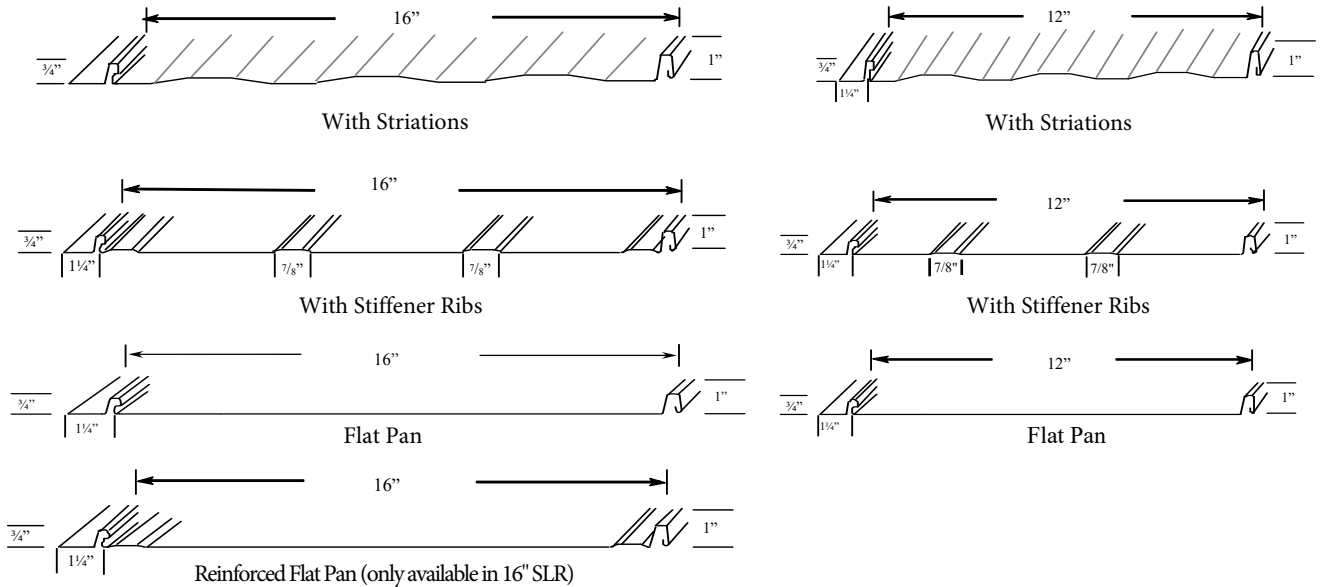




INSTALLATION GUIDE

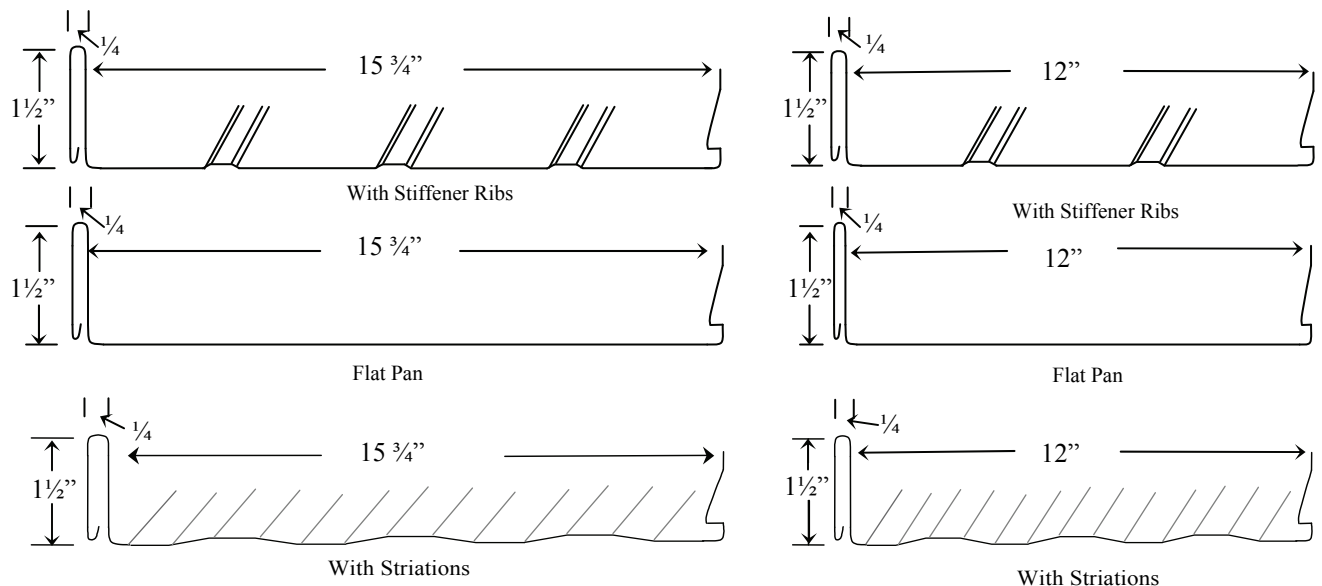
Standing Loc Rib (SLR)

1" High Custom Length Concealed Fastener Panel



Clip Loc II

1-1/2" High Custom Length Clip Fastened Panel



Please specify with ribs, flat pan or with striations when ordering.

General Specifications

Handling & Storage

On job sites, care should be taken when handling painted surfaces during installation and storage to protect the finish. It is important that panels are kept dry. **MOISTURE TRAPPED BETWEEN THE SHEETS MAY CAUSE SUPERFICIAL STAINING OR LIFTING OF THE FINISH.** When material cannot be stored inside, place material on a slight incline and cover with a properly draped canvas or tarp that will allow airflow. Never use plastic, as it may cause condensation to accumulate. When lifting panels, always lift from panel edge, as panels will bow when lifted while flat. Panels may be shipped with protective film. **IN THIS CASE FILM MUST BE REMOVED BEFORE INSTALLATION.**

Safety Precautions

Protective heavy-duty gloves should be worn when handling metal panels and trim. Safety goggles and hearing protection should be worn while cutting or drilling panels. Extreme care should be used when walking, standing, sitting, or kneeling on a metal roof. They can be extremely slippery when wet. When walking on the roof panels, walk only on the flats. Traffic over the installed system must be kept to an absolute minimum. Installers should wear rubber sole shoes to keep from scuffing material while walking on the roof.

Roofing Installation

Sub-structures should be checked for uniformity and should be in good condition. 1/2" or thicker OSB or plywood is required, 5/8" is recommended. If the roof is shingled, shingles should be removed. Roof should be swept, removing any flashing, debris, and nails. **A minimum 3/12 slope is recommended for SLR, and 1.5/12 slope for Clip Loc II.** Substrate should be covered with a synthetic underlayment or 30# felt. Fold over gables and eave 1 to 2 inches. Ice and water shield should be used where required by code. It is important that in the installation of roof sheets the side laps should face away from the direction of the prevailing wind. Extra care should be given to the installation of the first sheet making sure it is as square as possible to the roof line.

Sealants

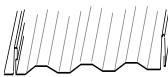
Silicone sealants are not recommended for painted panel applications. Urethane or polymer sealant are recommended. Tape sealant should be used at any joints to assure weather tightness.

Cutting

Panels cannot be end lapped. Panels are best cut with power shears, nibblers, or tin snips. **ALTHOUGH NOT RECOMMENDED, WHEN USING A POWER SAW PANELS MUST BE CUT FROM THE BACK SIDE.** Hot filings should never come in contact with the painted surface of the panel being cut, or any panels nearby. Filings that become embedded in the paint may cause a rusting effect. They may be removed with car wax and a cloth.

Oil Canning

Flat surface areas in metal panels are subject to stress called oil canning. Uneven substrates, over tightened or under-driven fasteners, ripples or laps in vapor barriers, or debris under panels all can cause oil canning. **Oil canning is not a cause for rejection of panels.** (To minimize oil canning, especially in lighter gauges, panels should be striated.)



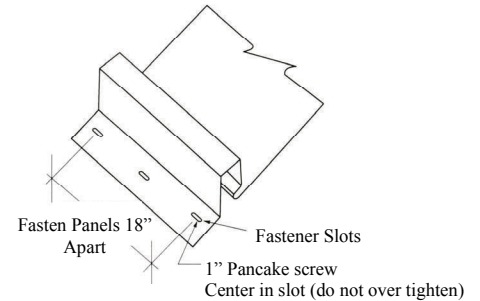
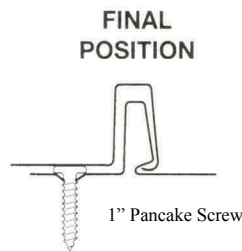
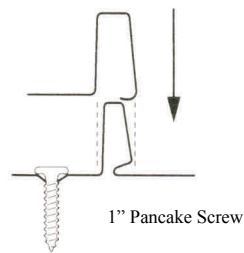
Striated

Ventilation

Sufficient air movement should be provided by means of a ridge vent, power operated fan, or other openings to minimize condensation.

SLR

Side Lap Detail



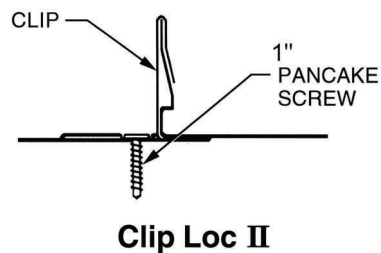
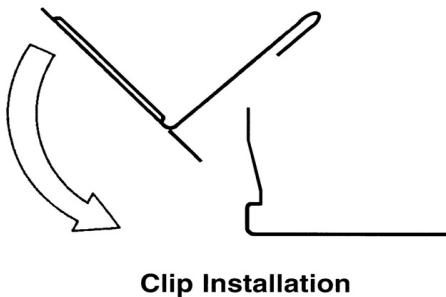
* Note: Total sidelap engagement without spreading the panel rib is essential. Always check panel alignment at bottom before installing fasteners.

CLIP LOC II

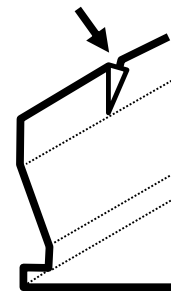
Clip Detail

INSTALLATION	SPACING	FASTENERS
Flush Clip	3'0 C	2

****IMPORTANT**** Under lap rib must be notched to prevent panel from sliding down the roof.

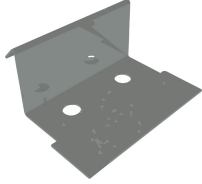


Notch panel leg above clip



ACCESSORIES

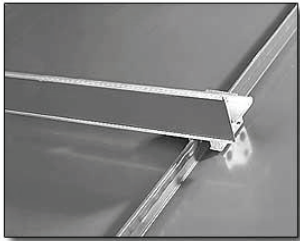
FLUSH CLIP



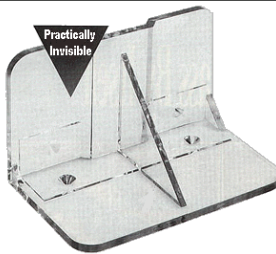
1/2" BACKER ROD



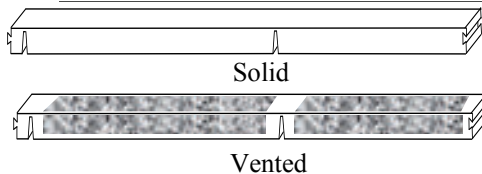
SNOW FENCE



SNO JAX

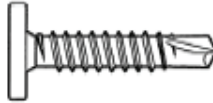


FORMED CLOSURE STRIP

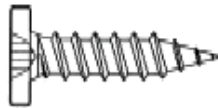


Available for both Clip Loc II & SLR.

