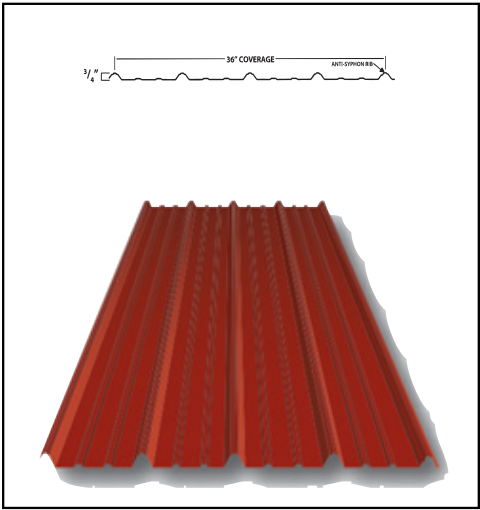


Tuff Rib Installation Manual

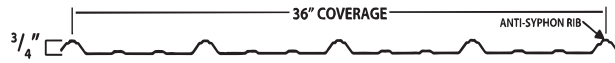


Important Notice

This manual contains suggestions and guidelines on how to install the tuff rib panel & trim pieces. The contents of this manual include the guidelines that were in effect at the time the manual was completed. In an effort to keep pace with the ever-changing building codes, Fabco retains the right to change specifications and/or designs at any time without incurring any obligations. 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.

Introduction

The Tuff Rib panel is available in 36" coverage. The panel has five support ribs at 3/4" high that add strength to the panel.



Storage

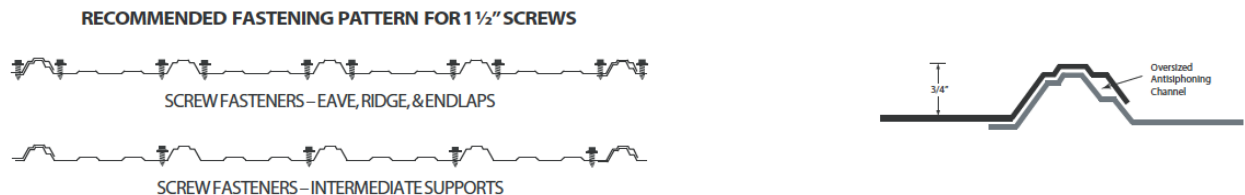
If metal is not used immediately, store inside in a well ventilated, dry area. Condensation or other moisture can form between the sheets during storage causing water stains or white rust. This can cause the paint to flake off the panel immediately or several years later. Store the material on end or 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 iwth an insulator such as wood. Any outdoor storage is at the customers own risk . If outdoor storage cannot be avoided, protect the metal using a canvas cover or waterproof paper. Neer cover the metal with plastic, this will cause condensation to form.

General Information

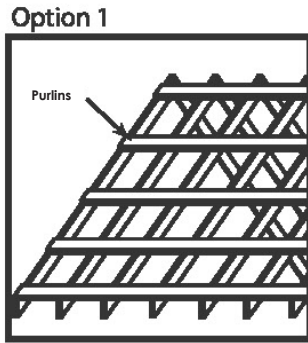
Insure that the panel is square and true before beginning installfion. If the panel is not square, they will not properly seal at the sidelaps. Remove any loose metal shavings left on the roof surface immediately to prevent corrosion. After installing roof, remove any debris such as leaves or dirt to prevent moisture from getting trapped on panels. Do not install in direct contact with chemically treated lumber.

Fastening

Screws - for best results, use a 1-1/2" washered wood screw in the flat of the panel as shown in the picture below. Fasteners should be applied at every purlin or every 24" horizontally on plywood. Drive the fastener so that the washer is compressed against the metal. Do not over drive the fastener. Do not leave any loose fasteners that have missed the purlin; use a #14 stitch Screw to fill the hole.



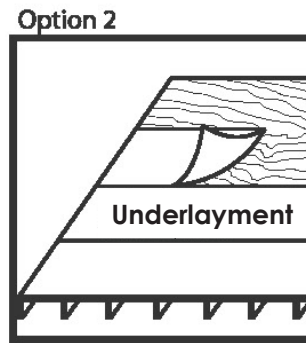
Roofing Installation Options



Install Metal Directly to Wood Frame

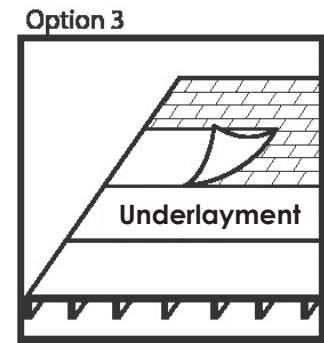
- Use Maximum 2' Purlin Spacing
- Install Metal

*DO NOT USE THIS OPTION FOR HEATED SPACES UNLESS INSULATION AND MOISTURE BARRIER PROTECTION IS USED



Install Metal on Solid Deck

- Lay Plywood Deck
- Apply Underlayment
- Install Metal



Install Metal Over Existing Shingles

- Apply Underlayment
- Install Metal

* Proper Ventilation and vapor barrier protection needed 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 winds and to provide a finished appearance, apply rake trim or other standard gable trim. Slopes of less than 3:12 are not recommended. For slopes less than 3:12, apply 3/8" Tape sealant along the top of all lap ribs as shown below. Do not block the siphon channel with the tape.



Drip Edge #100 or #101

Numbers indicate suggested trim assembly sequence.

Roof Underlayment

Install roof underlayment according to the manufacture's recommended procedure.

Trim Pancake Screw

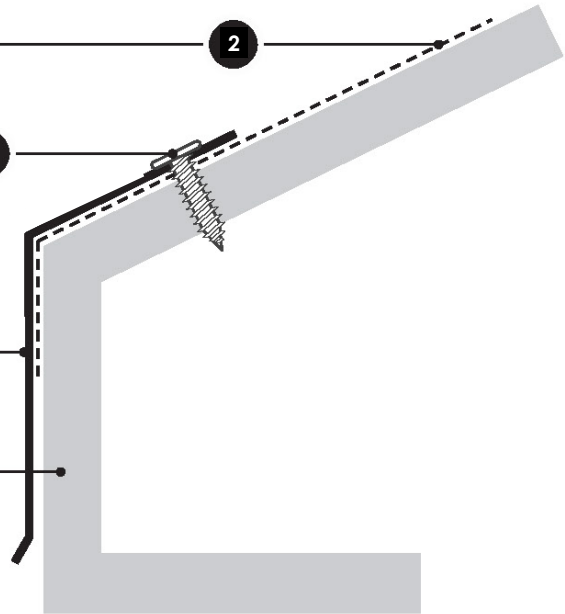
Fasten trim with pancake screws spaced 12" apart along the length of the trim.

