

# QBase<sup>®</sup> Low Slope Mount

## Installation & Flashing Guidelines



**Quick Mount PV<sup>®</sup>**

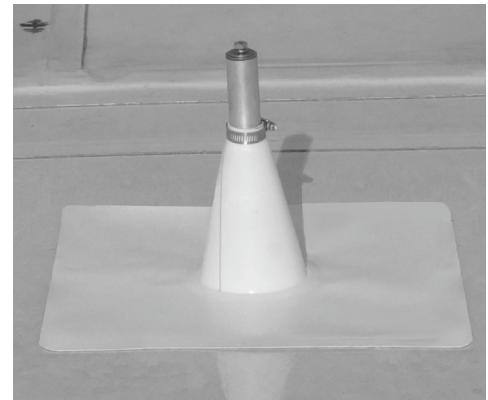
# Low Slope Mount Installation & Flashing Guidelines

The Quick Mount PV Low Slope Mount is one of the strongest mechanically attached standard solar mounts available. The aluminum QBase® post has a 50 year life and is warranted to 20 years. The Low Slope Mount is available in 7", 9" and 12" heights and works on the low slope roof types below:



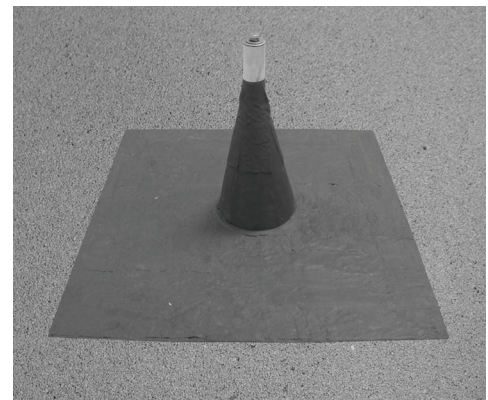
## Single Ply Membranes

- TPO
- PVC
- EPDM (rubber roofing)



## Asphaltic Roofing

- Rolled roofing
- Modified bitumen roofing
- Built up roofing (tar and gravel)



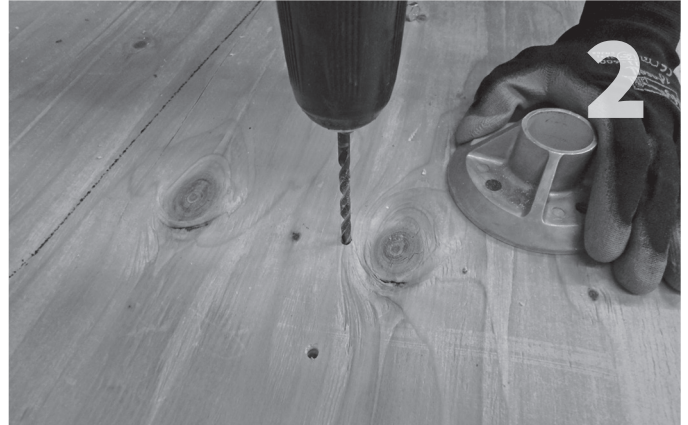
# QBase® Low Slope Mount Installation Instructions

**WARNING:** Quick Mount PV products are NOT designed and should NOT be used to anchor fall protection equipment.

**Installation Tools Required:** Drill with 7/32" bit, impact gun with 1/2" socket, 1 tube of sealant compatible with roofing materials, pencil, chalk line



Locate the desired mount placement over a rafter (or custom wood blocking). Using the base as a template, mark the two penetration points with either a pen or light drilling. Use two opposing holes on the base plate, parallel to the structural member.



Drill both pilot holes with a 7/32-inch bit. Make sure to hold the drill square to the rafter. The lag bolts must be anchored into a structural member, so it is very important to hit the center of the rafter with your pilot holes. Fill the pilot holes with a sealant compatible with roofing materials.

