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SPANISH TILE

Installation Guide

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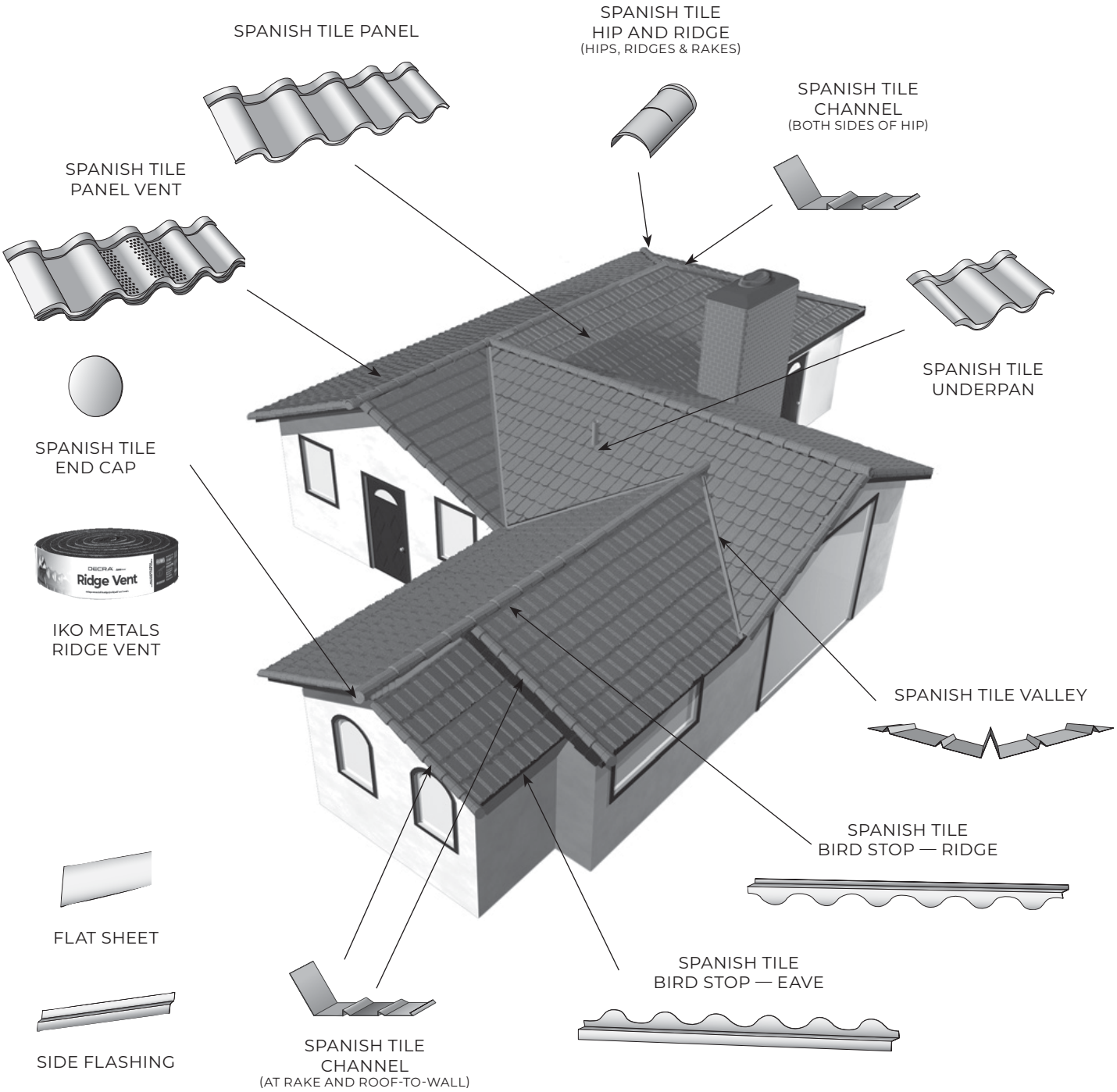
SPANISH TILE

INSTALL GUIDE | DIRECT-TO-DECK

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Spanish Tile Roof Overview



Stacked 2 x 2s used at hip, ridge and rake/gable to attach accessories. Additional buildup may be required depending on roof slope.

