TOWN AND COUNTRY METALS

T&C

METAL ROOFING & SIDING

Metal Roof AG Panel Installation Book

MANUFACTURERS OF
METAL ROOFING & SIDING

(636) 744-0022

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IMPORTANT NOTICE

This manual contains suggestions and guidelines on how to install Town & Country Metals panels and trim details. The contents of this manual include the guidelines that were in effect at the time this publication was originally printed. In an effort to keep pace with the ever-changing code environment, Town & Country Metals retains the right to change specifications and / or designs at any time without incurring any obligations. To insure you have the latest information available, please inquire or visit our web site. Application and design details are for illustrative purposes only and may not be appropriate for all environmental conditions and/or building designs. Projects should be engineered and installed to conform to applicable building codes, regulations, and accepted industry practices.

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Introduction

The AG-Rib® panel is an industry leader in strength and durability. This popular and versatile panel features classic looks and is used in a wide range of applications including residential, commercial, and post-frame buildings. AG-Rib® was designed with strong trapezoidal ribs to increase strength and ease handling and installation. In addition, the anti-siphoning channel on the under-lap provides extra leak resistance in the presence of extreme wind and rain loads.

AG-Rib® is available in many different paint colors and in both 26 and 29 gauge steel. It is also available in unpainted Galvalume® or in some cases unpainted galvanized. Our paint system and Galvalume® substrate are individually covered by a limited warranty. Please see our color chart for details on our paint system.

The AG-Rib® panel is available in 36" coverage. The panel has five major support ribs at ¾" high that add rigidity and strength to the panel.

AG-Rib® is Metal Construction Association certified. Below is a list of all of the AG-Rib® panels approvals and certifications.

- **UL 790 Fire Resistance Class A**
- **UL 2218 Impact Resistance Class 4**
- **UL 580 Uplift UL Class 90 CONSTRUCTION #584**

Allowable Uniform Loads Per Square Foot

	LIVE LOAD (PSF)						WIND LOAD (PSF)					
SPAN (INCHES	18"	24"	30"	36"	48"	54"	18"	24"	30"	36"	48"	54"
29 Gauge	199	112	71	49	28	22	211	118	76	52	29	23
26 Gauge	268	150	96	67	37	29	276	155	99	69	38	30

NOTES:

1. Theoretical allowable loads are based on section properties and allowables calculated in accordance with 2001 AISI Specifications. 2. Theoretical allowable loads are based on three or more uniform spans.
3. For roof panels, deduct self weight for actual 'live load' capacity of the panel.
4. These loads are for panel strength. Frames, purlins, decks and fasteners must be designed to resist all loads imposed on the panel.
5. Check local building codes if panel testing is required.

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Panel Installation Guide

Storage

If metal is not to be used immediately, store inside in a well ventilated, dry location. Condensation or other moisture can form between the sheets during storage causing water stains or white rust which detract from the appearance of the product and may affect the product's useful life. Trapped moisture between sheets of painted metal can cause white rust to form underneath the paint. This can cause the paint to flake off the panel immediately or several years later. To prevent white rust and staining, break the shipping bands on the material. Store the material on end or on an incline of at least 8" with a supporting board underneath to prevent sagging. Fan the sheets slightly at the bottom to allow for air circulation. Keep the sheets off of the ground with an insulator such as wood. Any outdoor storage is at the customer's own risk. If outdoor storage cannot be avoided, protect the metal using a canvas cover or waterproof paper. Never cover the metal with plastic as this will cause condensation to form.

Some Safety Precautions

Always wear protective gloves when working with steel panels to avoid cuts from sharp edges. When cutting or drilling steel panels, always wear safety glasses and sweep off any metal shavings immediately to prevent eye injury from flying metal fragments. If you must walk on a metal roof, take great care. Metal panels can become slippery, so always wear shoes with non-slip soles. Avoid working on metal roofs during wet conditions when the panels can become extremely slippery.

General Installation Information

Insure that the structure is square and true before beginning panel installation. If the structure is not square, the panels will not properly seal at the sidelaps. Start the first panel square to eave by using the 3, 4, 5 Triangle Method. Green or damp lumber is not recommended. Moisture released from the damp lumber may damage the metal panels. Nails installed in green or damp lumber may back out. Remove any loose metal shavings left on the roof surface immediately to prevent corrosion. After installing roof, remove any debris such as leaves or dirt to prevent moisture from getting trapped on panels.

Fastening

If you wish to predrill fastener holes, use a cover sheet to prevent hot shavings from sticking to panels. Screws - For best results, use a 1-1/2" washered wood screw in the flat of the panel as shown in the illustration below. Drive the fastener so that the washer is compressed securely against the metal. Do not over drive the fastener as this will form a dimple that can collect water and cause leakage. Do not leave any loose fasteners that have missed the purlin. Use a #14 stitch screw or caulk to fill the hole.

Figure #1 - Fastening Patterns for Tuff-Rib®

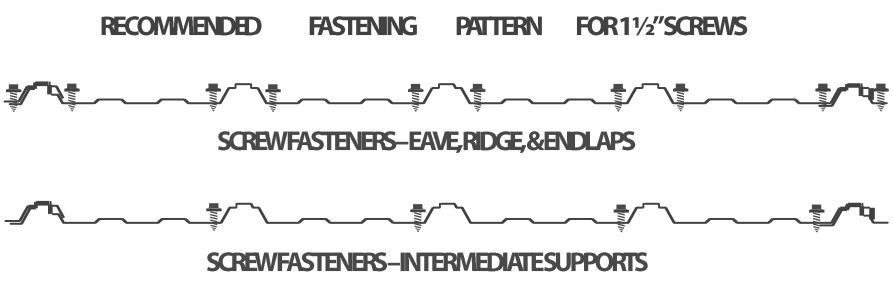

Figure #3

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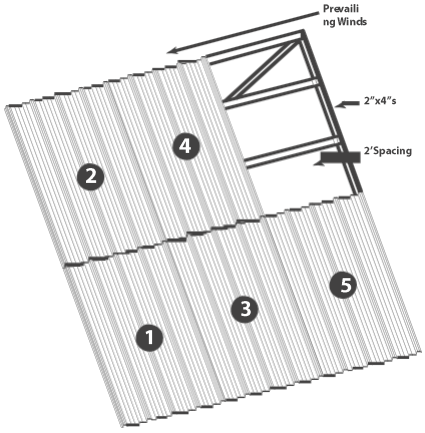
Roofing

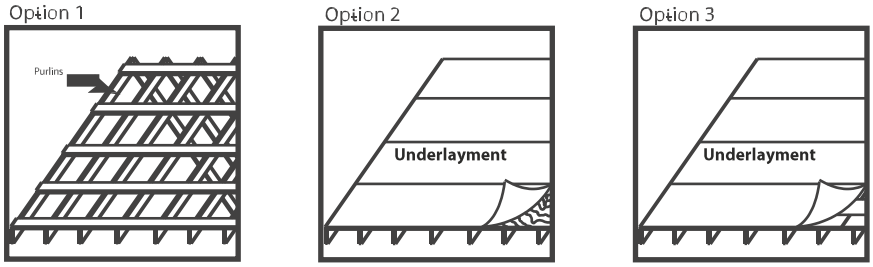
Slopes of less than 2.5" on 12" are not recommended. For slopes of 2.5" on 12" or greater, end lap panels 6". Side laps should face away from the prevailing wind. Lay the first sheet along the eave at the down-wind side of the roof, farthest away from the direction of the prevailing winds (See Figure #4). Install sheets in the sequence shown in Figure #4.

Figure #4



Maximum Purlin Spacing for Roof 2' on Center

Figure #5 - Installation Options



Install Metal Directly to Wood Frame
- Use Maximum 2' Purlin Spacing
- Install Metal

*NOT RECOMMENDED FOR HEATED SPACES UNLESS INSULATION AND VAPOR BARRIER PROTECTION IS USED

Install Metal on Solid Deck
- Lay Plywood Deck
- Apply Synthetic Underlayment or other Vapor Barrier Protection
- Install Metal

Install Metal Over Existing Shingles
- Apply Synthetic Underlayment or other Vapor Barrier Protection
- Install Metal

*** Proper ventilation and vapor barrier protection recommended for heated spaces**

Allow an overhang a minimum of 1" at the eave to provide for a drip edge. Use inside closure at eave to prevent water infiltration, insect or bird infestation at openings. To protect against uplifting winds and to provide a finished appearance, apply gable trim. Apply fasteners every 6"-10". Optionally apply butyl tape as shown in Figure #6 along the top of lap ribs. Do not block the siphon channel with the tape. Also an option: apply a 3/4" or 7/8" lap stitch screw into the crown of the rib to secure the side lap. This is especially a good idea on roofs with a slope less than 4:12.

Figure #6 - Proper Application of Side Lap Butyl Tape

Allowable Uniform Loads Per Square Foot

	LIVE LOAD (PSF)						WIND LOAD (PSF)					
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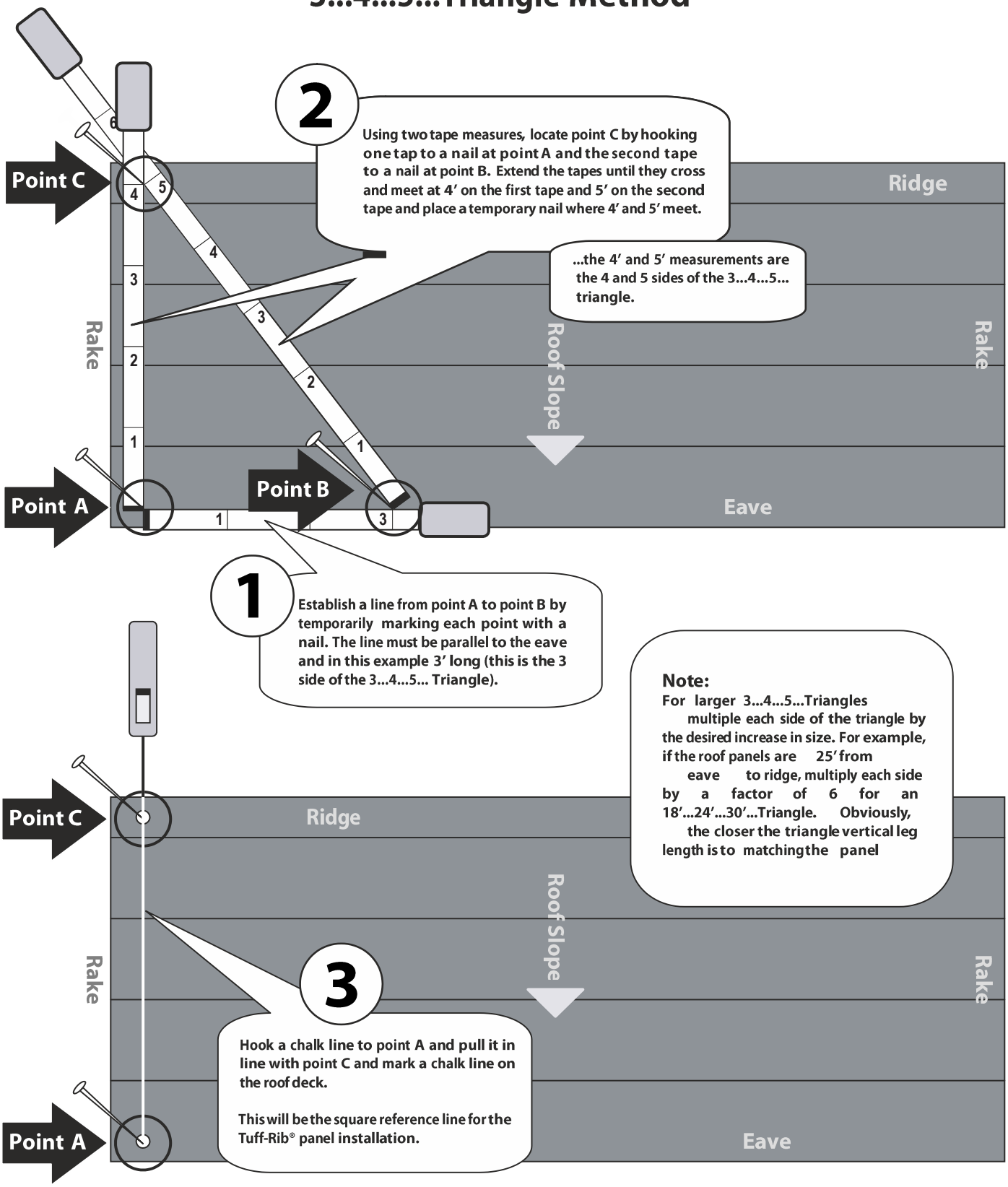
3...4...5...Triangle Method