Drip Edge

Install the drip edge trim and butt ends.

Roof Deck

Install the roof deck according to local building code requirements.



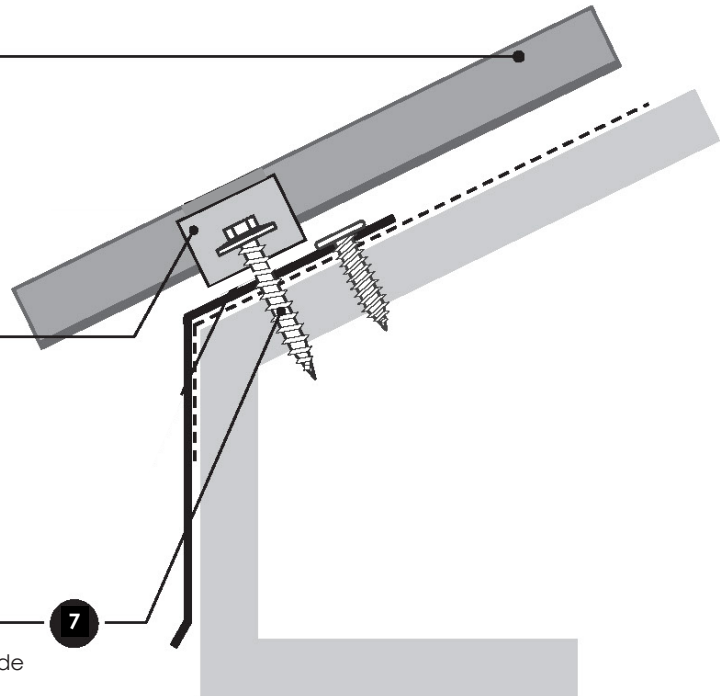
Tuff Rib Panel

Install the panel and overhang it a minimum of 1" beyond the drip edge trim.

Inside Closure

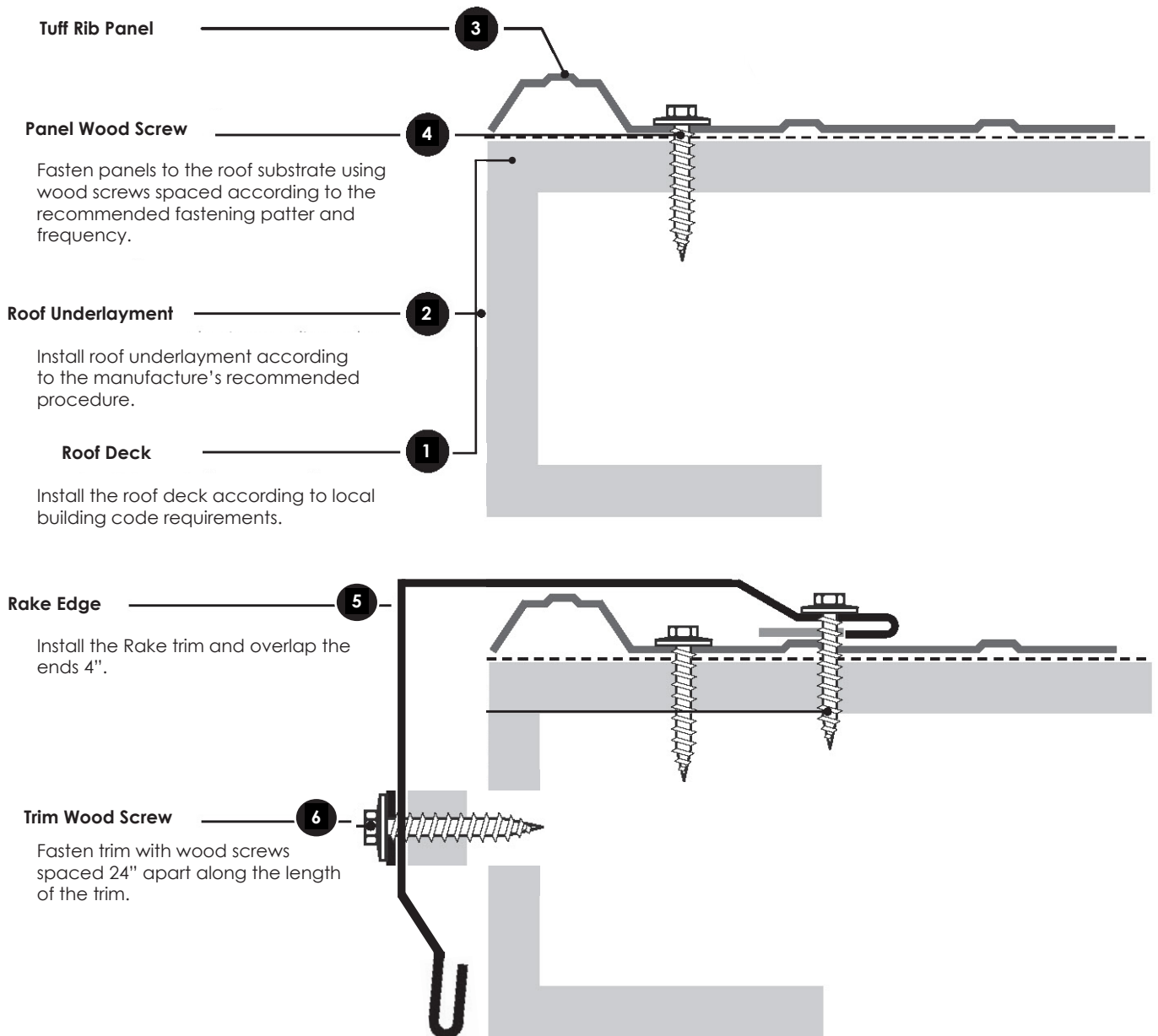
Panel Wood Screw

Fasten wood screw at the inside closure on each side of ribs.