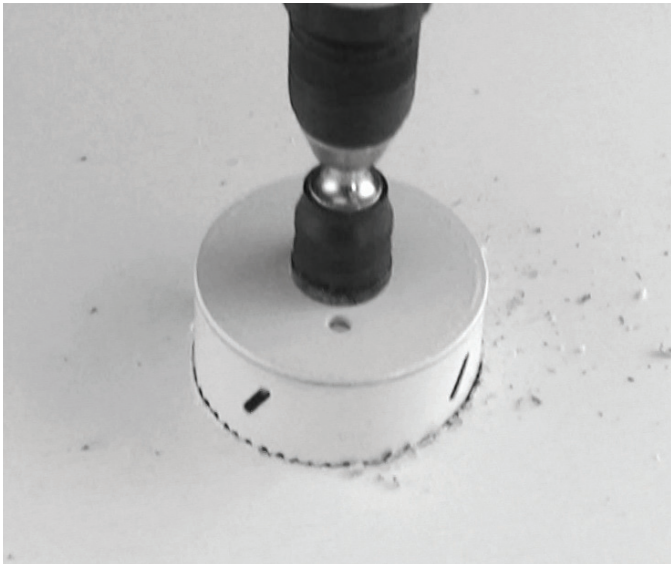


Prior to attaching the base to the roof, place the grade-8 hex bolt in the bottom of the base and screw the post (item 4) in. This is easier than adding the post after securing the base to the roof. Attach the base/post assembly to the roof with two lag bolts.



Attach the hardware to the top of the post. (Be sure to seal off the post from weather exposure with the sealing washer, in the interim before racks are installed.) You are now ready to flash the mount, roof around it, and attach racking. Aluminum flashings for built-up roofs are available from Quick Mount PV in 4" and 8" cones (sold separately). For membrane roofs, be sure to use manufacturer-specified flashing and utilize the services of a certified roofer.

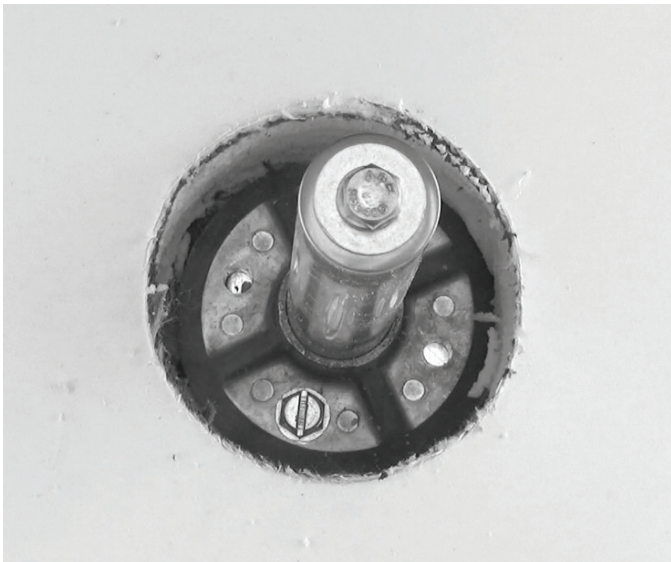
# Working On Insulated Membrane Roofs



For membrane roofs with insulation, remove the membrane insulation with a hole saw or suitable cutting tool.



Drill pilot holes directly into to the deck or the rafter.



Bolt the QBBase® with attached post directly to the deck or rafter using two lag bolts.



Re-insert insulation around post before sealing hole with flashing.

# Single Ply Membrane Flashing

**Please note: Building code requires flashing per roofing manufactures instructions.**

Single Ply membrane typically requires that qualified roofers install flashings using heat welded or chemically welded flashing from approved suppliers, but other solutions can be used depending on circumstances.

