

Installation Guide



MATTERHORN® **Tile**



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Tools:

Minimum recommend tools and equipment

- Caulking Gun
- Chalk Line
- Cordless Drill
- “Duckbill” Pliers or Hand Seamer
- Electric Metal Saw
- Felt Tipped Marker
- Gloves
- Needle Nose Pliers
- Small Flat Head Screw Driver
- Snips - Right and Left
- Speed Square
- Tape Measure

Accessories:

Most available through roofing distributors

• Screw Types:

- 1¼” no. 10-12 zinc-coated panhead (for panels over new construction)
- 2” no. 10-12 zinc-coated panhead (for panels over shingles)
- 1¼” no. 10-16 zinc-coated painted hex-head (for all exposed areas)
- **Caulk:** Butyl or Urethane Caulk/Sealant
- **Tape:** Butyl Tape on a roll
- **Boots:** “Witches Hat” style with lead sealer ring

Storage and Handling:

- **Storage:** Metal building products should be stored in a dry well ventilated space. Never cover materials with non-breathing or plastic tarps. This may cause condensation which will deteriorate the protective coating of the materials.
- **General Handling:** Carry the roofing panels on edge instead of laying flat. Be sure to wear gloves.
- **Foot Traffic:** Wear clean, soft sole, non-marking shoes when walking on installed roofing panels. Only step in areas where the panel is in contact with the roof deck.

System Components Placement





A. Tile Panel



B. Inner Gable*



C. W-Valley



D. Sidewall Flashing



E. Outer Gable



F. Valley Closure



G. Hip/Ridge Cap



H. T-Style Drip Edge



I. Endwall Trim



J. C-Closure Vented



K. Valley Closure Cap



L. Ridge Cap
End Closure



M. Valley Cleat



N. Weep Trim



O. Bird Stop (Foam)



P. Bird Guard (Metal)



Q. Wind Stop

Fasteners



10-16x1 1/4" Roof Screw - (Painted)

10-16 1-1/4". Used anywhere an exposed fastener is needed.



10-16x1 1/4" Roof Screw - (Mill)

80 screws per square. 10-16 1-1/4".

*Inner gable can also be used as a non-vented c-closure in endwall applications.

General Installation Guidelines

- Installing Matterhorn® Metal Roofing on top of existing shingles is acceptable per local building requirements.
- Matterhorn® Metal Roofing must be installed on a minimum ½" CDX plywood roof deck. Synthetic, temperature-resistant underlayment must be installed prior to the installation of metal roofing products—or refer to local building code.
- Prior to installing the underlayment, clear the roof deck of any debris or protrusions that could puncture the protective membrane. Installing roof panels on uneven surfaces may cause distortion or deflection on the metal surface. Surface wave in the material is not cause for rejection of the product.
- Inner Gable, Valley, Valley Closure, T-Style Drip Edge, Vented C-Closure, Bird Guard and Bird Stop must be installed before the panels. Sidewall Flashing, Outer Gable, Hip/Ridge Cap, Transition Flashing and Ridge Cap End Closure may also be installed before the panels.
- When cutting panels to length, always remove material so that the factory pre-formed bend remains intact to allow for proper locking to adjacent panel below.
- Always install Matterhorn® Tile panels from bottom to top, then right to left; beginning with the bottom right corner of the roof deck. Always fill one column in completely before moving to the next one.
- Be sure each panel is fully engaged to the panel below before fastening it to the deck.

Safety Guidelines

Follow all governmental safety procedures, including, but not limited to, all OSHA guidelines. Always wear safety gloves, safety glasses and fall protection gear when installing Matterhorn® Metal Roofing.

Estimating

It is difficult to estimate the use of drops and cutoffs so typically, cutoffs and drops will not be usable since installation runs in only one direction. This would cause overages in determining material usage. Consider the 18"x49" coverage of each panel while determining the total material needed. Installation always runs from bottom to top, then right side to left side of the area to be covered.

Ventilation

Proper ventilation must be achieved to avoid moisture and heat buildup in the attic space, or between the layers of the building envelope. Consult local building code for NFA (Net Free Area) rating requirements.

- **Intake vs. exhaust:** To achieve maximum airflow through the attic, the amount of intake at the eave must be less than or equal to the exhaust at the ridge.
- **Soffit vents** are found on the underside of the eave overhang. This is the primary source for the intake of air to the attic.
- **Ridge vents** are located at the peak of the roof and are the primary exhaust outlet for accumulated hot, moist air.

Upon completion of the installation, inspect the roof surface for metal shavings or other loose material. Remove by wiping softly with a cloth, being careful not to scratch the painted surface. Remove dirt with a damp rag, using detergent if necessary.

Maintenance

Remove any and all debris that may accumulate on the roof during its lifespan to keep it moisture free. Tighten any loose fasteners or trim pieces as access allows. Do not attempt to repair or replace any parts of the Matterhorn roof system without consulting a certified applicator. Repainting the roof should not be necessary through the duration of the warranty.

Warranty

Register the warranty by mailing the warranty card. This is required to "trigger" any coverage. See the warranty document for details.