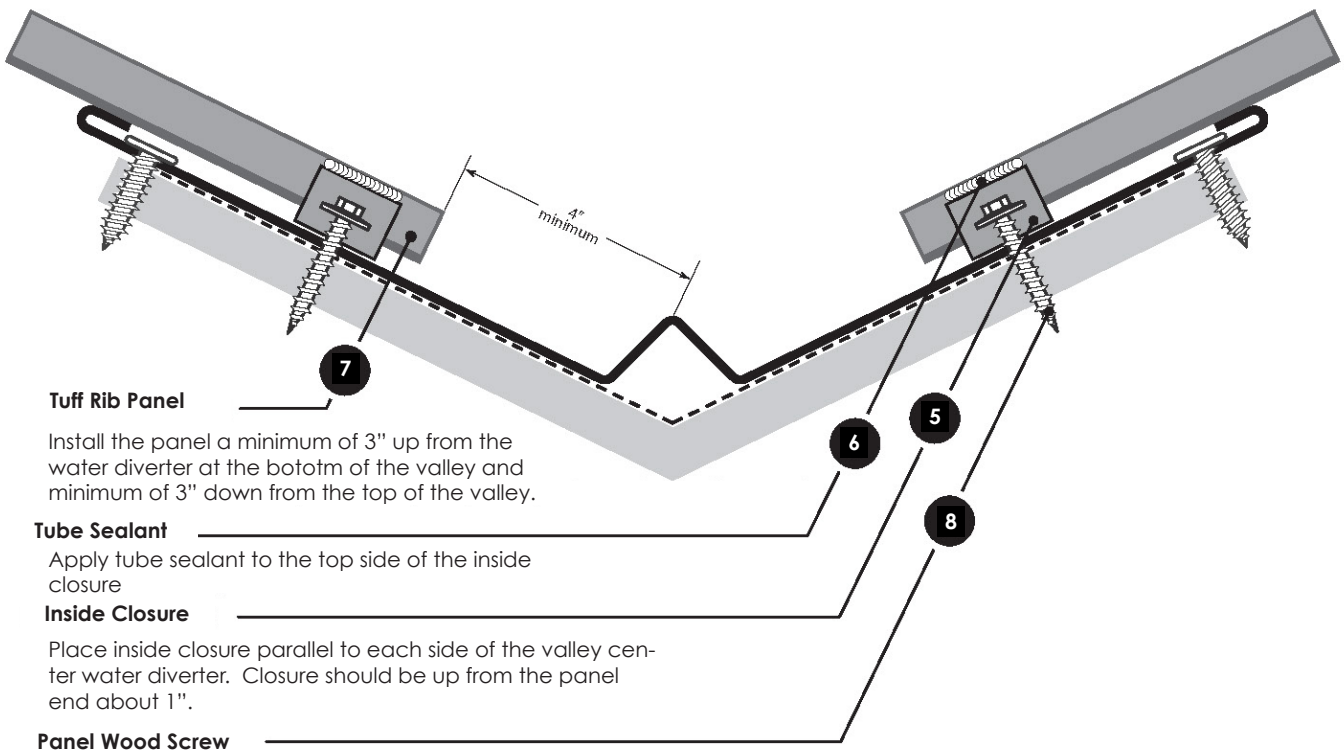
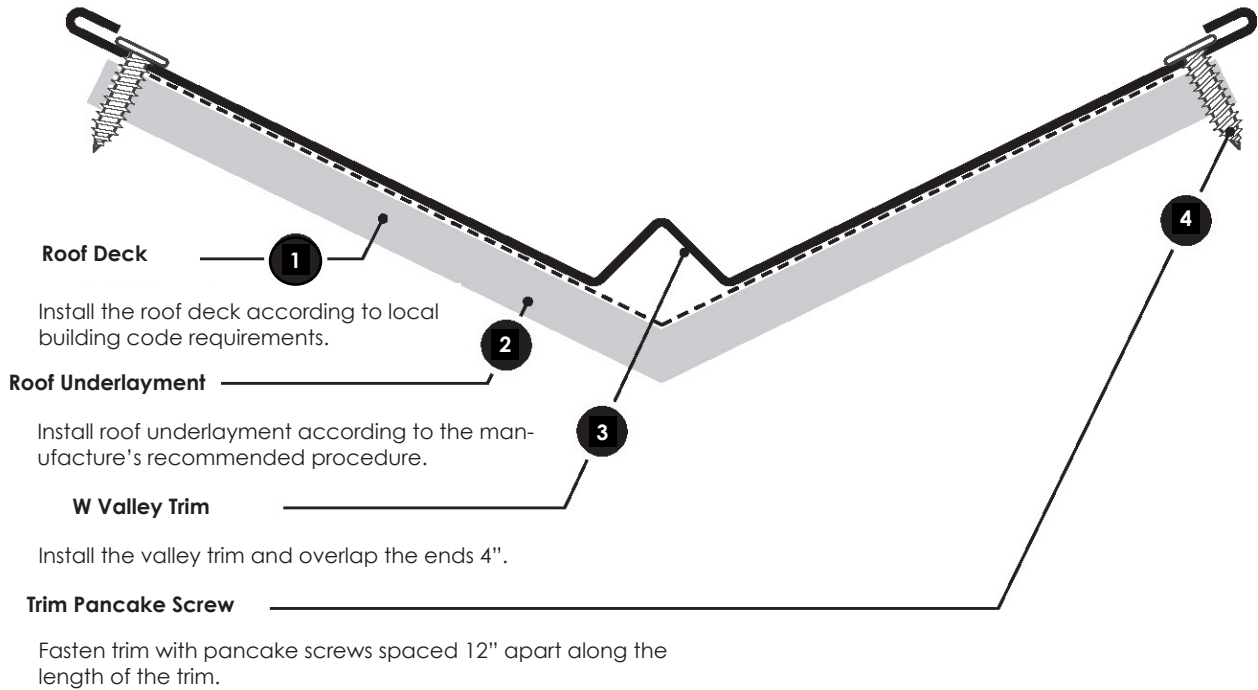
Rake Edge #112

Numbers indicate suggested trim assembly sequence.