Spanish Tile panel vents should be installed on the last full course below the ridge and no more than 4 feet down from the peak of the roof facet. Panel vents should NOT be used for air intake.

Introduction

The instructions and drawings included here are intended for use by professional roofing contractors, as a general guide for the installation of the Spanish Tile profile. The materials and methods specified help maintain the overall integrity of the roofing system. These instructions are not intended to address all aspects of roofing installation; a quality installation ultimately depends on the workmanship of the roofing contractor. Information regarding alternative situations not covered in these instructions can be obtained by contacting IKO Metals USA, Inc. Do not use LEAD, STAINLESS STEEL or COPPER with this steel roofing system because they are dissimilar metals and are not compatible. Failure to properly install all roof system components can negatively impact overall performance and will void product warranty protection.

Safety

Adhere to recommended safe roofing practices and applicable health and safety regulations. Wear appropriate clothing and use safety equipment, protective eyewear and fall protection. Light, soft-soled shoes are recommended. Use proper tools and keep the roof clear of debris as you work.

Tools

Spanish Tile panels and components are best cut with tin/aviation snips, a table saw or a circular saw equipped with a “cool cut” metal cutting blade.

Abrasive concrete- and metal-cutting blades in a power saw or high-rpm angle grinder can generate high friction heat at the cut edge. This will reduce anticorrosion zinc/aluminum alloy coating effectiveness to “heal” the cut edge, exposing premature corrosion. In all cases, wear eye protection!

Underlayment

One layer of roof underlayment is required before installing the Spanish Tile panels in both new construction and reroofing applications.

Underlayment shall comply with ASTM D226, Type I or Type II; ASTM D4869, Type I or Type II; ASTM D8257 for Synthetic Underlayment; or ASTM D1970. Check local code requirements as additional requirements may apply.

Roof Slope

The minimum roof slope for Spanish Tile application is 3:12.

Deck Preparation

The roof deck must be level and square for proper installation. If it is not, shim to make any adjustments. It is required that a layer of underlayment be used before applying the Spanish Tile panels.

New Construction: Prepare roof deck to meet local building codes.

Reroof Tear-off (Skip/Spaced Sheathing) or Over-Asphalt Shingle: If tearing off old roof, clean and prepare deck to meet local building codes.

Panels may be installed over existing asphalt shingles or applied over existing spaced sheathing provided the space between the boards is filled as necessary to provide a base for fastening.

If installed over existing asphalt shingles, cut shingles back from the eaves and rake/gable edges approximately 8 inches. Remove existing hip and ridge material. Note: International Building code allows for no more than two layers of roof covering on a roof deck.

Estimating Sheet

The Spanish Tile Estimating Sheet is available at **IKOMetals.com.**

Codes and Requirements

Refer to local codes and/or ICC Reports. A link to IKO Metals USA, Inc. — DECRA Roof Systems ICC Evaluation Service Reports are available at **IKOMetals.com.**

Fasteners

Use corrosion-resistant screws, size #10 hex (1/4-inch hex head x 1-1/2 inches long. Use fasteners of sufficient length to penetrate through the sheathing (deck) by at least 1/2 inch. For high-wind details, see website.