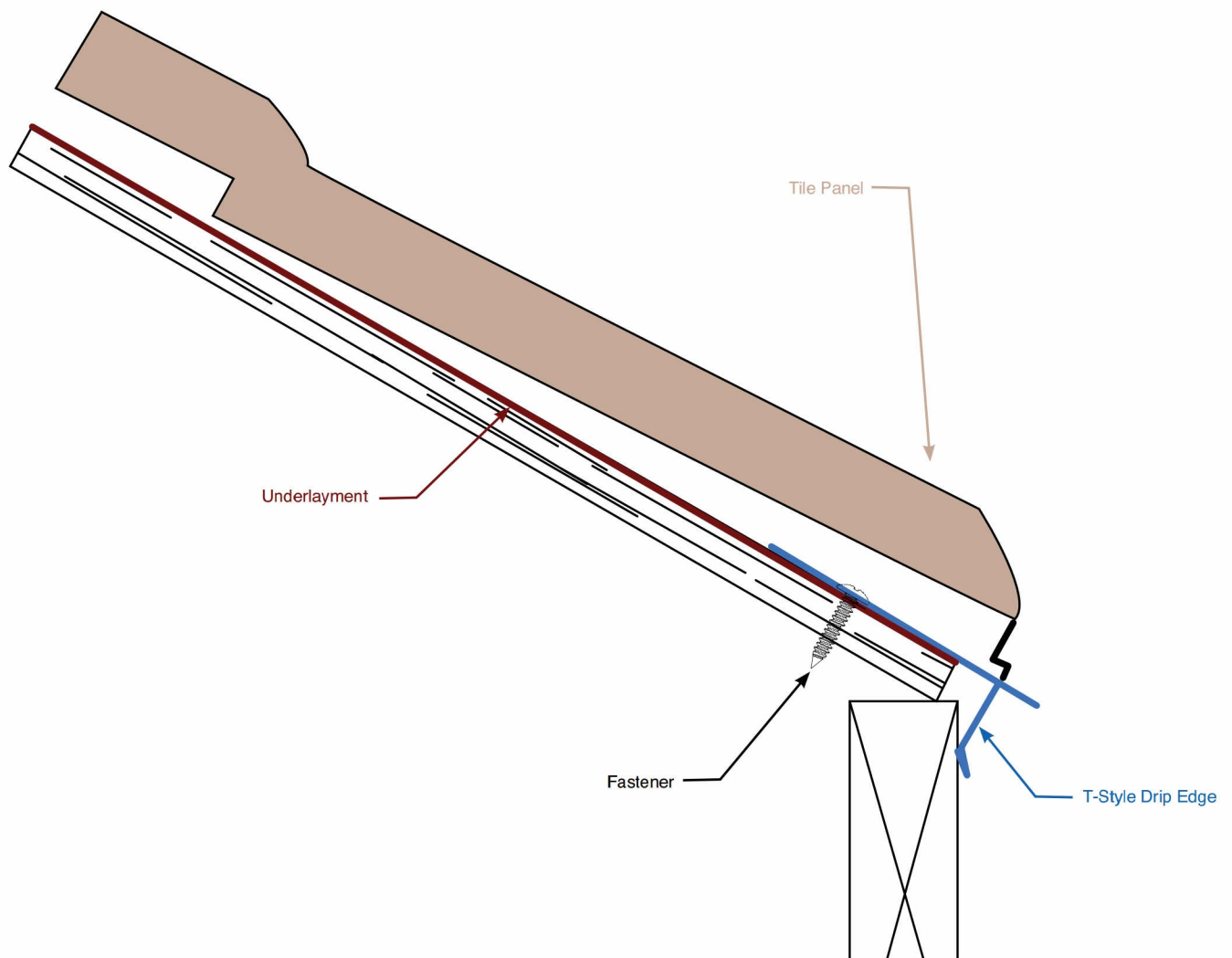
Class A Fire Rating

Matterhorn® tested using Georgia-Pacific 1/2" DensDeck. For a Class A Fire rating, use Georgia-Pacific 1/2" DensDeck. A Class A Fire rating is not applicable if Matterhorn® Tile panels are installed over existing shingles.

Eave Edge

T-Style Drip Edge Detail:

- 1.) Fasten t-style drip edge to the roof deck every 12" with panhead screws. Screw should be centered in the width of the eave edge.
- 2.) Adjacent pieces should overlap at the joint and seal the underside of the joint with 4" butyl tape.
- 3.) Bird Stop (foam) or Bird Guard (steel) should be installed between the drip edge and the underside of the panel at the eave edge only.

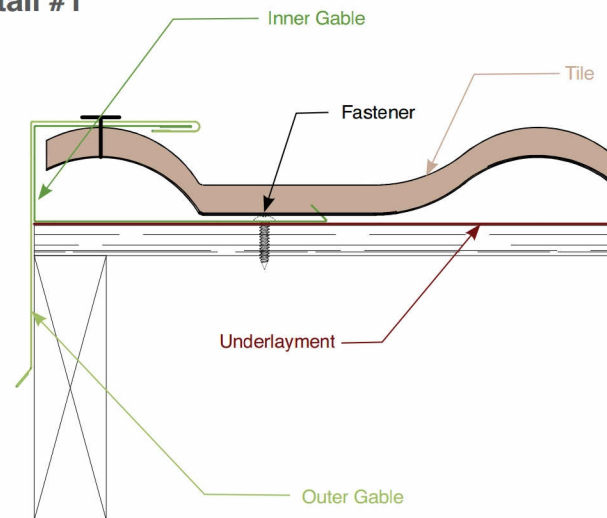


Rake Edge

Rake Edge Detail #1:

- 1.) Install the inner gable up the rake edges using panhead screws every 12". The opening of the inner gable should face toward the roof deck. The back side should align with the outside edge of the roof deck.
- 2.) Lap the edges of the inner gable together at the joints and seal with butyl tape.
- 3.) The last rows are fastened through the top of the inner gable with 1-1/4" panhead screws before installing the outer gable. *For a 130 MPH wind rating, fasten every 12".*
- 4.) In high wind areas the outer gable can be fastened to the sub fascia near the bottom of the leg. *For a 130 MPH wind rating, fasten every 12".*

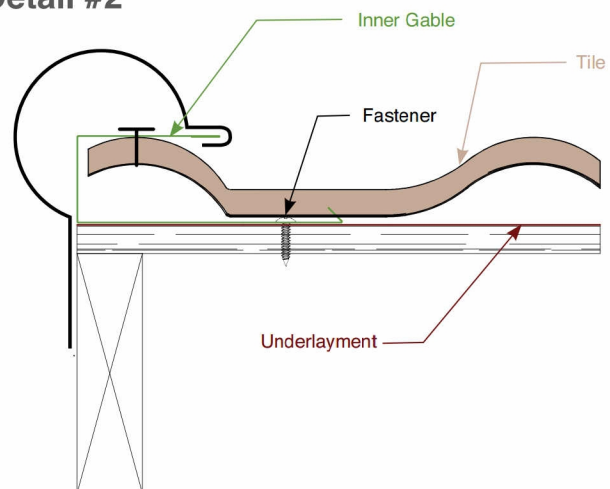
Detail #1



Rake Edge Detail #2:

- 1.) Install the inner gable up the rake edge using panhead screws every 12".
- 2.) The panels that begin and end at the rake edges are fastened through the top of the inner gable with panhead screws. *For a 130 MPH wind rating, fasten every 12".*
- 3.) Hem one side of the ridge cap to hook on to the inner gable. Leave the other side unhemmed to be flat against the fascia or the size of the barrel tile cap foot can be custom sized for different applications.
- 4.) Fasten with color matched screws into the fascia as needed given local wind conditions. *For a 130 MPH wind rating, fasten every 12".*

Detail #2



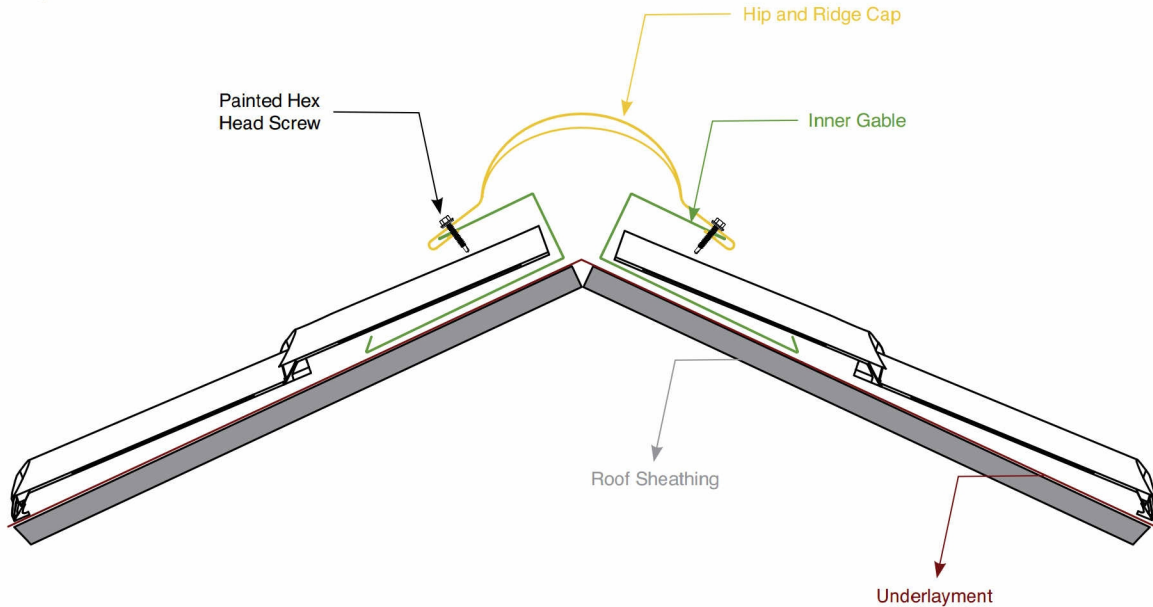
Hip and Ridge

Hip and Ridge Detail(s):

