

STANDING SEAM

Installation Manual



BUCKEYE
METAL SALES





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Introduction

Welcome to Buckeye. At Buckeye Metal Sales, we commit to a high standard of quality and safety. We offer this guide to ensure the best outcomes for your standing seam panel installation.

Important Information

The drawings and depictions are for the purpose of illustration only and may not be applied to every product line or building design. If there is any conflict between this manual and the actual construction drawings, the construction drawings should take precedence.

Buckeye Metal Sales recommends following all your building regulations, codes for your area, and industry best practices. The contractor or installer is responsible to ensure the safe installation of this roofing system.

This manual is designed as a guide only for installing standing seam panels. Buckeye Metal Sales is not responsible for performance issues when metal is not installed according to the recommendations laid out in this manual. We reserve the right to modify this manual at any time. Questions you have may be directed to your Buckeye Metal Sales representative.

Safety

Always use extreme caution when installing metal panels and accessories. Do not walk on the panels; they are not able to withstand large amounts of weight. Never stand on a panel even briefly before it is fully fastened. Your metal panels may be very slippery in certain weather conditions. It is recommended that metal roofing and siding be supervised by a professional in the field.

Design Considerations

- 1** Prior to placing any orders, on-site measurements should be taken. Ordering should be based only on real site measurements.
- 2** Always check with an Engineer/Local Building Codes before installation for any codes that apply to the area of installation.
- 3** Our standing seam panels should be installed directly over a plywood/OSB substrate with 30# or equal UDL moisture barrier. In some instances, local building codes may require an ice guard.
- 4** When installing or replacing a roof, the installer should ensure that the roof deck is square before installing any metal panels.
- 5** Always have an authorized contractor inspect the roof of an existing wooden substrate for any inferior details such as rot, sagging, or possible structural failure. Before installation, make sure all nails, staples, or protruding hardware are removed from the existing roof.

Delivery & Unloading

We deliver the standing seam metal directly to your site, and the majority of standing seam orders are rolled on-site per your profile requirement. Small orders and trim are rolled at the shop and delivered to the job site along with any insulation, fasteners, caulking,

and vents needed to complete the project. The installer shall report any issues or damages immediately to Buckeye Metal Sales personnel at the site.

Material-Handling Instructions

Handle painted panels and accessories with care. To avoid scratching and damage, do not drag the panels across other panels, over the ground, or over rough surfaces of any kind. We recommend wearing clean gloves whenever handling or cutting metal materials. Soft rubber-soled shoes will help ensure proper grip and keep the panels from scuffing.

Always carry panels by the short edge so the panels are held vertical to the ground. Never carry the panels horizontally with the ground, as this may result in buckling of the panels. While in most cases a single person can handle a panel up to 8' in length, we recommend that additional people be placed every 10' along the entirety of the panel on larger panels.

Due to the kite-like effect of the panel, exercise great caution when handling panels in windy conditions, especially when wind speeds exceed 10 mph. We recommend that trained professionals oversee any weather or job site conditions that may become a working hazard.

Never let Galvalume panels come into contact with any water runoff from copper, lead, or uncoated steel materials.

Field Cutting

We recommend using tin snips or electric nibblers for cutting metal. Be sure to remove all chips and slivers that are created by the cutting. Failure to do so will result in damage to the finish of the metal and will shorten the lifespan of your metal. Wear appropriate safety gear while cutting metal.

Touch Up

If minor scratches or nicks appear during the handling of the metal, use Akzo Nobel paint provided by Buckeye Metal Sales. Do not paint the whole panel. Instead, use a small brush or Q-tip and apply only to the scratch or nick. Apply coats as needed.

Ventilation

Vapor barriers and vented closures are necessary to prevent condensation under your roof. Condensation occurs when moisture-laden air comes in contact with a surface that has a temperature equal to or below the dew point of the air. This can cause several issues, all of which can be avoided with the proper ventilation products and techniques. Please talk to a Buckeye Metal Sales representative to source the proper products.

Roof Care & Maintenance

While the factory-applied finishes are very durable and will last many years, it may eventually become necessary to clean them. A light cleaning is usually all that is needed, and

with the proper cleaning products, you can easily restore the panels to their original beauty.