Venting Preparation

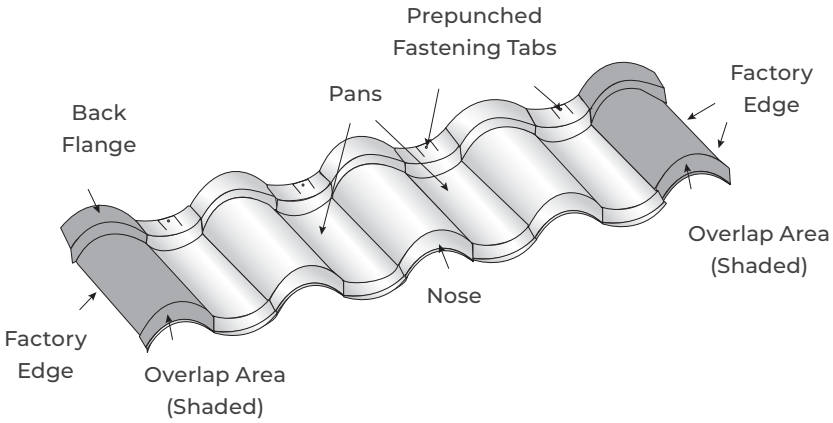
If using IKO Metals Ridge Vent material, prepare the deck for ridge venting by cutting both sides of the plywood 3/4 inch from the center of the ridge to expose attic space, or as required by local codes. Refer to Venting section on page 18 or IKO Metals Ridge Venting wrapper for additional installation details. If Spanish Tile Panel Vents will be used, *see pages 16 – 17 of this guide*.

Measuring and Cutting Panels

Measuring: Measurements are made on the roof; however, the panels are normally marked and cut on the ground. Panels may be cut with a table saw, circular saw with "cool-cut" metal cutting blade or tin snips. If the panels are cut on the roof, all residue and shavings must be completely removed.

Panels: The Spanish Tile panels are formed from corrosion-resistant aluminum-zinc alloy-coated steel with a protective coating of ceramic-coated stone granules that provide an attractive appearance. The Spanish Tile Hip & Ridge, Spanish Tile End Cap, both Spanish Tile Bird Stops, Flat Sheet and Side Flashing are produced in a similar manner. The Spanish Tile Underpan, Spanish Tile Channel and Spanish Tile Valley are also produced in the same manner, but are not stone-coated.

Spanish Tile Panel



Do not rack panels.

Avoid creating a pattern with the light or dark color patches unless it is aesthetically pleasing.

Do not create a pattern.

INSTALLED EXPOSURE: **14 1/2" X 39 1/2"**

PANELS PER SQUARE: **25.1**

NOMINAL INSTALLED WEIGHT: **160 LBS./SQUARE**

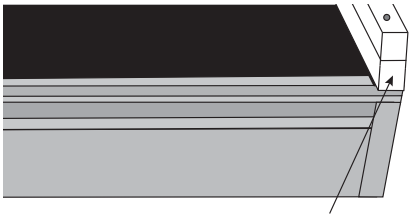
Spanish Tile panels are not designed to be installed over irregular surfaces.

Do not use LEAD, STAINLESS STEEL or COPPER with this steel roofing system because they are dissimilar metals and are not compatible.

Preparation for Panel Installation

Gables, Hips and Ridges: Over a prepared deck, position two stacked 2 x 2s flush along the rake/gables, up the center of the hips and along the ridges.

Additional lumber (1 x 2 or 2 x 2) may be needed on top of the two 2 x 2s at the hips and the ridges to allow for proper attachment of the Tile Hip & Ridge piece, determined by roof pitch.



2 x 2s Stacked

Spanish Tile Channel: Install Spanish Tile Channel at rake/gable *(see Diagram 1),* roof-to-wall and along both sides of the two 2 x 2s at the hip *(see Diagram 2).* Overlap channel pieces 6 inches. Fasten to deck by positioning fasteners just Inside the hem. Apply roof sealant to the fasteners. Spanish Tile Channel is broken under 90 degrees to fit at the hip; hand bending will be required to fit tight along the 2 x 2s at the rake gable, or side wall areas. Make sure the Spanish Tile Channel extends beyond the fascia at least 1 inch or onto a lower roof area. Spanish Tile Channel extension over facia may be bent at a downward angle. Paint visible areas of Spanish Tile Channel prior to installing panels.

Prepaint vertical/exposed portion of Spanish Tile Channel as needed prior to installing panels.