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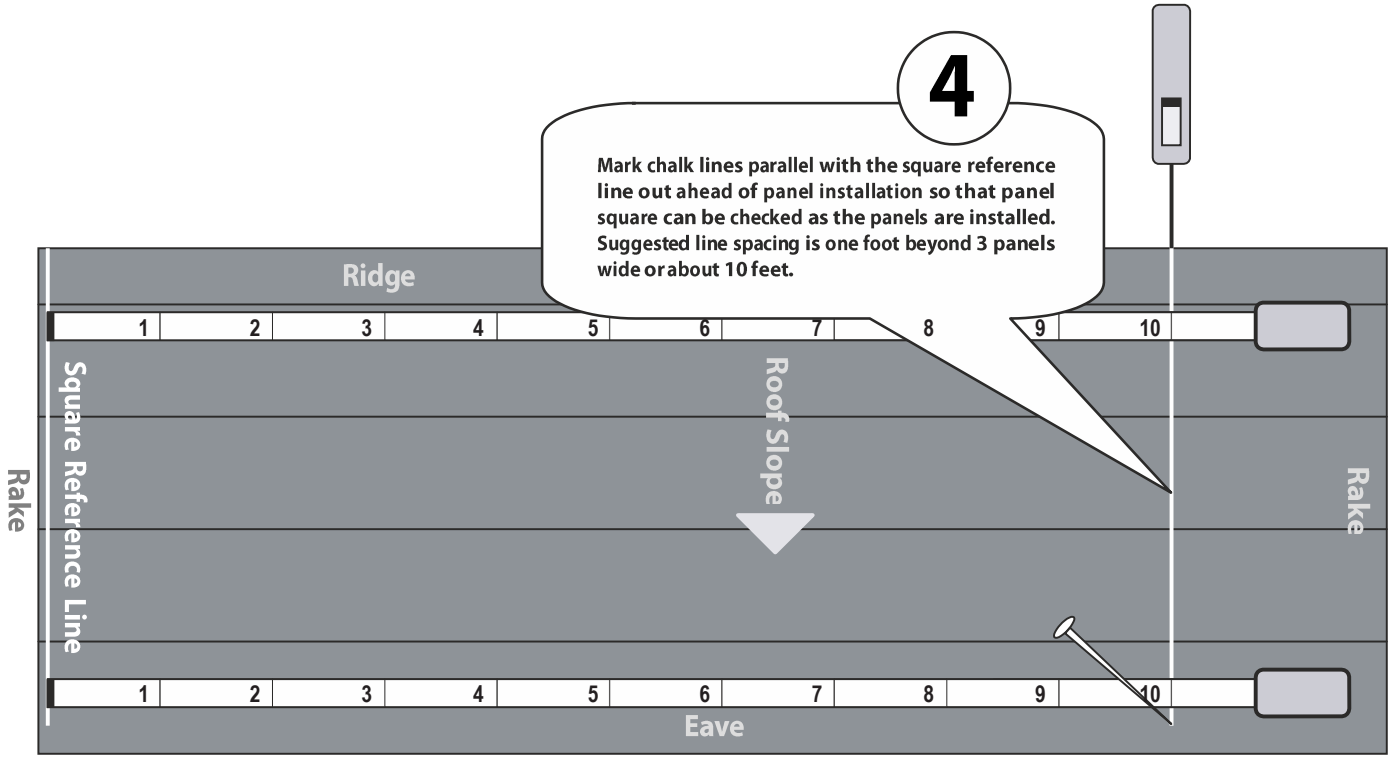
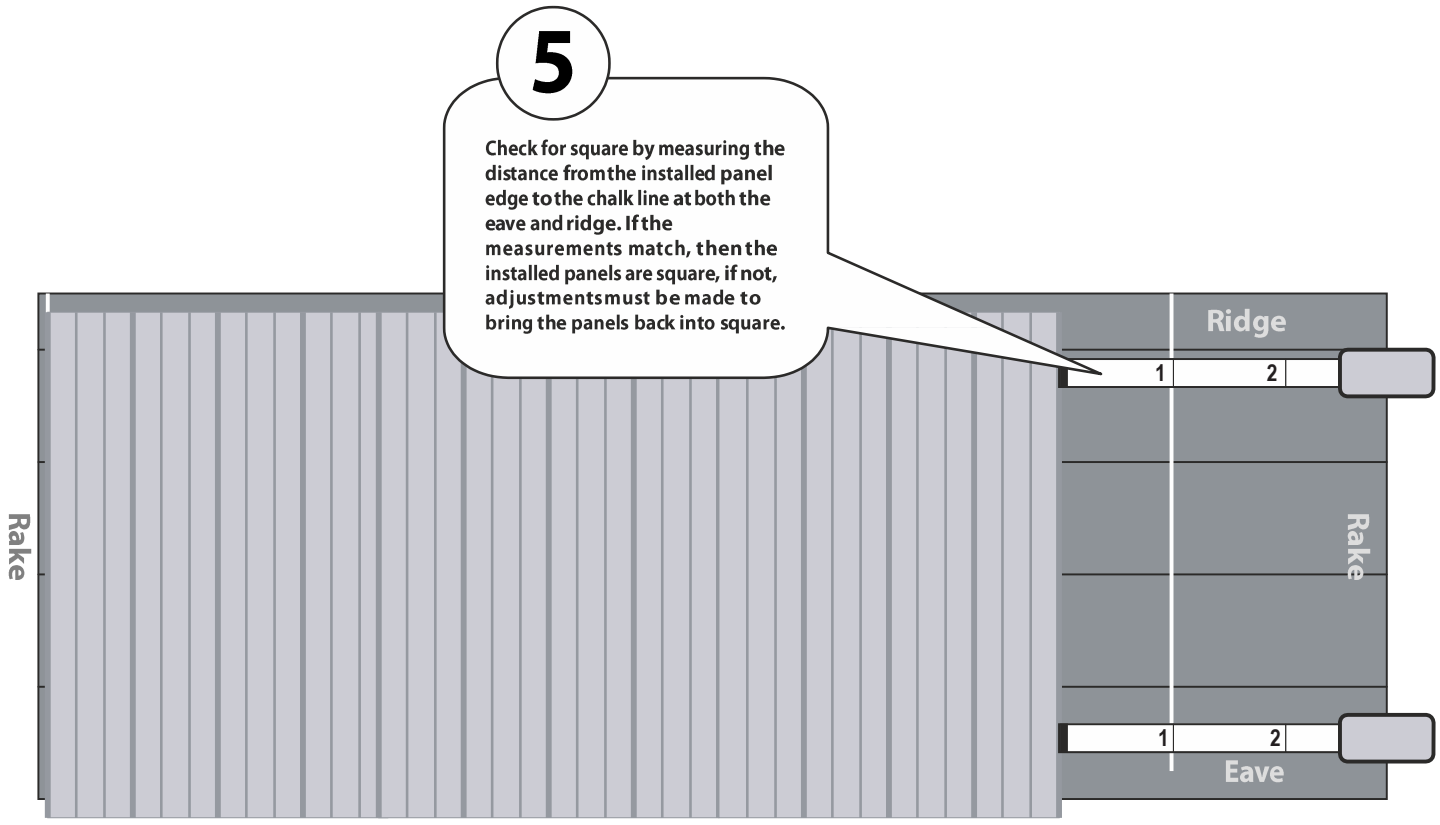
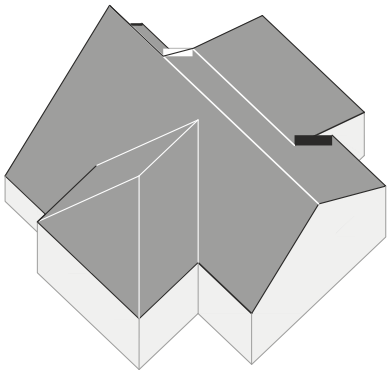
3...4...5...Triangle Method





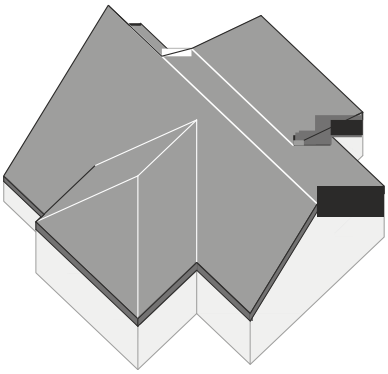
Installation Sequence

The following is an example of a typical sequence for the installation of Tuff-Rib® panels and trims and is specific to the roof plan and conditions illustrated. The actual sequence may vary based on the specific roof plan and applicable conditions.



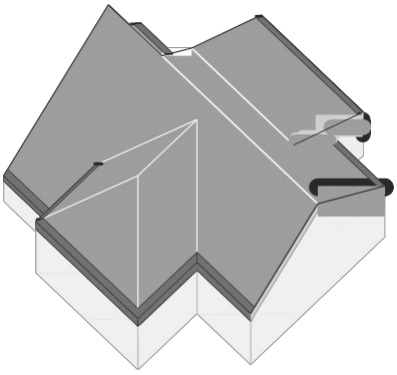
1. Moisture Barrier

Install the Moisture Barrier per the manufacturer's



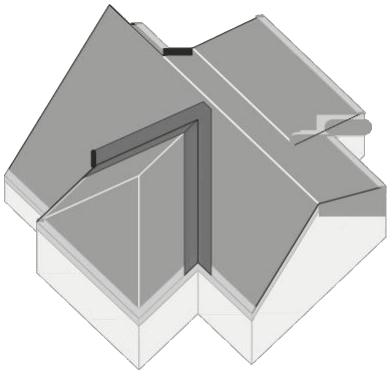
2. Fascia Trim (optional)

Install the Fascia Trim along all eaves and rakes.



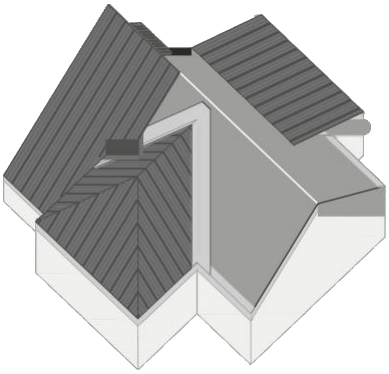
3. Eave Trim

Install the Eave Trim along all eaves lapping over the Fascia Trim.



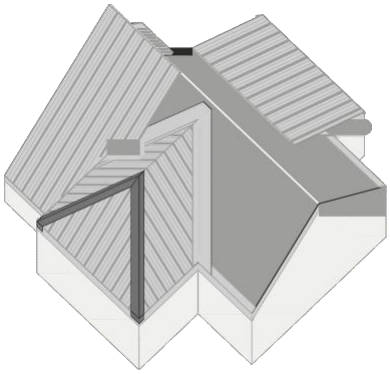
4. Valley Trim

Install the Valley Trim over the Eave Trim working from the eave to the valley peak.



5. Tuff-Rib® Panels

Install the panels over the Eave and Valley Trims. Do not install panels where the Ridge Trim laps under the panels.



6. Hip Trim

Install the Hip Trim over the panels.

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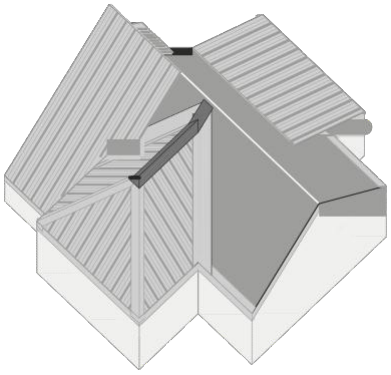
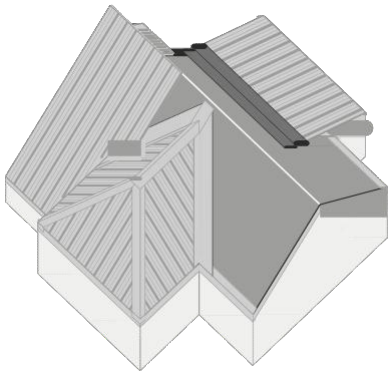
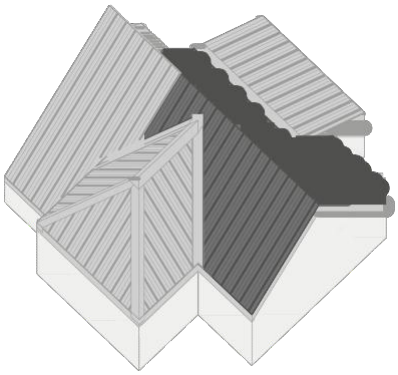
Installation Sequence



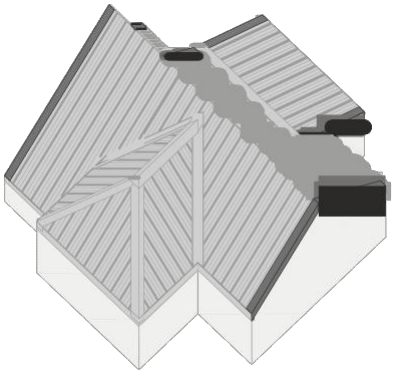
7. Ridge Trim
Install the Ridge Trim over the Hip Trim intersection and valley peak.



