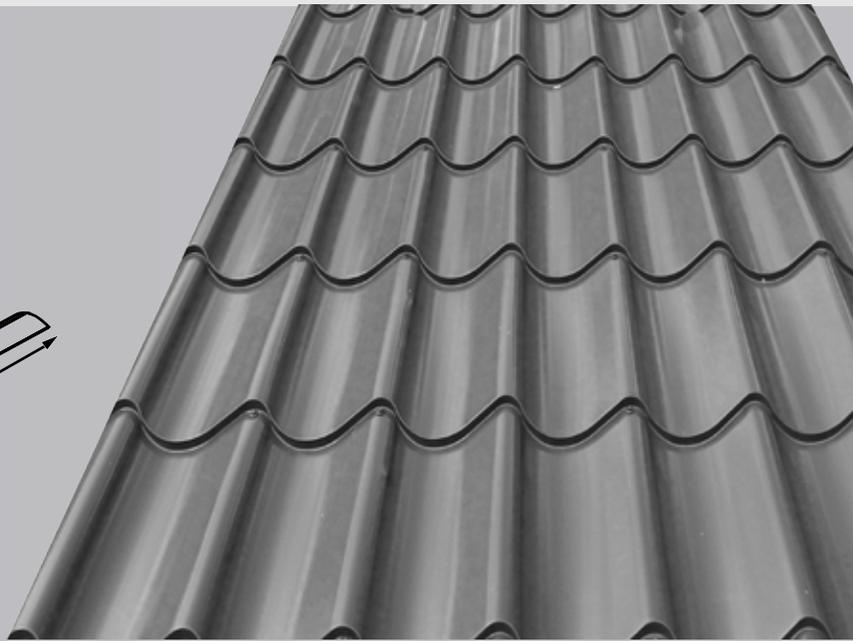
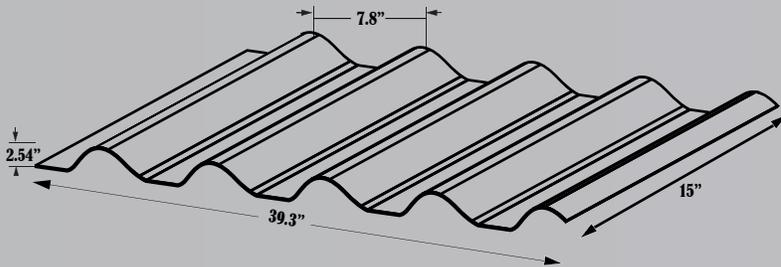


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COASTAL DEFENDER
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MAX DEFENDER

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LEGACY TILE™ INSTALLATION MANUAL

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IMPORTANT NOTICE

- This manual is to aid the installer with the installation of the Legacy Tile™. Due to the different complexities of roofs and roofing situations, it is difficult to create a manual that covers every situation that the installer may encounter.
- This manual is to serve as a guideline to properly installing the Legacy Tile™.
- Check with local building codes prior to installing metal roofing.
- Any questions you may have regarding proper installation of the Legacy Tile™ should be directed to a Tri County Metals representative.
- Panels in this profile, unless you've ordered a striated version, can show "oil canning" which is a wave-like appearance going up the panels. This can be caused by elastic buckling also known as stress wrinkling in the flat areas of the panels. Although it can be unsightly, this is not a manufacturing defect and is not a means for refusal of product. Tri County Metals highly recommends the use of striations for all standing seam panels and MS-Lok panels.

TOOLS RECOMMENDED

Variable Speed Drill or Screw Gun, Snips, Magnetic Bit, Extension Ladder, Turbo Shears (we stock these for purchase), Tape Measure, Hand Bending Tools, Chalk Line, String Line, Drill Bits, Tool Belt, and Utility Knife

SAFETY

- Failure to observe proper roofing safety can result in serious injury or death. Extreme caution should be used at all times when installing metal roofing. The information in this manual is to show the correct placement of the metal roofing parts. It is the responsibility of the erector to perform the placement of these parts in a safe manner. Refer to OSHA guidelines for applicable safety requirements.
- Never walk on a wet metal roof.
- Never walk on an unfastened roof panel.

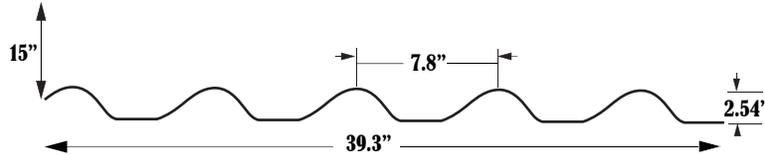
STORAGE/HANDLING

- **Important:** Moisture trapped between stacked sheets may cause water stains or white rust to form under the paint, which can affect the life and service of the metal.
- If metal is not used immediately, store in a well ventilated dry location.
- Any outdoor storage is at the customer's own risk! If outdoor storage cannot be avoided the likelihood of damage may be reduced by protecting the metal using a canvas of waterproof paper.
- Fan sheets lightly at the bottom to allow for air circulation.
- **Keep the sheets off the ground** by using an insulator such as wood.
- **Never cover the metal with plastic** as this will cause condensation to form.
- **Care must be taken when picking up Legacy Tile™ panels. Each panel must be supported on each end, and with one person in between for every 10 ft of panel. To prevent any stretching or distortion of the panels at the steps, they must be picked up and held on their edge, not their width.**



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LEGACY TILE™ PRODUCT INFORMATION



Applications: Residential, Light Commercial
Gauge: 26 gauge Galvalume and .032 Aluminum
Minimum Slope: 3/12

Panel Profile: 39.3" net coverage

Substrate: Galvalume® steel sheet, conforming to ASTM A792 Mill Finish AZ50 Galvalume®; and .032 Aluminum ASTM B209

TCM exclusive paint systems:

Max Defender Paint System® 35 / 30 year limited warranty.
 Coastal Defender Paint System® 25 year limited warranty.