Spanish Tile Valley: Install Spanish Tile Valley or standard concrete valley metal (with same specifications as Spanish Tile Valley) along all valleys. All valley metal should be minimum 26-gauge, prefinished aluminum-zinc alloy-coated steel. Valley metal should be a minimum 16 inches wide, with a minimum center upstand of 3 1/4 inches. In new construction, the metal valley flashing must have one layer of Type 30 felt underlayment, 36 inches wide, or ice-and-water shield underneath as required by local building code.

Install the valley metal, overlapping the valley pieces a minimum of 6 inches. Secure the valley metal to the deck. Fasteners should be positioned outside of the last rib on either side of the Spanish Tile Valley *(see diagram below).* Make sure the end of the Spanish Tile Valley extends beyond the fascia at least 1 inch or onto a lower roof area.

Spanish Tile Valley extension over fascia may be bent at a downward angle. Paint visible areas of Spanish Tile Valley prior to installing panels.

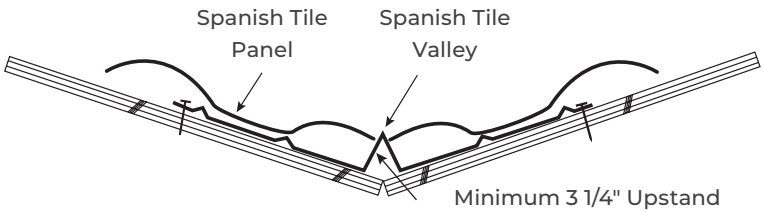


Diagram 1

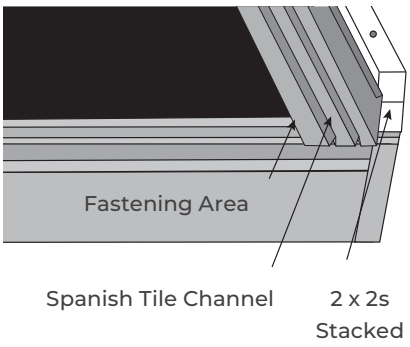
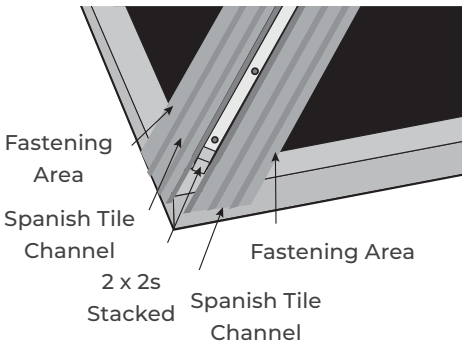
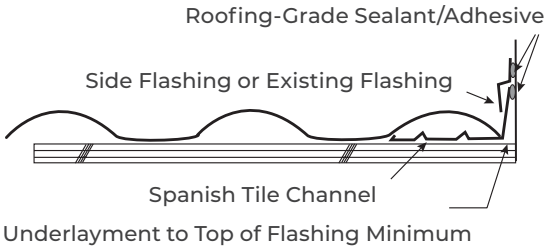


Diagram 2



Roof-to-Side Wall w/ Side Flashing: If normal wall flashing is present, tuck Spanish Tile Channel behind existing flashing. If no existing flashing is present, counter flash with side flashing. Seal Spanish Tile Channel to the wall with a roofing-grade sealant/adhesive. Apply sealant to the side flashing before attaching to the wall.



First Course: For easier panel installation and alignment, install a 1 x 4 behind the first course of panels. The front edge of the 1 x 4 should be 15 1/2 inches back from the edge of the fascia. Fasten the 1 x 4 to the deck using a screw that will fit flush to the 1 x 4 and is long enough to penetrate the deck securely.

Panels — First Course: Fasten the first course of panels through the prepunched fastening tabs to the 1 x 4s using #10 hex (1/4-inch hex head) x 1-1/2-inch-long screws that will fit flush to panel and are long enough to penetrate the deck securely. Panels can be installed either right to left, or left to right.

Drive the screws straight down through the panel perpendicularly to the deck into the 1 x 4. This will ensure a tight finish and straight alignment as you work up the roof *(see diagram below)*.