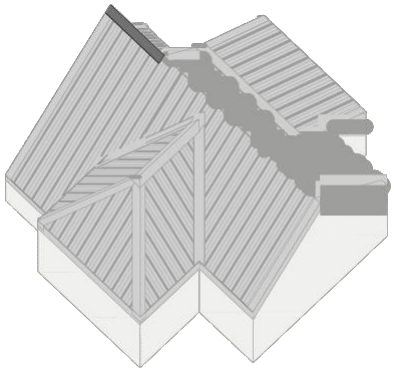
8. Transition Trim
Install the Transition Trim over the low slope panels and moisture barrier.



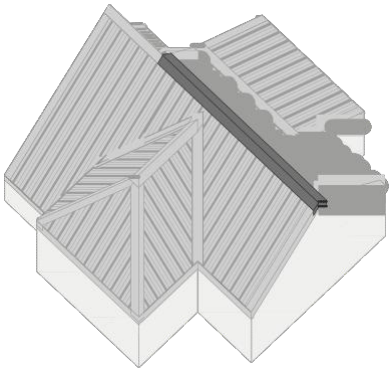
9. Tuff-Rib® Panels
Complete the panel installation installing the high slop panels over the Trim Transition and the other remaining exposed locations.



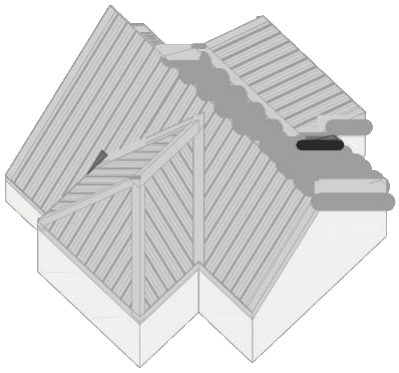
10. Gable / Rake Trim
Install the Rake Trim over the panels along all rake (gable) edges.



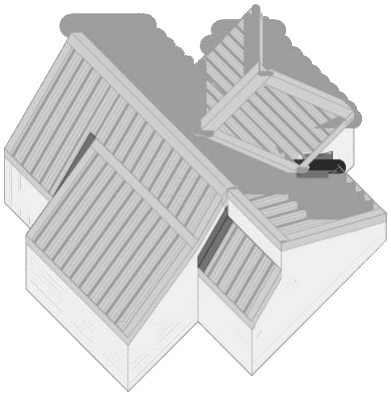
11. High Side Peak Trim
Install the High Side Peak Trim over the panels.



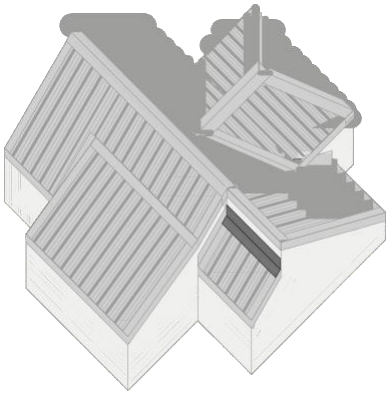
12. Ridge Trim
Install the Ridge Trim over the panels.



13. Side Wall Trim
Install the Side Wall Trim over the panels.



14. Side Wall Trim (Rear View)
Install the Side Wall Trim over the panels.



15. End Wall Trim
Install the End Wall Trim over the panels.

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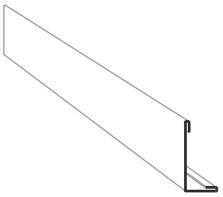
Fascia

Numbers indicate suggested trim assembly sequence.



Roof Substrate — 1

Install the roof substrate according to local building code requirements.

Moisture Barrier — 2

Install moisture barrier according to the manufacture's recommended procedure and in compliance with local building code requirements.

Fascia Trim — 3

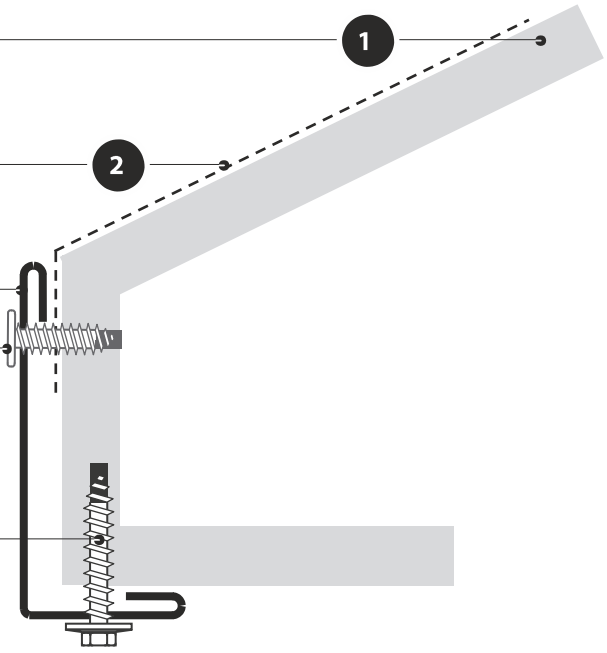
Install the Fascia trim and butt ends.

Trim Pancake Screw — 4

Fasten trim with Pancake Screws 2' apart along the length of the trim.

Trim Wood Screw — 5

Fasten trim withWood Screws spaced 2' apart along the length of the trim.



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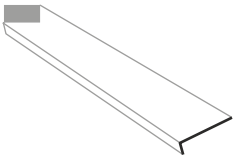
Mini Eave

Numbers indicate suggested trim assembly sequence.



Moisture Barrier — 2

Install moisture barrier according to the manufacture's recommended procedure and in compliance with local building code requirements.

Trim Pancake Screw — 4

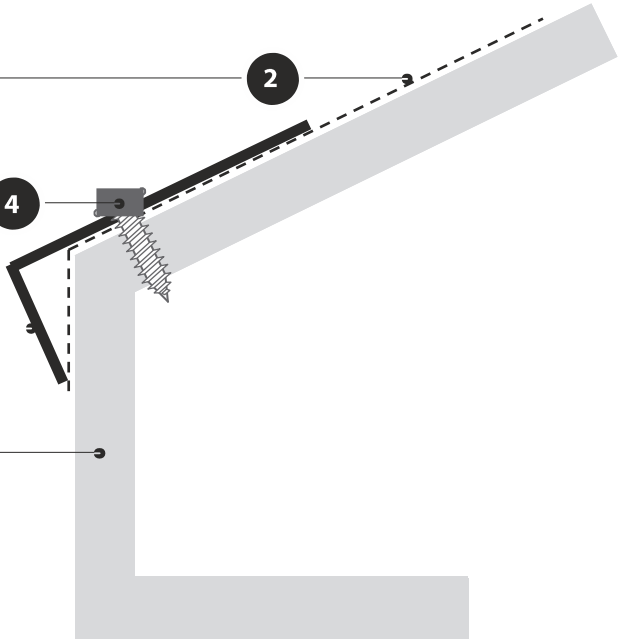
Fasten trim with Pancake Screws spaced 2' apart along the lenght of the trim.

Mini Style Eave · 3

Install theMini Style Eave and butt ends.

Roof Substrate — 1

Install the roof substrate according to local building code requirements.



Panel Wood Screw — 7

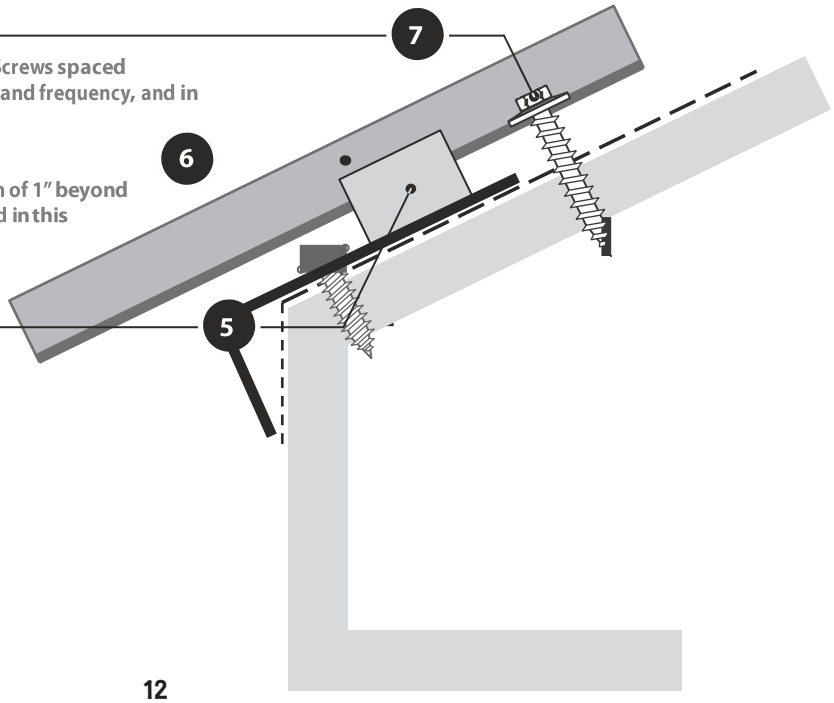
Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

Tuff-Rib® Panel · 6

Install the panel and overhang the panel a minimum of 1" beyond the Mini Eave trim edge. See panel squaring method in this manual.

Inside Closure — 5

Place the Inside Closure over the top of the Mini Eave or underlayment.



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Eave Trim

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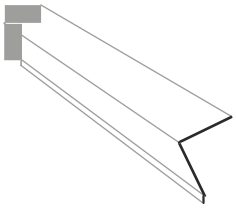


Moisture Barrier — 2

Install moisture barrier according to the manufacture's recommended procedure and in compliance with local building code requirements.

Trim Pancake Screw — 4

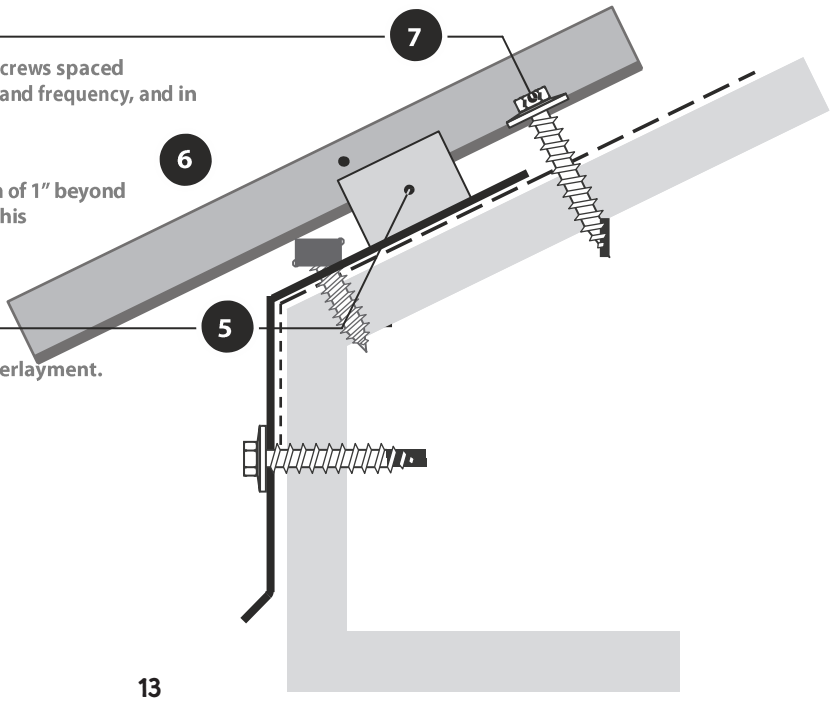
Fasten trim with Pancake Screws spaced 2' apart along the length of the trim.

Eave Trim — 3

Install the Eave Trim and butt ends.

Roof Substrate — 1

Install the roof substrate according to local building code requirements.



Panel Wood Screw — 7

Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

Tuff-Rib® Panel — 6

Install the panel and overhang the panel a minimum of 1" beyond the Eave Trim edge. See panel squaring method in this manual.

Inside Closure — 5

Place the Inside Closure down over the eave or underlayment.

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Rake / Gable

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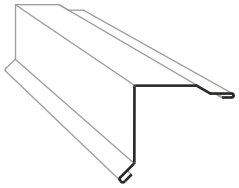


Tape Sealant
Apply Butyl Tape along the length of the panel.