Dirt pickup may cause slight discoloration of the paint when it has been exposed to a dirt-saturated atmosphere for extended periods of time. Some chalking may also occur in areas of extreme sunlight exposure.

Simply spraying the panels with plain water using a water hose or a pressure washer will be sufficient in many cases where cleaning is needed.

In areas of heavier dirt deposits, a cloth or soft bristle brush and a solution of water and detergent (1/2 cup of Tide or similar laundry detergent per gallon of water) may be used, followed by a thorough rinse with clean water.

Mildew can occur in areas with high humidity but is not normally a problem due to the mildew resistance of the baked-on finish applied during manufacturing. To remove mildew, apply the following solution to the needed area using a mop or soft-bristled brush. Rinse thoroughly after applying and repeat as necessary.

Mildew Removal Solution

1 cup trisodium phosphate

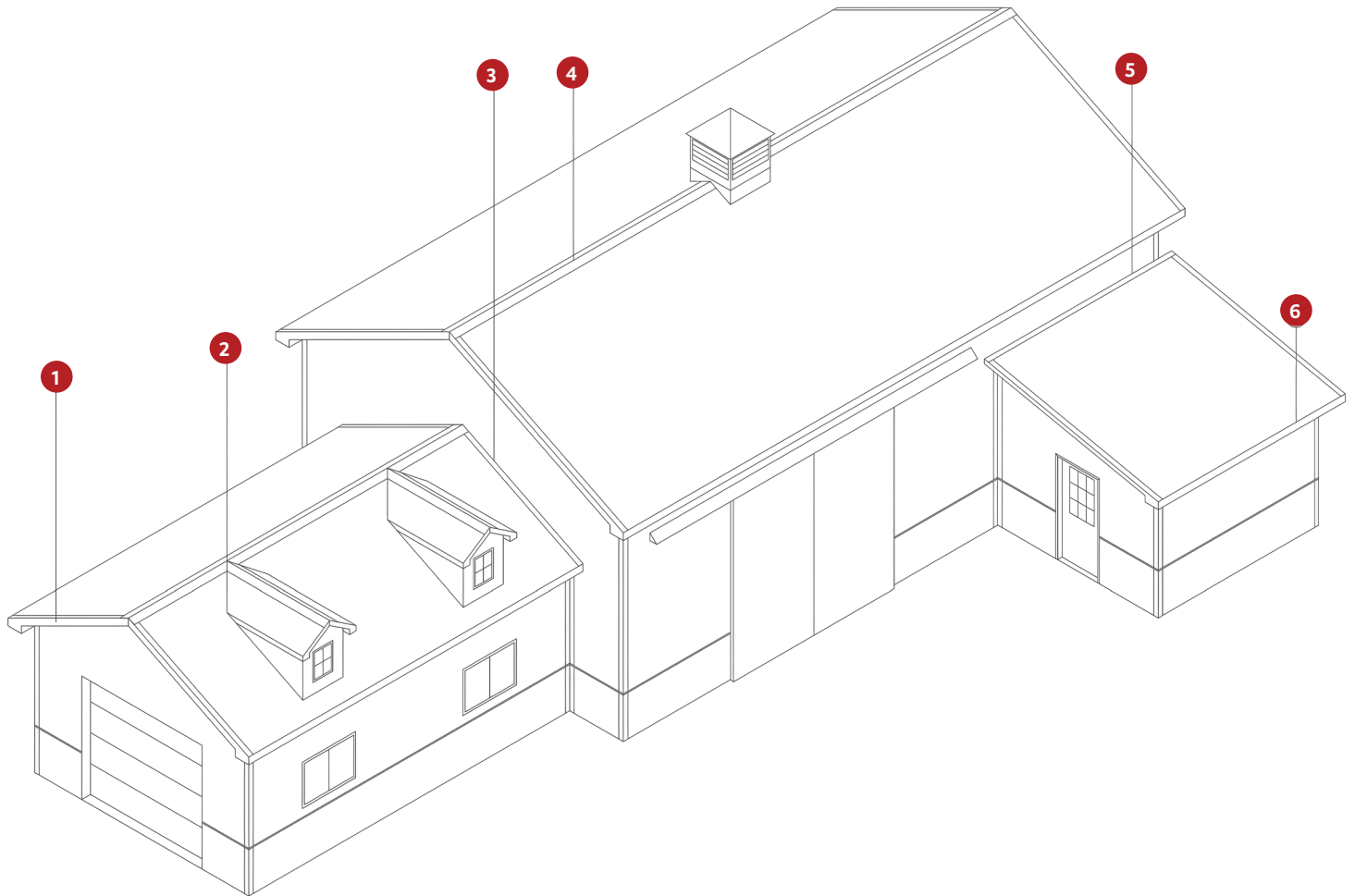
1-1½ qt. of sodium hypochlorite solution

