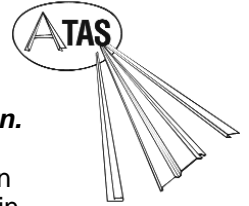


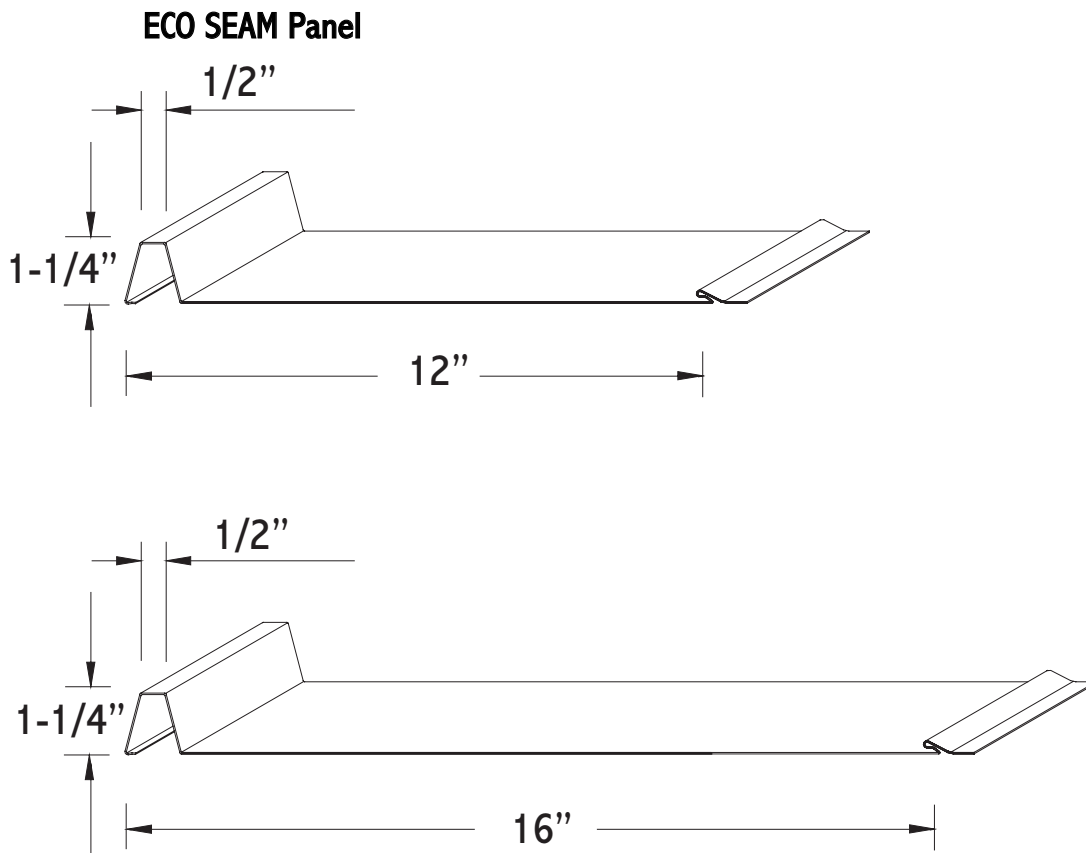
# Eco-Seam™

## Installation Guide



**Review and understand complete guide before beginning installation.**

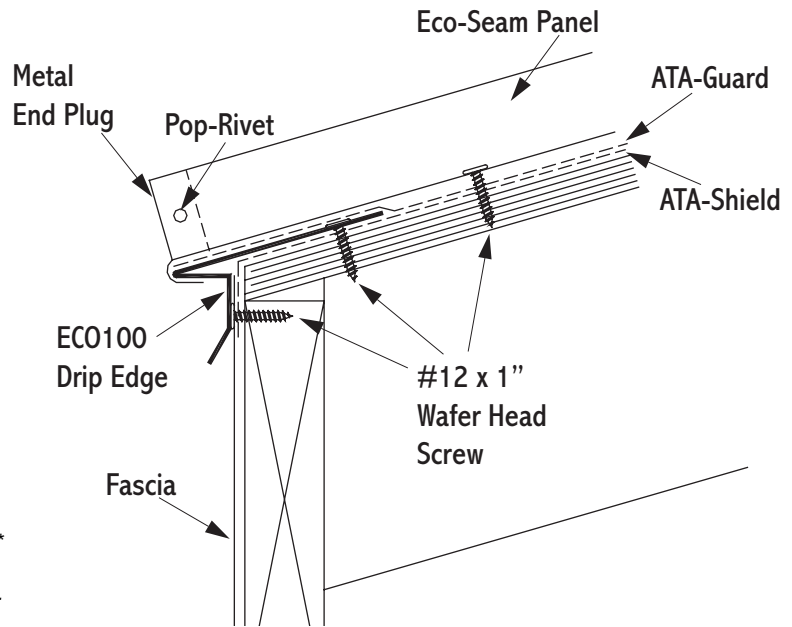
This guide has been prepared as suggested details to particular design conditions. Each condition has certain limitations to performance, aesthetics or economics. Professionals qualified to assess this information for a specific project, should determine that the selection and installation are made to their requirements. ATAS **cannot** assume any responsibility for the actual selection and/or installation of materials. The panels, flashings and trim shown in this guide are installed over solid and plumb substrate. It is assumed that the structure has been designed and prepared in accordance with local building codes.