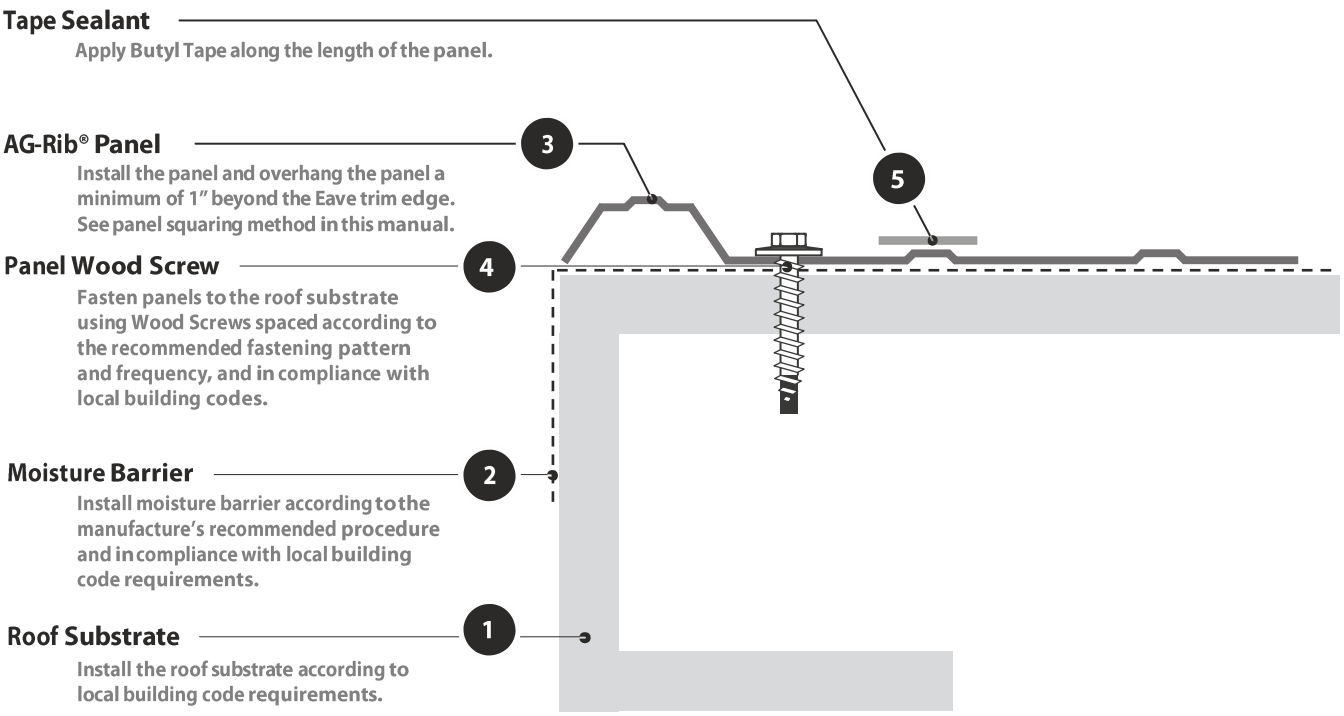
AG-Rib® Panel — 3
Install the panel and overhang the panel a minimum of 1" beyond the Eave trim edge. See panel squaring method in this manual.

Panel Wood Screw — 4
Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

Moisture Barrier — 2
Install moisture barrier according to the manufacture's recommended procedure and in compliance with local building code requirements.

Roof Substrate — 1
Install the roof substrate according to local building code requirements.

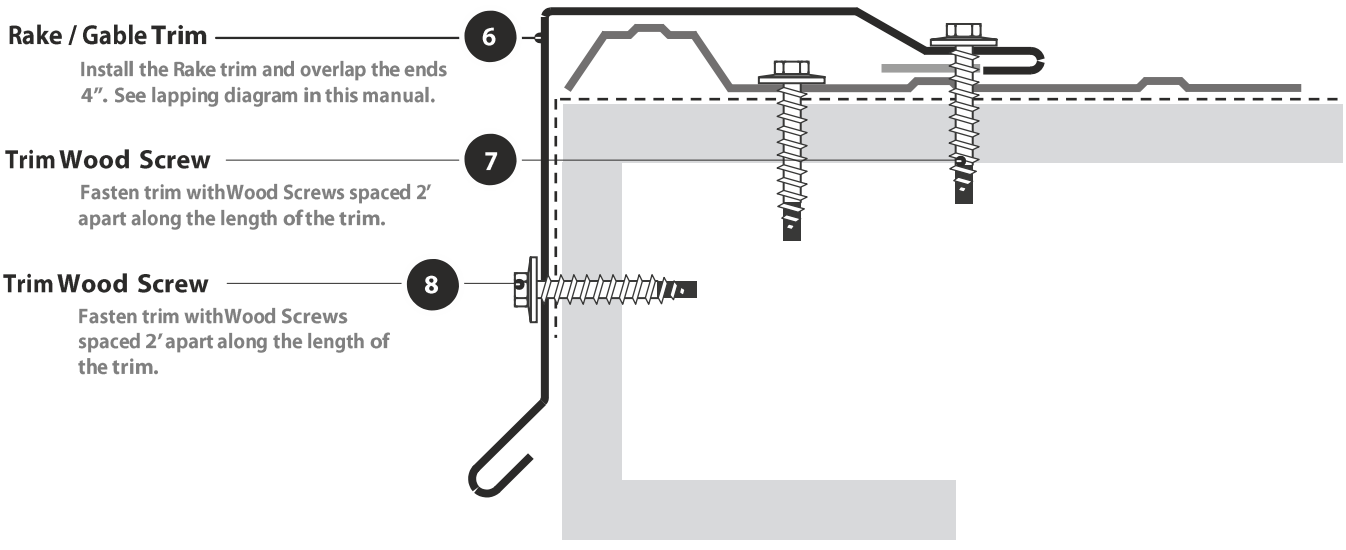
5



Rake / Gable Trim — 6
Install the Rake trim and overlap the ends 4". See lapping diagram in this manual.

Trim Wood Screw — 7
Fasten trim with Wood Screws spaced 2' apart along the length of the trim.

Trim Wood Screw — 8
Fasten trim with Wood Screws spaced 2' apart along the length of the trim.



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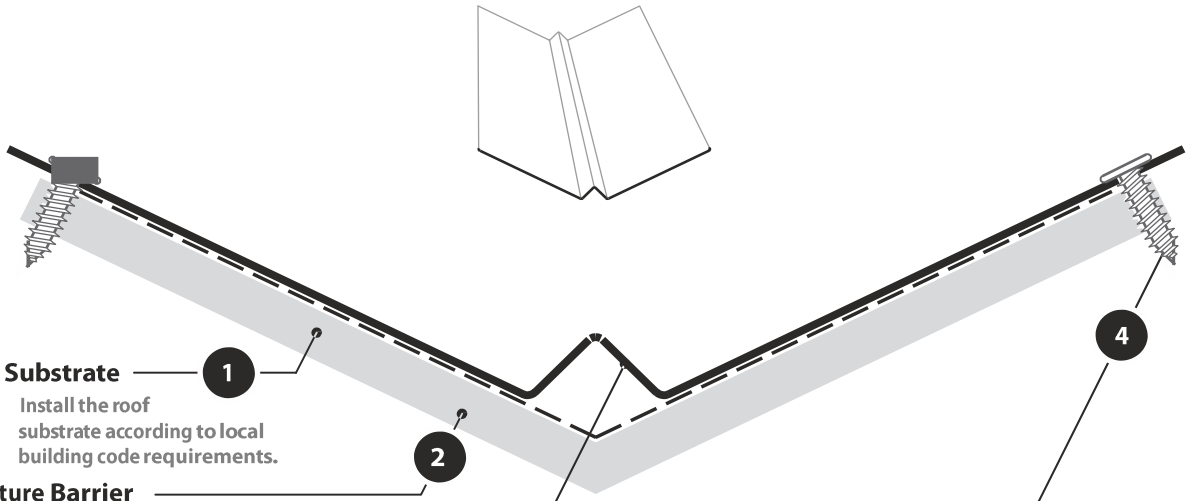
Preformed Valley

Numbers indicate suggested trim assembly sequence.



Roof Substrate — 1

Install the roof substrate according to local building code requirements.

Moisture Barrier — 2

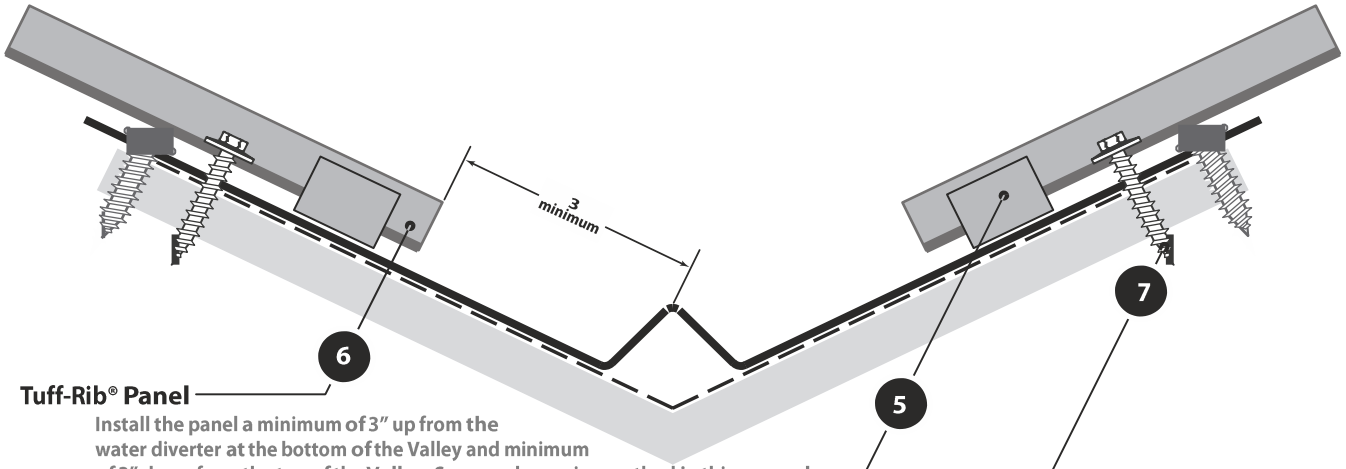
Install moisture barrier according to the manufacture's recommended procedure and in compliance with local building code requirements.

Preformed Valley Trim — 3

Install the Valley trim and overlap the ends 4". See lapping diagram in this manual.

Trim Pancake Screw — 4

Fasten trim with Pancake Screws spaced 2' apart along the length of the trim. See lapping diagram fastener pattern in this manual.



Tuff-Rib® Panel — 6

Install the panel a minimum of 3" up from the water diverter at the bottom of the Valley and minimum of 3" down from the top of the Valley. See panel squaring method in this manual.

Expanding Closure — 5

Place Expanding Closure parallel to each side of the Valley center water diverter. Closure should be up from the panel end about 1". See panel minimum set back above.

Panel Wood Screw — 7

Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

Notes:

1. See Valley Lapping - Page 25
2. See Valley Cutting - Page 26

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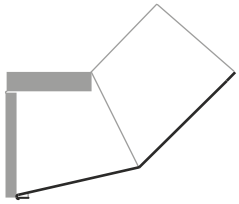
Transition / Pitch Break

Numbers indicate suggested trim assembly sequence.