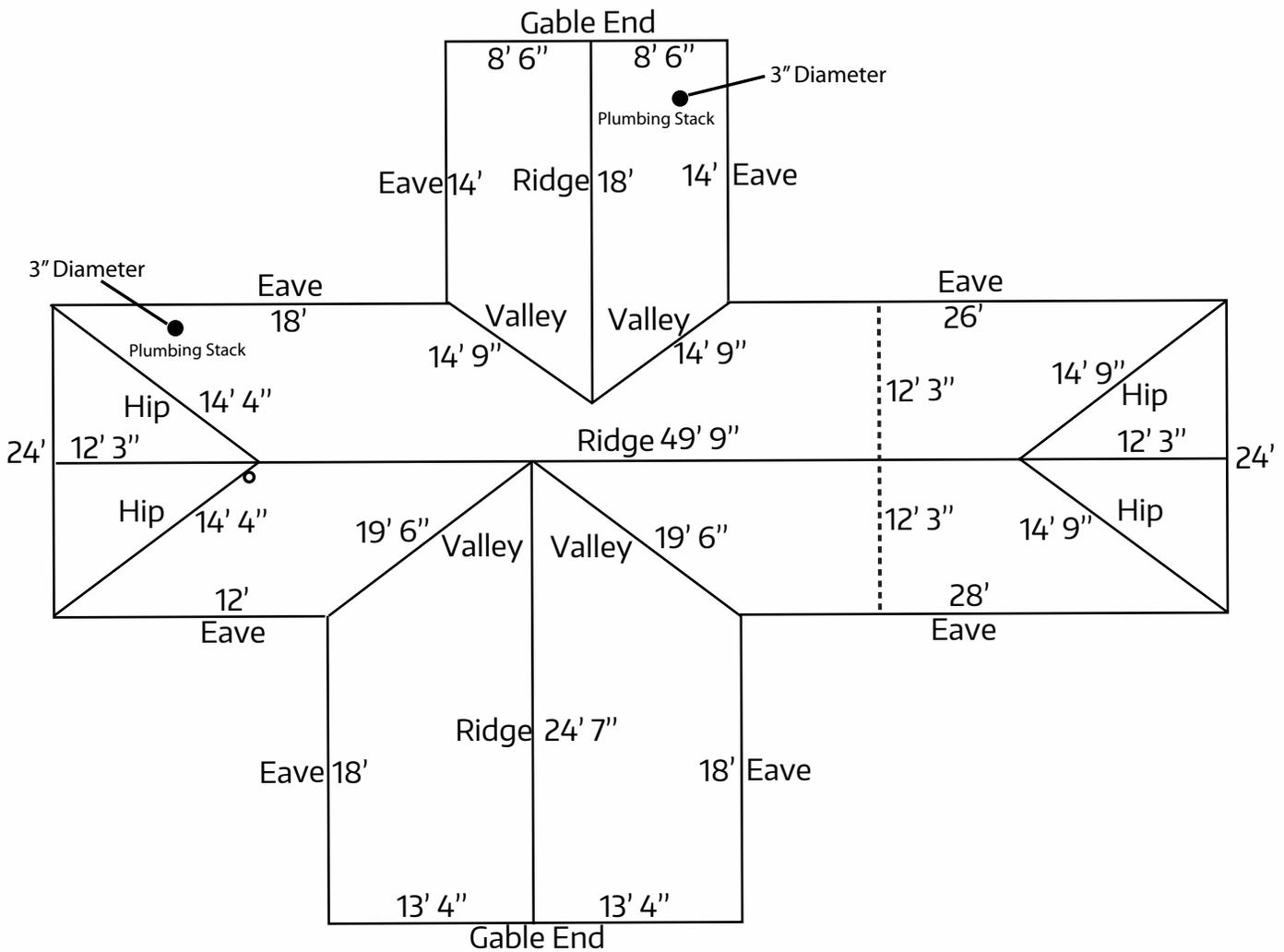
PANEL	GAUGE	SUBSTRATE	APPROVAL#
Legacy Tile	Min. 26	15/32" Plywood	27707.01
Legacy Tile Aluminum	.032"	15/32" Plywood	27707.01

PLEASE NOTE: For other installation configurations, please inquire with your salesperson for site-specific accommodations.

Legacy Tile™ non-structural metal roof panels are mechanically attached to an approved substrate, as outlined in the Limitations /Conditions of Use herein. Legacy Tile™ panels are formed from 26 Gauge ASTM A792, Grade 50 AZ50 aluminum-zinc alloy coated steel or 0.029-0.0320 inch thick ASTM B209, 25-ksi 3105-H24 or 3003-H14 coated aluminum alloy panels that are mechanically attached to approved decks. Legacy Tile™ panels measure 43.5-inches wide with installed horizontal exposure of 39.30 inches and panel lengths up to 30 feet. The panels overlap on the side and ends.

MEASURING YOUR ROOF FOR AN ESTIMATE

- > Start by sketching a birds eye view of your roof. This can be aided by using Google Earth or similar online programs.
- > Identify each part of your roof similar to the drawing below.
- > Once you have drawn your roof and identified each part, measure each line and include it on the drawing.
- > Include on the drawing the location of plumbing stacks (if any) and the diameter of the pipe.

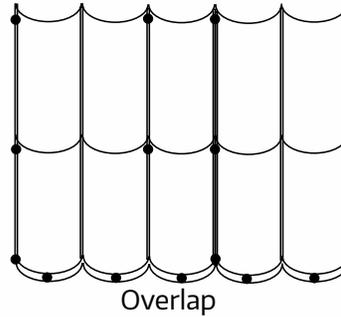


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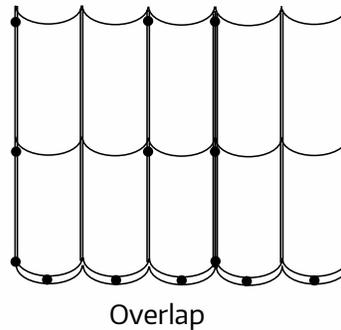
FASTENER INSTALLATION

WOOD DECKS - NEW CONSTRUCTION, RE-ROOF (Tear Off), or RECOVER (over existing asphalt shingles or wood shake/ shingle), NEW ROOFS

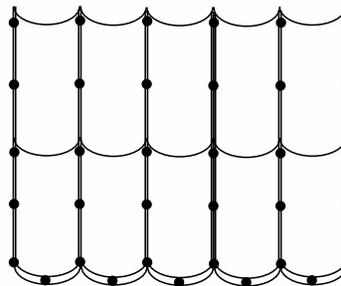
**Min 15/32
APA rated Plywood
MDP (psf) -52.5**



**Min 15/32
APA rated Plywood
MDP (psf) -104.5**



**Min 15/32
APA rated Plywood
MDP (psf) -157.5**



Notes:

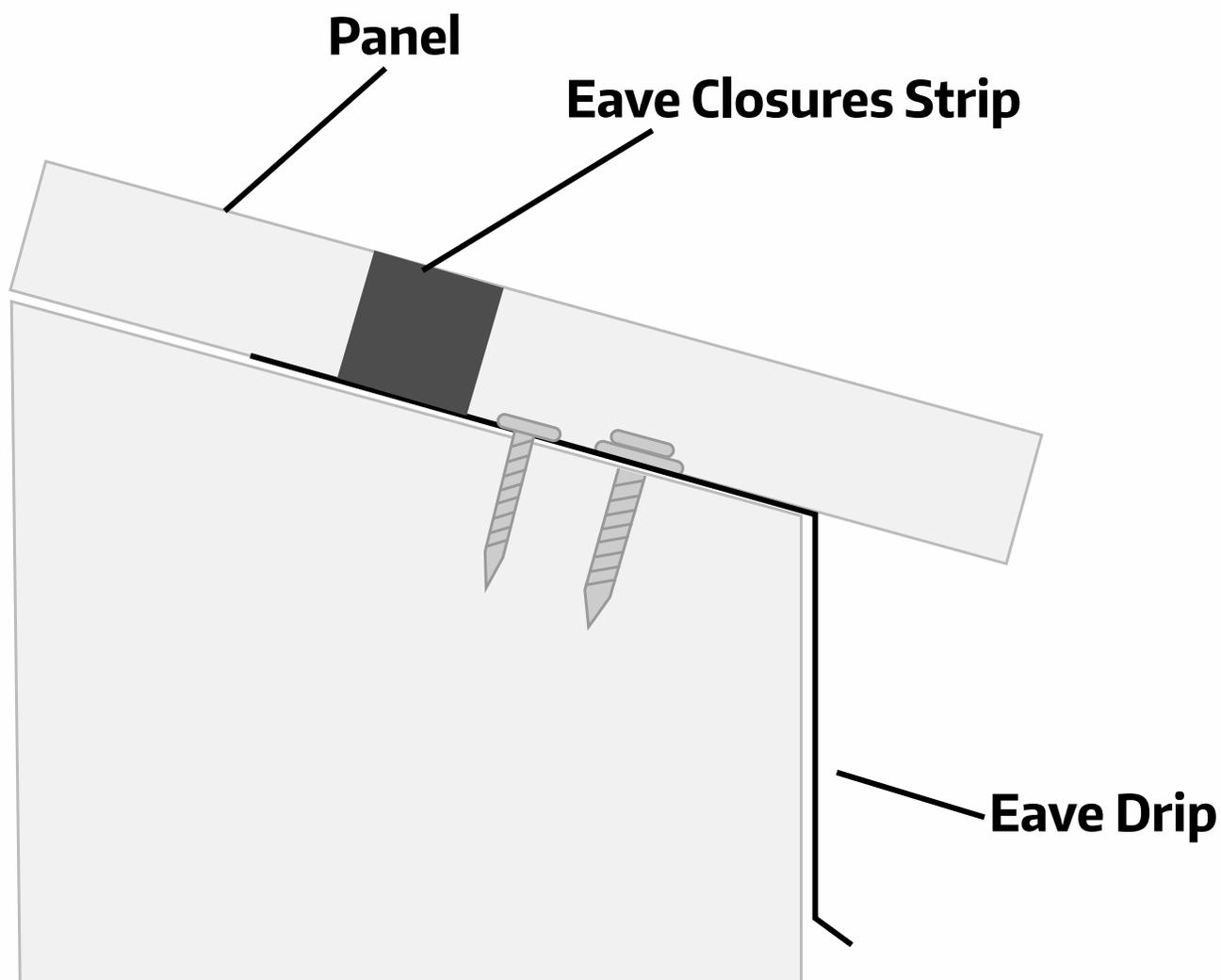
Aluminum: *Min. 3" x No. 10 S/S wood screws with 1/4 inch hex head and 0.59" S/S washer with butyl rubber gasket
Steel : Min. 3" x No. 10 galvanized wood screws with 1/4 inch hex head and 0.47" galvanized steel washer with butyl rubber gasket
Aluminum: Min. 3" x No. 10 S/S wood screws with X-inch hex head and 0.59" S/S washer with butyl rubber gasket.

*** for installation over a fire barrier and/or existing asphalt shingles, panel fasteners that engage the roof deck shall be sufficient to penetrate the underside of the roof deck by not less than 1/2 inch)**



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EAVE DRIP



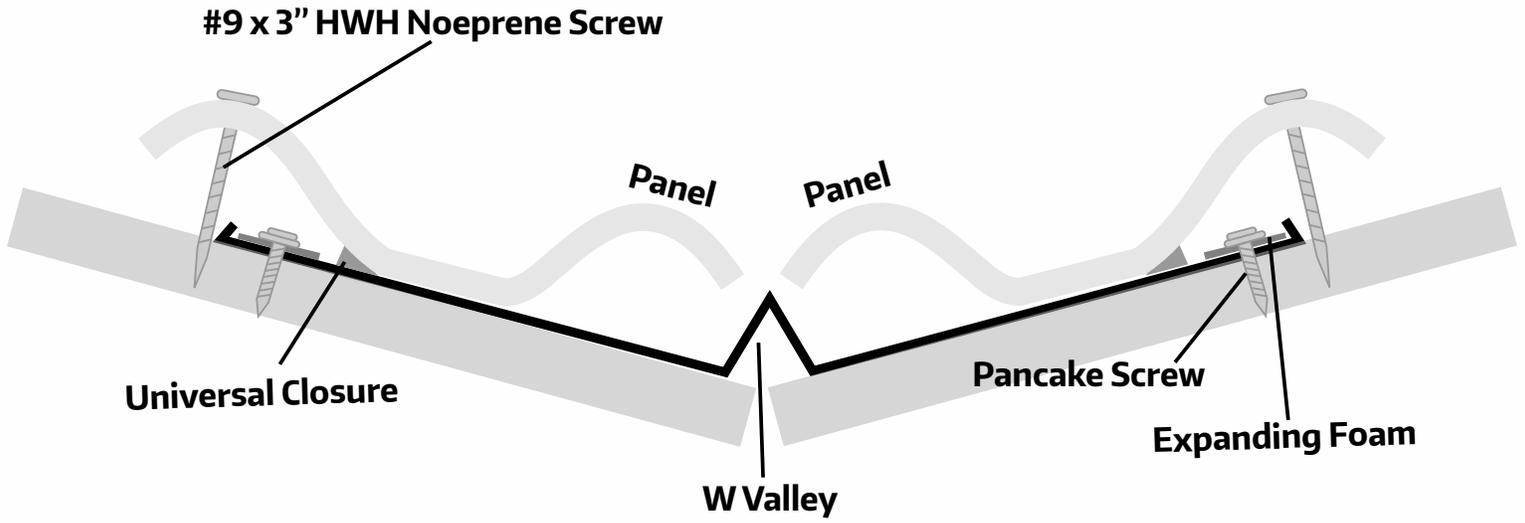
- Note:**
1. In re-roofing applications: cut back and remove existing shingles. Install new drip edge and gable trim so that it is flush with the eave and gable lines as shown.
 2. Install High Temp Underlayment.
 3. Install eave closure strip behind the first tile step.
 4. Fasten 3" screws on the crown of the tile panel making sure fasteners penetrate solid substrate.