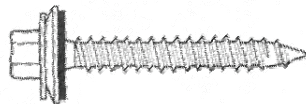
1" PANCAKE SELF-DRILLER



1" PANCAKE SCREW



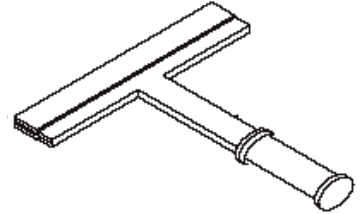
1-1/2" METAL TO WOOD SCREW



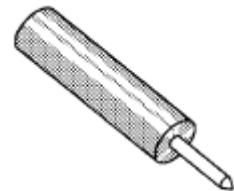
POP RIVET



HEMMING TOOL



URETHANE SEALANT

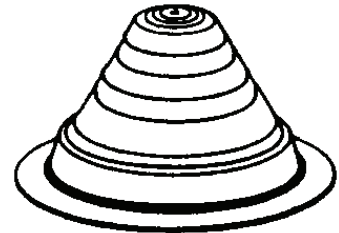


10.3 OZ. CARTRIDGE
URETHANE
(GRAY ONLY)

**DOUBLE SIDED
SEALANT TAPE**



RUBBER ROOF BOOT



Available in sizes:
1/4" TO 4"
3" TO 6"
7" TO 13"

Also available in High Temp &
Retro Fit

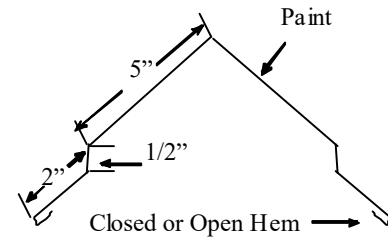
TRIM PROFILES

STANDING SEAM STEEL ROOFING ACCESSORIES

Ridge Cap

- Must specify pitch
- Must specify

Exposed or Concealed Fastener

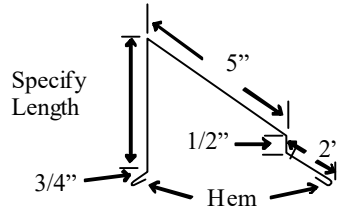


- Exposed Fastener (Closed Hem)
- Concealed Fastener (Open Hems & Requires 2 ZEE Trim)

Half Ridge Cap

- Must specify pitch
- Must specify face length
- Must specify

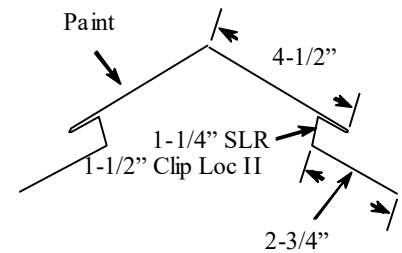
Exposed or Concealed Fastener



- Exposed Fastener (Closed Hem)
- Concealed Fastener (Open Hems & Requires 1 ZEE Trim & 1 Cleat)

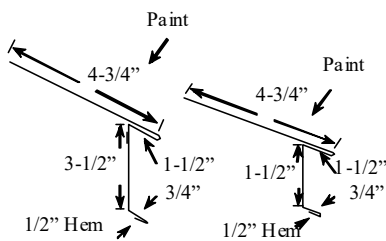
Preform Hip

- Must specify pitch



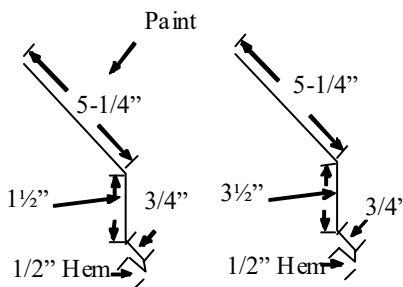
Extended Eave Trim

- Must specify pitch AND face width



Eave Trim

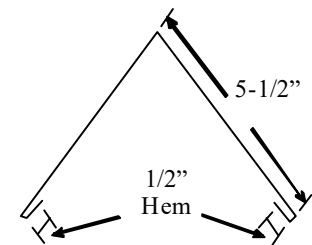
- Must specify pitch AND face width



- Concealed Fastener Requires 1 Offset Cleat

Hip Cap

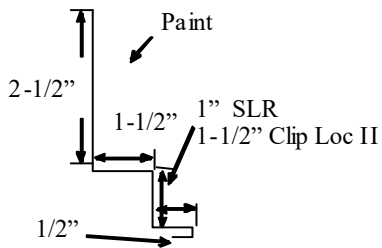
- Must specify pitch
- Must specify
- Exposed or Concealed Fastener**



- Exposed Fastener (Closed Hem)
- Concealed Fastener (Open Hems & Requires 2 ZEE Trim)

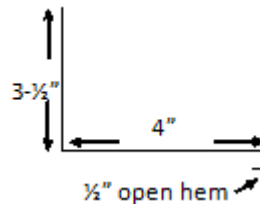
STANDING SEAM STEEL ROOFING ACCESSORIES

Exposed Fastener Sidewall Trim



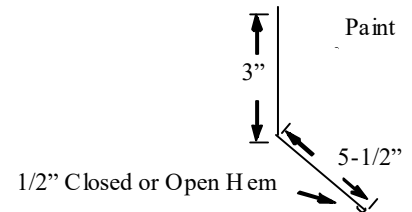
Concealed Fastener Sidewall Trim

- Requires 1 ZEE Trim



Endwall Trim

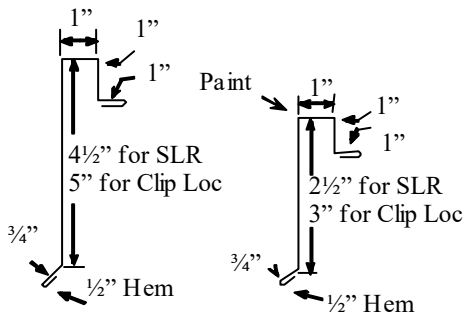
- Must specify pitch AND if **Exposed** or **Concealed** Fastener



- Exposed Fastener (Closed Hem)
- Concealed Fastener (Open Hem & Requires 1 ZEE Trim)

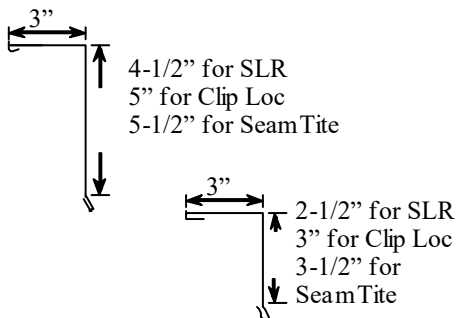
Exposed Fastener Gable Trim

- Must specify face width



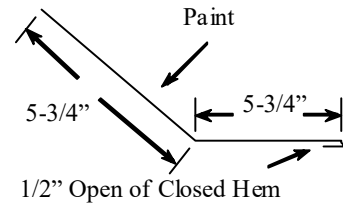
Concealed Fastener Gable Trim

- Must specify face width
- Requires 1 ZEE Trim and 1 Cleat



Pitch Change

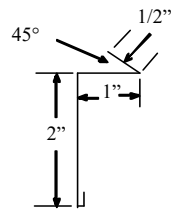
- Must specify both pitches
- Must specify **Exposed** or **Concealed** fastener



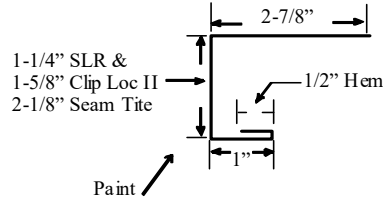
- Exposed Fastener (Closed Hem)
- Concealed Fastener (Open Hem & Requires 1 ZEE Trim & 1 Offset Cleat)

STANDING SEAM STEEL ROOFING ACCESSORIES

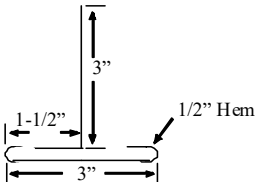
Reglet Trim



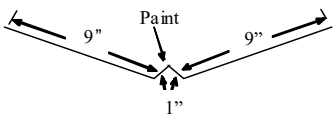
J Channel



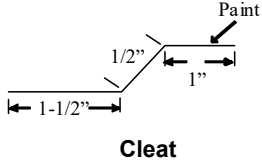
Mansard Trim



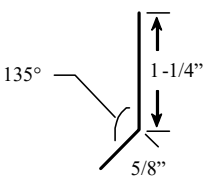
Exposed Fastener W Valley Trim



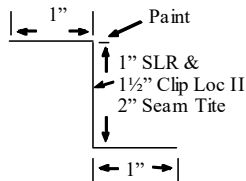
Offset Cleat



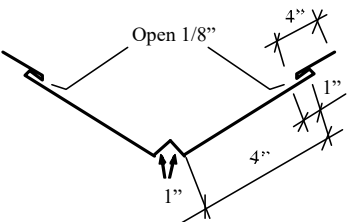
Cleat



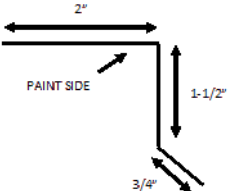
Zee Trim



Concealed Fastener W Valley Trim

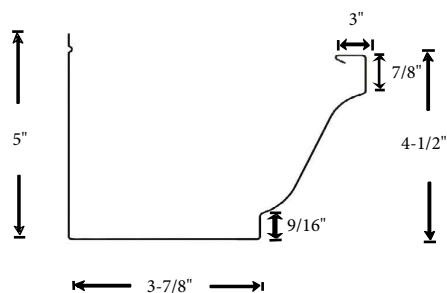


Straatsma Cleat

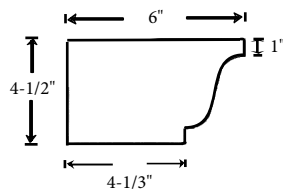


Steel Gutter and Accessories

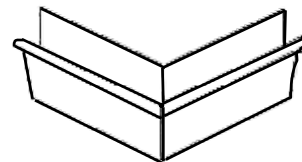
6" K Gutter



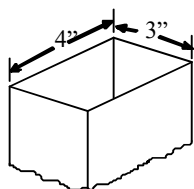
End Cap - Left or Right Hand



**Gutter Corner - Must Specify
Inside or Outside Corner**

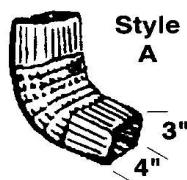


Down Spout 10' Long



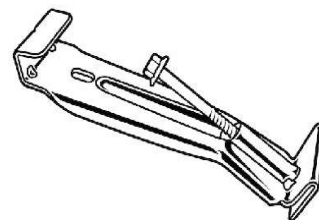
Available in white, black, burn slate,
evergreen, ocean blue and dark gray.
**2-3 Week lead time.