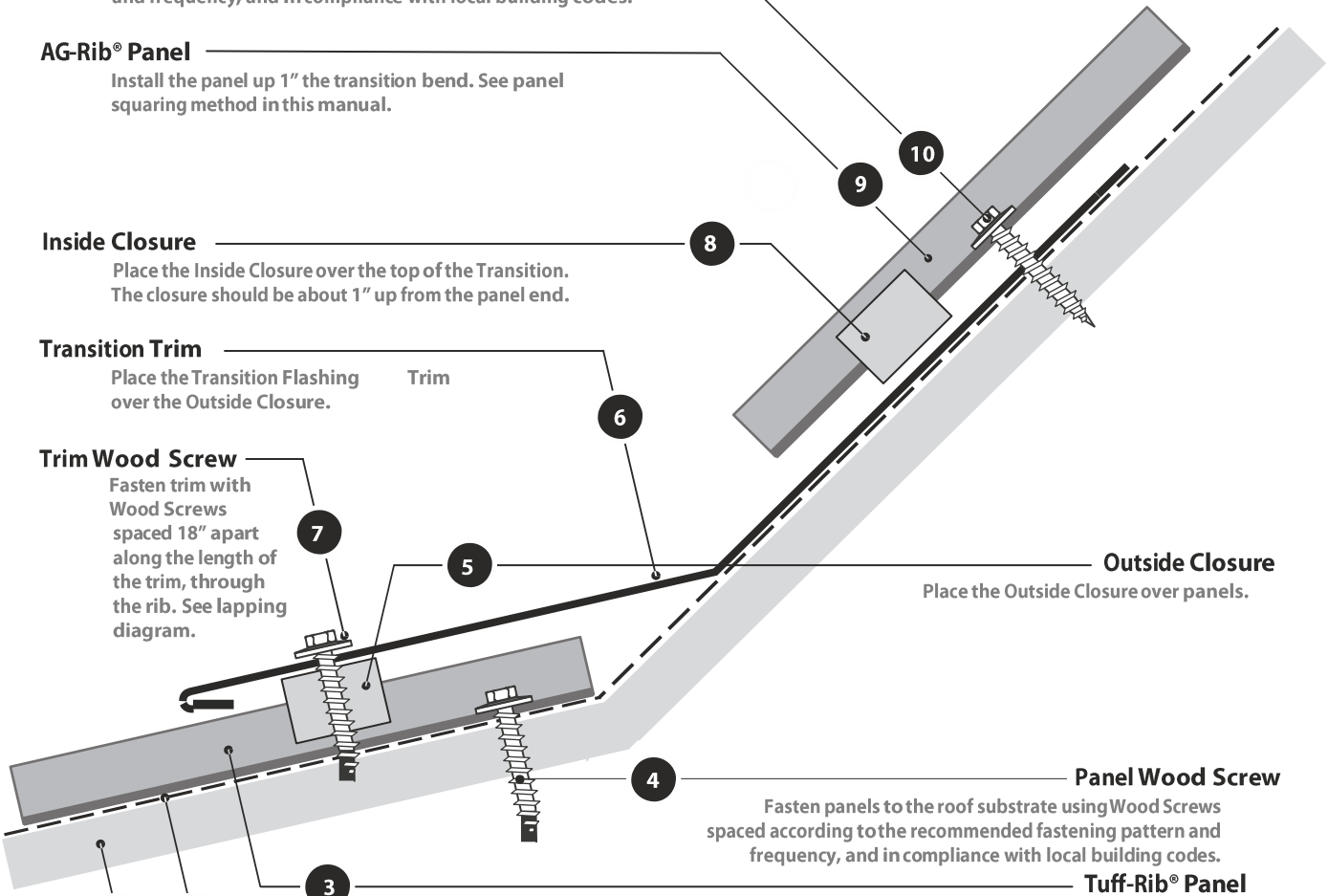
Panel Wood Screw
Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

AG-Rib® Panel
Install the panel up 1" the transition bend. See panel squaring method in this manual.

Inside Closure
Place the Inside Closure over the top of the Transition. The closure should be about 1" up from the panel end.

Transition Trim
Place the Transition Flashing Trim over the Outside Closure.

Trim Wood Screw
Fasten trim with Wood Screws spaced 18" apart along the length of the trim, through the rib. See lapping diagram.



Outside Closure
Place the Outside Closure over panels.

Panel Wood Screw
Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

Tuff-Rib® Panel
Install the panel and overhang the panel a minimum of 1" beyond the eave edge. See panel squaring method in this manual.

Moisture Barrier
Install moisture barrier according to the manufacture's recommended procedure and in compliance with local building code requirements.

Roof Substrate
Install the roof substrate according to local building code requirements.

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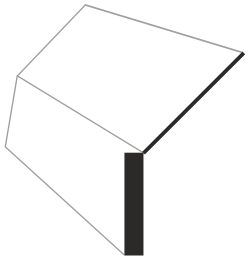
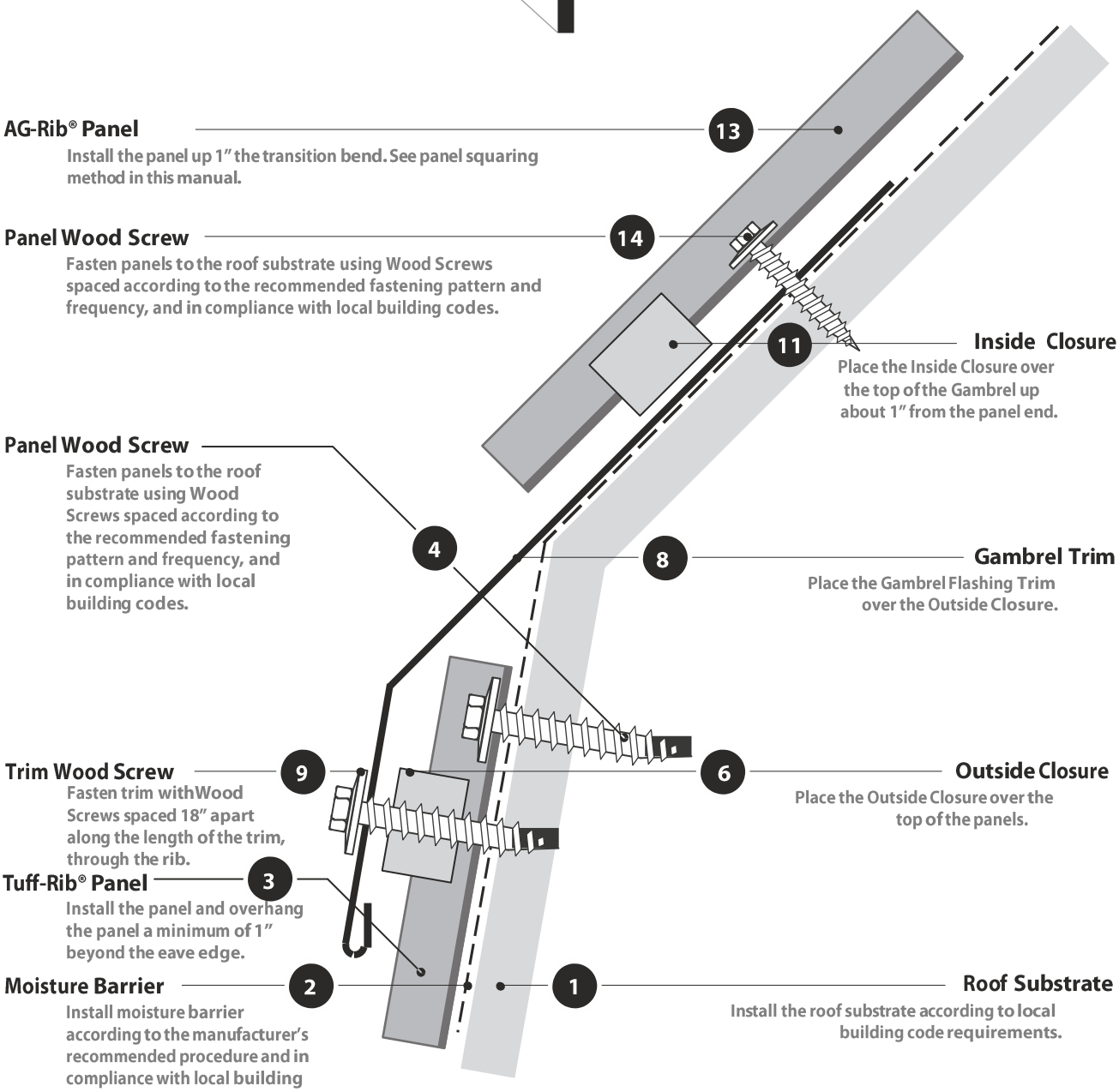
Gambrel

Numbers indicate suggested trim assembly sequence.





AG-Rib® Panel — 13
Install the panel up 1" the transition bend. See panel squaring method in this manual.

Panel Wood Screw — 14
Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

Inside Closure — 11
Place the Inside Closure over the top of the Gambrel up about 1" from the panel end.

Panel Wood Screw — 4
Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

Gambrel Trim — 8
Place the Gambrel Flashing Trim over the Outside Closure.

Trim Wood Screw — 9
Fasten trim with Wood Screws spaced 18" apart along the length of the trim, through the rib.

Outside Closure — 6
Place the Outside Closure over the top of the panels.

Tuff-Rib® Panel — 3
Install the panel and overhang the panel a minimum of 1" beyond the eave edge.

Moisture Barrier — 2
Install moisture barrier according to the manufacturer's recommended procedure and in compliance with local building code requirements.

Roof Substrate — 1
Install the roof substrate according to local building code requirements.

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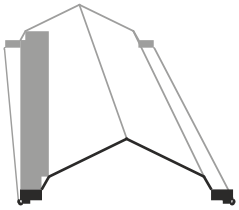
Hip

Numbers indicate suggested trim assembly sequence.



Panel Wood Screw

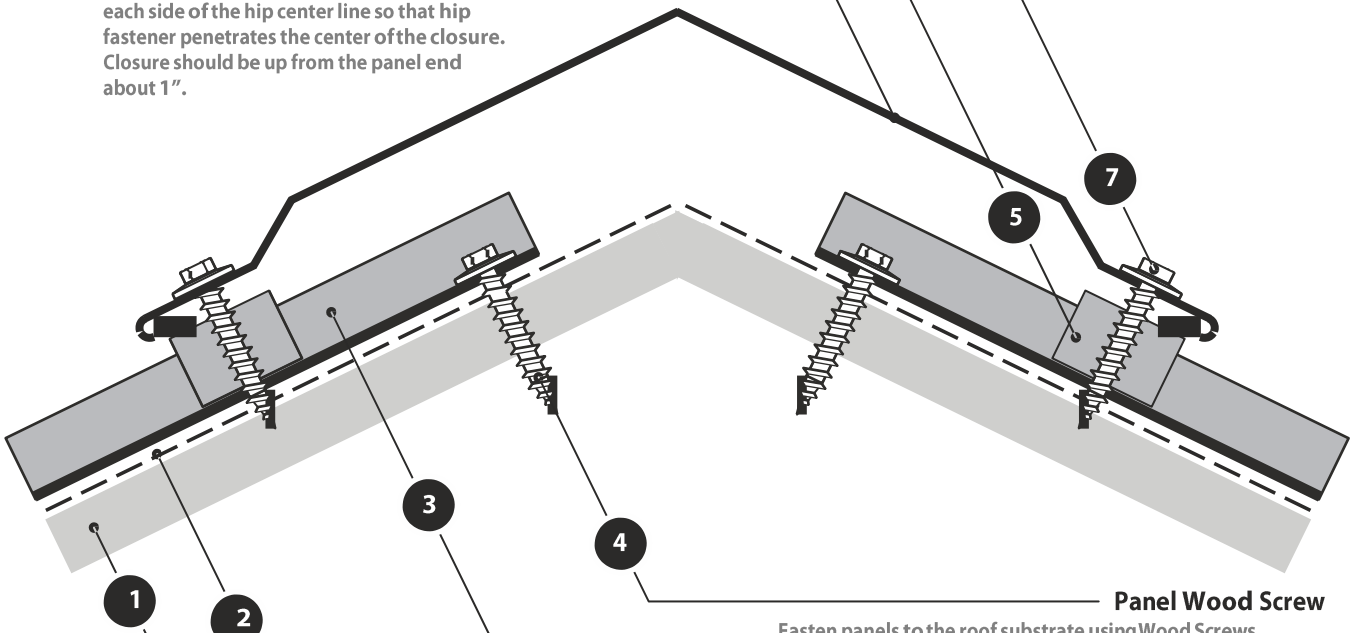
Fasten trim withWood Screws spaced 18" apart along the length ofthe trim, through the rib. See lapping diagram fastener pattern inthis manual.

Hip Trim

Place the Hip Trim over the Expanding Closure

Expanding Closure

Place Expanding closure parallel to each side of the hip center line so that hip fastener penetrates the center ofthe closure. Closure should be up from the panel end about 1".



Panel Wood Screw

Fasten panels to the roof substrate usingWood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

Tuff-Rib® Panel

Install the panel and overhang the panel a minimum of 1" beyond the eave edge. See panel squaring method in this manual.

Moisture Barrier

Install moisture barrier according to the manufacture's recommended procedure and in compliance with local building code requirements.

Roof Substrate

Install the roof substrate according to local building code requirements.