RECOMMENDED ACCESSORIES:
Tacky Tape (1 roll = 50' of coverage)



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W-VALLEY



Note:

1. HT underlayment must be installed on both sides of the valley for at least 20"
2. Fasten valley to substrate with appropriate fasteners
3. Cut panel to fit, with an edge setback of 2-3" from the valley ridge
4. Install panels with appropriate fasteners on the crowns, not the valleys.

RECOMMENDED ACCESSORIES:

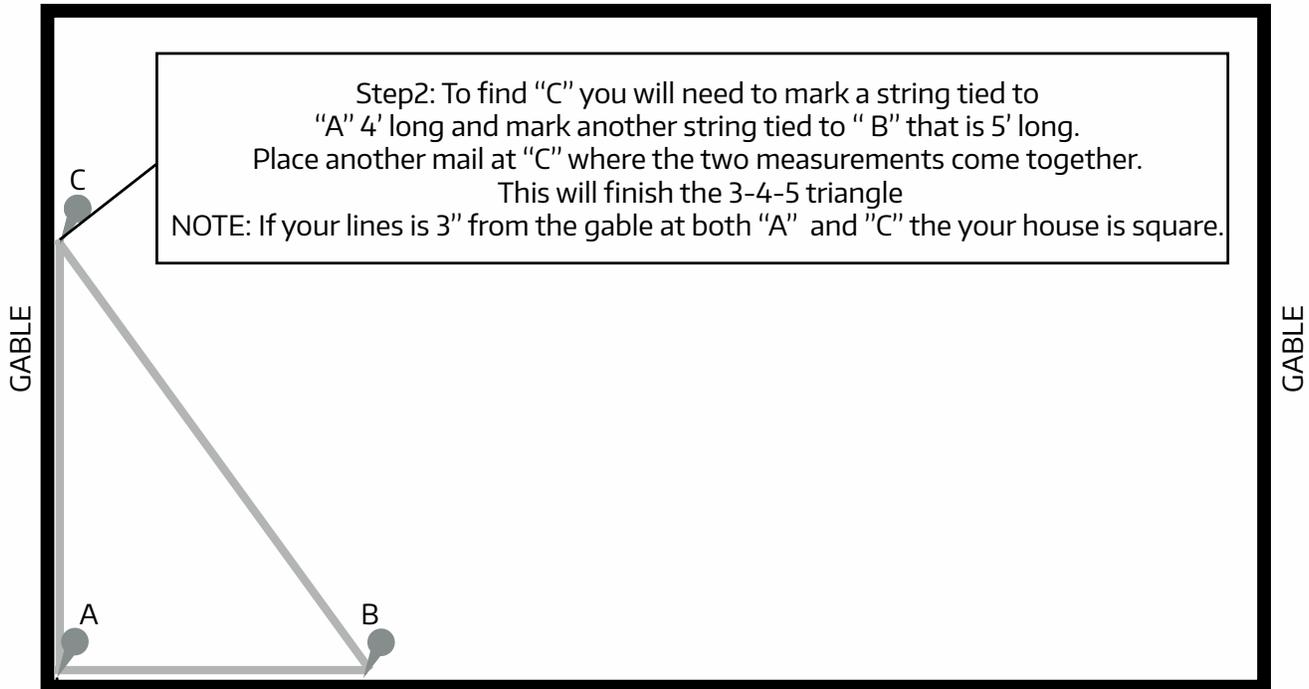
Tacky Tape (1 roll = 50' of coverage)



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SQUARING PANELS

RIDGE



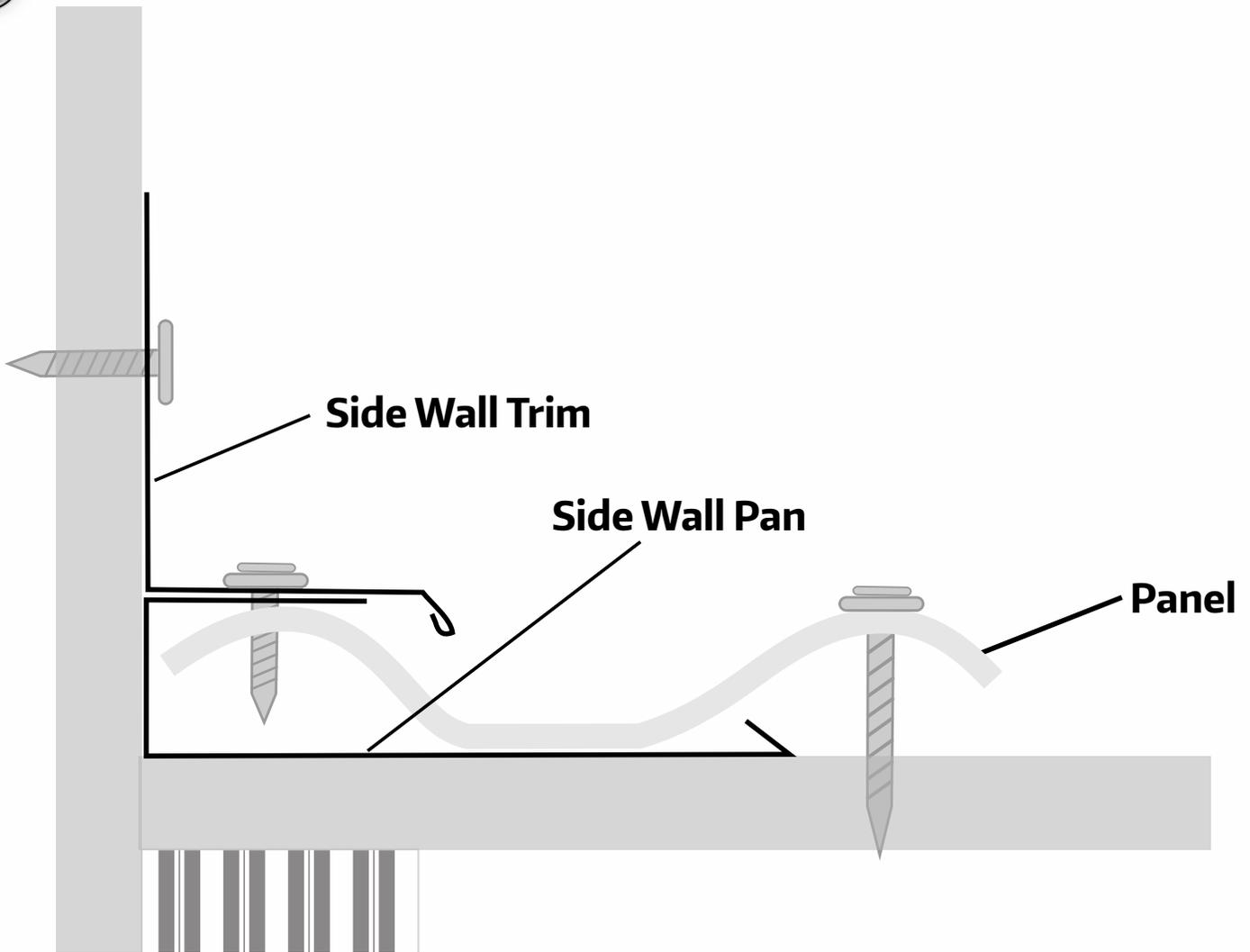
Step 1: Temporarily place a nail 3" from the eave and gable as shown here as "A". Measure 3' parallel on the eave line and place another nail shown here as "B".