Style "A" Elbow 75°

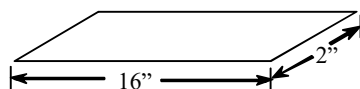


Available in white, black, burn slate,
evergreen, ocean blue and dark gray.
**2-3 week lead time.

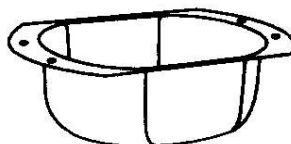
6" Hidden Hanger



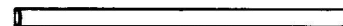
Downspout Strap



3" x 4" Oval Outlet



5" Ferrule



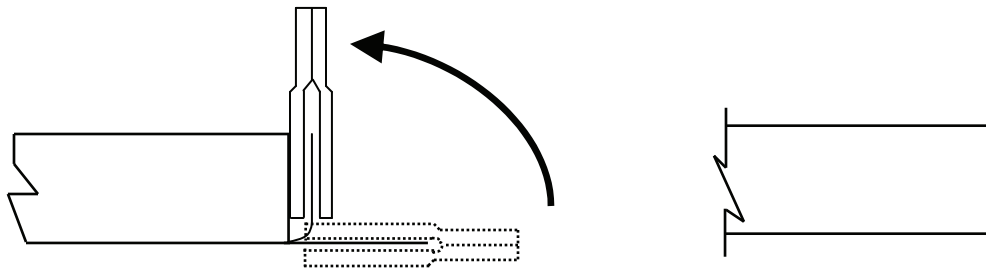
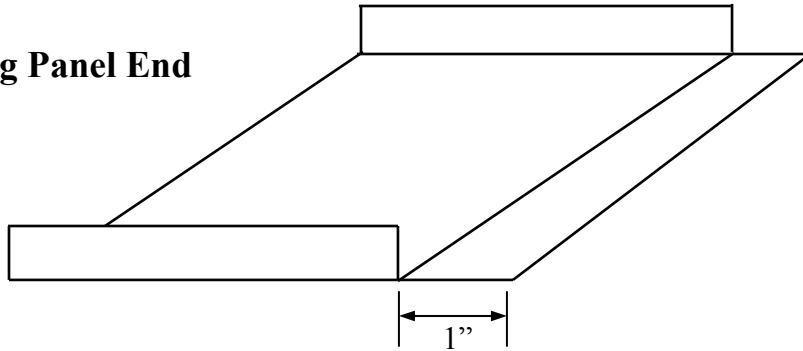
8" Gutter Spike



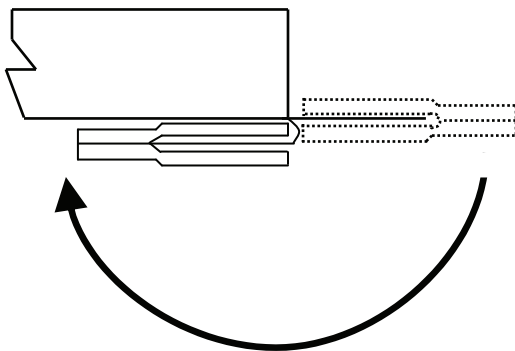
HEMMING DETAILS

****Factory Notching Available Upon Request.**

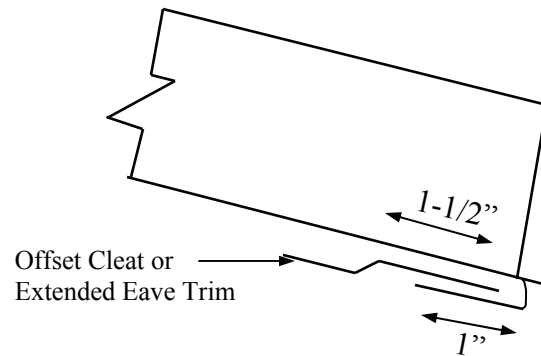
Notching Panel End



For Endwall & Non-Vented Ridge Application.



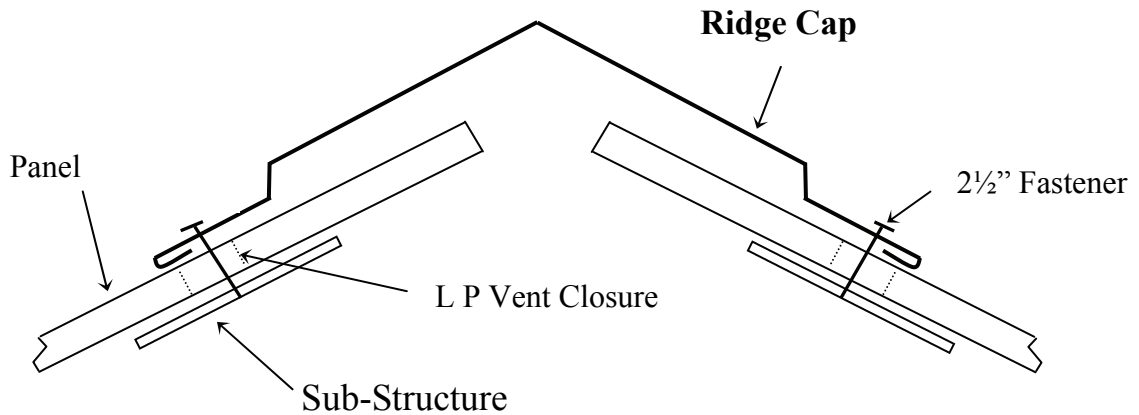
For Eave & W-Valley Application.