## TPO

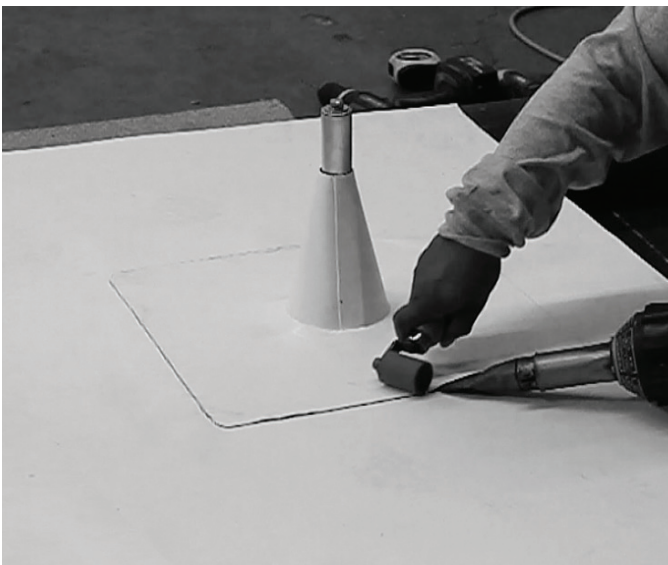
- Heat welded flashing purchased from roofing manufacturer.
- Chemlink E-Curb

## PVC

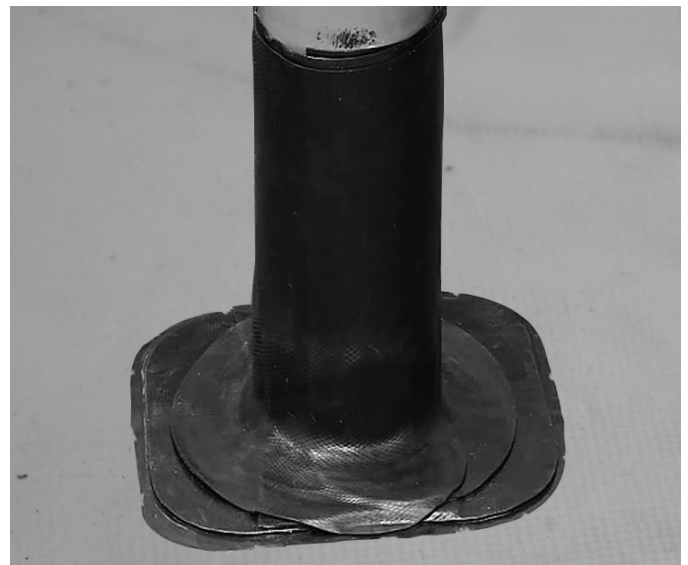
- Heat welded or chemically welded flashing purchased from roofing manufacturer.
- Chemlink E-Curb

## EPDM (rubber roofing)

- Chemically welded flashing purchased from roofing manufacturer.
- Chemlink E-Curb
- Soprema ALSAN flashing - if aged over 2 years.



Thermally welded flashing on TPO roofing.



Chemically welded flashing on EPDM roofing.

# Asphaltic Roofing Material Flashing

Modified bitumen membranes typically require that a qualified roofer install metal flashings using torch down the method shown below, but other solutions, including Soprema ALSAN flashing or Chemlink E-Curb can be used depending on circumstances.

## Rolled Roofing

- Soprema ALSAN flashing
- Chemlink E-Curb
- Torch down metal flashing

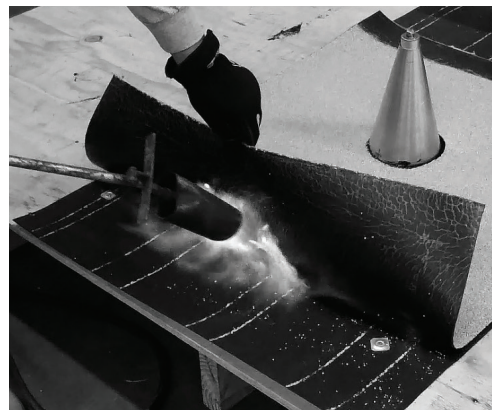
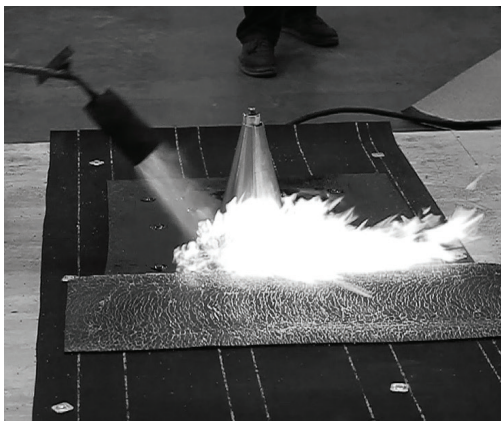
## Modified Bitumen Roofing