Eco-Seam is a one-piece, positive locking standing seam panel that can be fastened directly to purlins as well as to solid underlayment. Eco-Seam panels are roll-formed from .032 aluminum and 24 gauge Metallic Coated steel. 16 oz copper is available subject to minimum quantities and lead times. Eco-Seam panels are available in 12" and 16" widths. Panel lengths are cut to customer specifications, with a minimum of 2'-0" and a maximum to transportation limitations. Specify with or without stiffening ribs. Texture may be smooth or stucco embossed. Kynar 500® or Hylar 5000® based finish is available in 30 colors. An anodized finish is available in clear or bronze.

# Eave Detail

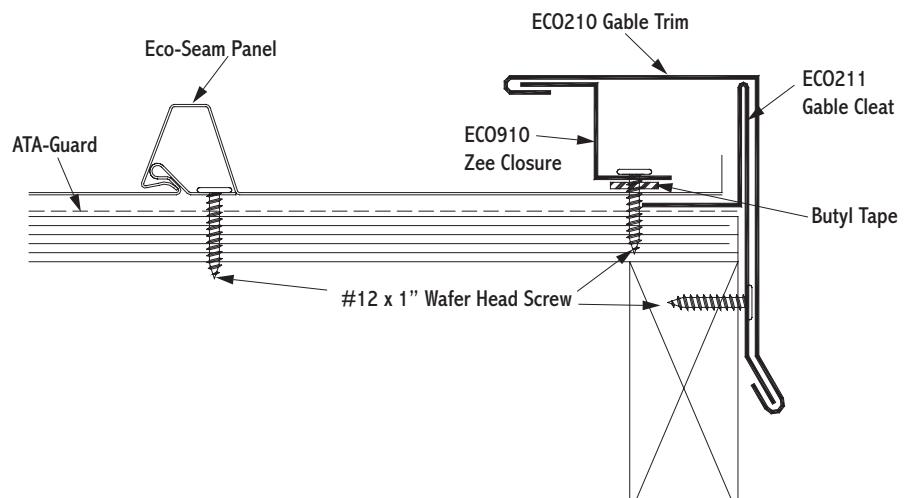
1. In re-roofing applications: cut back and remove existing shingles and drip edge to be flush with the eave and gable lines, or as required to install underlayment.
2. In all applications: apply ATA-Shield\*\* along eave and up the roof to a point at least 24" beyond outside face of exterior wall.
3. Install drip edge against fascia. Lay ATA-Guard over eave trim.
4. Trim (cut) seam and interlock back to allow for turn down. Install panel by sliding lower flanged edge over drip edge. Fasten panel with wafer head screws.
5. Optional end closure is to pop-rivet cap in place as shown in sketch.



*General Note: Before any installation be sure to lay ATA-Shield\*\* in all areas where ice & water can occur. ATA Guard or appropriate underlayment should be installed over the entire roof.*