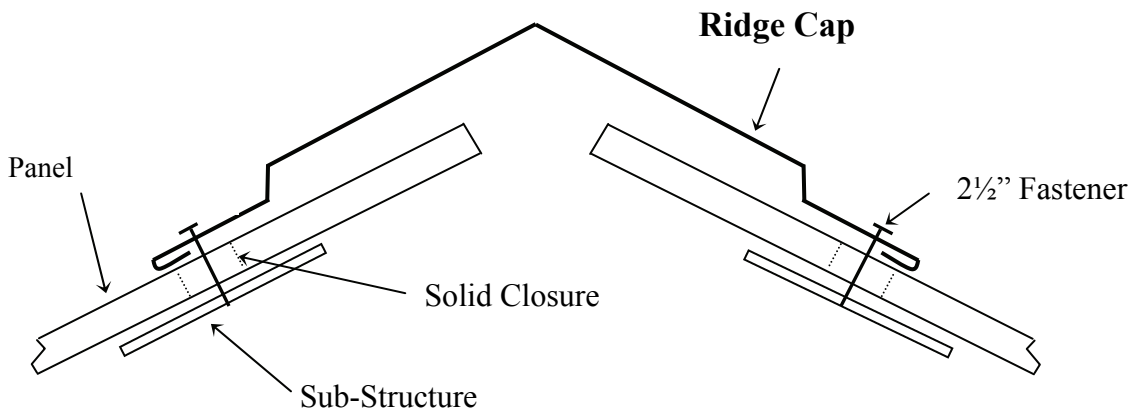
Offset Cleat or
Extended Eave Trim

Panel Engagement

EXPOSED VENTED RIDGE CAP

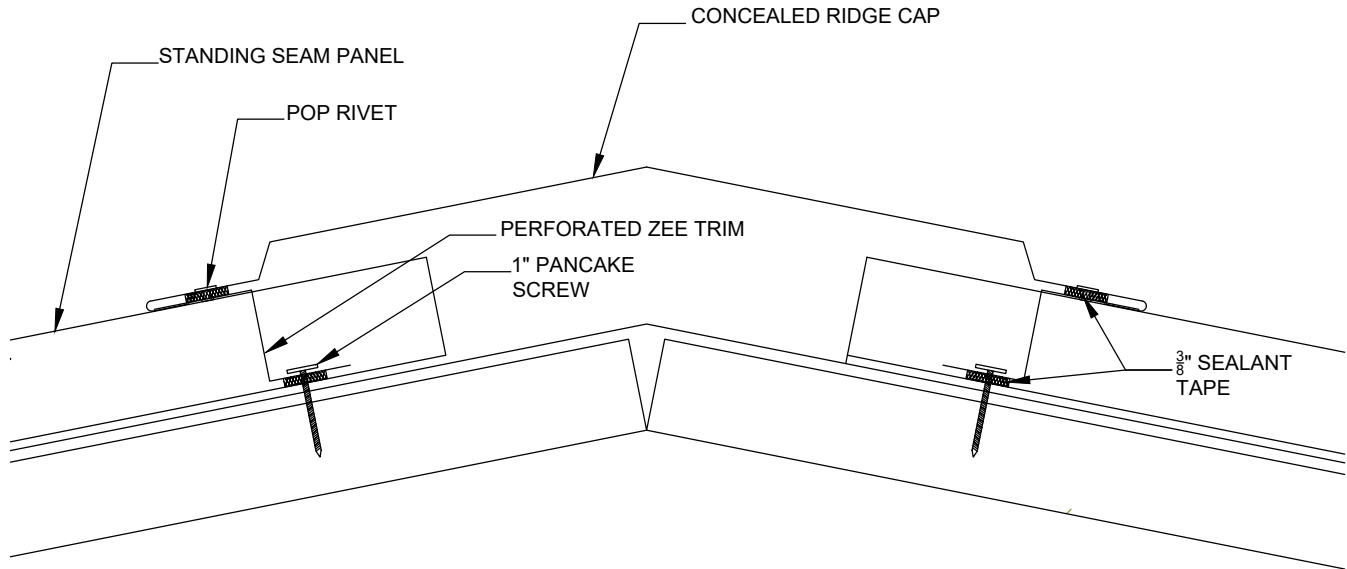


EXPOSED NON-VENTED RIDGE CAP

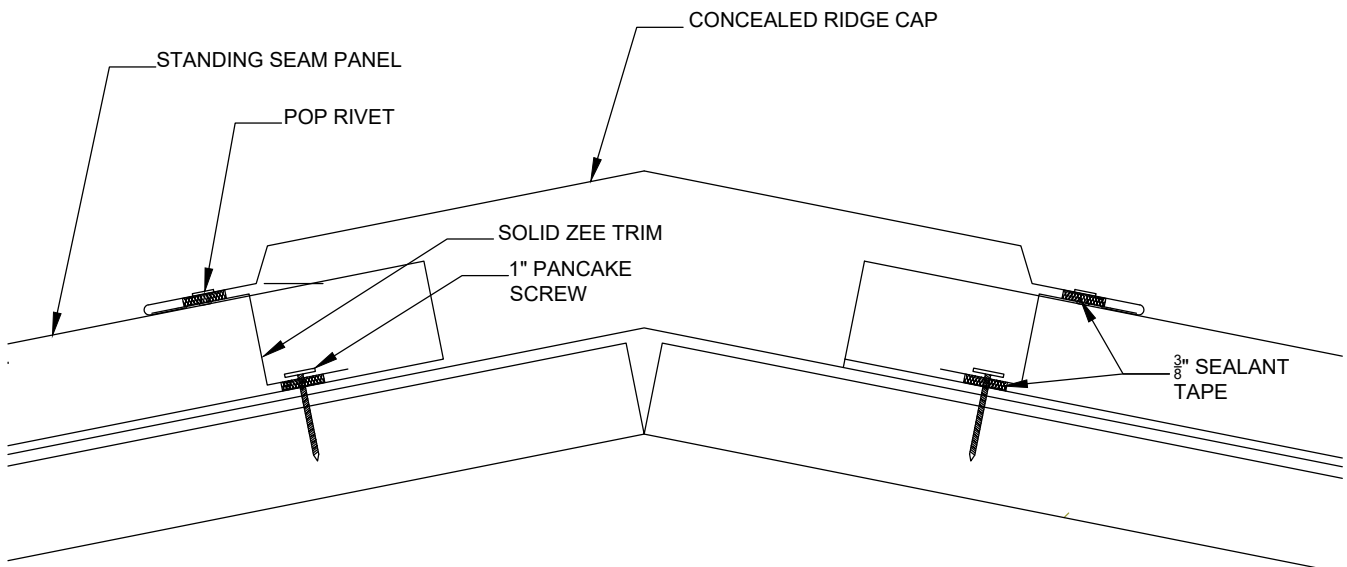


Fit Closure over panel with adhesive down. Fit Ridge Cap over closure. Fasten with 2-1/2" Wood Screw with Washer next to rib, 16" apart.