1 cup laundry detergent

4 quarts clean water

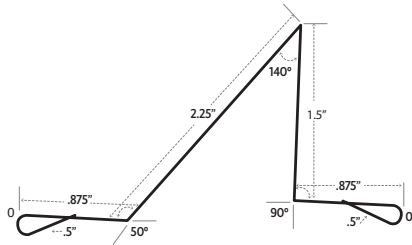
Strong solvents or abrasive cleaners should not be used. Most solvents are flammable and should be handled with care. Do not use wire brushes, abrasives, or cleaning tools that may damage the coating surface.

Trim Profiles

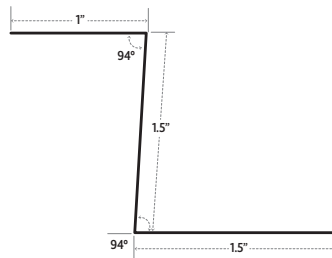


SEE THE TRIM FOR EACH LOCATION ON THE FOLLOWING PAGE.

SNOW GUARD

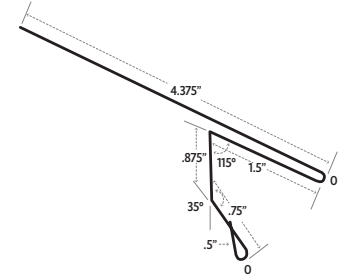


Z FLASHING

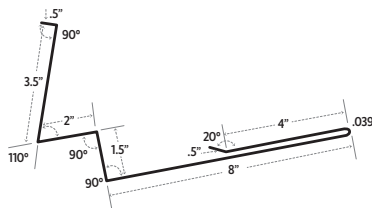


EAVE

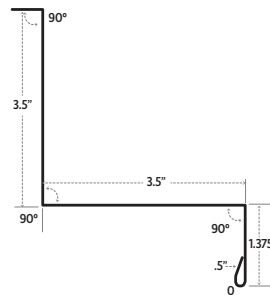
6



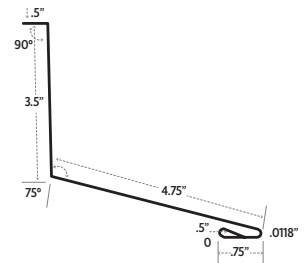
CHIMNEY TOP



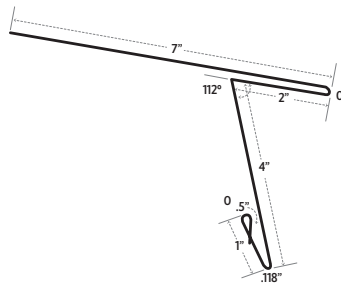
CHIMNEY SIDE



CHIMNEY BOTTOM

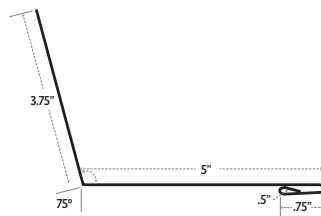