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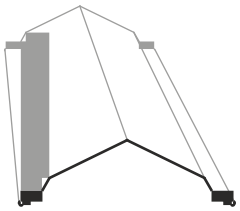
Ridge

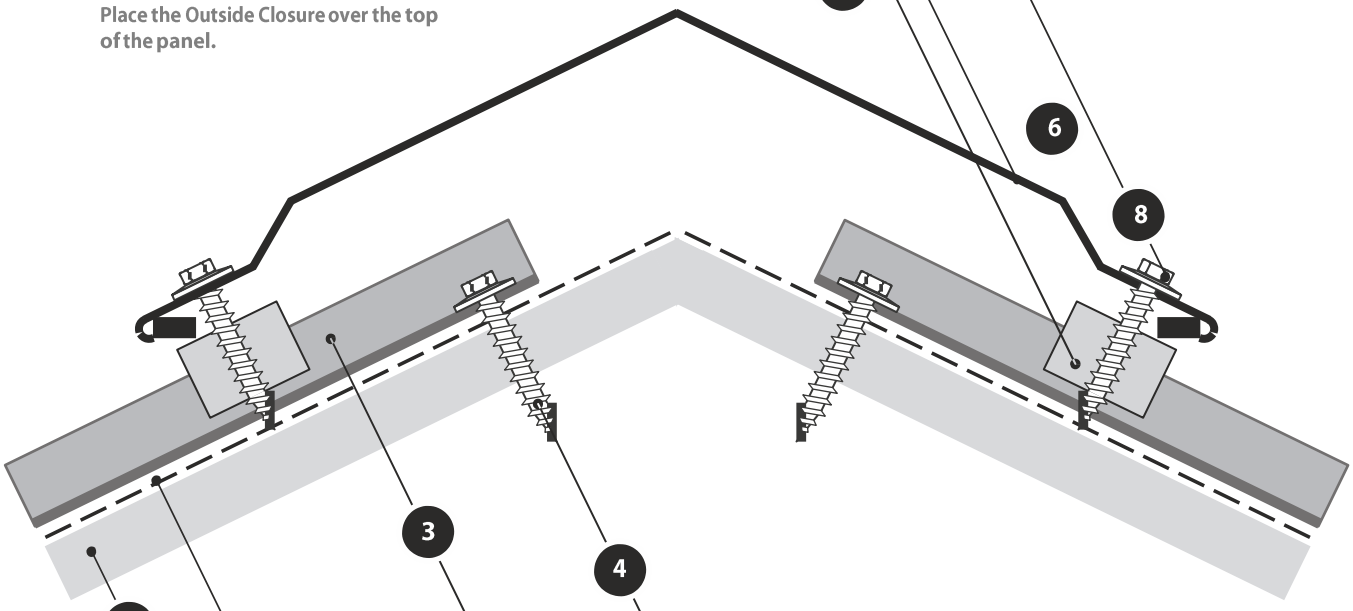
Numbers indicate suggested trim assembly sequence.



Trim Wood Screw
Fasten trim with Wood Screws spaced 18" apart along the length of the trim, through the rib. See lapping diagram.

Ridge Trim — 7
Place the Ridge Trim over the Outside Closure.

Outside Closure — 5
Place the Outside Closure over the top of the panel.



Panel Wood Screw
Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

Tuff-Rib® Panel
Install the panel and overhang the panel a minimum of 1" beyond the eave edge. See panel squaring method in this manual.

Moisture Barrier
Install moisture barrier according to the manufacture's recommended procedure and in compliance with local building code requirements.

Roof Substrate
Install the roof substrate according to local building code requirements.

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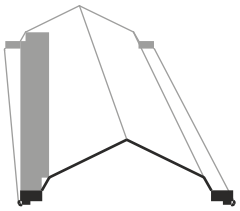
Vented Ridge

Numbers indicate suggested trim assembly sequence.



Trim Wood Screw

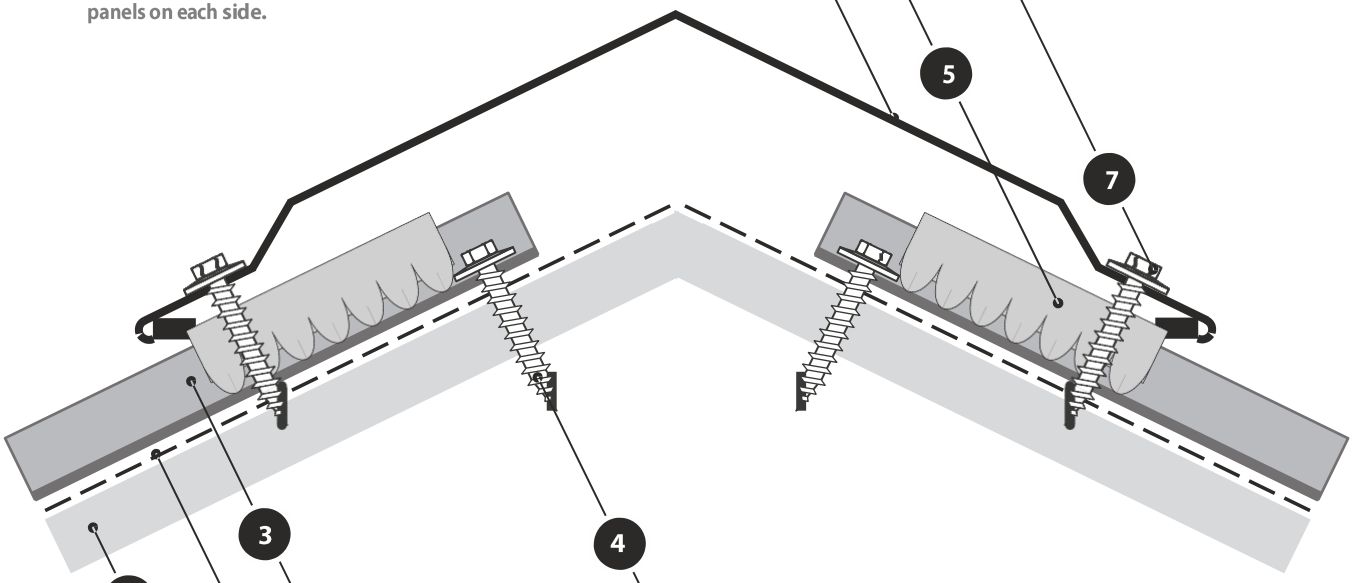
Fasten trim withWood Screws spaced 18" apart along the length of the trim, through the rib. See lapping diagram fastener pattern in this manual.

Ridge Trim

Place the Ridge Trim over the Profile Vent.

Vent Material

Apply the Profile Vent ridge venting material over the panels on each side.



Panel Wood Screw

Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

AG-Rib® Panel

Install the panel and overhang the panel a minimum of 1" beyond the eave edge. See panel squaring method in this manual.

Moisture Barrier

Install moisture barrier according to the manufacture's recommended procedure and in compliance with local building code requirements.

Roof Substrate

Install the roof substrate according to local building code requirements.

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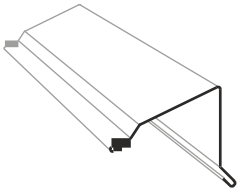
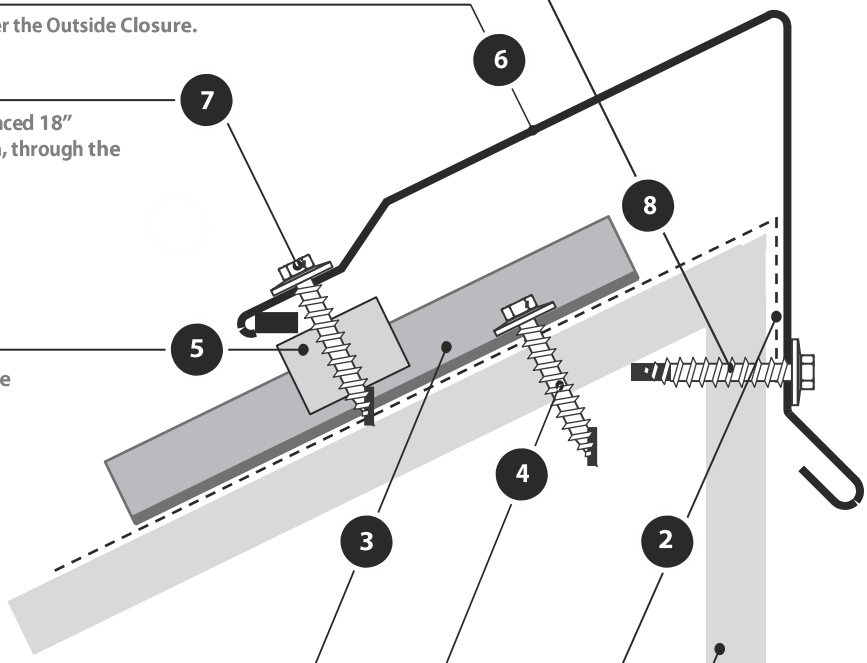
High Side Peak

Numbers indicate suggested trim assembly sequence.





Trim Wood Screw
Fasten trim with Wood Screws spaced 2′ apart along the length of the trim. See lapping diagram.

High Side Peak Trim
Place the High Side Peak Trim over the Outside Closure.

Trim Wood Screw
Fasten trim with Wood Screws spaced 18″ apart along the length of the trim, through the rib. See lapping diagram.

Outside Closure
Place the Outside Closure over the panels.

Panel Wood Screw
Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

AG-Rib® Panel
Install the panel and overhang the panel a minimum of 1″ beyond the eave edge. See panel squaring method in this manual.

Moisture Barrier
Install moisture barrier according to the manufacturer's recommended procedure and in compliance with local building code requirements.

Roof Substrate
Install the roof substrate according to local building code requirements.

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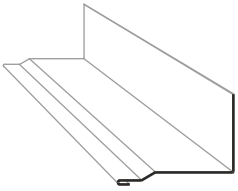
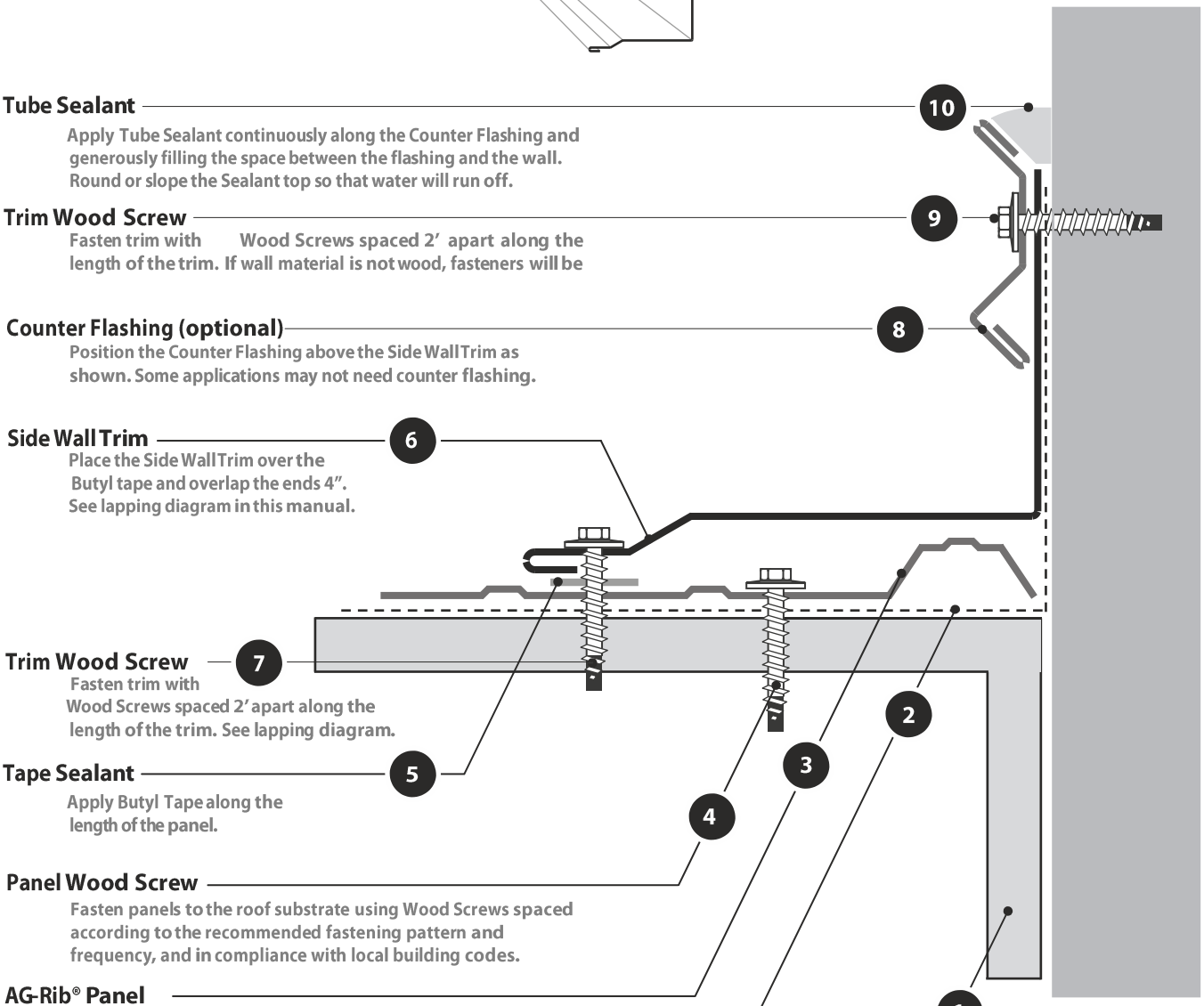
Side Wall

Numbers indicate suggested trim assembly sequence.