W Valley #130

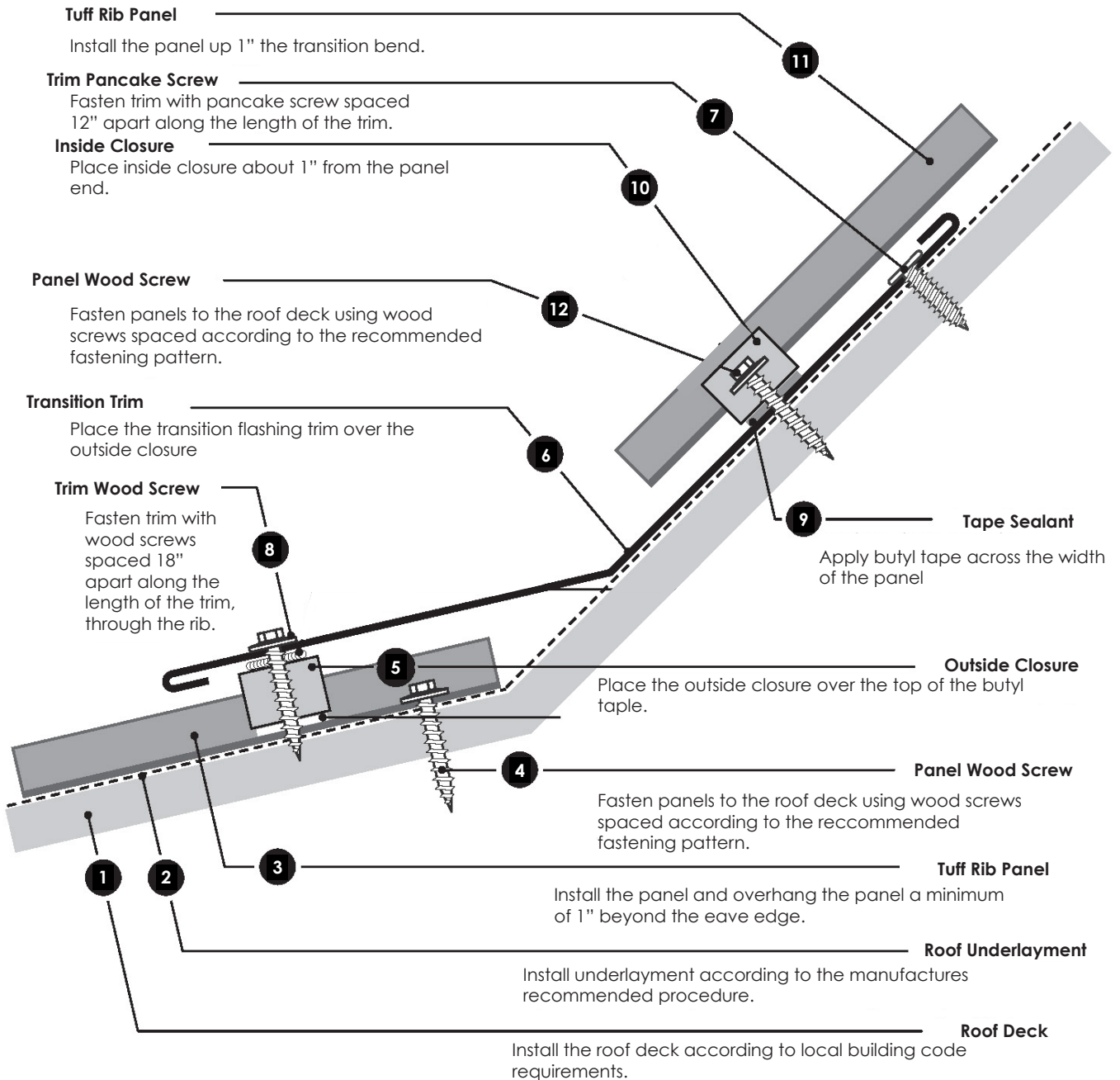
Numbers indicate suggested trim assembly sequence.



***Note - When seaming valleys, overlap minimum 4" with 2 butle sealant strips in between.**

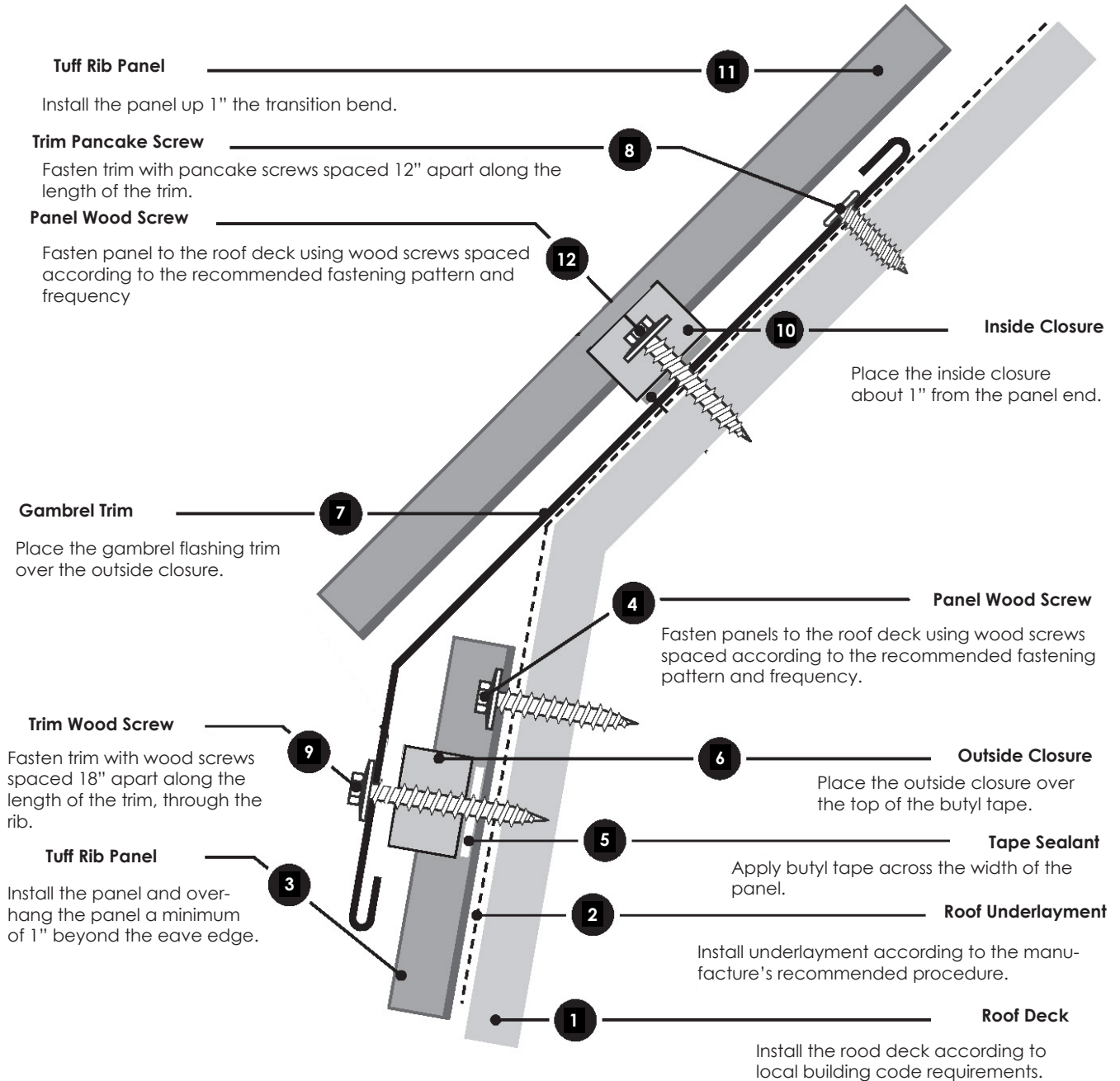
Endwall/Chimney Transition Flashing #136