TOP GAMBRELL



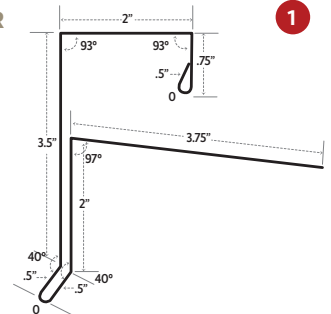
ENDWALL

5



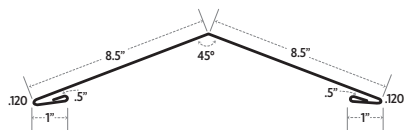
CORNER

1

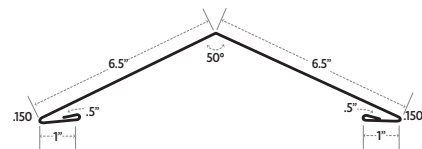


RIDGE

4

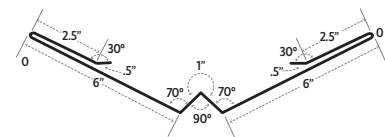


HIP RIDGE



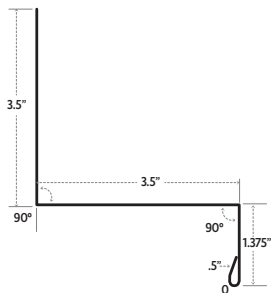
VALLEY

2



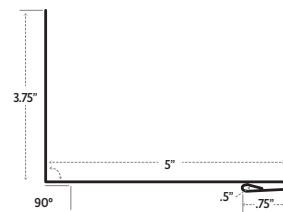
SIDEWALL 1

3

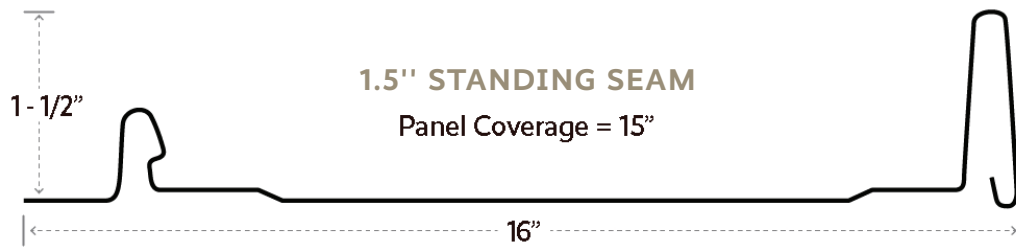