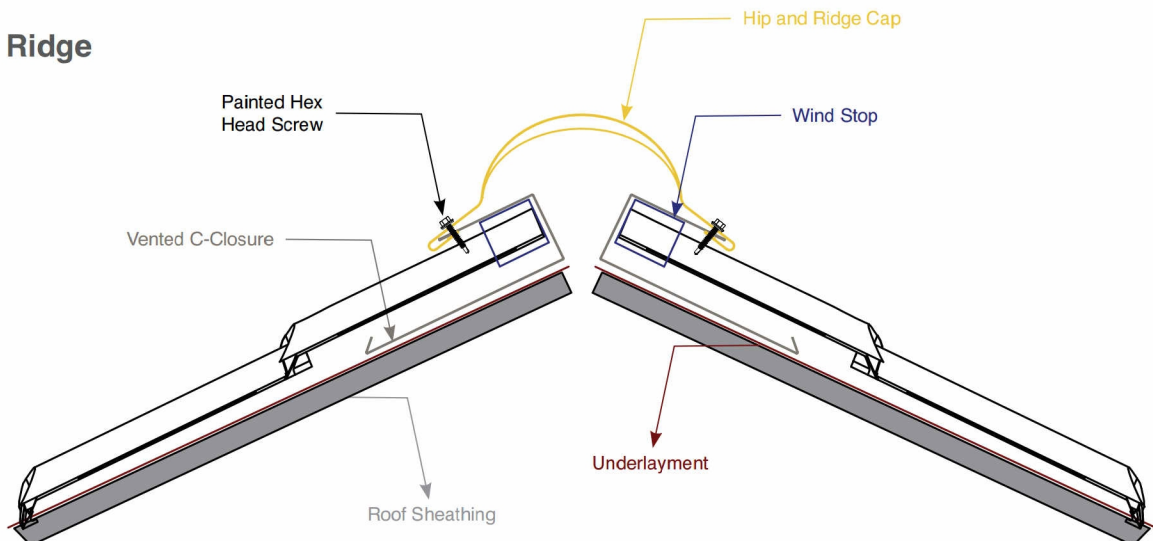
Hip and ridge capping can be installed before the roof panels to prevent walking on the finished roof. For vented ridges, the vented C-Closure is fastened to the deck every 12" with panhead screws. For unvented hips or ridges the inner gable is installed with panhead screw every 12". Be sure the inner gable or vented c-closure are properly spaced to engage the hem of the hip/ridge cap. When overlapping the cap sections, be sure to maintain the correct spacing end to end by nesting the ridge cap together. A shorter flange on the ridge cap can be achieved by moving the closures closer together.

For a 130 MPH wind rating, fasten cap to the tile through the closure with color matched screws at every barrel top.

Hip



Ridge

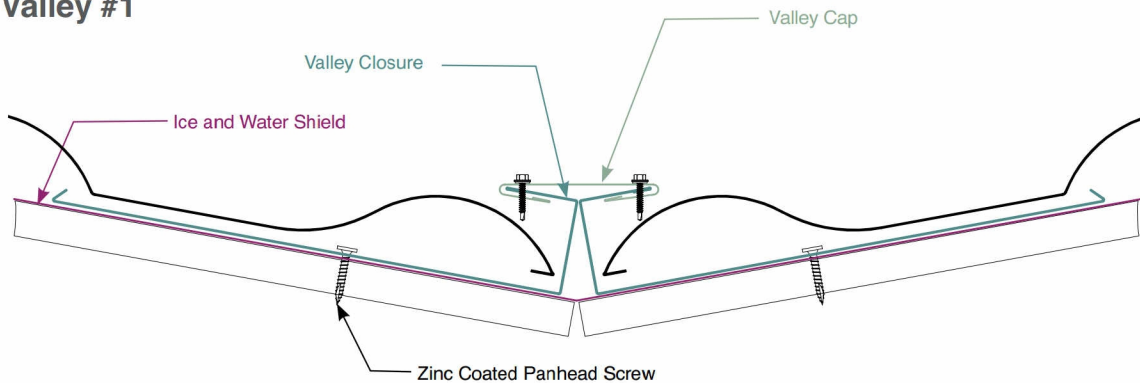


Valley

Valley Detail #1: Closed Valley (3 Pieces)

- 1.) Fully line the valley of the roof with self adhering underlayment.
- 2.) Install the opposing pieces of valley closure back to back. Fasten every two feet within one inch of the water lock with pan head screws.
- 3.) Slide the valley cap up the valley starting at the eave. Make sure the cap stays hemmed to the valley closure. Additional sections may be added for long roof valleys. *For a 130 MPH wind rating, fasten every 12" through the valley cap into the barrel top.*