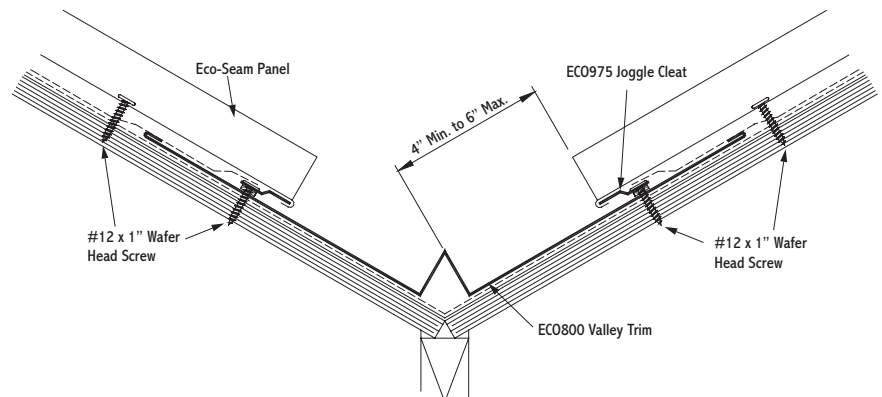
# Gable Detail

1. At gable detail, install gable trim starter cleat with appropriate fasteners at 2'-0" into fascia board.
2. Install panel at gable start detail.
3. Apply double-faced butyl sealant as circled in sketch. Fasten "Z" closure through panel and into substrate.
4. Install starter cleat at end detail same as start detail.
5. At gable end detail, cut panel to required width. Bend panel as shown. Install zee as in start detail.
6. At both ends snap gable/rake trim over starter cleat and "Z" closure to lock into place. Pop-rivet these two pieces together at 1 per length.



# Valley Detail

1. Install ATA-Shield\*\* approximately 19 1/2" up both side of the valley line.
2. Lay valley pan in valley center. Locate joggle cleat at 4" to 6" from valley center.
3. Install joggle cleat. Fasten 6" o.c. through butyl tape and pan into substrate.
4. Turn under edge of panel to slide into joggle cleat. Fasten with wafer head screws.



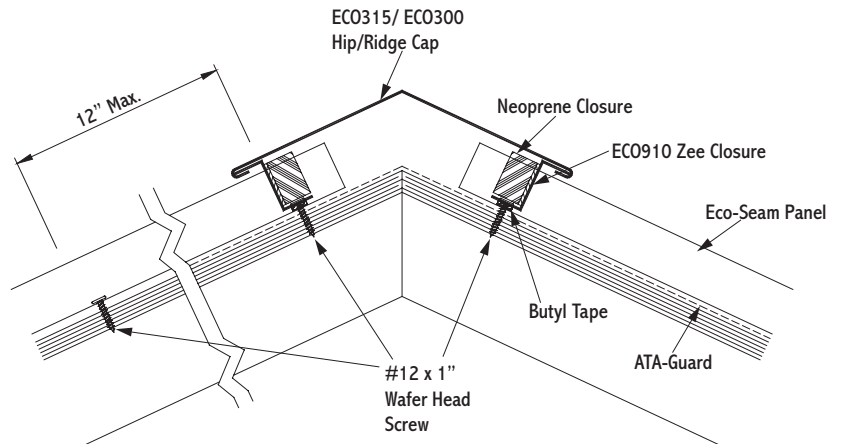
**Underlayments:** ATA-Guard\* is a polyolefin based, 100% asphalt free, high strength reinforced roofing underlayment for use on steep slopes beneath metal roofing. 1000 sq. ft. per roll at 48" wide.

**Underlayments:** ATA-Shield\*\* is the recommended self adhesive underlayment for eaves, sidewall and any critical areas exposed to ice damming and extensive water run off. Available in 65'-8" x 3' 3-3/8" rolls (200 sq. ft. per roll).

# Hip & Ridge Detail

Hip and ridge applications are handled in the same manner.

1. Install ATA Guard underlayment over the hip/ridge line.
2. After panels are installed, cut "Z" closure to fit in between battens and install in butyl tape using 4 fasteners.
3. Seal neoprene strips behind "Z" closures (notched neoprene for ridge; straight neoprene for hip).
4. Snap hip/ridge cap over "Z" closures for it to lock into place. Pop-rivet one side only to allow for expansion and contraction.

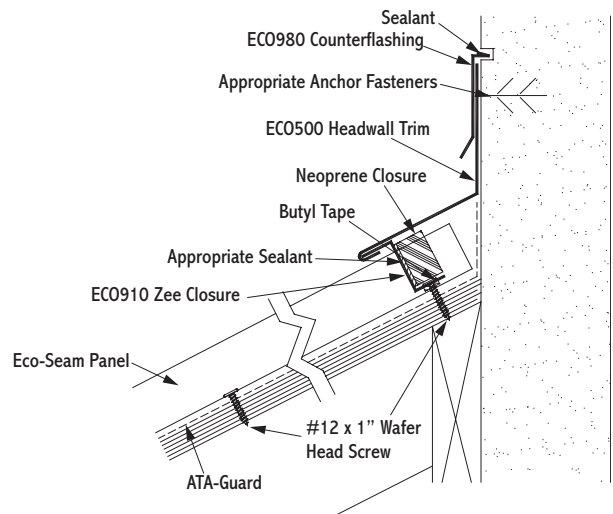


Notes:

- \* Trim must be pop-riveted to Z in at least (1) location.
- \* Unless otherwise specified, all fasteners for trim components at 2'-0" o.c.