SIDEWALL 2

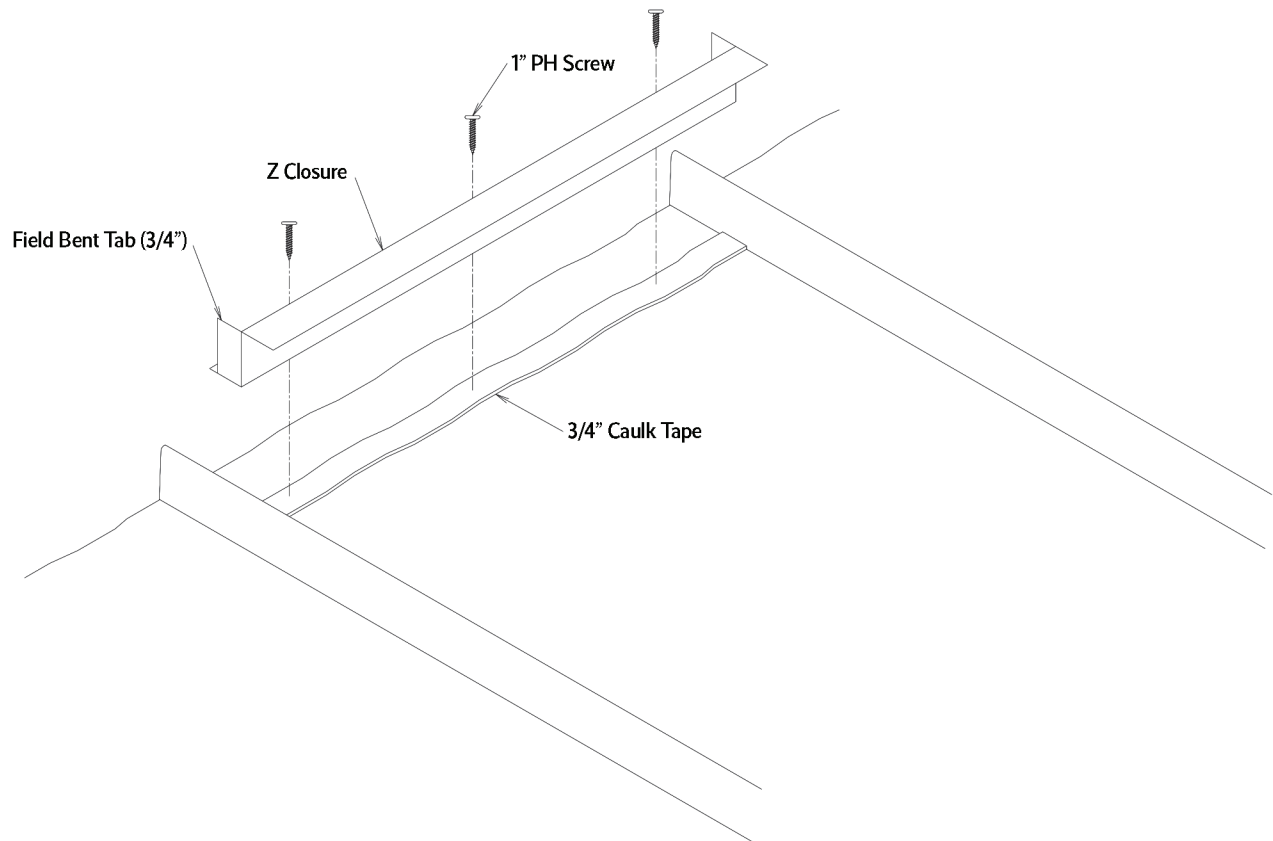
3



Standing Seam Profiles

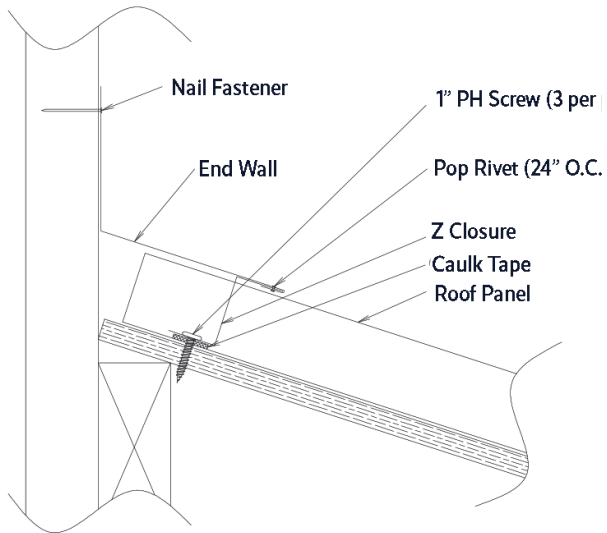


Z Closure Installation

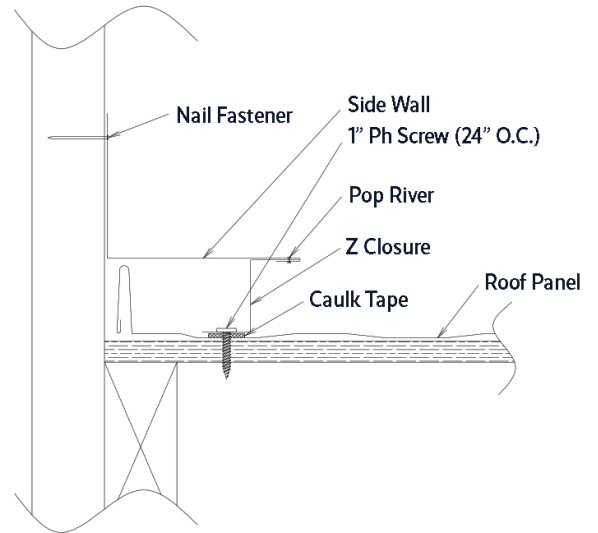


Trim Installation Details

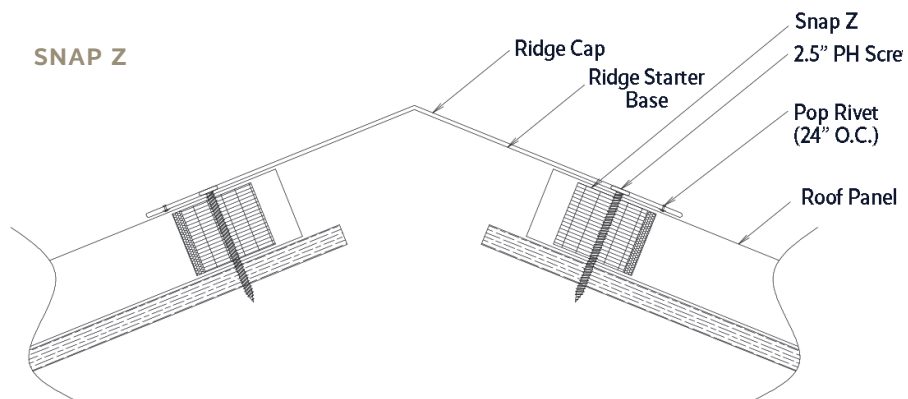
END WALL



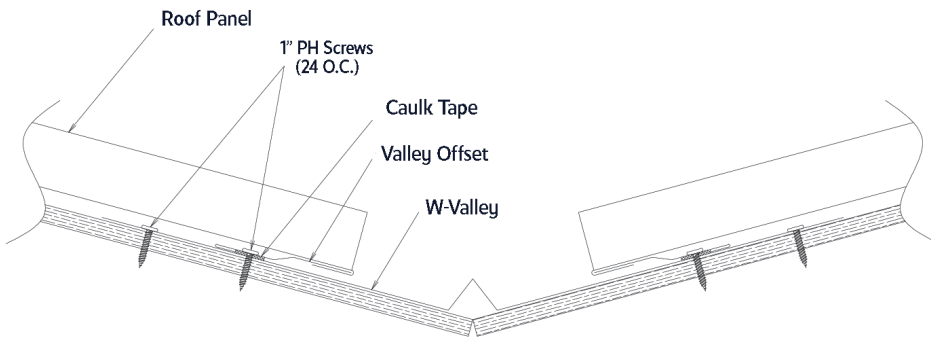
SIDE WALL



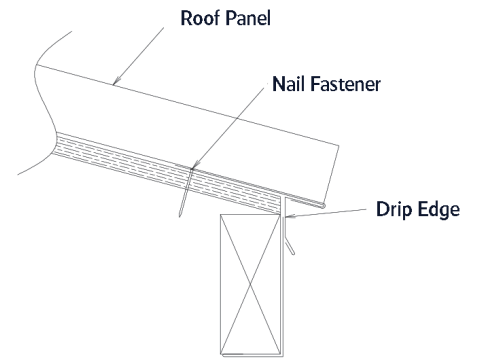