The 3-4-5 triangle method will work on a larger scale as well. For example if your roof panels are 16' long then you can multiply the 3-4-5 by 4 so you will be measuring 12-16-20. Just make sure that you multiply all measurements by the same number. The next step will be making a chalk line going from your "point A" to "point C". You will want this line to be as close to the edge of the gable as possible so your first panel will be about an 1/8" from the edge of the roof. You will want to measure 9' 6" from your chalk line at the A and C points and make another chalk line. This will help you as you start installing your panels to make sure they are still square with your eave. It is a good idea to continue this process for the entire project and on both sides of your roof.



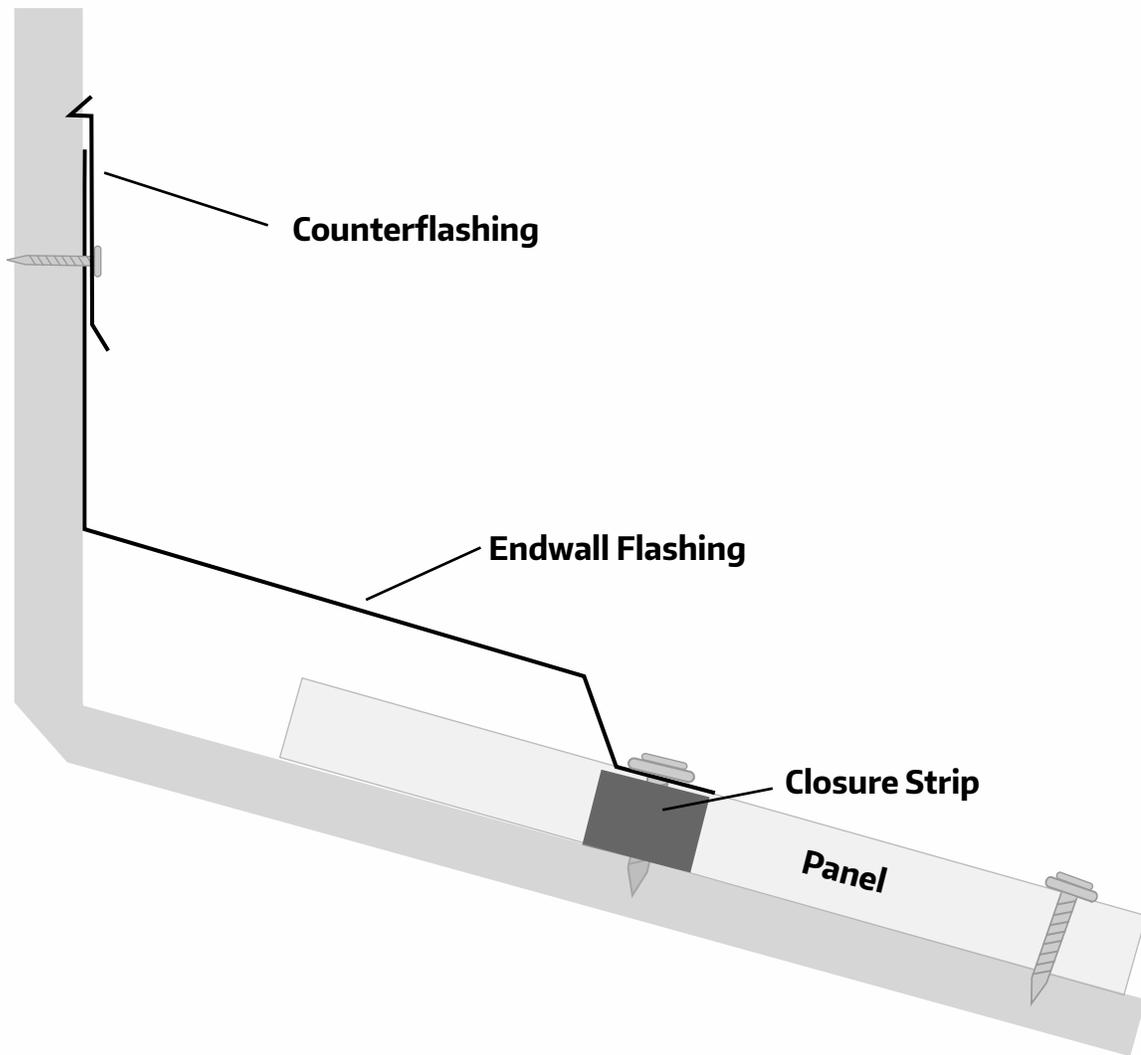
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SIDEWALL FLASHING

**Notes:**

1. Make sure HT underlayment is applied below all metal surfaces.
2. It is highly recommended that the underlayment is also installed up the sidewall for added leak protection.
3. A high quality sealant should be applied between the sidewall trim and the wall for added protection. Alternatively, the sidewall trim shown above may be replaced with reglet counterflashing as shown in the Endwall detail.