Only fasten the back of the first course of panels. The nose of the first course will be fastened after installing a minumim of two courses and the Spanish Tile Bird Stop — Eave is in place. See Spanish Tile Bird Stop — Eave Section *(Page 12)*.

Fastening sequence when installing LEFT to RIGHT, position panel screws in the 1, 3, 2 positions. Finish with screw in position 4 AFTER next panel is installed and 1, 3, 2 positions. Continue using same sequence. Reverse order when installing RIGHT to LEFT. *(See fastening order diagram below)*.

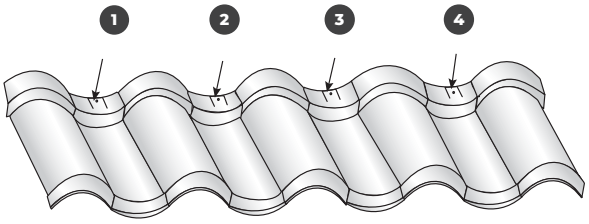
Fasteners:

- First course — tab on back of panel, #10 hex (1/4-inch hex head) x 1-1/2-inch-long (flush to panel)
- First course — front of panel, #10 hex (1/4-inch hex head) x 1-1/2-inch-long, corrosion-resistant screws (color-coordinated)
- Fasten through prepunched fastening tabs.
- Fastening order (installing left to right): 1, 3, then 2 and 4*
- Fastening order (installing right to left): 4, 2, then 3 and 1*

*Install after next panel.

Paint visible areas of Spanish Tile Valley and Spanish Tile Channel prior to installing Spanish Tile Bird Stop — Eave or Spanish Tile Panels.

Drive screws straight down perpendicularly into the deck. Do NOT angle.



Roof Penetrations — Pipes and Vents

Roof penetrations should be flashed by installing standard roof jacks over a corrosion-resistant underpan, which drains over the panel immediately below, or as required by code.

Use the Spanish Tile Underpan to properly flash pipe penetrations. Cut the underpan to fit tightly around the plumbing stack. The Spanish Tile Underpan must fit tight over the lower field panel when positioned around the pipe.

Cut the pipe-flashing apron so it fits onto the underpan. Apply a roofing-grade sealant/adhesive on top and both sides. Finish with field panel by measuring and cutting panel to fit tight around pipe flashing.

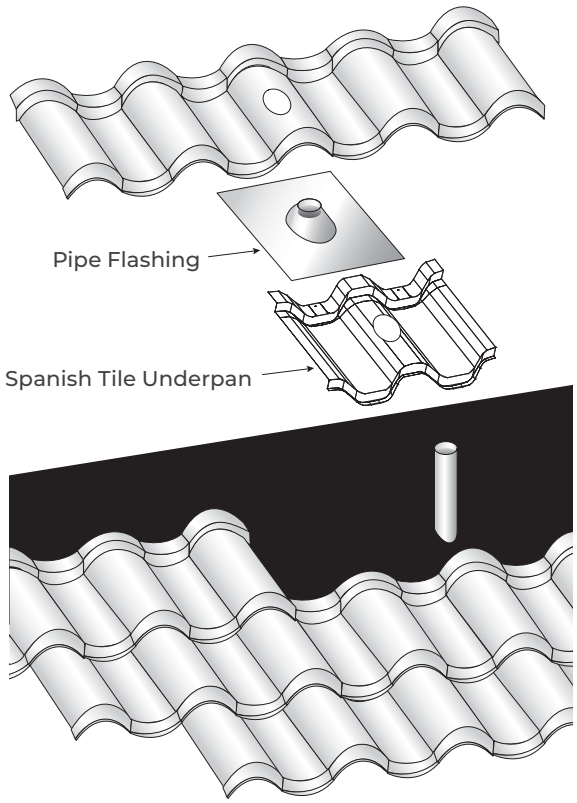
Cut hole in panel according to flashing profile. Align roofing panel and seal around base using a roofing-grade sealant/adhesive and finish with Touch-up Kit.