Numbers indicate suggested trim assembly sequence.



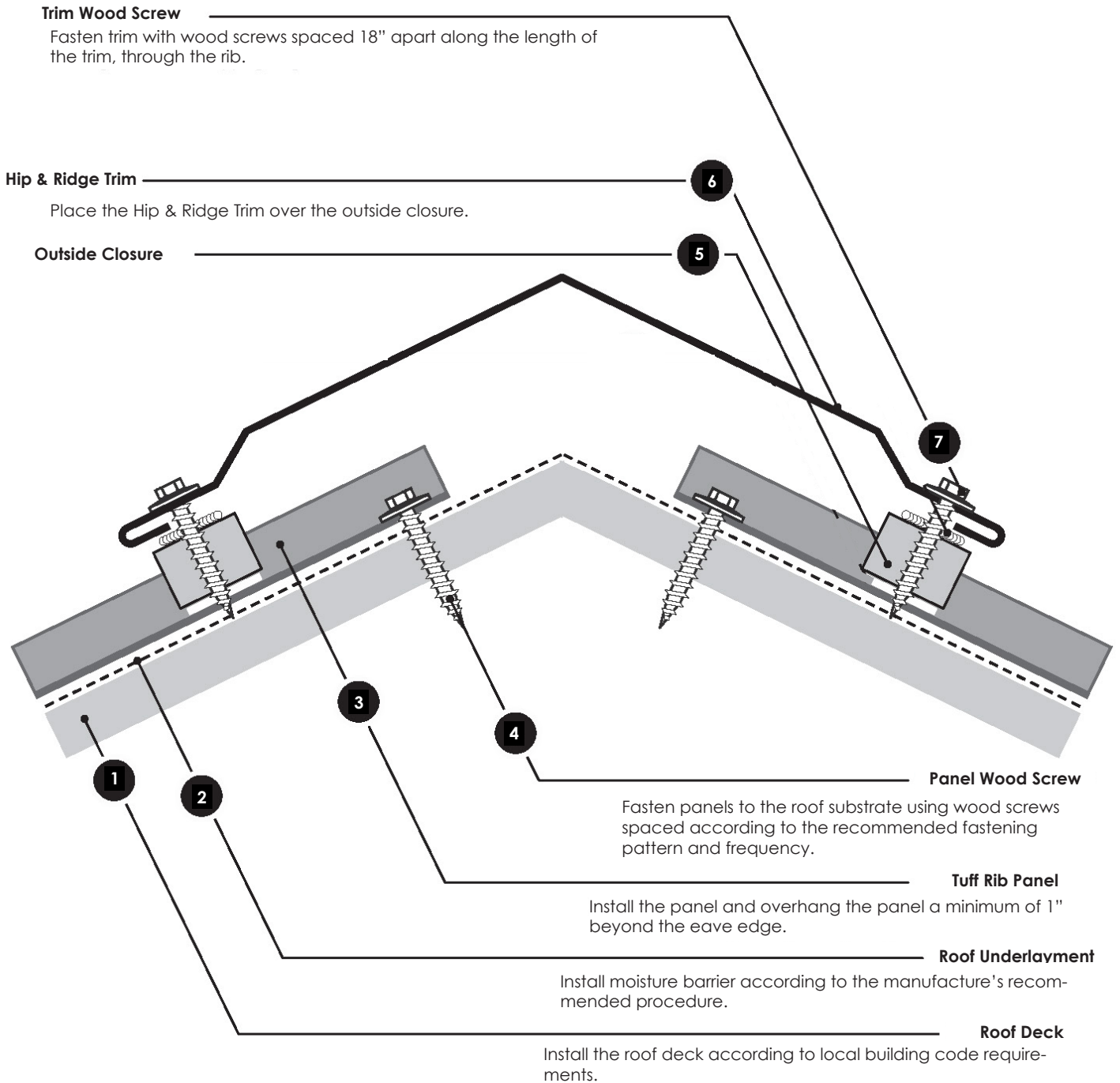
Flashing Gambrel #135

Numbers indicate suggested trim assembly sequence.



Hip & Ridge #132

Numbers indicate suggested trim assembly sequence.



Mono Slope #138

Numbers indicate suggested trim assembly sequence.

Trim Wood Screw

Fasten trim with wood screws spaced 2' apart along the length of the trim.

Mono Slope Trim

Place the Mono Slope 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.