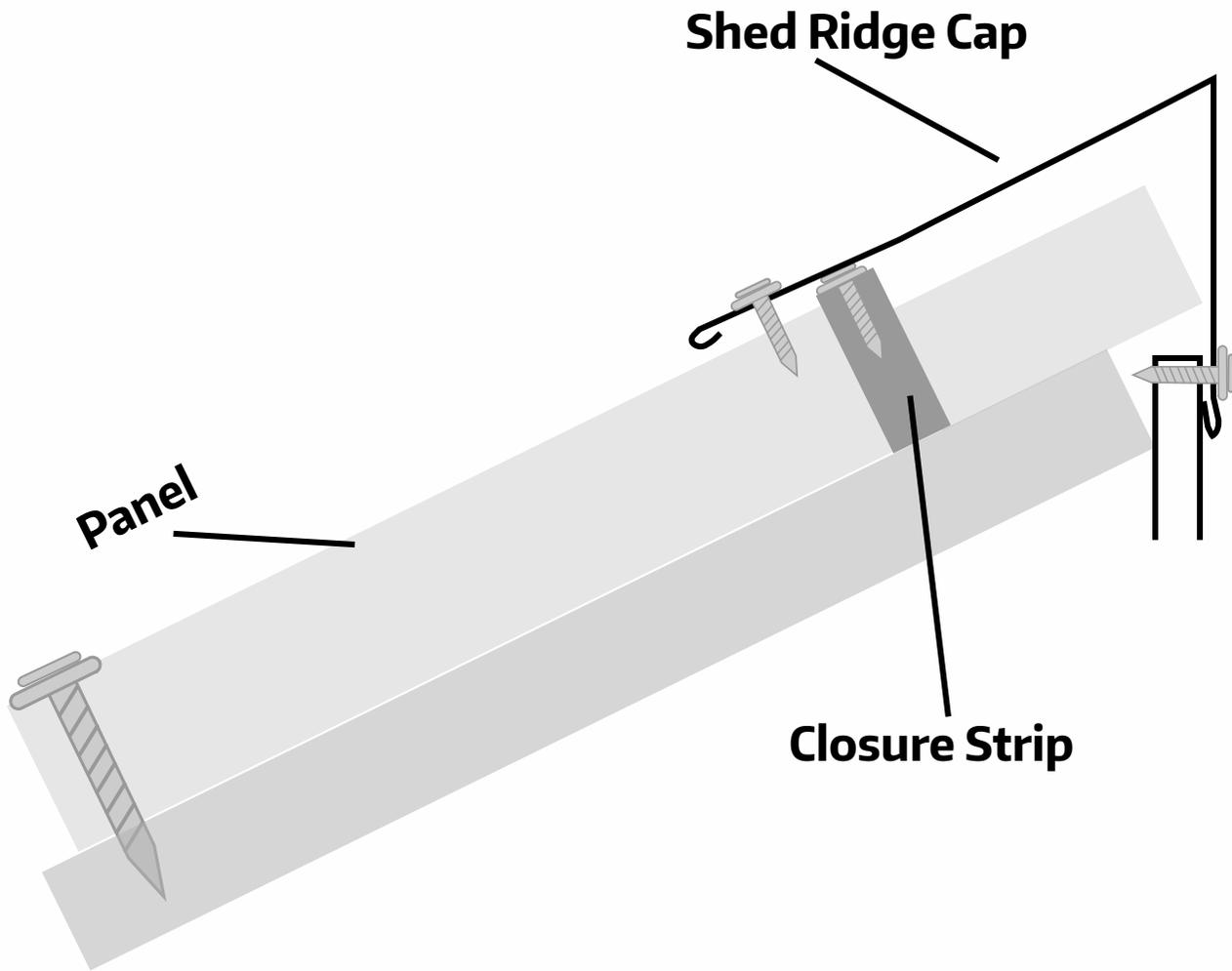
ENDWALL FLASHING



Notes:

1. Make sure HT underlayment is applied below all metal surfaces.
2. It is highly recommended that the underlayment is also installed up the sidewall for added leak protection.
3. A high quality sealant should be applied between the sidewall trim and the wall for added protection. Alternatively, the sidewall trim shown above may be replaced with reglet counterflashing as shown in the Endwall detail.

HIGH SIDE RIDGE



Notes:

1. Line up the Legacy Tile™ panel to the edge of the roof.
2. Install the Legacy Tile™ closure strip
3. Fasten down as shown with appropriate fasteners.

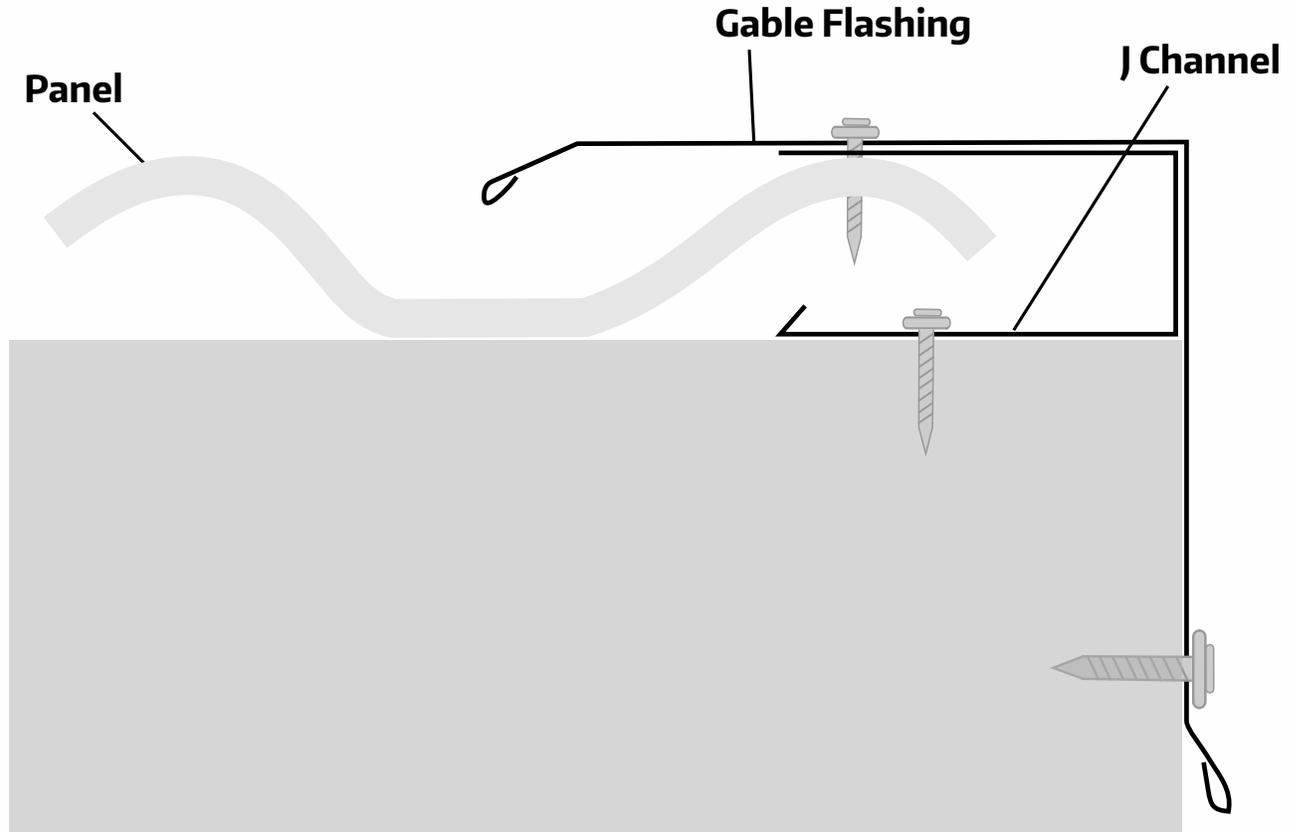
RECOMMENDED ACCESSORIES

Tacky Tape (1 roll = 50' of coverage)