Tube Sealant — 10
Apply Tube Sealant continuously along the Counter Flashing and generously filling the space between the flashing and the wall. Round or slope the Sealant top so that water will run off.

Trim Wood Screw — 9
Fasten trim with Wood Screws spaced 2' apart along the length of the trim. If wall material is not wood, fasteners will be

Counter Flashing (optional) — 8
Position the Counter Flashing above the Side Wall Trim as shown. Some applications may not need counter flashing.

Side Wall Trim — 6
Place the Side Wall Trim over the Butyl tape and overlap the ends 4". See lapping diagram in this manual.

Trim Wood Screw — 7
Fasten trim with Wood Screws spaced 2' apart along the length of the trim. See lapping diagram.

Tape Sealant — 5
Apply Butyl Tape along the length of the panel.

Panel Wood Screw — 4
Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

AG-Rib® Panel — 3
Install the panel and overhang the panel a minimum of 1" beyond the eave edge. See panel squaring method in this manual.

Moisture Barrier — 2
Install moisture barrier according to the manufacturer's recommended procedure and in compliance with local building code requirements.

Roof Substrate — 1
Install the roof substrate according to local building code requirements.

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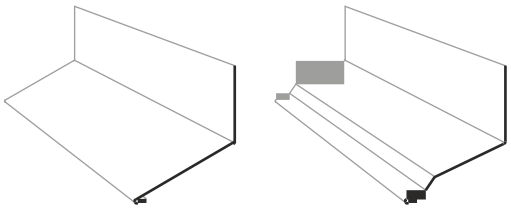
End Wall

Numbers indicate suggested trim assembly sequence.



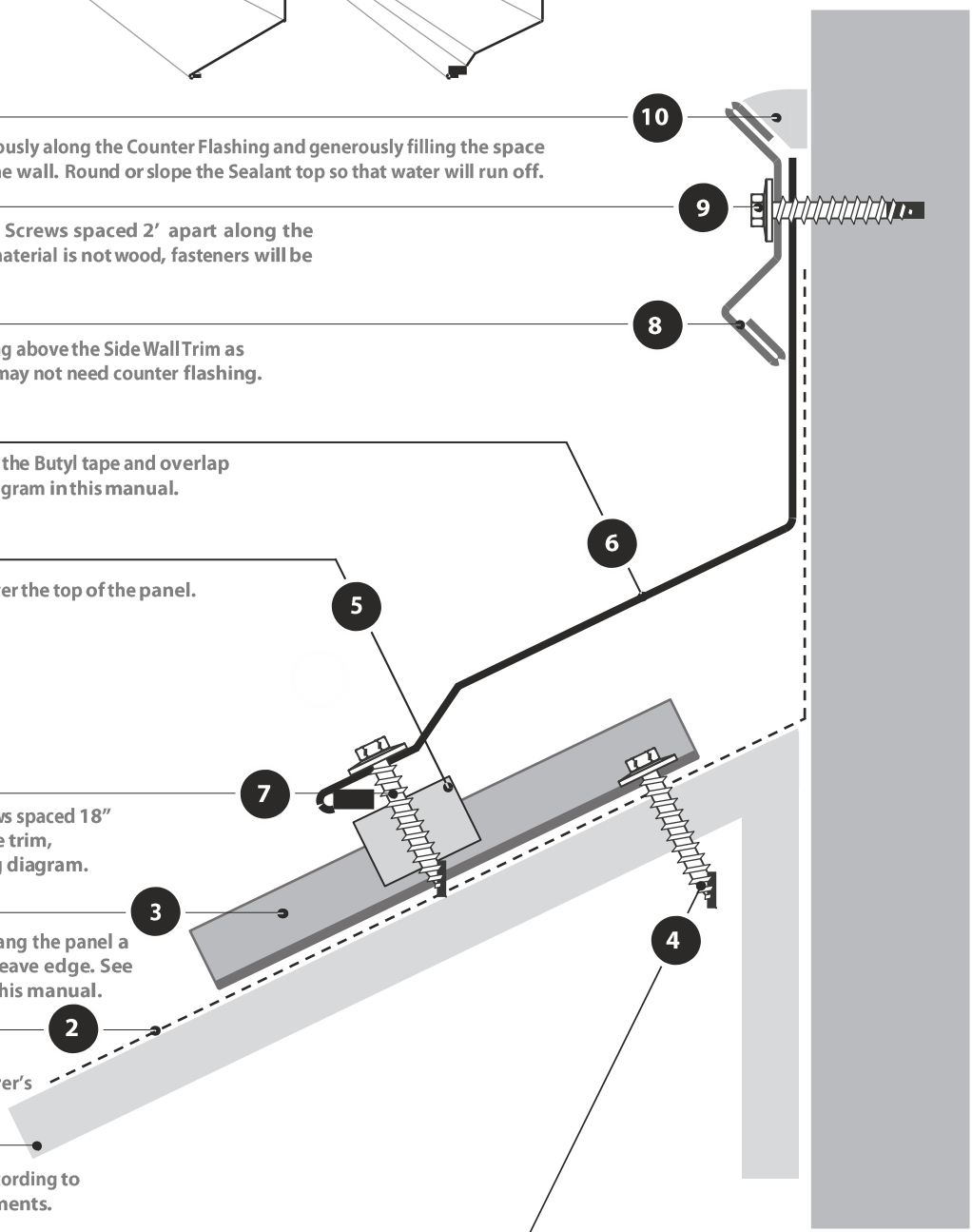
Tube Sealant — 10
Apply Tube Sealant continuously along the Counter Flashing and generously filling the space between the flashing and the wall. Round or slope the Sealant top so that water will run off.

Trim Wood Screw — 9
Fasten trim with Wood Screws spaced 2' apart along the length of the trim. If wall material is not wood, fasteners will be

Counter Flashing — 8
Position the Counter Flashing above the Side Wall Trim as shown. Some applications may not need counter flashing.

Side Wall Trim
Place the End Wall Trim over the Butyl tape and overlap the ends 4". See lapping diagram in this manual.

Outside Closure
Place the Outside Closure over the top of the panel.



Trim Wood Screw — 7
Fasten trim with Wood Screws spaced 18" apart along the length of the trim, through the rib. See lapping diagram.

AG-Rib® Panel — 3
Install the panel and overhang the panel a minimum of 1" beyond the eave edge. See panel squaring method in this manual.

Moisture Barrier — 2
Install moisture barrier according to the manufacturer's recommended procedure.

Roof Substrate — 1
Install the roof substrate according to local building code requirements.

Panel Wood Screw — 4
Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

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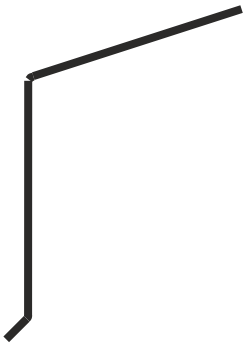
Trims

(Exact trims vary by plant, please call for exact dimensions)

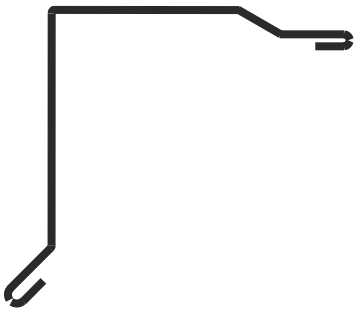
Mini Eave

Eave Trim



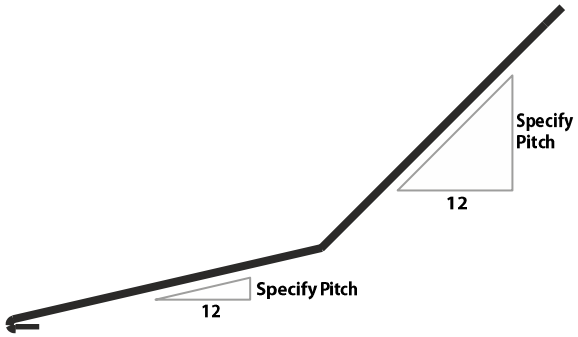
Fascia Trim

Rake / Gable Trim



Valley

Transition Flashing



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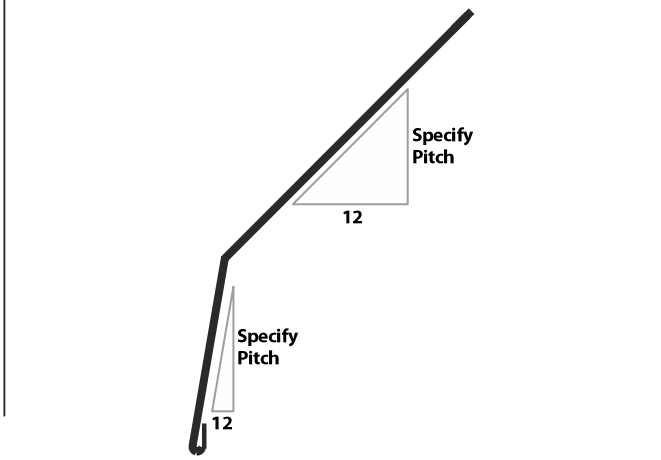
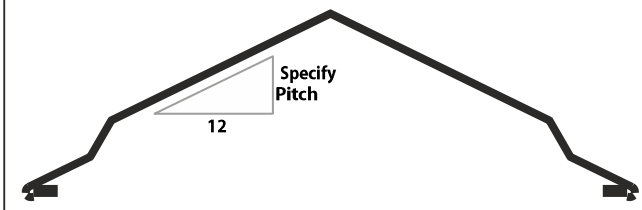
Trims

(Exact trims vary by plant, please call for exact dimensions)

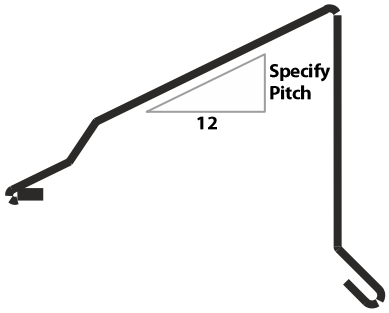
Gambrel Flashing



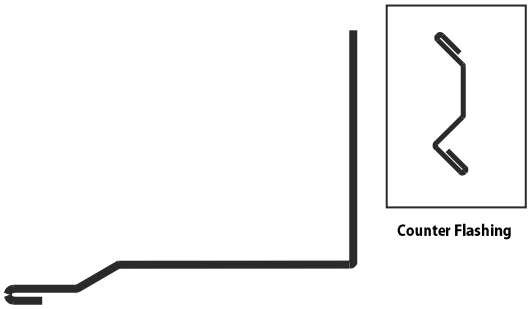
Ridge Cap / Hip Cap



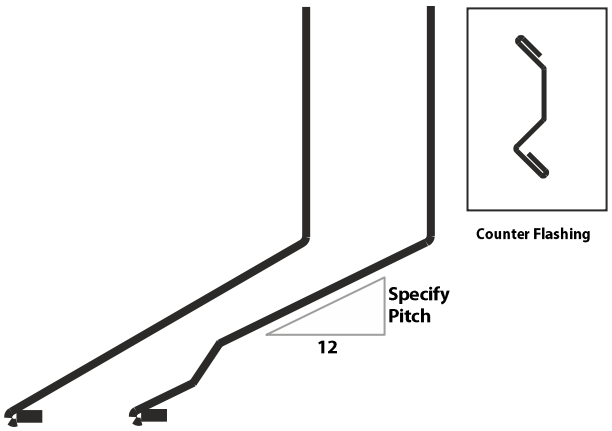
High Side Peak



Side Wall Trim



End Wall Trim



Accessories & Tools

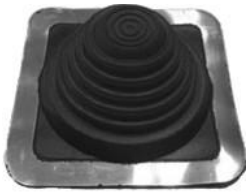
Foam Closures
Fill In Upper And
Lower Panel Ends