Outside Closure

Tuff Rib Panel

Install the panel and overhang the panel a minimum of 1" beyond the eave edge.

Panel Wood Screw

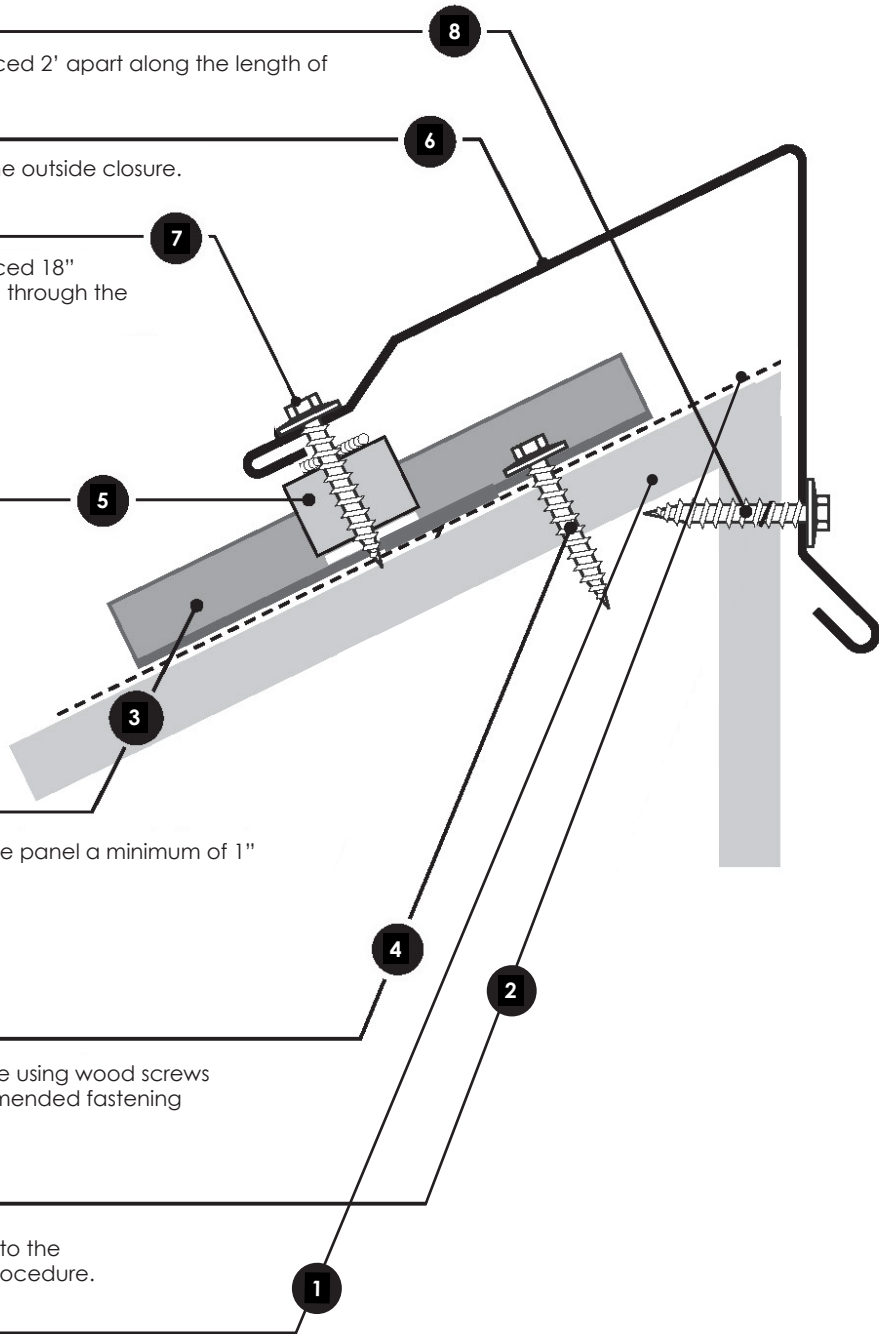
Fasten panels to the roof substrate using wood screws spaced according to the recommended fastening pattern and frequency.

Roof Underlayment

Install moisture barrier according to the manufacture's recommended procedure.