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GABLE TRIM



Notes:

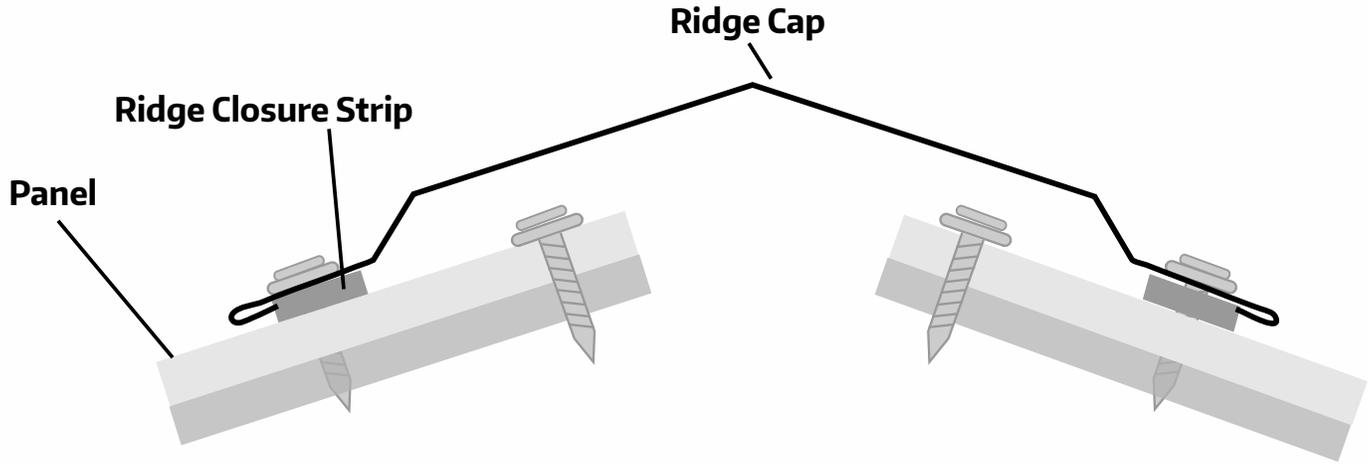
1. Install J-channel as shown.
2. Install the first panel or cut the last panel to fit. Leave approx. 1/2" space in the J-channel as shown.
3. Install gable trim cap over the J-channel and Legacy Tile™ as shown. Fasten with appropriate fasteners.



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RIDGE CAP

(Stepped and Tapered Ridge Caps)



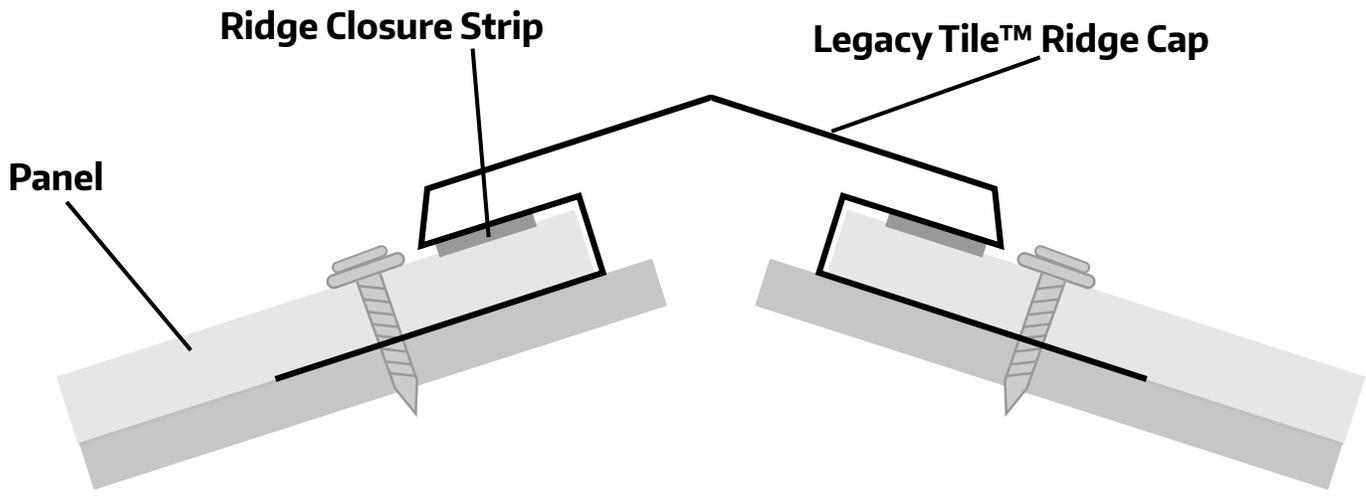
Please specify roof pitch when ordering.

Notes

1. Install panels to meet at the ridge as shown with the profiled Legacy Tile™ ridge cap closure strip.
2. At the end of each ridge, cut back, fold and cap off the ridge cap.

RIDGE CAP

(Legacy Tile™ Ridge Cap)



Please specify roof pitch when ordering.