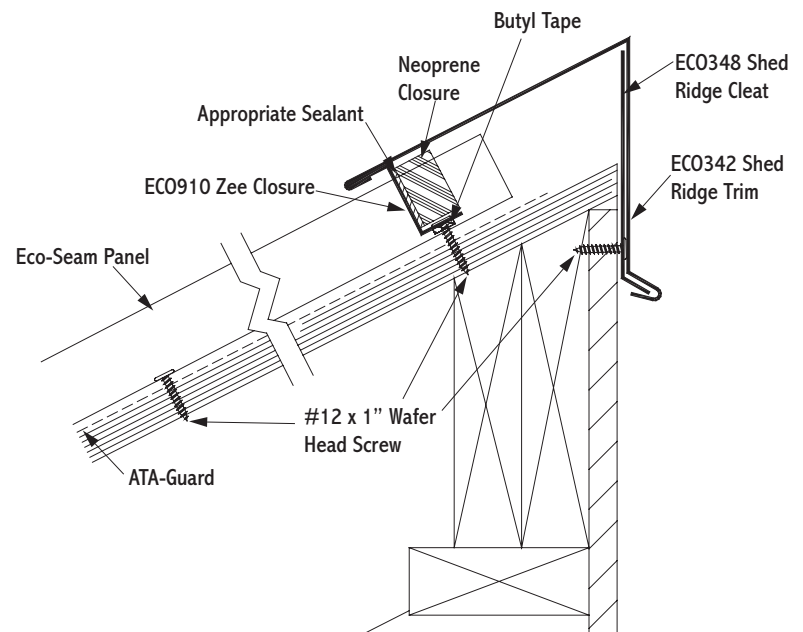
# Headwall Detail

1. Install ATA Guard up to the edge of roof plane. Install metal panel to the edge of substrate.
2. Place "Z" closure in butyl tape at top of panel. Fasten Zee through butyl tape and panel into substrate using 4 fasteners. Seal neoprene closure into place behind "Z" closure.
3. Install headwall transition over "Z" closure. Fasten to wall with appropriate anchor fasteners.
4. Apply counterflashing over the headwall trim, as required.

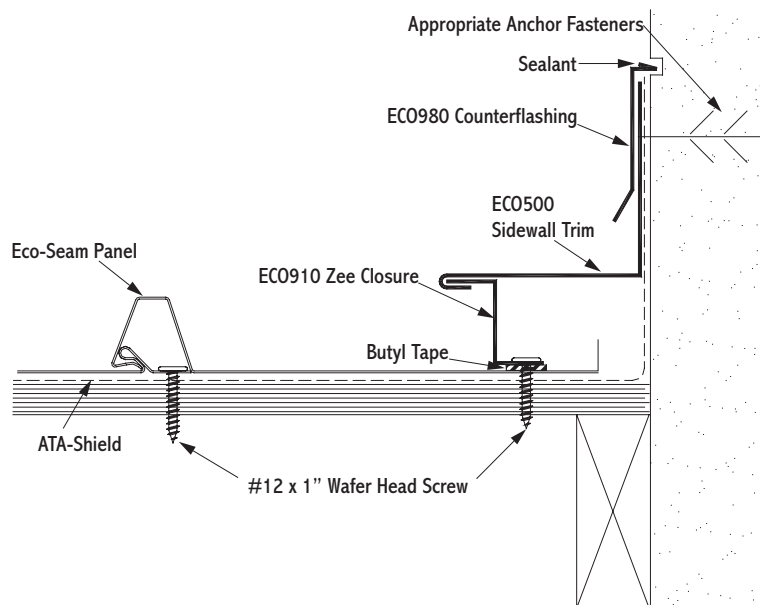


# Shed Ridge Detail

1. Place ATA Guard up to edge of roof plane. Install metal panel up to the roof peak.
2. Fasten "Z" closure in butyl tape at top of panel. Fasten Zee through butyl tape and panel into substrate using 4 fasteners. Seal neoprene closure into place behind "Z" closure.
3. Fasten starter cleat to face of trim boards at 2" below ridge line.
4. Install shed ridge cap trim over "Z" closure. Pop rivet to zee closure at one per length.



# Sidewall Detail



1. Install ATA-Shield\*\* at roof edge and up face of sidewall. Install metal panel to within 1" of the sidewall. Bend panel up as shown.
2. Fasten "Z" closure in butyl tape on top of panel as shown. Space fasteners at 6" o.c.
3. Fasten sidewall trim over "Z" closure to face of sidewall.
4. Pop rivet sidewall to zee closure at 1 per length.
5. Apply counterflashing over the sidewall trim, and seal into reglet.