Expanding Closures
Expands To Fill Ends
At Hips & Valleys

Profile Ridge Vent
Allows Hot Air To Vent
From Ridges

Fasteners Screws,
Pop Rivets,
Pancake Screws

Tube & Butyl Sealant
To Meet All Your
Sealing Needs



Pipe Boots
Flashes Pipes
Electric Boots Available

TurboShear HD
Shear Attachment
for Power Drill

Long Nose Snips
Great for
Cutting Panels

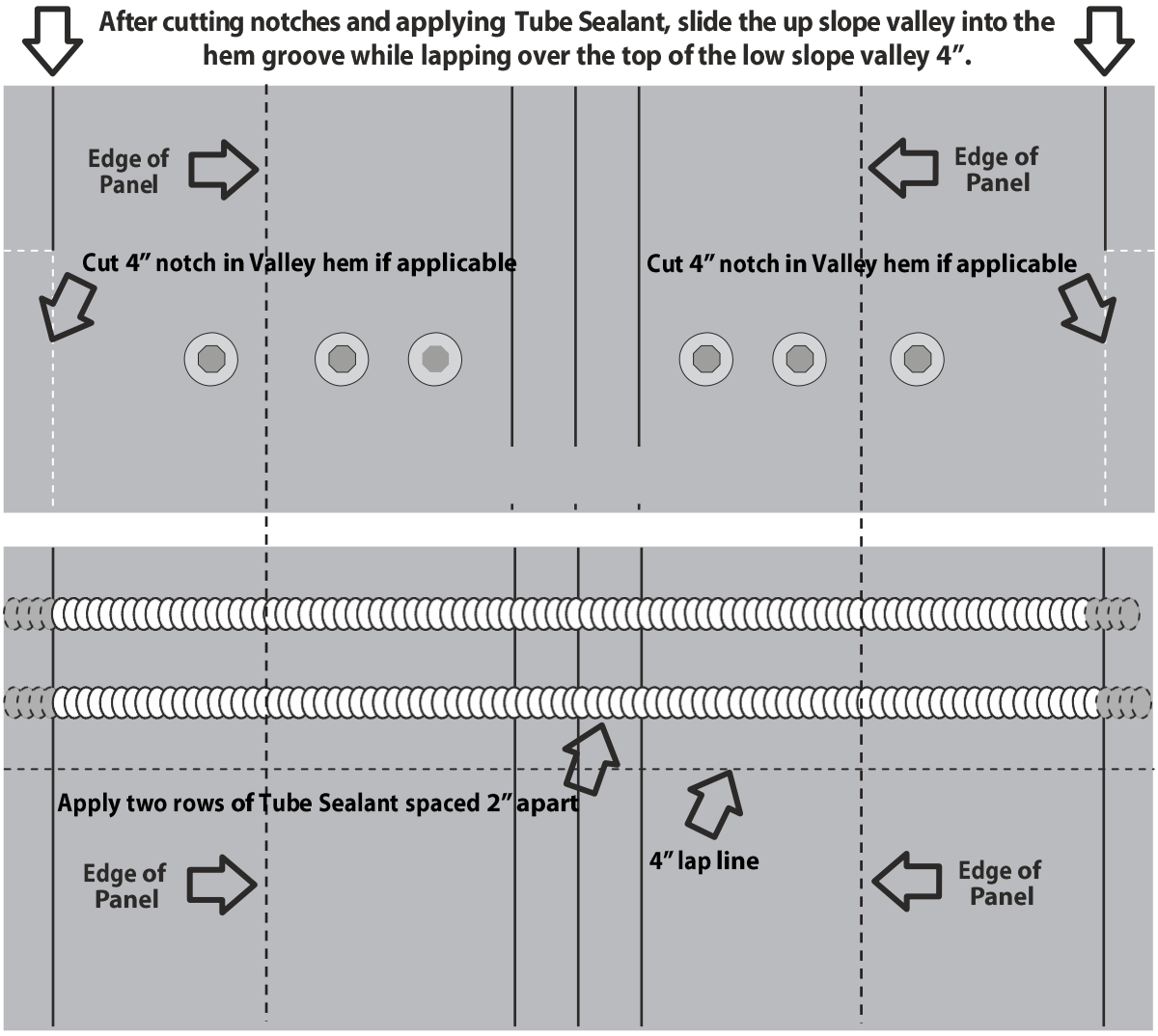
Rubber Coated Gloves
For Protection &
Slip Resistance

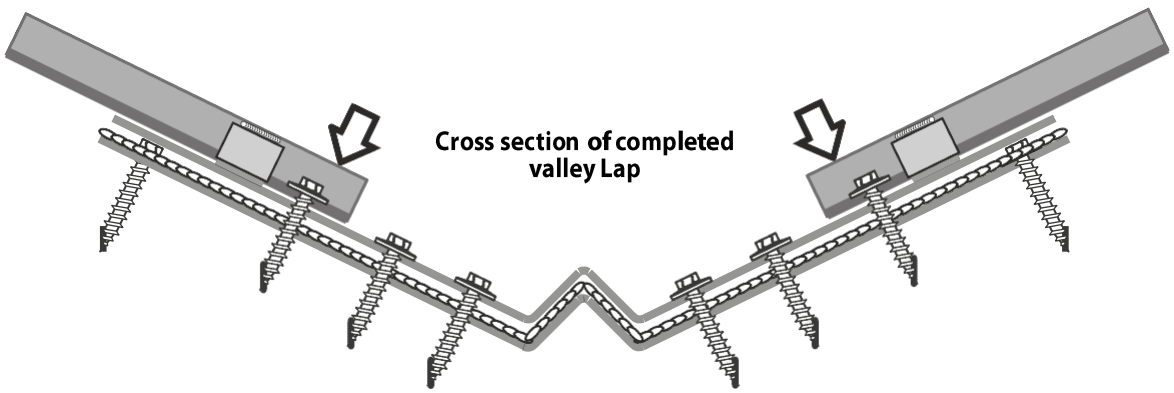
Drivers & Drill Bits

Hemming, Bending,
& Turn Up Tools

Pop Rivet Gun

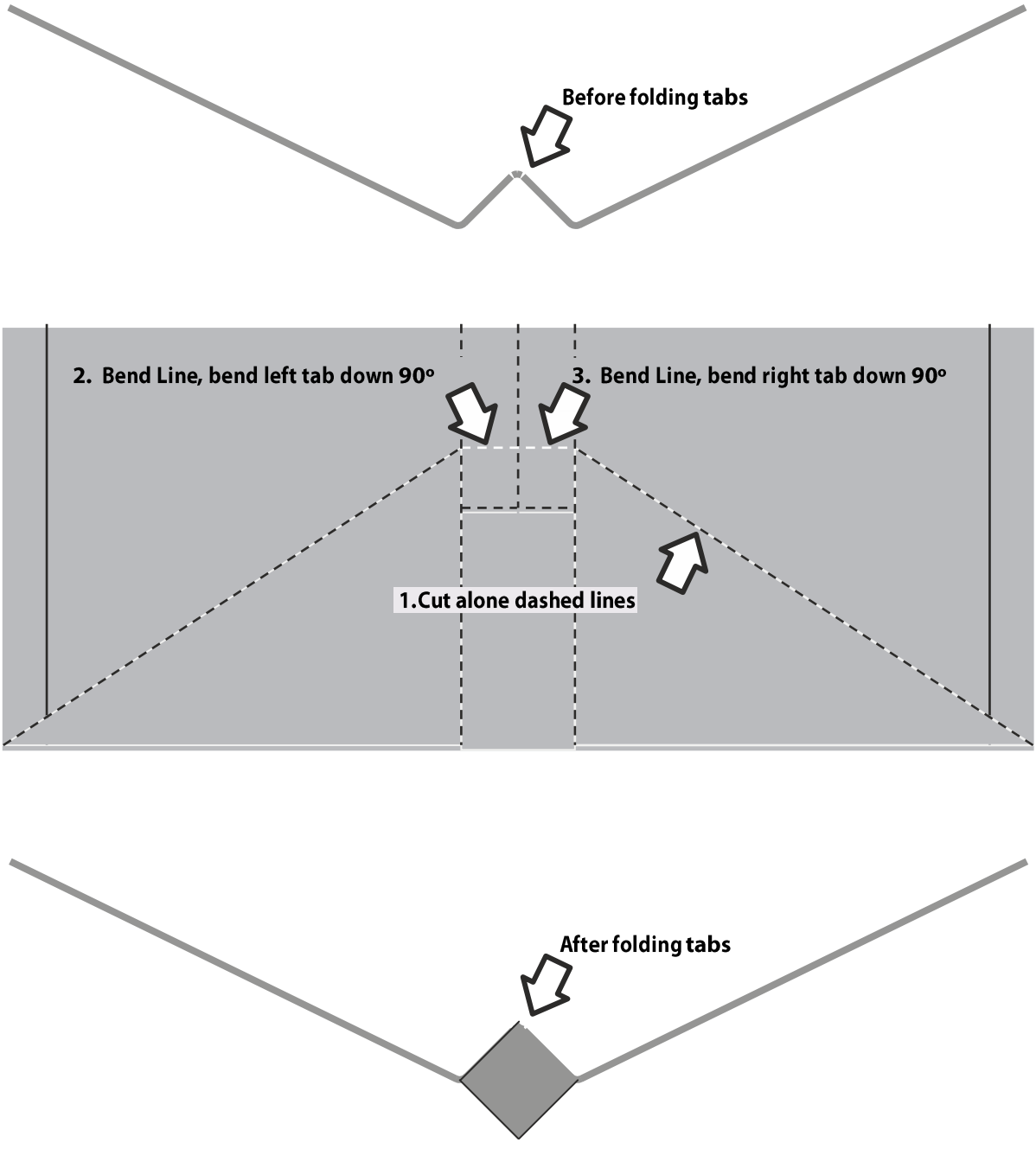
Valley Lapping



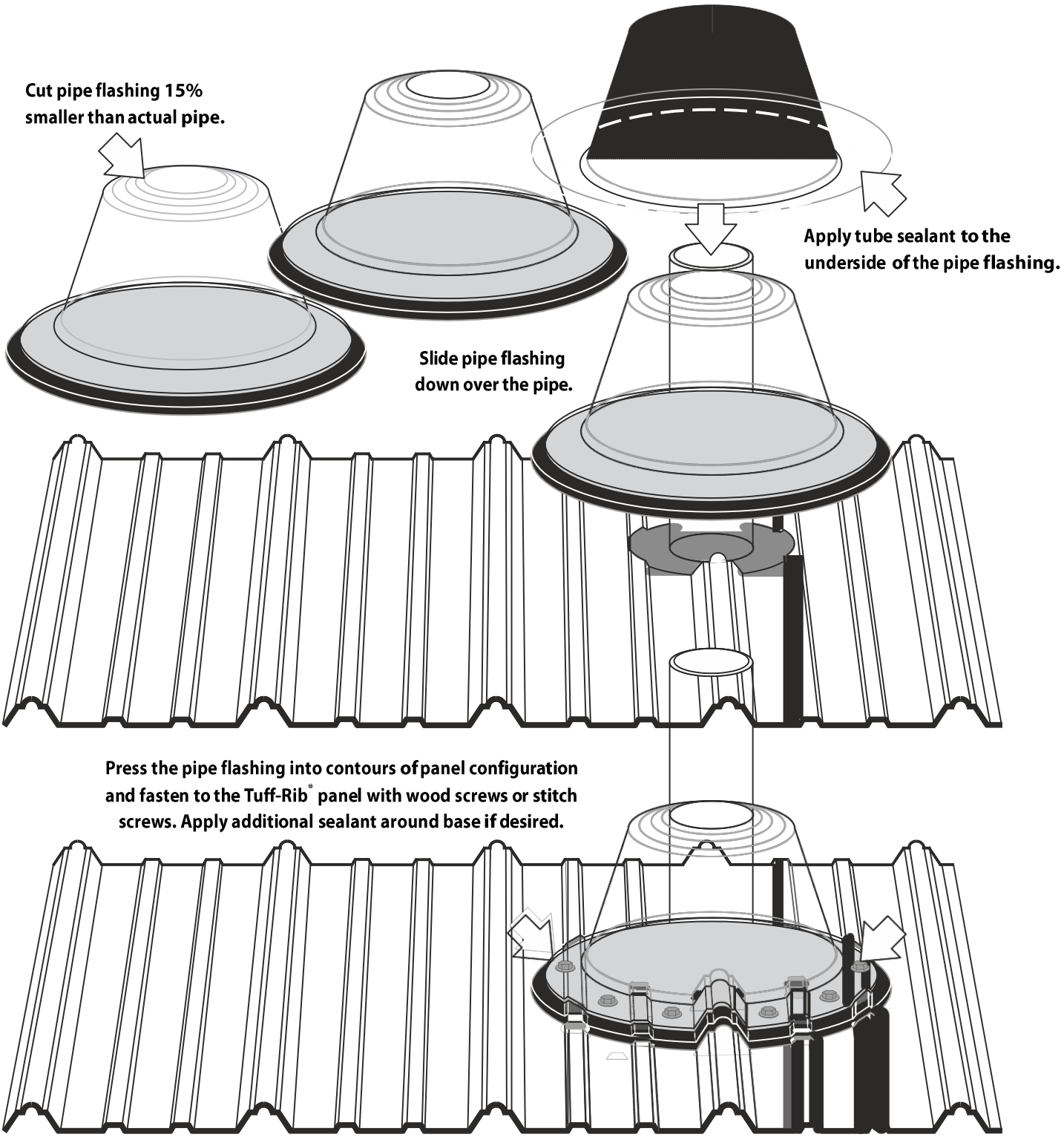


Valley Cutting

Valley starter cutting diagram with water diverter tabs.



Pipe Flashing



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