the outside corner detail is a two-step process.

Apply QuickPrime Plus to the EPDM membrane and upstand as illustrated.

![Fig. 3.5.18](image1)
![Fig. 3.5.19](image2)

Allow the QuickPrime Plus to flash off completely before mating the QuickSeam FormFlash. Install the first flashing piece with a base overlap of 75 mm and exceeding the corner by 75 mm. Work the QuickSeam FormFlash gently with a 50 mm wide silicone rubber roller while it is still protected by the protective film. Remove the protective film and work the corner tightly into the 90° angle. In order to complete the corner wrap, it is recommended to trim off half of the strips of FormFlash exceeding the corner. Apply heat if necessary. Avoid overheating and overstretching of the QuickSeam FormFlash.

![Fig. 3.5.20](image3)

Repeat this procedure, starting from the other side to provide an overlap of at least 75 mm at the corner. Apply QuickPrime Plus on the area to be overlapped, complete the corner detail and seal all exposed cut edges of the QuickSeam FormFlash with Lap Sealant.