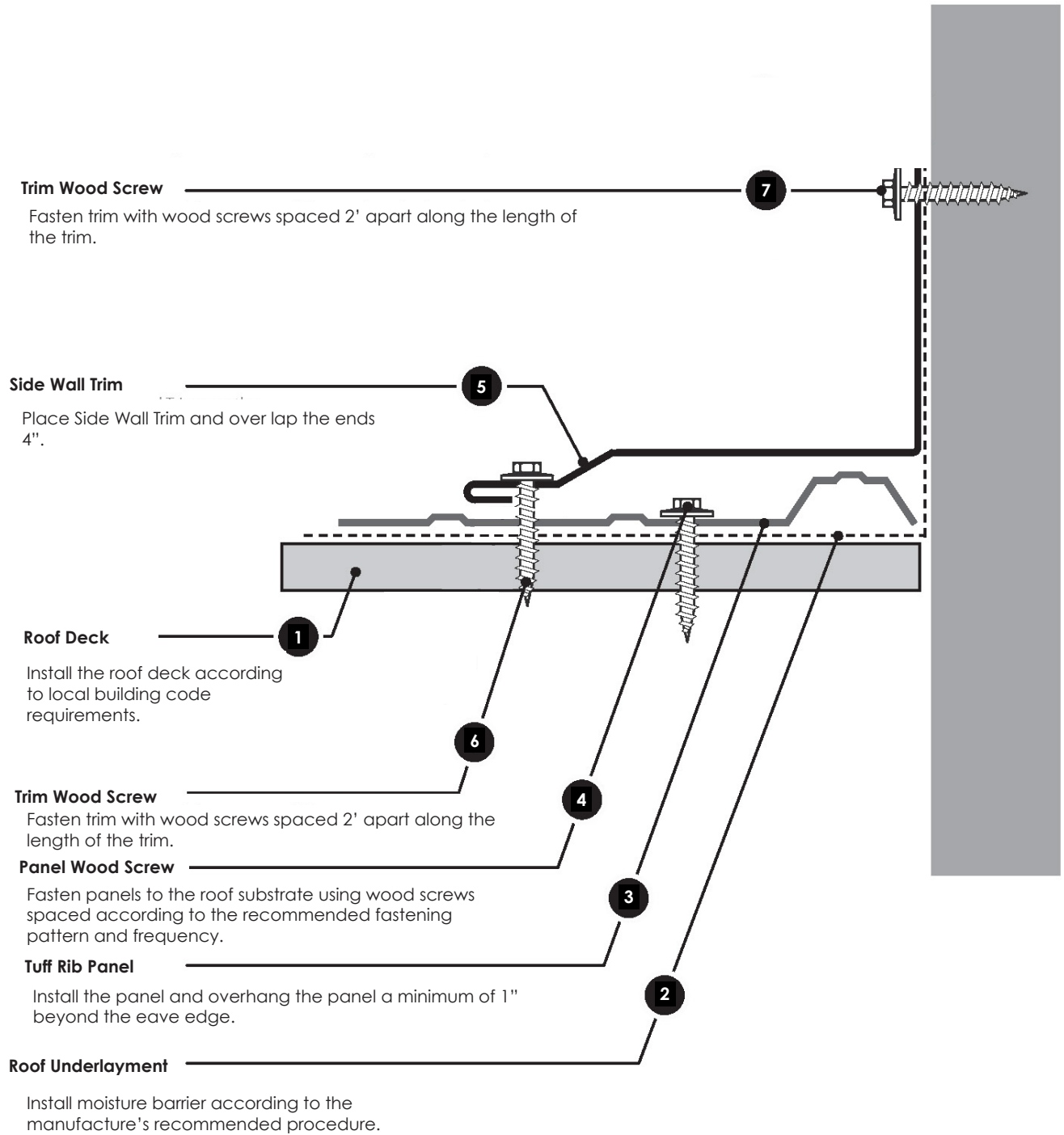
Roof Deck

Install the roof deck according to local building code requirements.



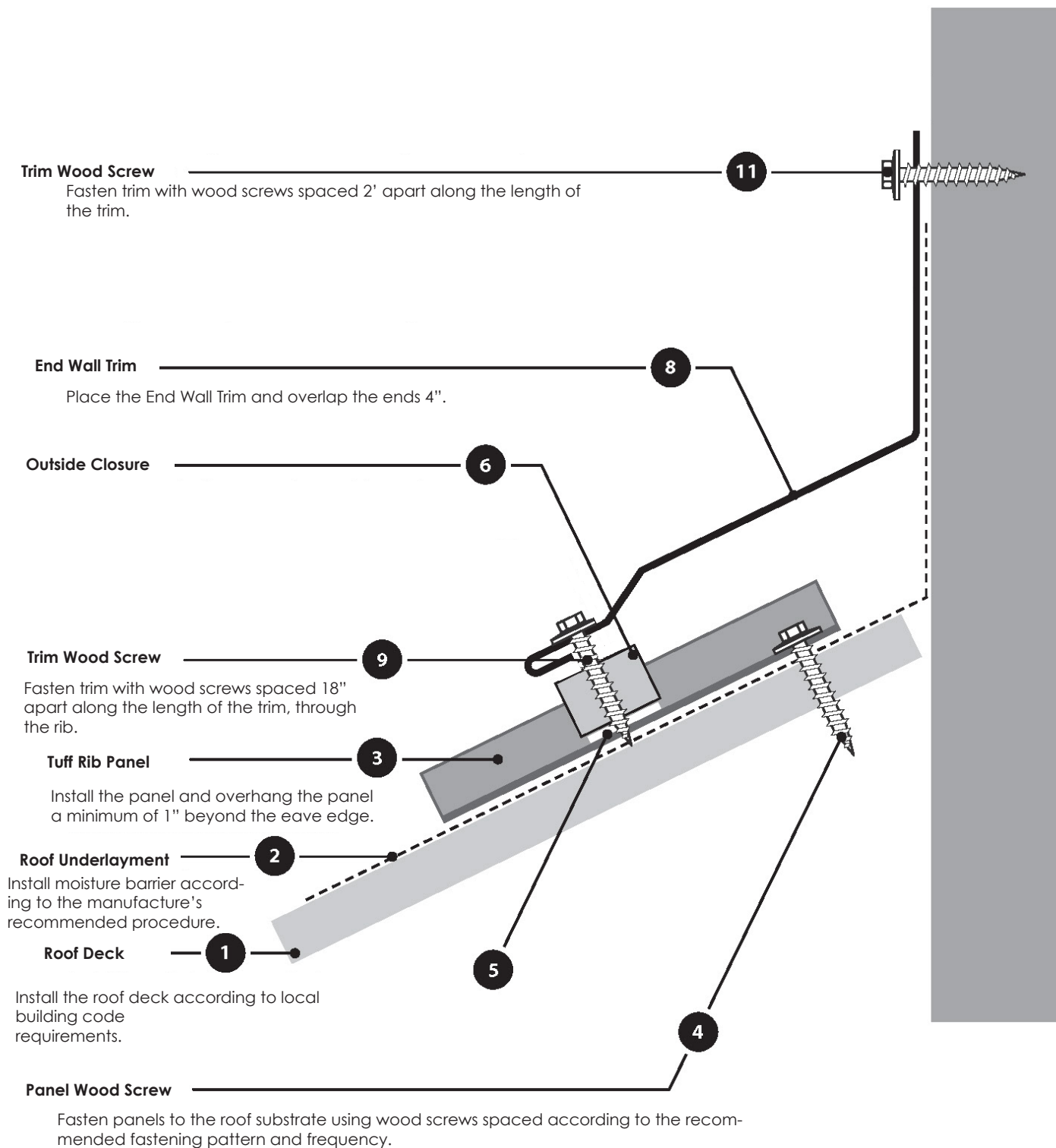
Side Wall #140

Numbers indicate suggested trim assembly sequence.



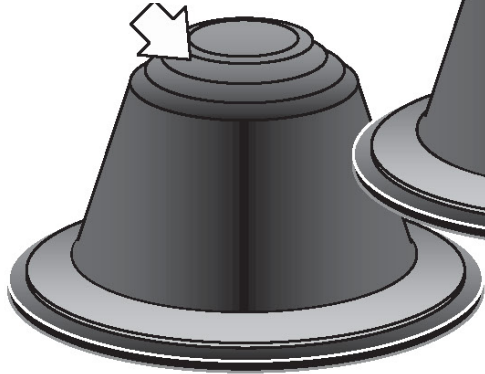
End Wall #136

Numbers indicate suggested trim assembly sequence.