CONCEALED VENTED RIDGE CAP

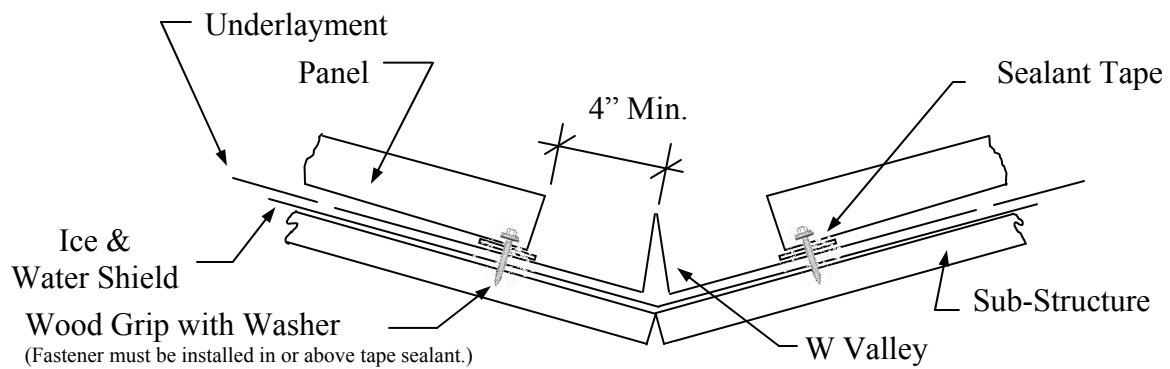


CONCEALED NON-VENTED RIDGE CAP

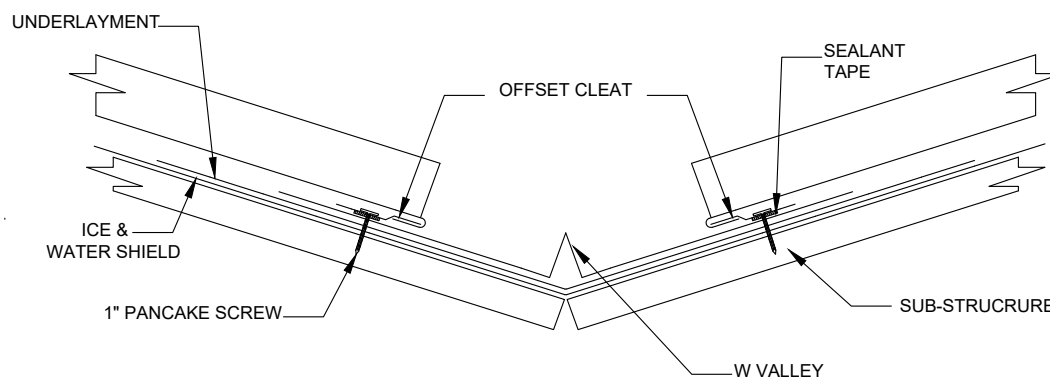


W VALLEY DETAIL

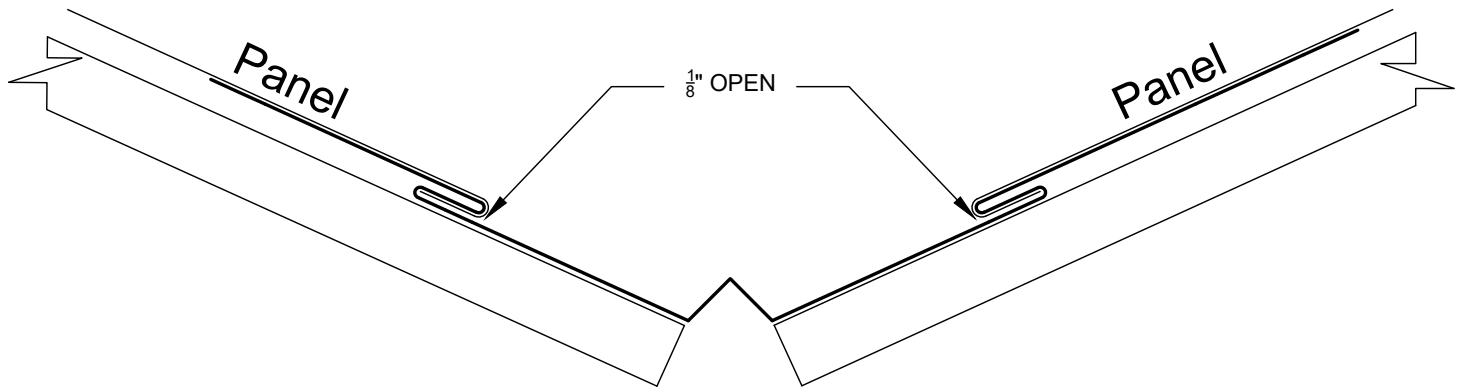
Exposed Fastener



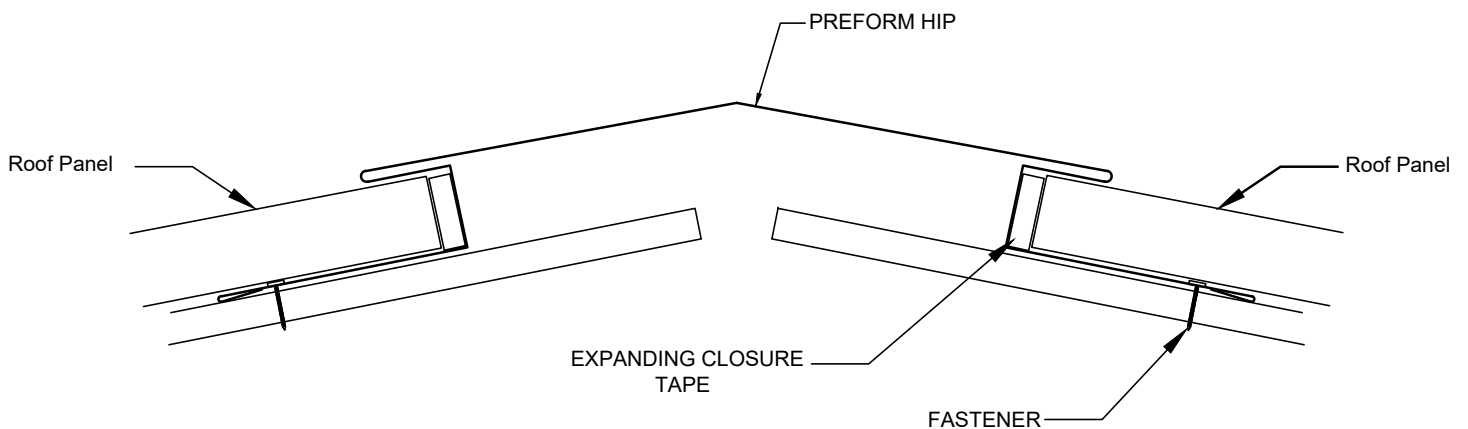
Concealed Fastener With Offset Cleat



ONE PIECE CONCEALED FASTENER W VALLEY

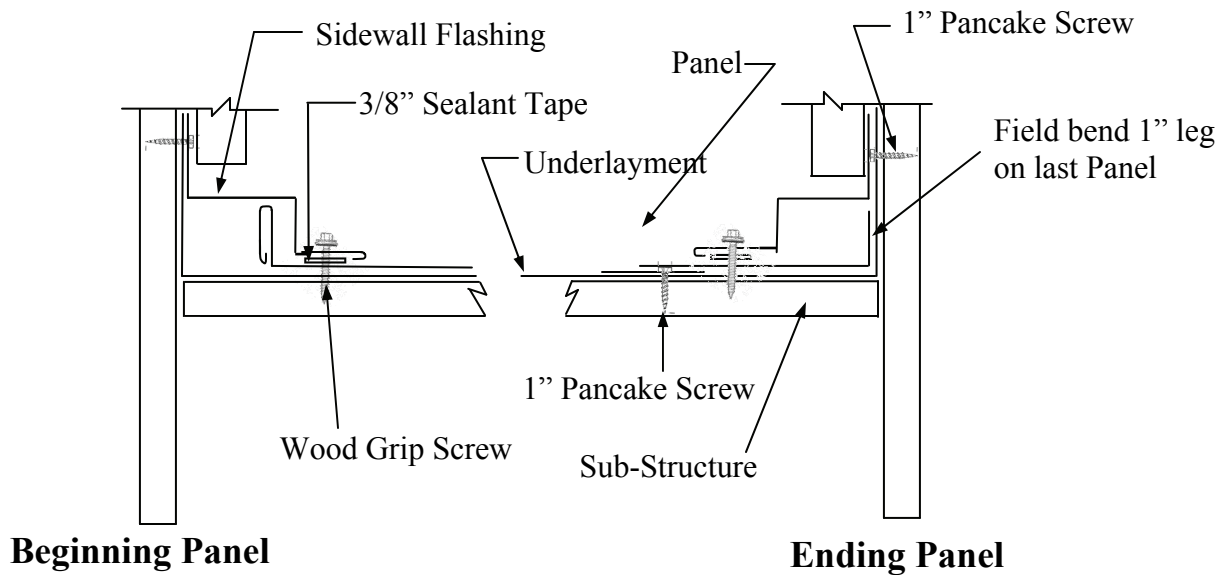


PREFORM HIP CAP

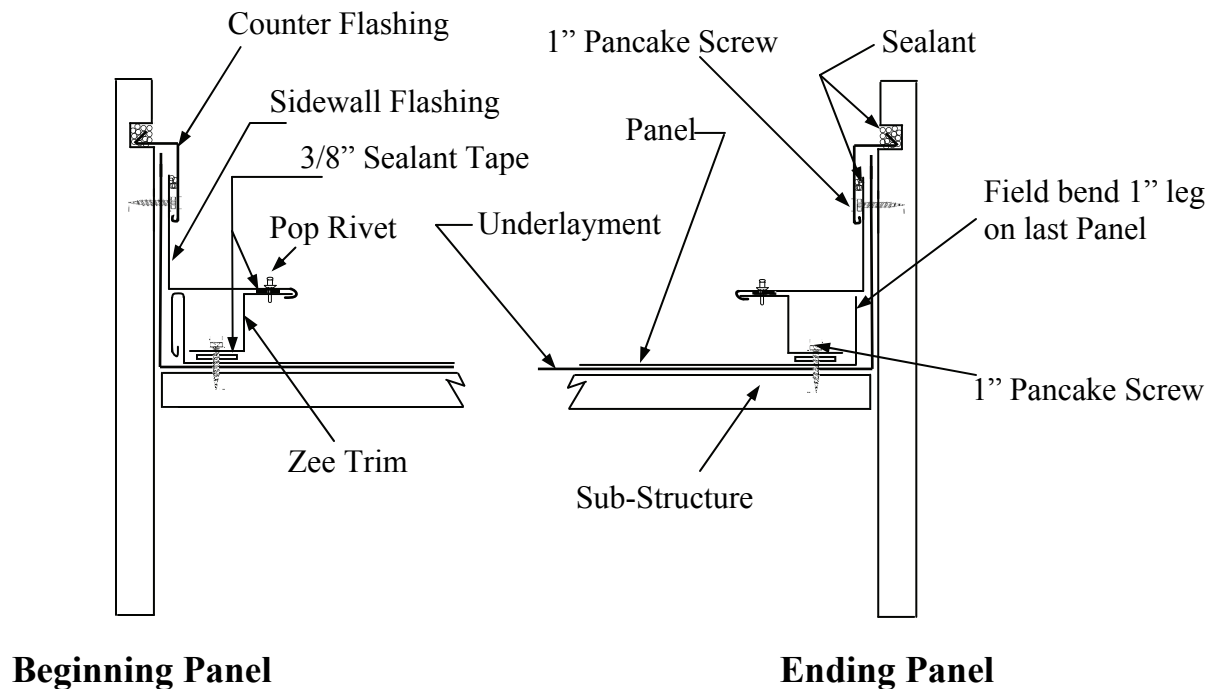


SIDE WALL DETAIL

Exposed Fastener Detail

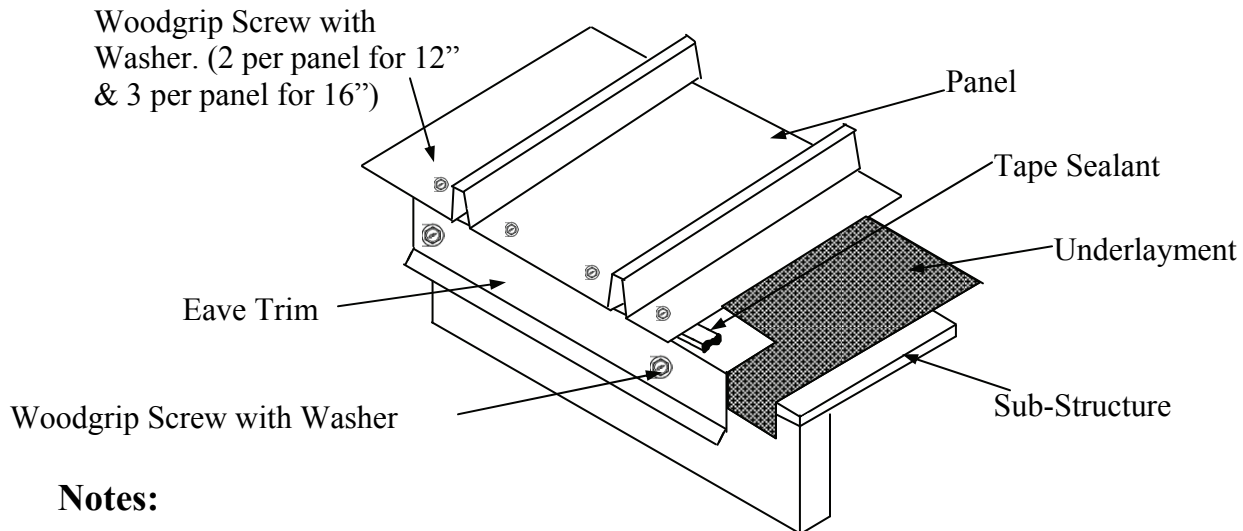


Concealed Fastener Detail



EAVE TRIM DETAIL

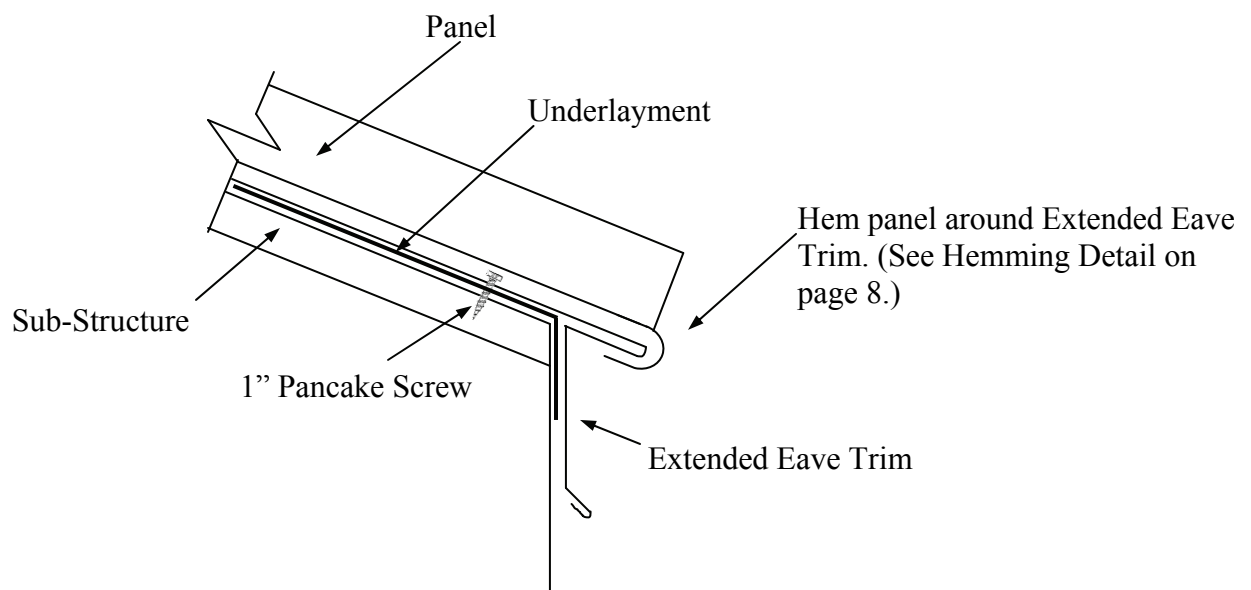
Exposed Fastener Detail



Notes:

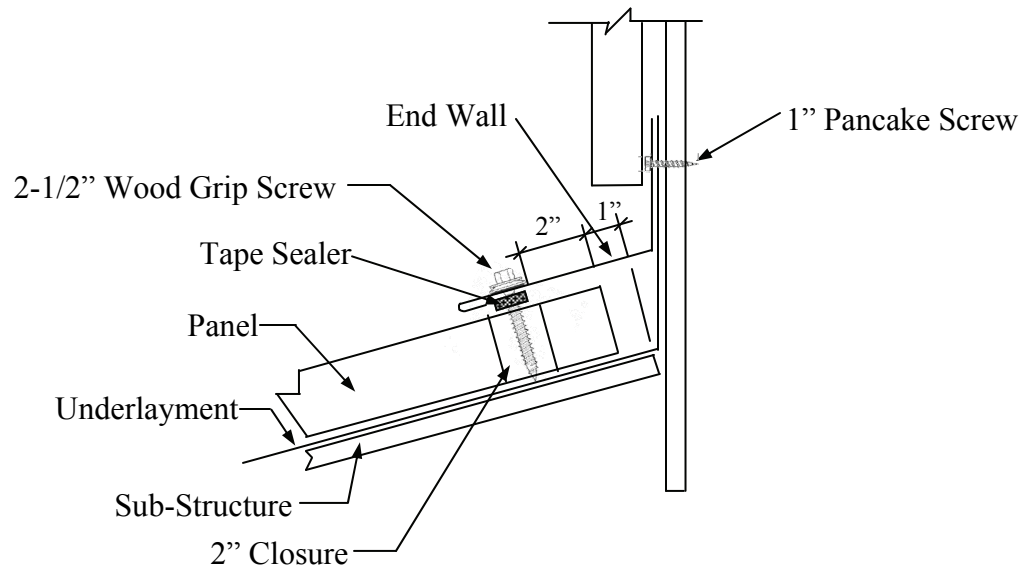
- 1) Attach eave trim to roof deck with 1" pancake head screws.
- 2) Install 3/8" tape sealer along top leg of eave trim.
- 3) Allow panel to overhang 1/2" to 1" past eave trim. (Flush when using extended eave trim.)
- 4) Attach panel at eave with 1" woodgrip screws with washer making sure screws are as close as possible to sealant.
- 5) **SCREWS MUST BE PLACED IN END OF PANEL BEFORE NEXT PANEL IS INSTALLED.**