SNAP Z



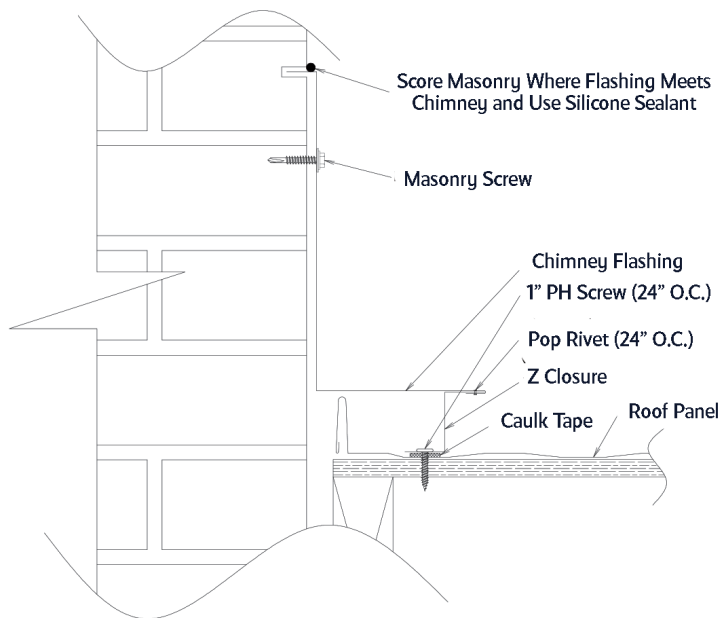
Trim Installation Details



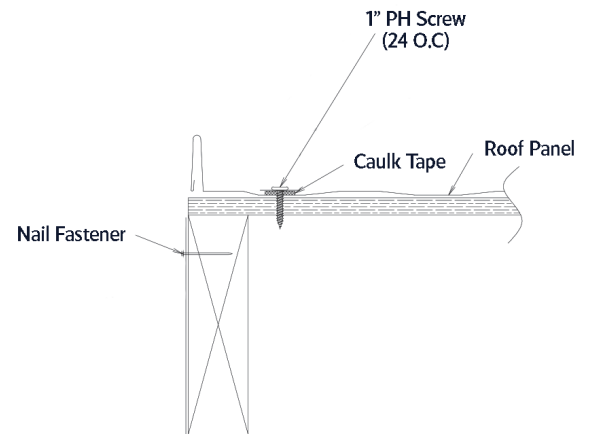
W-VALLEY



DRIP EDGE



CHIMNEY Z FLASHING

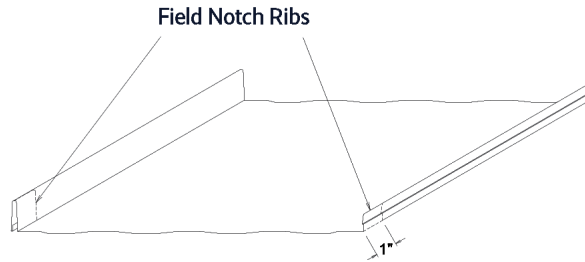


RAKE TRIM

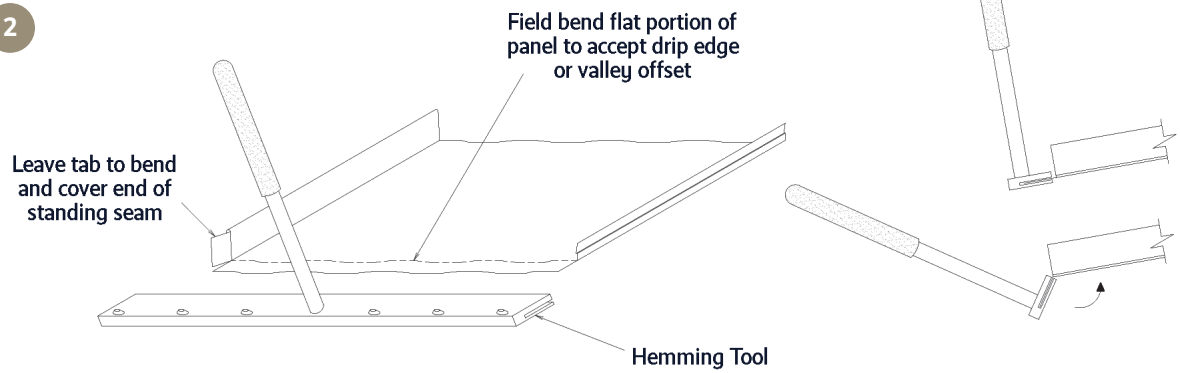
Panel Hemming Detail

STEP 1

Note: These panels are pre-notched unless they are cut at angles.