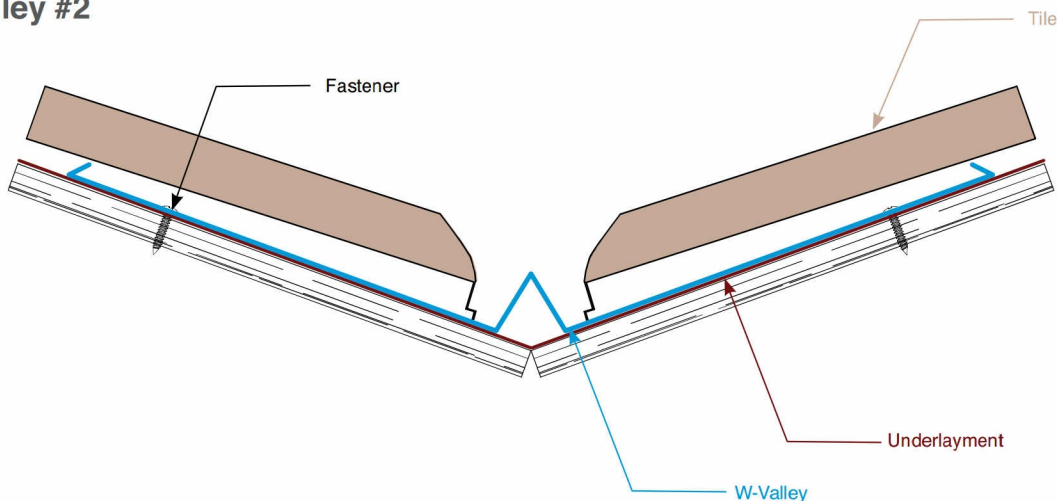
Valley #1



Valley Detail #2: Open Valley

- 1.) Install valley closure over hang the drip edge on the inside corner, 6" out of the lowest point.
- 2.) Cut the bottom hem of the first panel at the bottom of the valley closure. This will allow water to flow out of the valley at the bottom.
- 3.) Cut the roof panels at the angle of the valley, fitting it as close to the inside of the valley closure as possible. Extra fasteners may be needed to secure the panels in the valley. Be sure not to fasten within 6" of the bottom.
- 4.) When joining valley sections, apply sealant and install valley closure to be water tight. Apply sealant neatly and completely along all sides of the valley trim.
- 5.) Both sides of the valley closure need to be water tight.
- 6.) On a gable protrusion, when installing panels into valley, take frequent measurements to ensure that the first course above the valley peak will be aligned horizontally. At the bottom of all trim pieces, allow for weeping of water. Panels will need to be notched out to allow water to escape.