- Soprema ALSAN flashing
- Chemlink E-Curb
- Torch down metal flashing

## Built-up Roofing (Rubber Roofing)

- Soprema ALSAN flashing may work with smaller sized pebbles.
- Chemlink E-Curb
- Torch down metal flashing

**Torch down flashing installation must be performed by qualified roofer.**

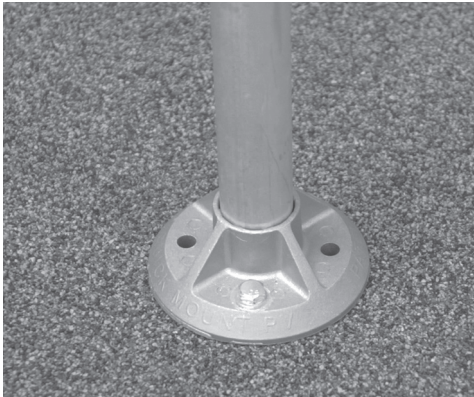


# Chemlink E-Curb Flashing Installation Instructions

Find more information at [www.chemlink.com/index.php/chemlink-products/e-curb-system](http://www.chemlink.com/index.php/chemlink-products/e-curb-system).

E-Curbs are designed for use on granulated modified bitumen, asphalt and coal tar B.U.R. (built up roofing). E-Curbs are specified for PVC, PIB, and TPO single ply roofing membranes. E-Curbs are highly versatile for sealing penetrations around solar panel mounts, HVAC, electrical, and any type of structural supports. TPO Primer is required for use with TPO.

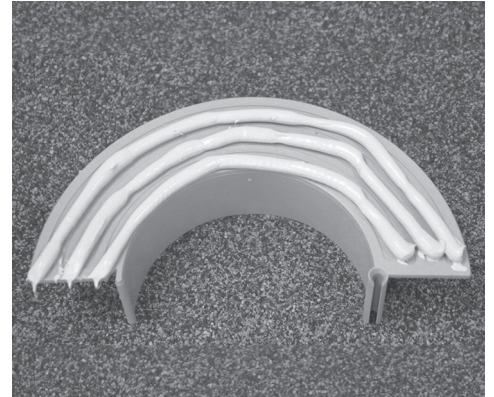
**Materials Required:** Chem Link's 5" E-Curb, M-1 Structural Adhesive/Sealant, 1-Part Pourable Sealant



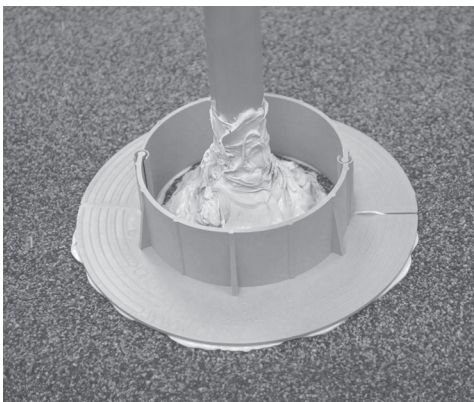
Install QBase to structural member. For more details refer to the QBase Low Slope installation instructions.