Concealed Fastener Detail

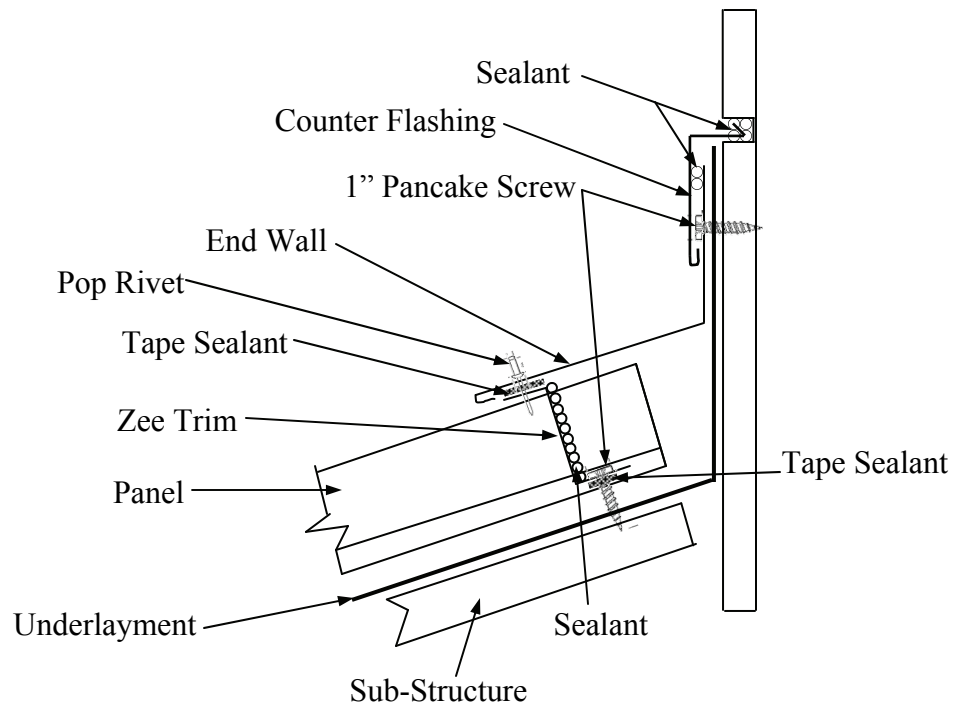


END WALL DETAIL

Exposed Fastener Detail



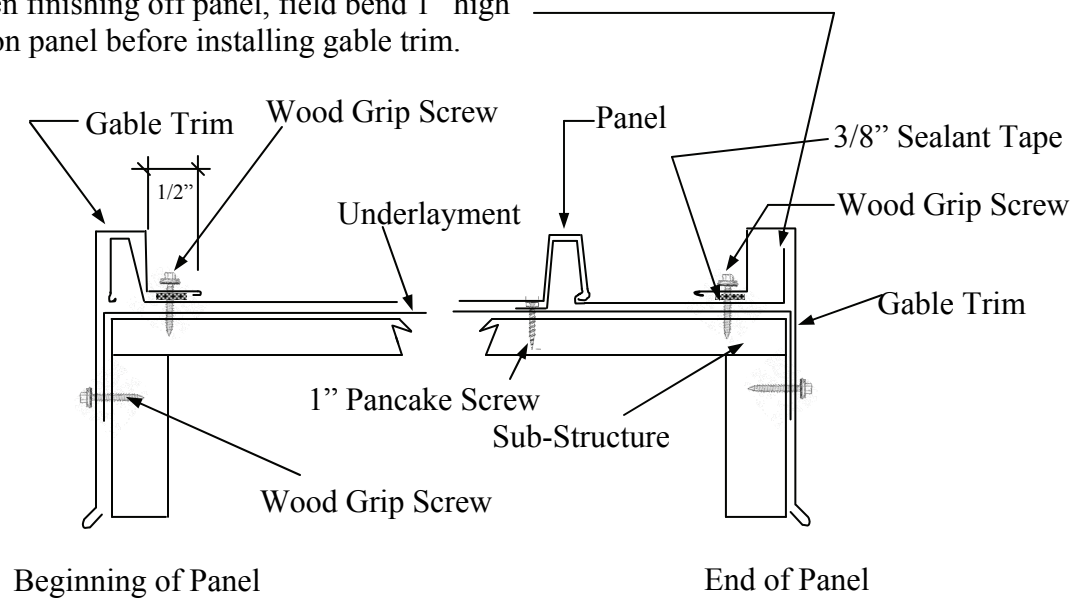
Concealed Fastener Detail



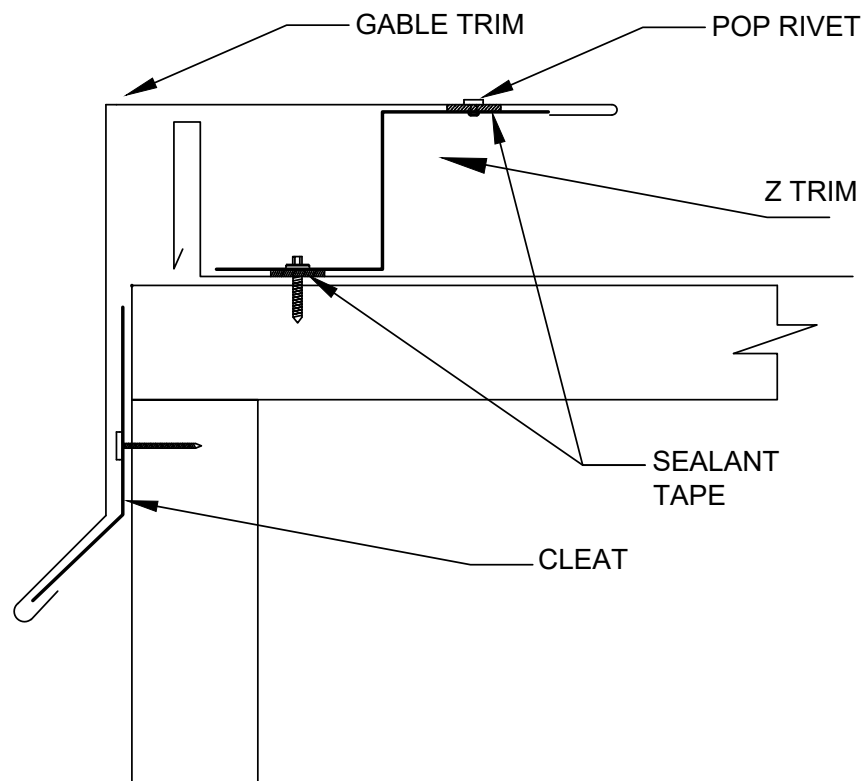
GABLE DETAIL

Exposed Fastener Detail

When finishing off panel, field bend 1" high leg on panel before installing gable trim.