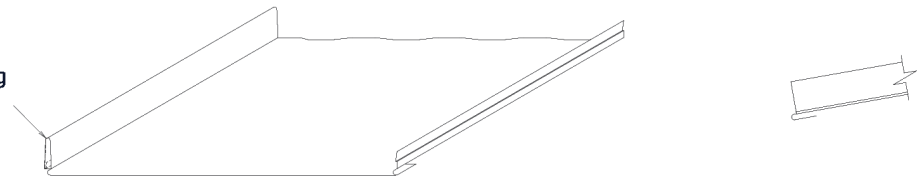


STEP 2

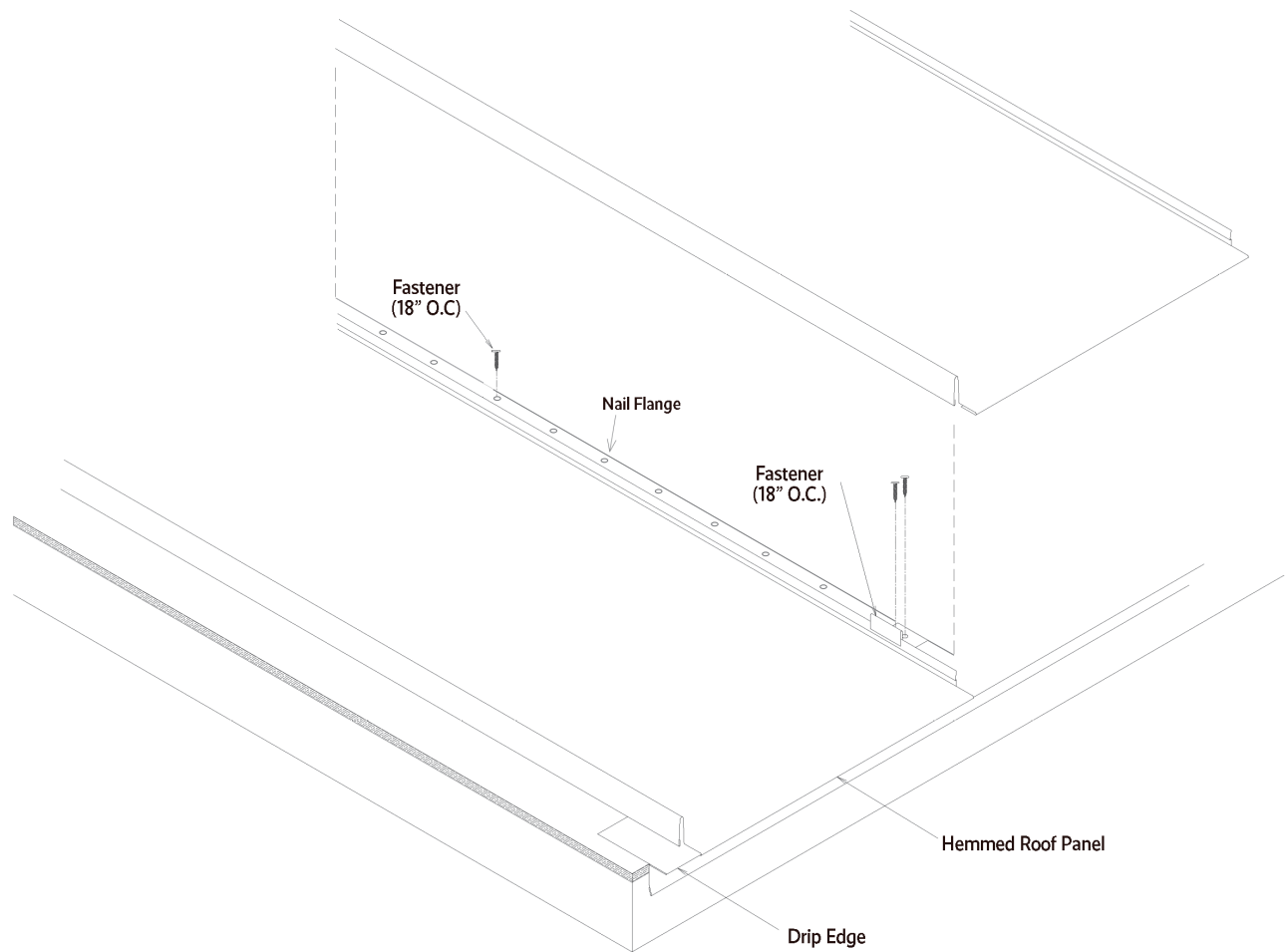


STEP 3

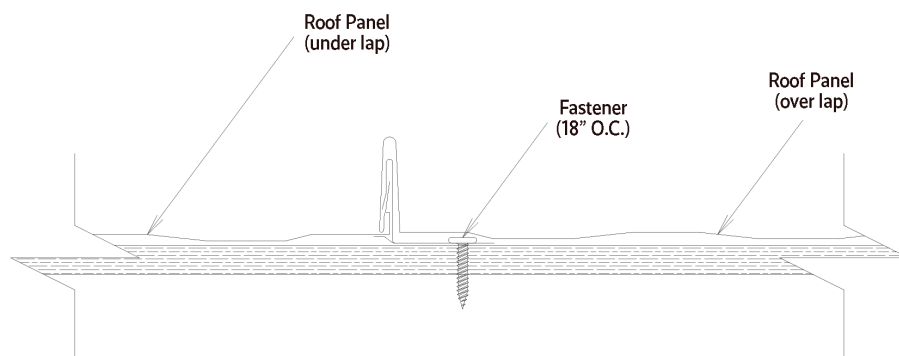
Bend tab over to cover end of standing seam and trim parallel with seam



Standing Seam Clip Detail



Standing Seam Lap Detail



*Personable Service.
Premium Materials.
Quick Turnarounds.*

That's the Buckeye way.



BUCKEYE
METAL SALES

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