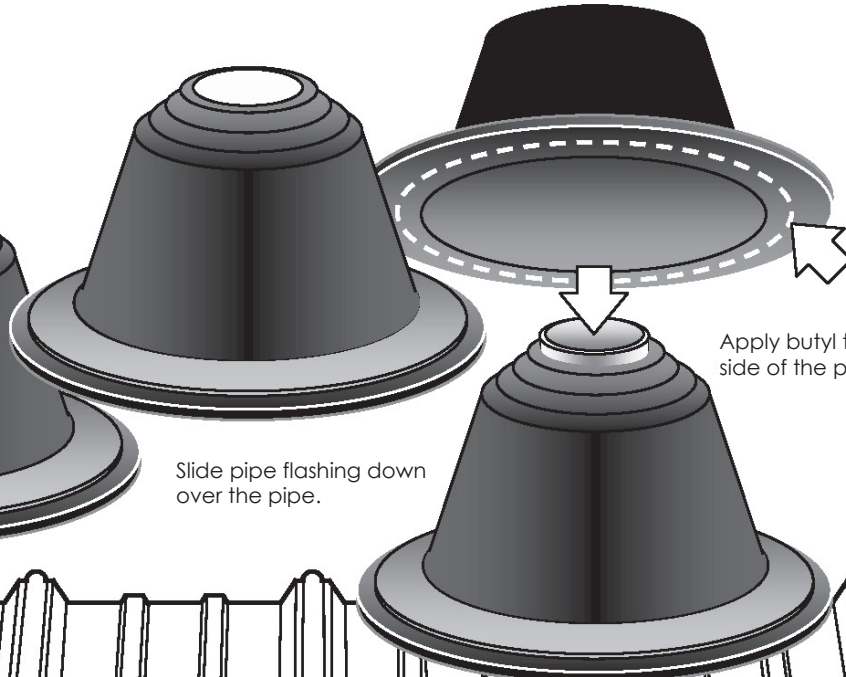


Pipe Flashing

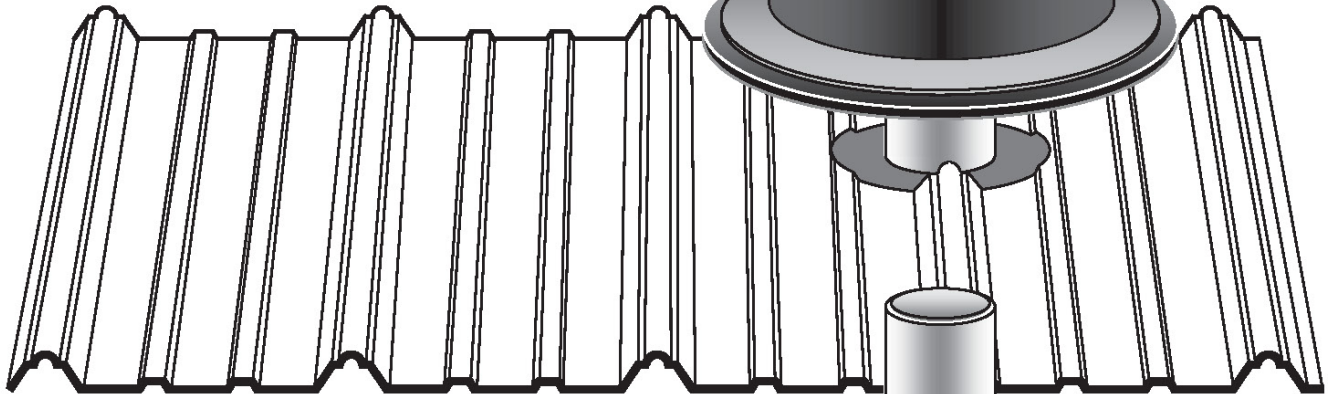
Cut pipe flashing along the diameter marking



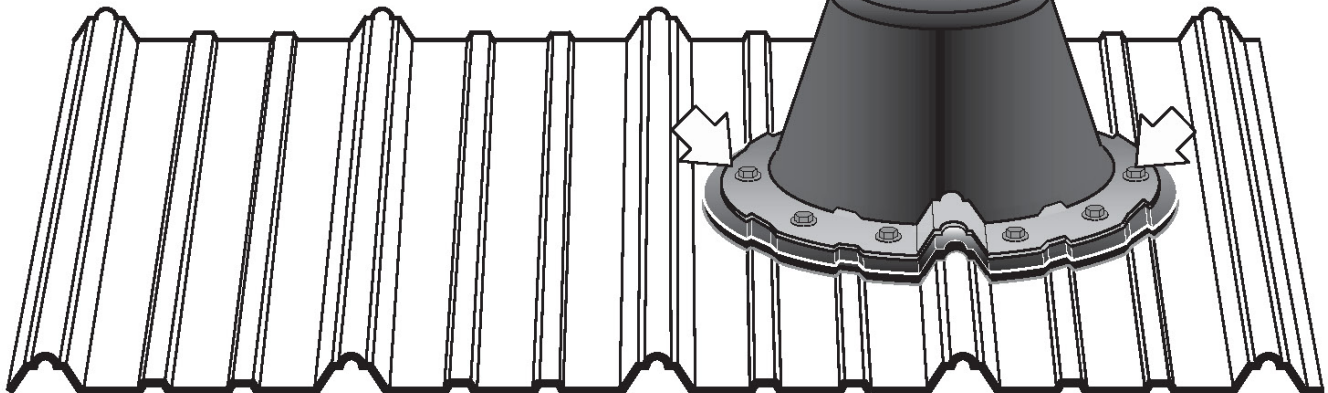
Slide pipe flashing down over the pipe.



Apply butyl tape to the underside of the pipe flashing.



Press the pipe flashing into the panel and fasten with screw. Apply additional butyl tape around base if needed.



*Always use metal to metal lap screws when wood is not present underneath.

Panel Endlap Detail