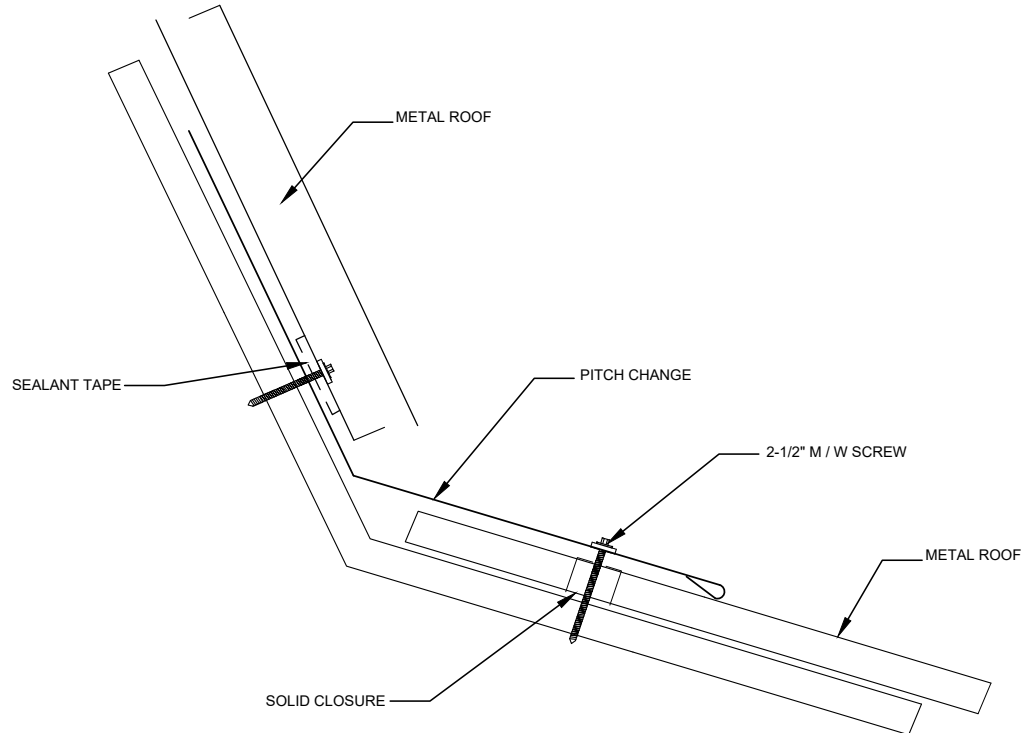


Concealed Fastener Detail

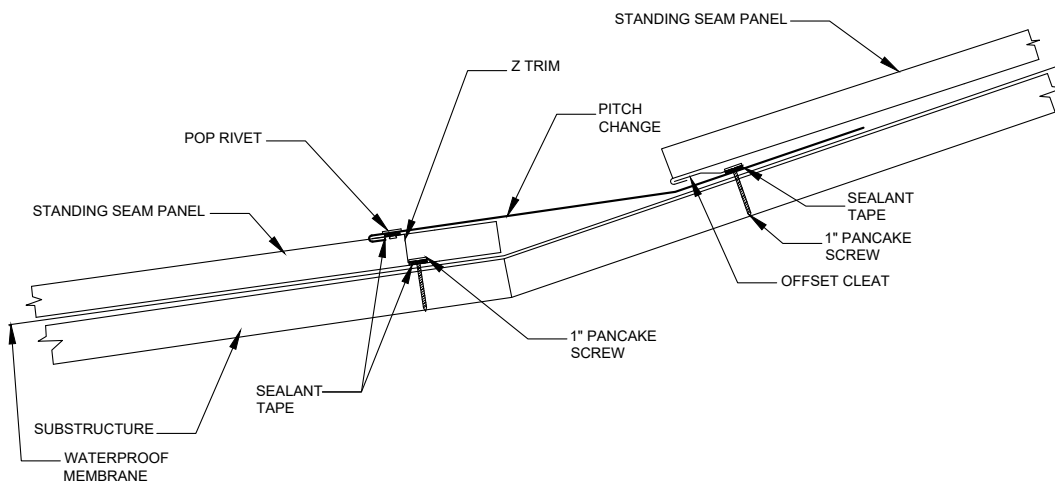


PITCH CHANGE DETAIL

Exposed Fastener Detail

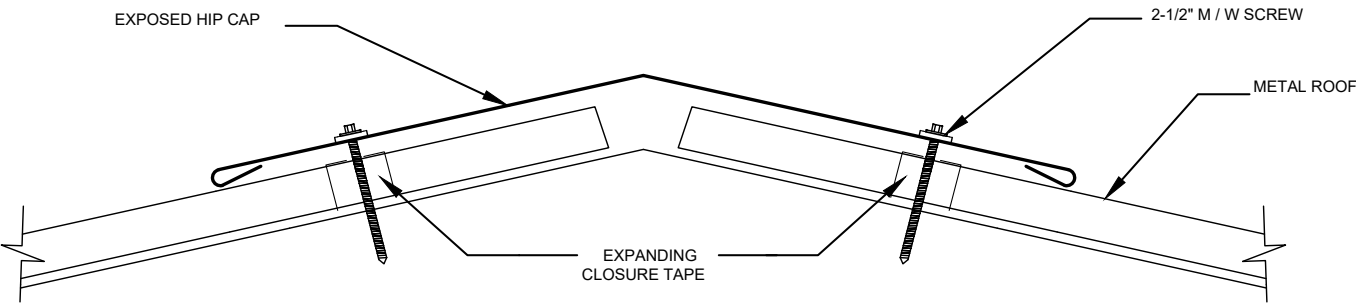


Concealed Fastener Detail

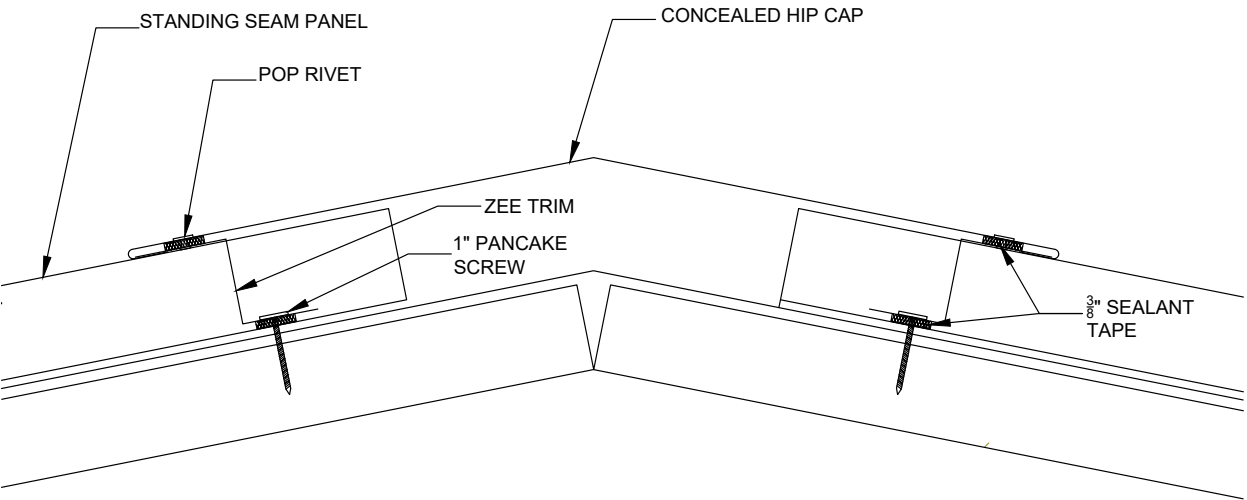


*If gap is present underneath exposed or concealed pitch change, additional structure stability may be necessary.