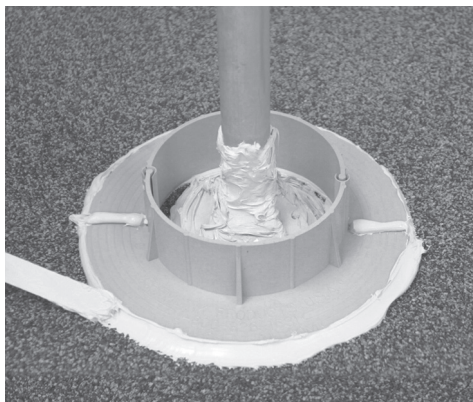
Seal around the base of mount using Chem Link's M-1. Coat the QBase, bolts and post with M-1 to 3" above roof line.



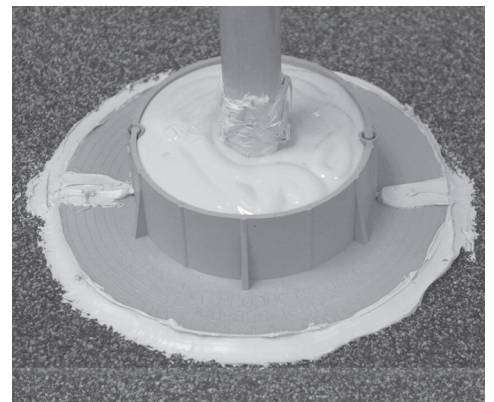
Apply three ¼" beads of M-1 to the flat base of both E-Curb sections.



Place E-Curb sections to form a circle around the QBase, making sure to lock them together. Press firmly in place until excess adhesive extrudes from the outside edges.



Apply M-1 around circumference of E-Curbs and where the two sections intersect. Use the wooden spatula to spread the sealant to form a smooth surface.



Fill the E-Curb cavity to the top with Chem Link's 1-Part solution.

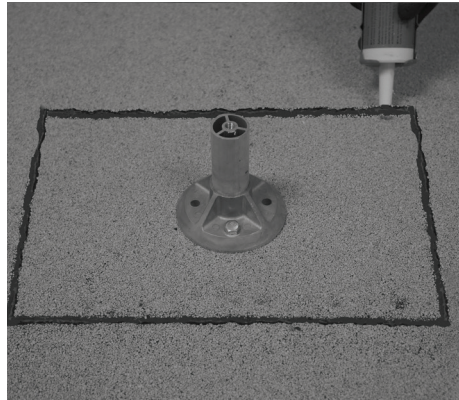
**NOTE:** Be sure to thoroughly read and follow manufacturer instructions for installing Chem Link's E-Curb Penetration System. Find instructions here: [www.chemlink.com/e-curb](http://www.chemlink.com/e-curb)

# Soprema ALSAN Flashing Installation Instructions

Find more information at [www.soprema.us](http://www.soprema.us).



Clear away all debris around the mount.



Apply roof compatible sealant in a square around the mount where the flashing will be placed.



Place flashing over mount and nail down at each corner of the flashing.



Scuff up the surface of the flashing with sandpaper.



Apply a base coat of ALSAN over the flashing, overlapping the edge of the flashing by at least 4".



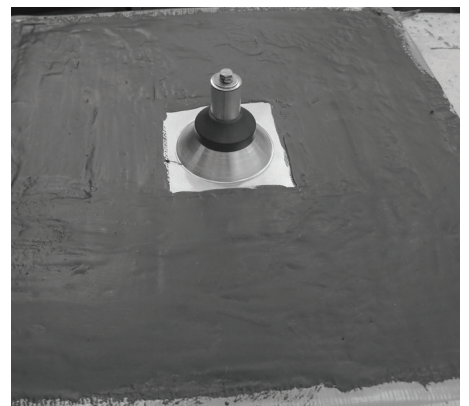
Embed four pieces of fleece fabric scrim around the flashing, overlapping the edge of the flashing by 4".



Add additional ALSAN flashing between layers where fleece scrim overlaps.



Apply a thin top coat of ALSAN flashing over entire fleeced area. Let dry for four hours.



Apply a bead of EPDM approved sealant where flashing meets post and install EPDM counter flashing collar.