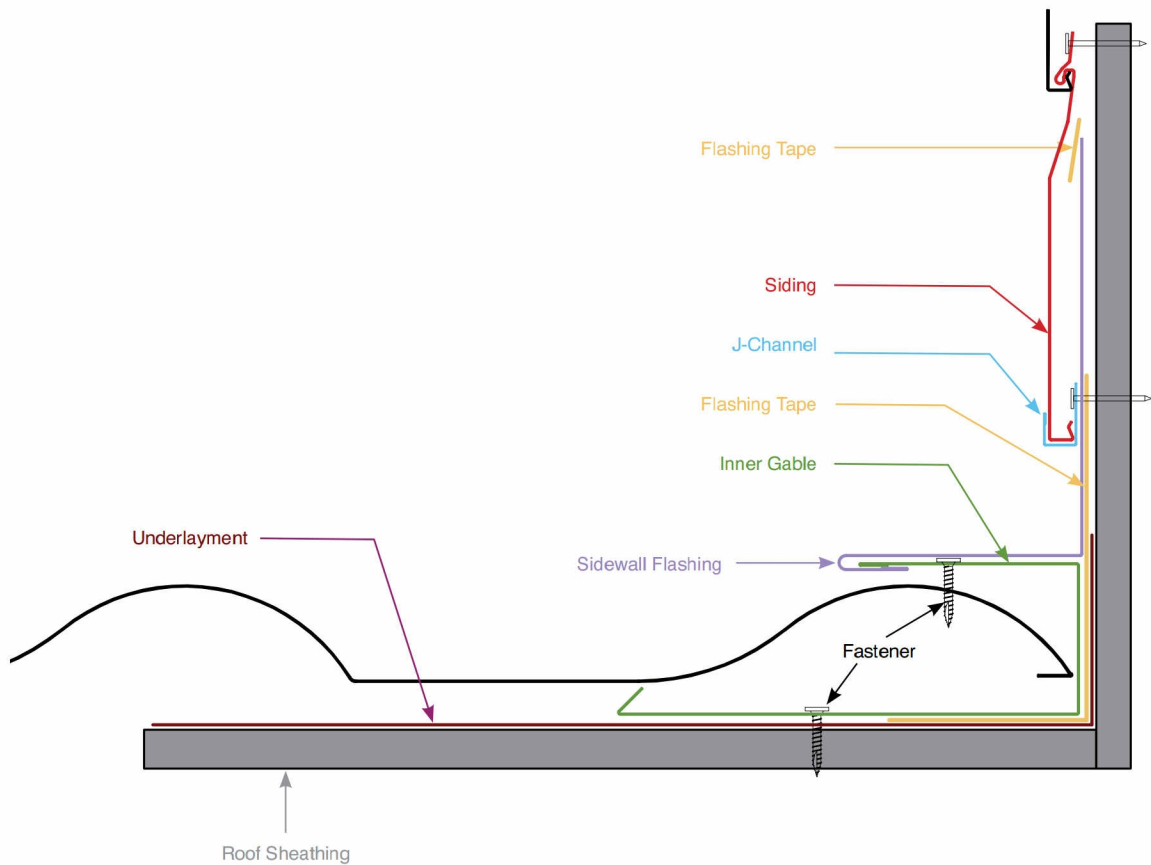
Valley #2



Sidewall

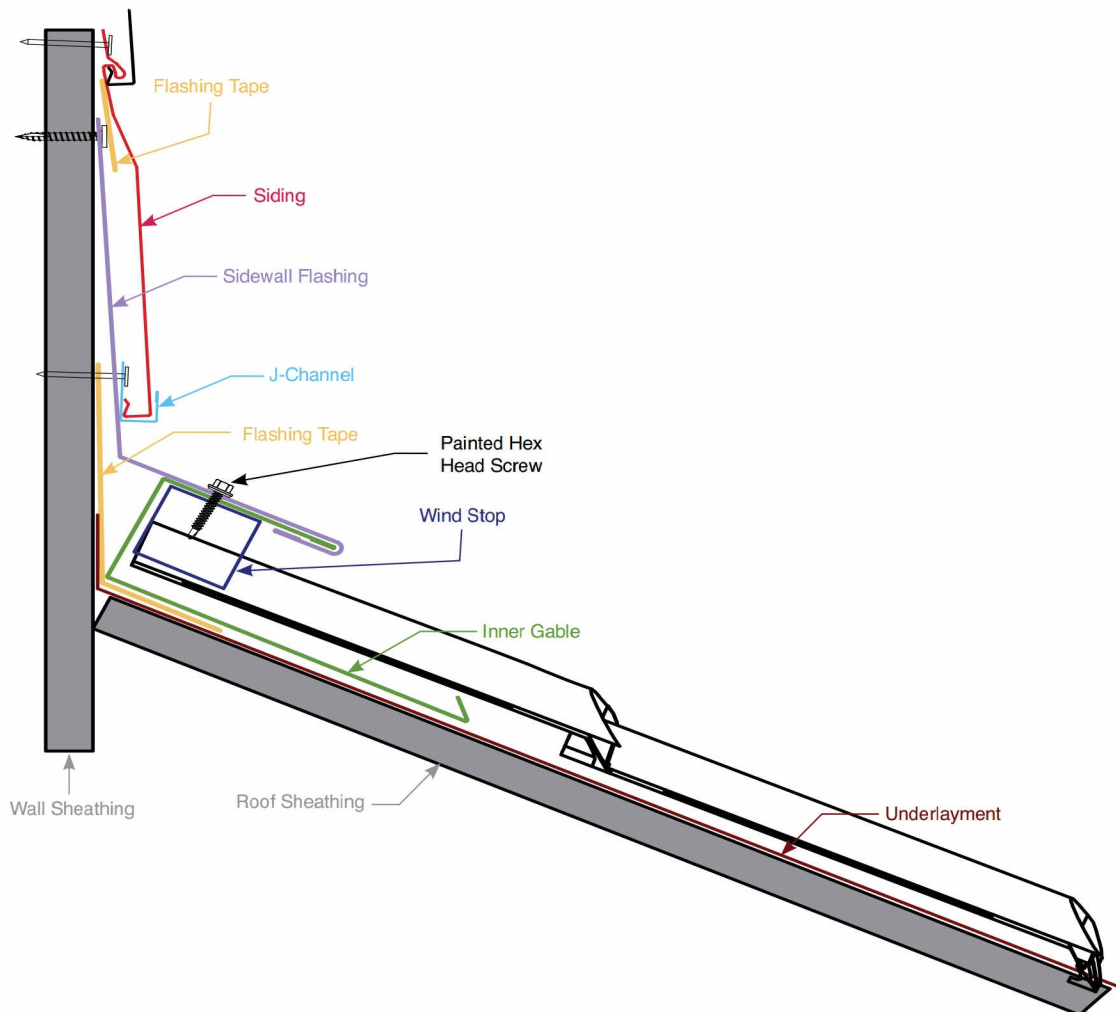
Sidewall Detail:

- 1.) Cut roof panel of the last row to the remaining width needed to meet the sidewall.
- 2.) Install inner gable before the last panel, fastening every 12" just inside the water lock.
- 3.) Install the panel with the cut edge against the inner gable. Fasten the top of the inner gable into the panel at the high spots with pan head screws.
- 4.) Install the sidewall flashing over both the panel and the inner gable, hooking the sidewall flash hem on to the edge of the inner gable.
- 5.) Fasten the sidewall flashing into the sidewall or fit behind the siding to secure.
- 6.) When installing along a chimney, be sure the sidewall flashing is sealed to the brick or a reglet is cut into the mortar joints. *For a 130 MPH wind rating, fasten through the sidewall flashing into the tile panel every 12".*



Endwall Detail with Inner Gable:

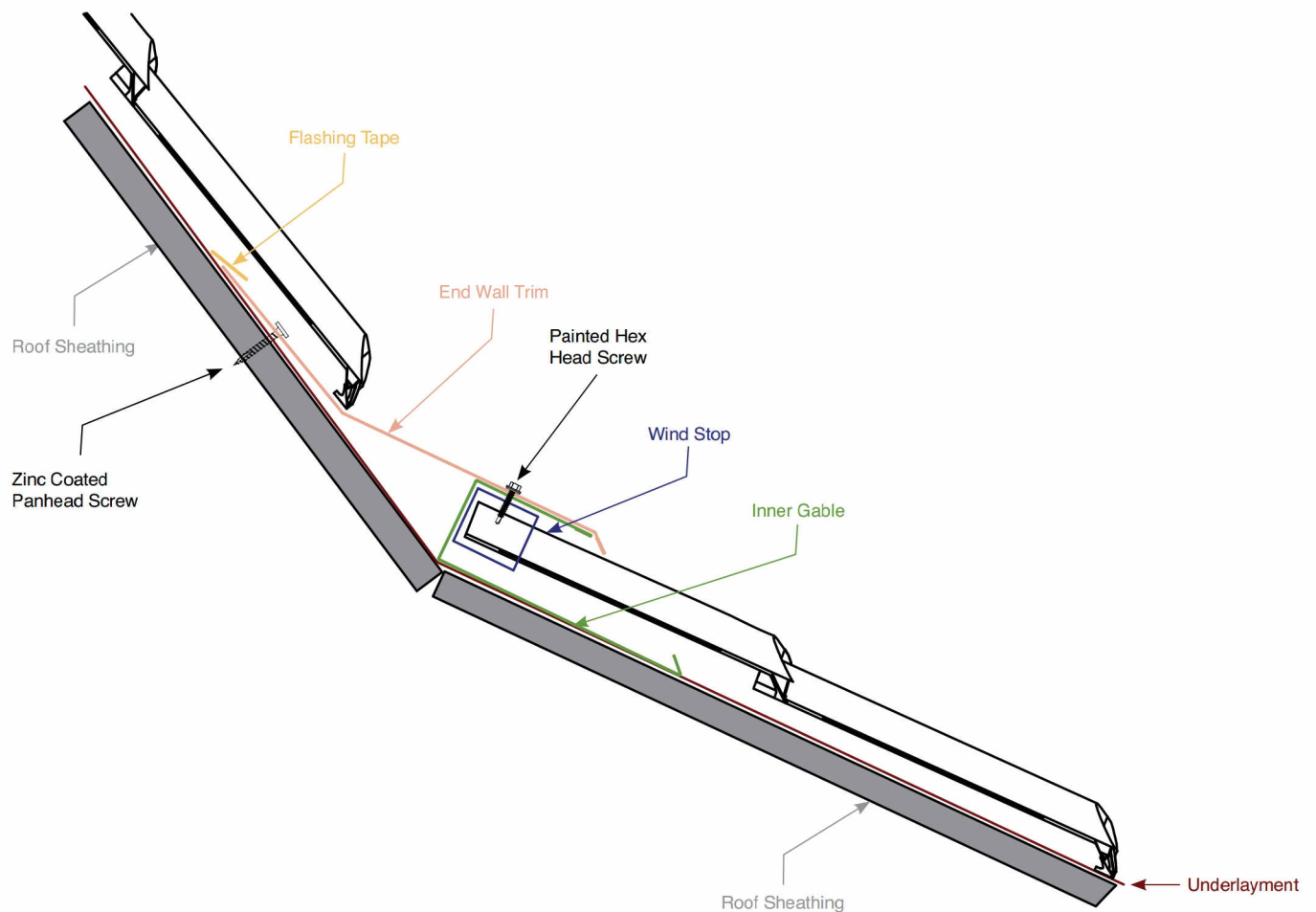
- 1.) Fasten the inner gable to the roof deck with panhead screws every 12".
- 2.) Fasten the endwall flashing into the endwall with the hem hooked into the inner gable.
- 3.) Lap endwall flashing behind the siding or seal to the endwall as needed.
- 4.) When installing up to a chimney, be sure counter/endwall flashing is sealed to the brick. *For a 130 MPH wind rating, fasten through the inner gable into the tile panel every 12".*



Transition

Transition Detail:

- 1.) Install inner gable, sealing the bottom to the roof deck at the roof angle change.
- 2.) Install the transition flashing with the lower hem hooked into the inner gable.
- 3.) Install the upper roof section first over the transition flashing along the bottom edge, filling the voids with Bird Stop (foam) or Bird Guard (steel).
- 4.) Then install the lower roof section under the transition flashing, fitting the panels all the way up into the inner gable. *For a 130 MPH wind rating, fasten through the inner gable into the tile panel every 12".*





Tile

Order/Estimating Sheet

All quantities to complete installation need to be verified by contractor and or Installer Quality Edge will only honor ordered amounts.

Standard Colors

Terracotta 105 (TCOT)_____

Brick Blend 103 (BRK)_____

Jade 101 (JAD)_____

Tuscan Stone 102 (TSC)_____


Weathered Colors

Weathered Clay 112 (WLCLA)_____

Weathered Canyon 110 (WLCAN)_____

Weathered Sage 111 (WLSAG)_____


Weathered Sequoia 113 (WLSEQ)_____

1.  4-Course Tile Panel A

Tile panel is 4 course tall, Panel is 20 5/8" by 48". Coverage is 48 sq./ft./box. Exposed area: 18.17" x 47.20"

8 pcs/Carton
16 pcs equals 1 square, 100 sq. ft.


2048STP _____ / _____ Ctns

6.  Ridge Cap End Closure E

Used to close of end of cap for ridge/hip/rake/gable as needed.

10 pcs/Carton


1RCECST _____ / _____ Ctns

2.  2-Course Tile Panel A

Tile panel is 2 course tall, Panel is 20 5/8" by 24". Coverage is 24 sq./ft.

8 pcs/Carton
32 pcs equals 1 square, 100 sq. ft.