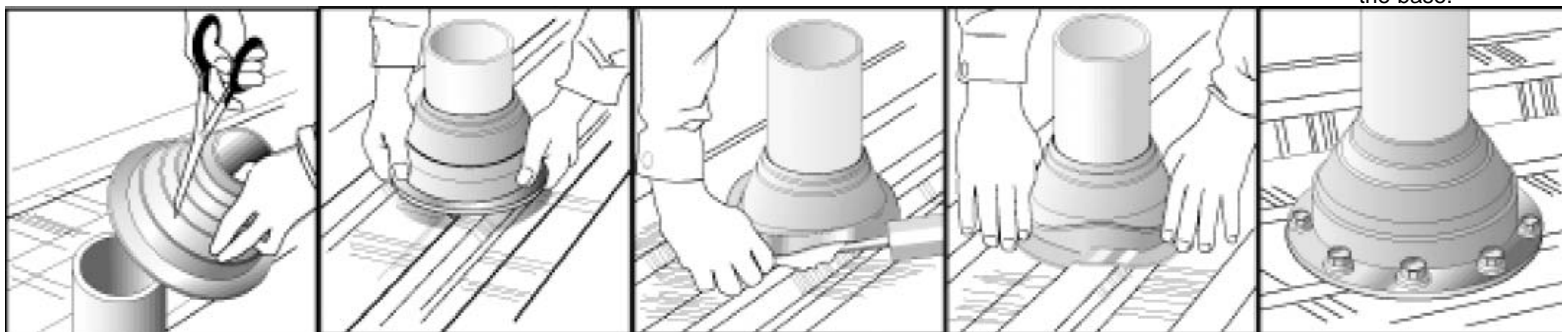
NOTE: Trims should be fastened to substrate using #12 x 1" wafer head screws.

## Note Regarding Trim Details

The application of flashing and trim requires a detailed approach. Consideration should be given to the roof's geometry and course it creates for water run-off. Location of gutters and the use of snow retention systems should also be considered. Proper planning regarding the sequence of material overlap is critical. Sealants, such as butyl tapes and tripolymers, should be used at overlapping trim edges, in conjunction with exposed fasteners, and to seal flashings and other ancillaries. All fasteners should be properly tightened and not overdriven at an angle. Fasteners that are too loose can "back out" over time. An overdriven fastener may cause a depression in the material, which becomes a collection point for standing water.

# Pipe Detail

- |  |  |  |  |  |
|--|--|--|--|--|
| <p><b>Step 1</b><br/>Cut on the proper pipe diameter marked on the flashing.</p> | <p><b>Step 2</b><br/>Position over pipe and slide down the pipe.</p> | <p><b>Step 3</b><br/>Apply polyurethane sealant to the bottom of the base.</p> | <p><b>Step 4</b><br/>Mold the flexible base to the panel contours.</p> | <p><b>Step 5</b><br/>Fasten with 1/4" x 1-1/8" drilling fastener every 1-1/2" around the base.</p> |
|--|--|--|--|--|



Pipe drawings provided by Triangle Fasteners

### Tools and Rules:

**Basic Equipment Required:**  
Tie-off ropes, safety harness, long level, ladders, scaffolding with approved planking, extension cords with approved ground plugs and services.

**Additional Tools:**  
Metal folding tool, hammer, chalk line, measuring tape, metal cutting tools - nibblers, drills, hacksaw, utility knife, pop-rivet gun, caulking guns, layout and combination square, C clamps, sheet metal shears (including RH, LH, straight and overhand). Power driven screw gun with proper bits, depth-setting nosepiece, variable speed.

**Choose the correct equipment and tools to do the job in a safe manner. Wear safety gear and follow OSHA requirements.**

### Follow these simple rules:

1. Never cut the panels with an abrasive cut-off wheel or torch, as this will damage the finish.
2. Do not weld the trim or panels.
3. Remove any small burrs left by cutting, screwing or drilling.
4. Remove protective masking immediately after trim is installed.
5. Caution should be taken when unloading the panels to prevent damage.
6. Use appropriate screws for the type of underlayment and long enough to fully penetrate and secure the panel.
7. The stored materials should be kept dry.
8. Do not cut on finished roof. Remove all drill spirals, chips and dust immediately.
9. Seal neoprene closures and soft cell foam by applying appropriate sealant to both surfaces.
10. Put appropriate sealant/butyle tape between overlapping trims.
11. Overlap trims in a manner not to impede the flow of water.

**For further information or assistance, contact our Residential Product Support at 800-468-1441**