



## Penetration Detail Instructions

### GUTTERS

1. Thoroughly pressure wash gutters. Rusted areas must be replaced with new gutters.
2. Apply Metacrylics Rust Inhibitor Acrylic Black Primer to gutters at the rate of 1 gallon/SQ.
3. 3-course with alternating layers of HS Silicone & fabric over all joints or apply Silicone Gel with no reinforcement over joints. Do not use Peel & Coat on any gutters.

### PARAPET COPING (CAP)

1. Thoroughly wash or pressure wash parapet coping.
2. Prime coping. Any rusted areas must be primed with Rust Inhibitor Primer (Metacrylics Rust Inhibitor Acrylic Black Primer or Metacrylics 2-Part Epoxy Primer).
3. 3-Course over the top of the coping (cap) joints and exposed screws with alternating layers of Metacrylics HS Silicone and fabric or apply Metacrylics Peel & Coat tape to coping joints and exposed screws and apply Metacrylics HS Silicone/Silicone Gel over tape.

### NOSINGS, EDGE FLASHINGS, & GRAVEL STOPS

1. Apply primer to all edge flashings. If new, wipe with vinegar or suitable cleaning agent.
2. Apply 3-Course with alternating layers of Metacrylics HS Silicone & 6" fabric or Silicone Gel (without fabric reinforcement) over the top of the edge flashing.

**WOOD BLOCKS** 3. Apply the 3-Course or Gel up 2"-3" onto flashing and 3"-4" onto roofing surface.

1. Lift and remove block.
2. Apply Silicone Gel to the area the block was sitting.
3. Allow to dry and replace block.
4. If damage to the roof occurs while removing block, 3-Course with HS Silicone or Silicone Gel & Fabric and replace block when dry.

### WOOD SLEEPERS (HVAC SUPPORTS)

1. Jack up HVAC unit and remove sleeper.
2. Apply Metacrylics HS Silicone at the rate of 2 gallons/SQ in the area the wood sleeper had been or granulated slip sheet under entire area of sleepers and HVAC.
3. When the system is cured, replace sleepers. Be sure that lags attaching HVAC to sleepers are not too long and will not penetrate the roof system.
4. If sleepers cannot be moved or lifted, they must be completely encapsulated with Metacrylics HS Silicone. The area under HVAC should be coated with Metacrylics HS Silicone.



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### HVAC DUCTING

1. Thoroughly pressure wash all ducts.
2. 3-Course duct joints with alternating layers of Metacrylics HS Silicone & fabric.
3. Apply 2 gals/SQ of Metacrylics HS Silicone in two applications of 1 gal/SQ of HS Silicone.

### SKYLIGHTS

1. 3-Course with alternating layers of Metacrylics HS Silicone and fabric up the side of the skylight curb a minimum of 3" and onto the roof surface area 3". Be careful not to cover any weep (drainage) holes in the skylight.
2. Apply Silicone Gel to all exposed screw heads.

### PITCH POCKETS

1. Fill pitch pocket with Metacrylics HS Silicone or Silicone Gel
2. 3-Course with HS Silicone & fabric over the top of the pitch pocket and down to the base of the pitch pocket, and at least 3" onto the roof.
3. Apply Silicone Gel up and around the penetration coming from the pitch pocket a minimum of 6".

### SCUPPERS & DRAINS

1. Remove all old asphalt, mastic, and roofing materials around and inside the scupper. For drains, remove the drain screen, clamp ring, and screws.
2. Thoroughly apply Metacrylics primer to scuppers and drains.
3. For scuppers:
  1. Apply Metacrylics HS Silicone liberally to the inside and outside of the scupper
  2. Cut an appropriate size piece of fabric for the width of the scupper and embed into the Silicone inside and outside of scupper a minimum of 4".
  3. Apply a cover coat of Metacrylics HS Silicone to saturate and encapsulate the fabric.
4. For drains:
  1. 3-Course with alternating layers of HS Silicone or Silicone Gel & fabric into the drain pipe at least 2". Use a 20" or 40" square piece of fabric and place over the drain, cutting a hole out for the drain.



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energy efficient coatings

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### PLUMBING VENT

1. 3-Course with alternating layers of HS Silicone and fabric a minimum of 3" up vent and 3" onto roof surface or seal with Silicone Gel 3" up vent and 4" down onto roof surface.

### CURB

1. 3-Course with alternating layers of HS Silicone and fabric a minimum of 3" up curb and 3" onto roof surface or seal with Silicone Gel 3" up curb and 4" down onto roof surface.



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