2024STP _____ / _____ Ctns

7.  Inner Gable - Black F

Installed under outer gable piece, on gable/rake edges. 2" tall 10 ft. long. Used to flash and secure outer gable, side wall and end wall trims. Also used for non-vented ridge applications. Inner gable can also be used as a non-vented c-closure in endwall applications.

4 pcs/Carton


2IGST10BLK/ _____ Ctns

3.  1.5 EL T-Style Drip Edge B

Used at eaves to match tile roofing. 10 ft. long, 1.5" tall.

10 pcs/Carton


1.5TDST10 _____ / _____ Ctns

8.  Outside Gable G

Installed over inner gable, on gable/rake edges. 6" tall 10 ft. long.

10 pcs/Carton


6OGST10 _____ / _____ Ctns

4.  Hip/Ridge Cap C

Used for hip/ridge installation over vented-C. Option B; can be used to cover rake and gable trim caps. For ridge vent use over C-closure; for non vented gable use over inner gable. 4 ft. long.

10 pcs/Carton


RCST4 _____ / _____ Ctns

9.  Side Wall Flashing H

Installed over inner gable, at end and side walls. 6" tall 10 ft. long.

10 pcs/Carton


6SWFST10 _____ / _____ Ctns

5.  2" C-Closure Vented - Black D

Used at vented ridge 10 ft. long, 2" tall

4 PCS/Carton


2CCVST10BLK/ _____ Ctns

10.  Endwall Trim I

Installed over inner gable, at end and side walls. 6" on roof 4" up the wall. 10 ft. long.

10 pcs/Carton

6EWST10 _____ / _____ Ctns

11. **2" Valley Closure - Black** J
Option A Valley (Hidden)

*Installed in valley 2 pcs needed per 10 ft.
 (Plus one piece of valley closure)
 2" tall, 11" wide, 10 ft. long.*
4 PCS/Carton

2VCST10BLK/ _____ Ctns

16. **10-16x1 1/4" Roof Screw**
(Painted)


*10-16 1-1/4". Used anywhere an exposed
 fastener is needed.*
QTY 1,000/Ctn (10 bags of 100)
Standard colors

MRS1.25/ _____ Ctns


12. **Valley Closure Cap** K
Option A Valley (Hidden)

*Installed over valley closure.
 3.25" wide, 10 ft. long.*
10PCS/Carton

3VCCST10/ _____ Ctns

17. **10-16x1 1/4" Roof Screw (Mill)**

80 screws per square. 10-16 1-1/4".
QTY 1,000/Ctn (Bulk Packed)

MRS1.25M/ _____ Ctns


13. **019x24" WL W-Valley** L
Option B Open Valley

*Installed in valley on roof deck. 1-piece valley
 option. See install instructions.
 24" wide, 10 ft. long.*
Sold by piece

24WVST/ _____ Ctns

18. **10 - 12x2" Roofing Screws**

*2". Mill 80 screws per square of job.
 Low profile self drilling square drive.*
QTY 1,000/Box (bulk packed)

MRS2M/ _____ Ctns

14. **24"x25' Trim Coil**

*Used to make custom parts and flashing on
 site. 24" wide, 25 ft.*
1 roll/Carton

T25G/ _____ Ctns

19. **Bird Stop 36" L,** M
CI-7 Foam Material


*Installed under tile at eave to close off
 barrel opening. 3 ft. long, 2" tall.*
24 PCS/Carton

BIRDSTOP/ _____ Ctns

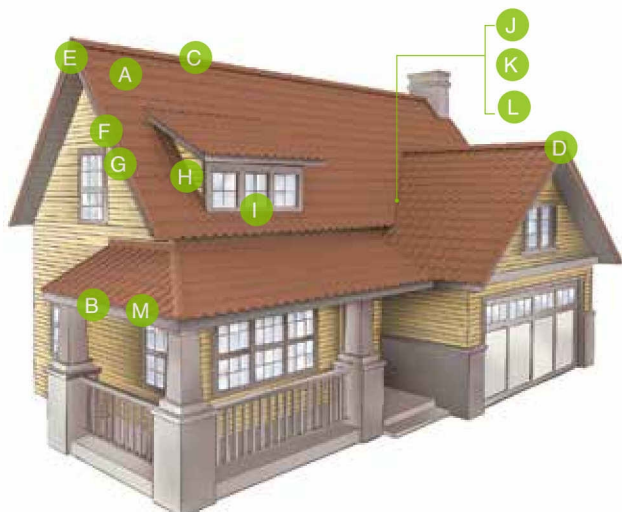
15. **Rolled Ridge Vent**


Used at ridge to vent.
10.5" x 20'; 1 roll per box.

TARV/ _____ Ctns

20. **.019 GAL Bird Guard - 36" L** M

*Installed under tile at eave to close off
 barrel opening. 3 ft. long*
48 PCS/Carton

BIRDGUARD/ _____ Ctns



21. **Weep Trim** N

*Used in areas that require drainage. 3"
 wide, 10 ft. long.*
14 PCS/Carton

3WTSE10BLK/ _____ Ctns

22. **Touch Up Paint Brush**

Standard colors only.
1 oz.

BRUSH/ _____ Ctns



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