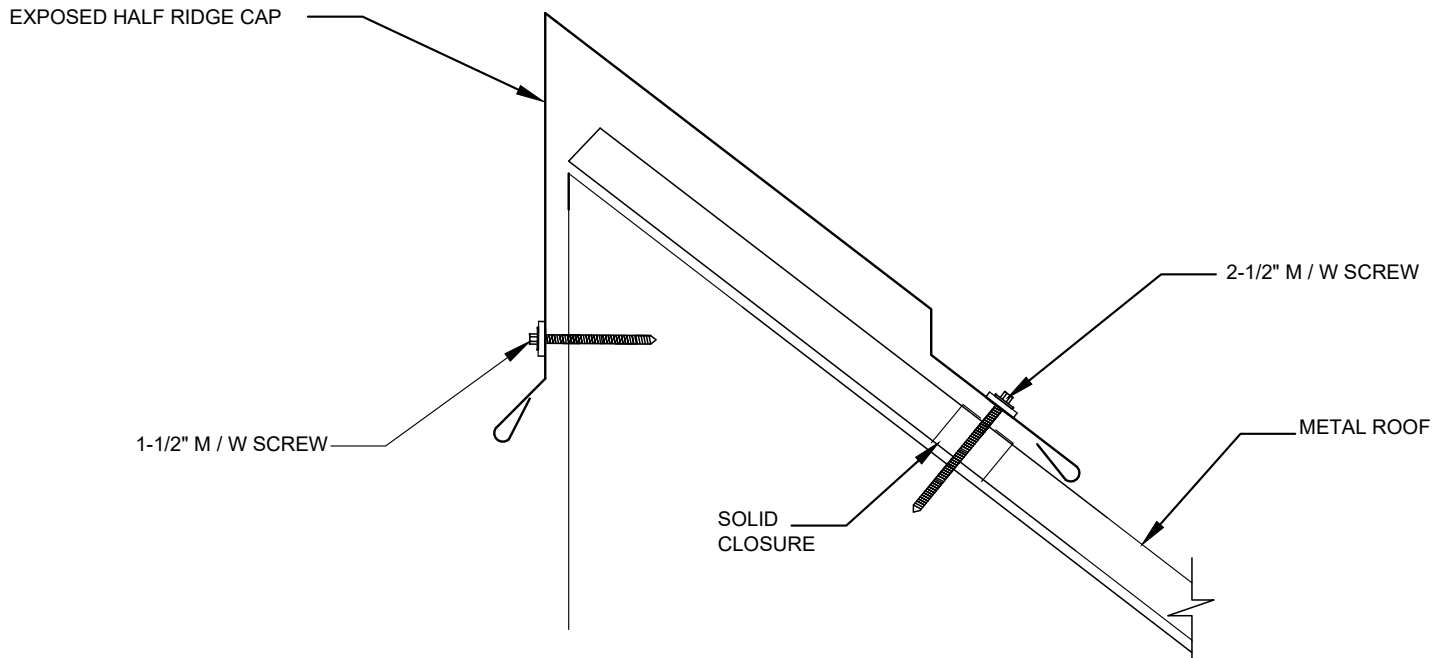
EXPOSED FASTENER HIP CAP



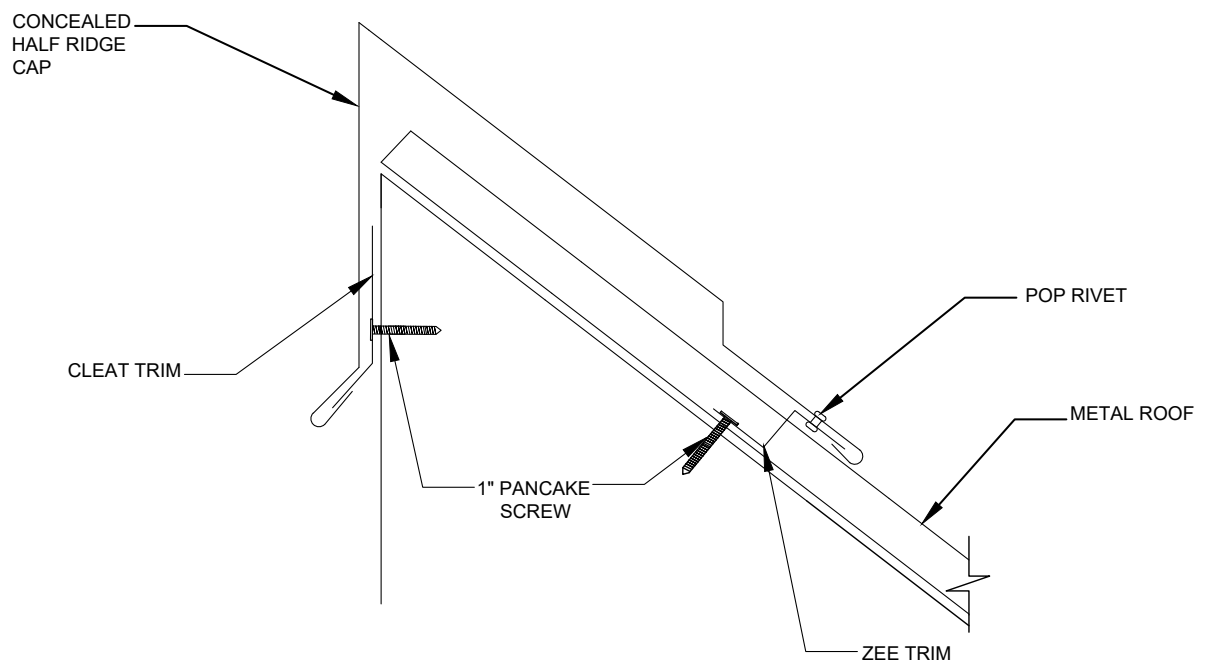
CONCEALED FASTENER HIP CAP



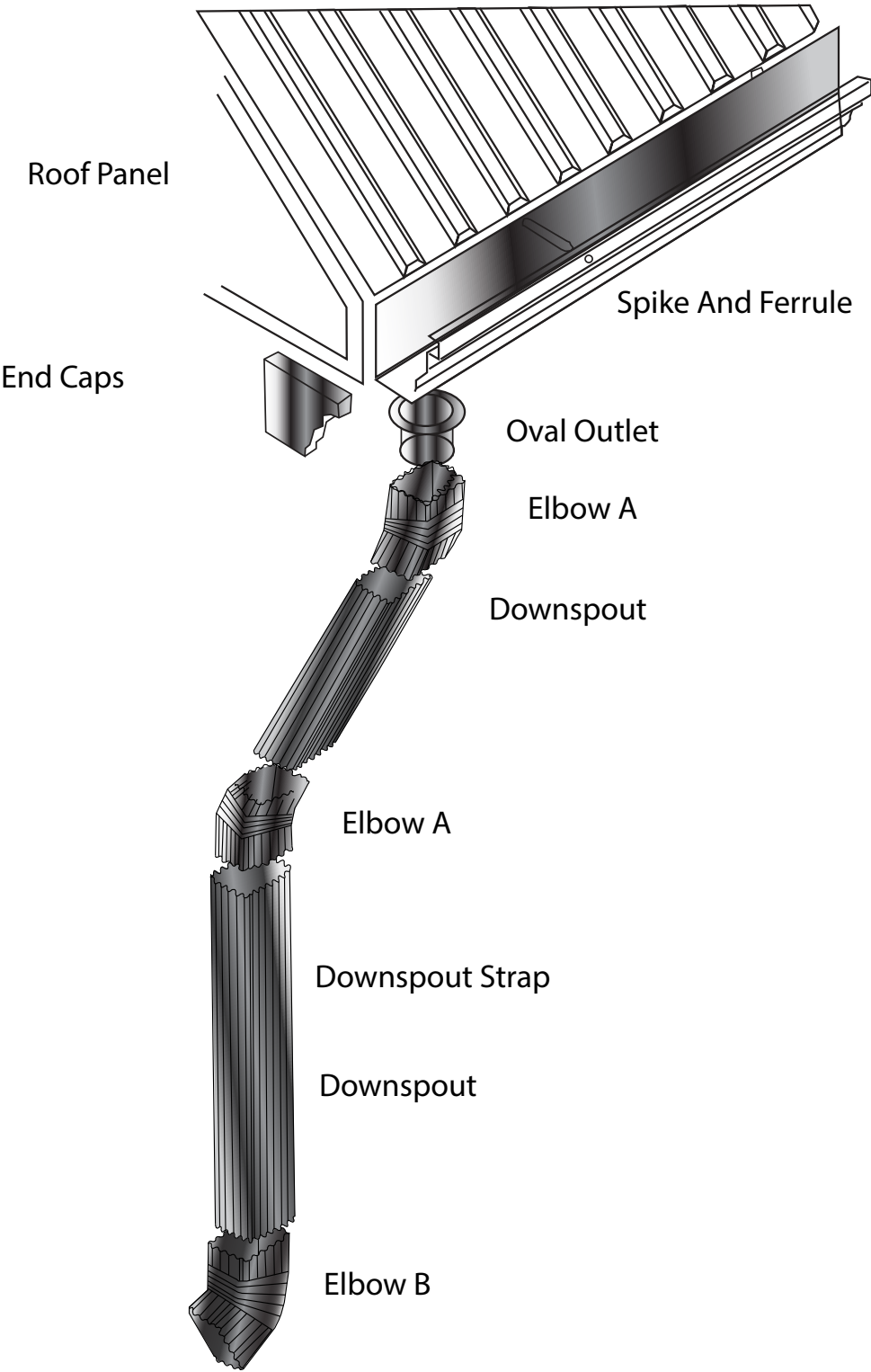
EXPOSED HALF RIDGE CAP



CONCEALED HALF RIDGE CAP

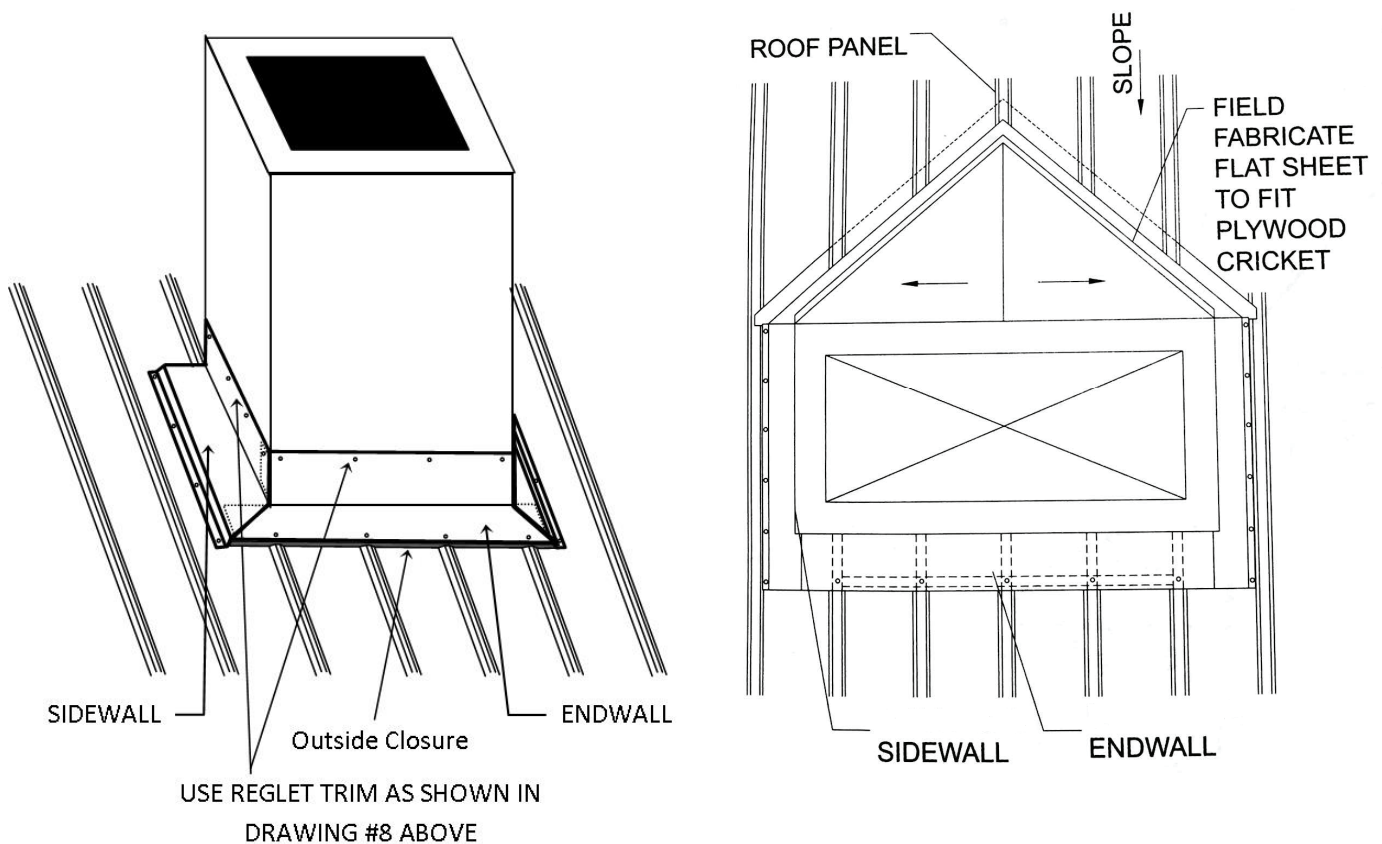


DOWNSPOUT & ELBOW DETAIL



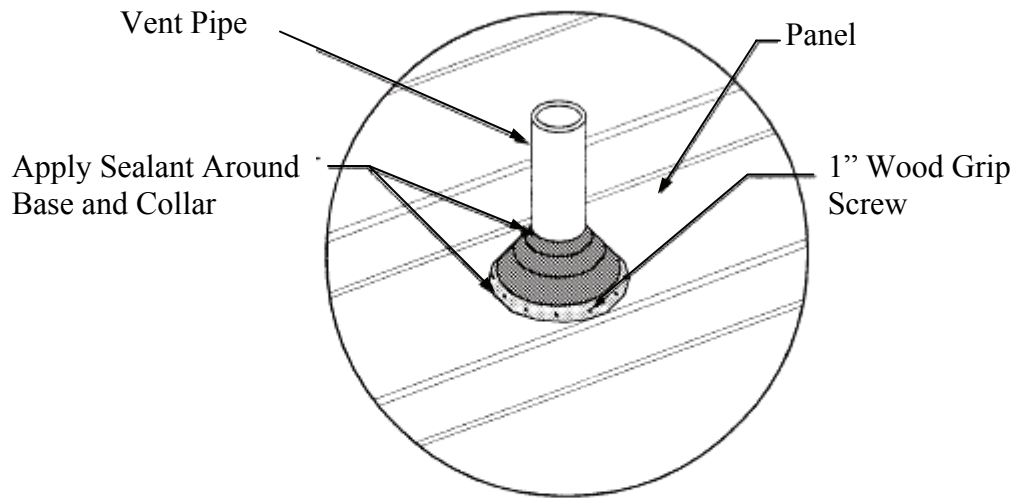
CHIMNEY/SKYLIGHT FLASHING DETAIL

Chimney/Skylight Flashing—Using Side Wall Flashing, End Wall Flashing, and Flat Trim Sheet



Note: Underlayment and substrate details have been omitted for clarity. Install roof substrate and moisture barriers according to local building codes.

VENT PIPE ROOF PENETRATION



Rubber Roof Jack



Available Sizes:

- #3 (1/4" to 4" O.D. Pipe)
- #4 (3" to 6" O.D. Pipe)
- #8 (7" to 13" O.D. Pipe)

CAUTION: THE FOLLOWING PROCEDURES ARE FOR VENT PIPES 6" OR LESS AND NOT TRANSMITTING EXTREMELY HOT OR CAUSTIC MATERIALS. WHEN INSTALLING VENT PIPES, ABIDE BY THE LOCAL PLUMBING CODES.

Notes:

- 1) Determine the size and length of the vent pipe to be raised.
 - 2) Take the appropriate measurements for the vent location and mark them on the panel. The vent pipe must extend through the flat of the roof panel. If the vent pipe extension cannot be raised directly into the flat of the new roof panel, elbows should be used to offset the pipe. Cut the panel to fit the vent pipe properly.
 - 3) Use a light gauge angle to secure and plumb the vent pipe to the framing system.
 - 4) Flash the vent pipe with a rubber roof jack or similar pipe flashing.
 - 5) Apply sealant between the panel and the base of the rubber roof jack as well as the top where the boot meets the pipe.
 - 6) Attach the base of the rubber roof jack to the panel using Woodgrip Screws.
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CARE & MAINTENANCE

Cleaning & Maintenance of Painted Surfaces

While factory-applied finishes for metal building panels are so durable that they will last many years longer than ordinary paints, it is desirable to clean them thoroughly on a routine basis. Apparent discoloration of the paint may occur when it has been exposed in dirt-laden atmospheres for long periods of time. Slight chalking may also cause some change in appearance in areas of strong sunlight.

A good cleaning will generally restore the appearance of these coatings and render repainting unnecessary. An occasional light cleaning will also help maintain an aesthetically pleasing appearance.

To maintain the original finish of the metal building panels, the only regular maintenance necessary is that of annual washing. Mild solutions of biodegradable cleaner or household ammonia will aid in the removal of most dirt, and the following are recommended levels:

1.) One cup of Simple Green®, or other non-toxic biodegradable cleaner, which contain less than 0.5% phosphate, dissolved into two gallons of warm water. NOTE: The use of detergents containing greater than 0.5% phosphate is not recommended for use in general cleaning of building panels. NEVER BLEND CLEANSERS OR DETERGENTS WITH BLEACH.

2.) One cup of household ammonia dissolved into five gallons of water (room temperature).

Working from the bottom to the top of the metal building panels, the panels may be washed with either solution. The use of a well soaked cloth, sponge, brush (with very soft bristles), or a low pressure spray washer is advised.

We do not recommend the use of scouring powders or industrial solvents, since these agents may damage the film. Solvent-containing cleaners such as Fantastic®, however, are very effective and can be used without concern.

If mildew or other fungal growth is a problem and cannot be removed as outlined above, household bleach, mixed at a concentration of one cup of bleach to five gallons of water, along with one cup of a mild soap(e.g., Ivory) to aid wetting, is recommended.

Once the building panel is washed, thorough rinsing with clear water is necessary to eliminate the possibility of residue. Failure to remove all residues from these cleaning steps may damage the film.