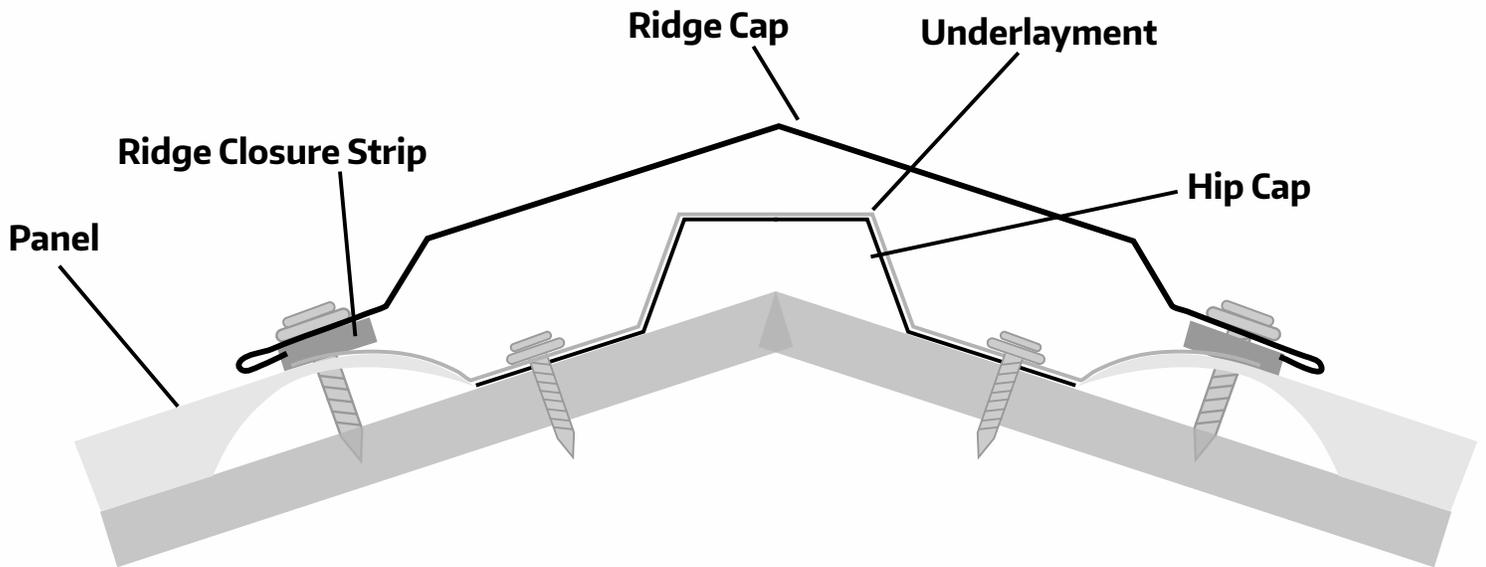
Notes

1. Locate the panels to meet at the ridge as shown. Do not fasten down at this time.
2. Raise each end of the panel and slide the ridge cap into place to fit as shown.
3. Fasten the Legacy Tile™ to the substrate with appropriate fasteners.
4. Install the Legacy Tile™ closure strip under the ridge cap with the profiled side down and the flat side with the adhesive backing facing up. Make sure the closure strip is securely seated.
5. At the end of each ridge, cut back, fold and cap off the ridge cap.



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HIP CAP



Notes:

1. Place a hip base over the hip and fasten down as shown.
2. Locate panels to meet at the ridge as shown.
3. Apply HT underlayment over panel and hip base for a secure seal.
4. Install ridge cap over the Sabre Tile panels and hip base as shown.
5. At the end of each hip, cut back, fold and cap off the hip cap and ridge cap.



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ROOF BOOT INSTALLATION



Choose appropriate Master Flash with opening at least 20% smaller than pipe diameter. If necessary trim opening to 20% smaller than pipe diameter.



Slide Master Flash down over pipe. (A nonpetroleum base lubricant will ease installation.)



Apply sealant between base and roof.



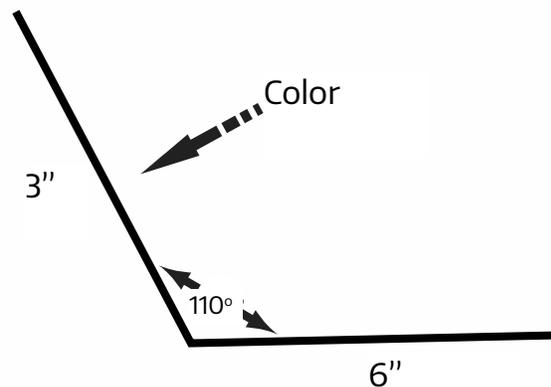
Use fasteners to complete sealing. Space screws no more than 3" apart around the pipe.

SPECIAL TRIM INFORMATION

Tri County Metals can manufacture special trim designs separate from those designs included in the manual.

If your project requires special trim, please provide us with the following information:

1. A drawing of the trim design.
2. Clearly marked dimensions of each leg of the drawing.
3. Clearly marked degrees of each angle.
4. Clearly indicate the color side.



TRIM MANUFACTURING SPECIFICATIONS

- > Hem size must be 1/2" or larger.
- > Bends on hemmed legs need to be greater than 1/2" or else the hem obstructs the break.
- > Smashed parts need to be at least 1 1/4".
- > Maximum bend break can do is 135 degrees.
- > When bending angles opposite of one another, like that of a Z Flashing, the middle part of the Z must be at least 1/2" or larger.
- > When bending two 90 degree bends on the same side, one leg has to be equal to or less than the length of the material between the two bends.
- > Pieces with more than two bends on the same side are difficult to do unless the bends are large enough. Please talk with a Tri County Metals representative for assistance.
- > For trim pieces that have to slide over another piece where the inside dimensions are critical, please indicate "CRITICAL" measurement.



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CARE AND MAINTENANCE

To maintain the original finish of the metal roofing 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 roofing 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 metal roofing panels 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.

valspar®



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POLICIES

RETURN POLICY: All Tri County Metals trim is manufactured from either our Mill finish Galvalume® or TCM exclusive painted metal systems and is returnable as long as it is deemed by our Company's Production Manager as being in good, clean and resalable condition, free from scratches, mars and other damages. Tri County Metals reserves the right to charge a 20% restocking fee. The same general principle applies also to the return of other accessories such as screws, boots, closures, etc.

Trim that is custom made (different than the stated specifications in this manual, including L Flashing and Fascia are not returnable, and is considered the property of the customer once it has been made, whether paid for or not. This Policy also pertains to metal roofing and siding panels, which cannot be returned.

PAYMENT: Tri County Metals accepts cash, check, Visa, MasterCard, Discover Card and America Express. Personal checks require the check writers drivers license # and date of birth.

Returned checks will be assessed a \$35 dollar return check fee.

DELIVERY POLICY: Delivery charges apply to all orders where delivery is requested. Please call for details.

SALES TAX: All orders picked up at Tri County Metals, and all orders delivered within the State of Florida, are subject to State Sales Tax. Tax Exemptions should be verified prior to delivery or customer pick up. Orders delivered out of state are tax exempt.

WARRANTED PRODUCTS: Request written warranty for details.

INDEMNITY: All prices and designs are subject to change without notice.

DISCLAIMER: While we have made every attempt at accuracy in this manual, we are not responsible for typographic, printing or technical errors.

The success of Tri County Metals has been, and will continue to be, because of our valued customers. We strive to be a company where contractors as well as home owners are welcome. We will assist you in calculating the materials needed to complete your project and at a price you can afford. We understand that our customer's time is important and we make every effort to get you in and out as quickly and efficiently as possible. Quality, price, service and availability are the mainstays of our business and we don't plan on changing it.



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