Care should be taken to adequately weatherproof the flashings and to support them with additional blocking or roof framing as necessary.

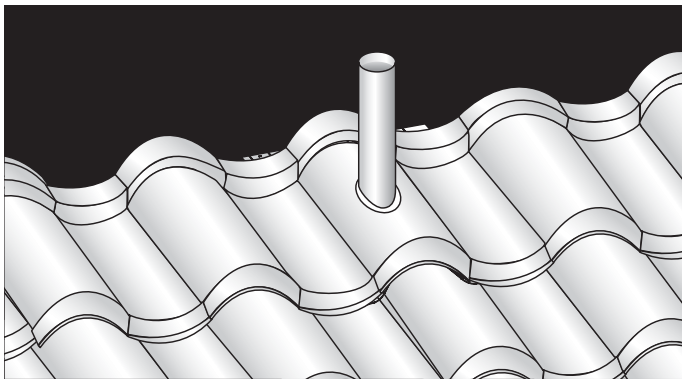
Paint pipes and flashings prior to installing panels.

For larger flashings, more than one Spanish Tile Underpan may be required.

A roofing-grade sealant/adhesive, compliant to ASTM C920, should be used.



Do not use LEAD, STAINLESS STEEL or COPPER with this steel roofing system.



Headwall, Chimneys, Skylights and Dormers

The following steps detail the procedure for headwall installations around chimneys, skylights or dormers. Run full panels up to the penetration as noted in the Chimney Illustration below. All the open areas will be filled in with cut panels.

1. Start by measuring from the full panel below the chimney up to the base of the chimney. Cut panel(s) to fit this area. Using a hand bender, bend each pan up 1" and fasten the panel(s). See Panel Installation — Ridge section.

   Install Spanish Tile Bird Stop — Ridge at the back of the cut panel(s) below the chimney.

2 3 Use the Spanish Tile Channel along the left and right of the chimney and counter flash with side flashing. Extend the Spanish Tile Channel 4 to 6 inches out over the top of the first panel below the chimney. See Roof to Side Wall.

   Panels to fit the left and right sides of the chimney will be measured, cut and fit into the Spanish Tile Channel, similar to Roof-to-Wall detail. See Roof to Side Wall.

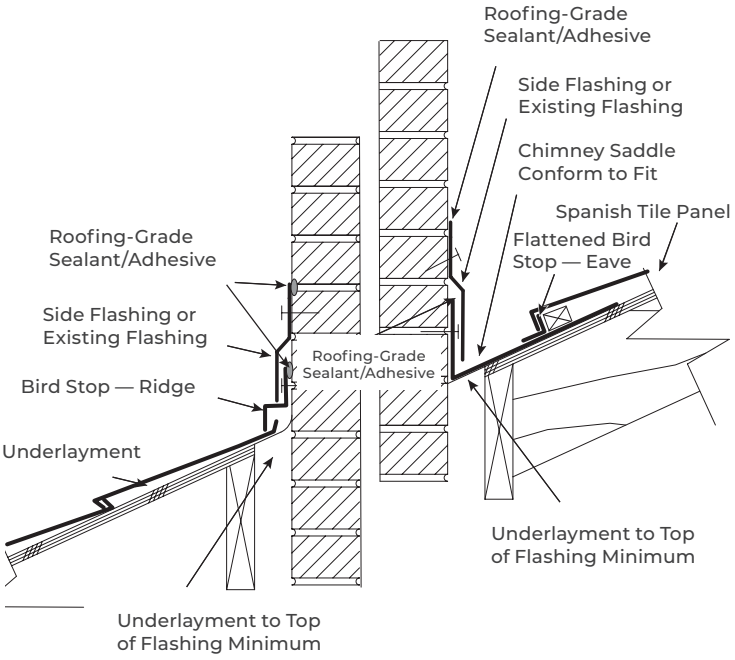
4. Flatten bird stop eave drip edge. Install flush against 1x4 and counter flash with Spanish Tile panel. Secure with #10 x 1-1/2" screw/s.

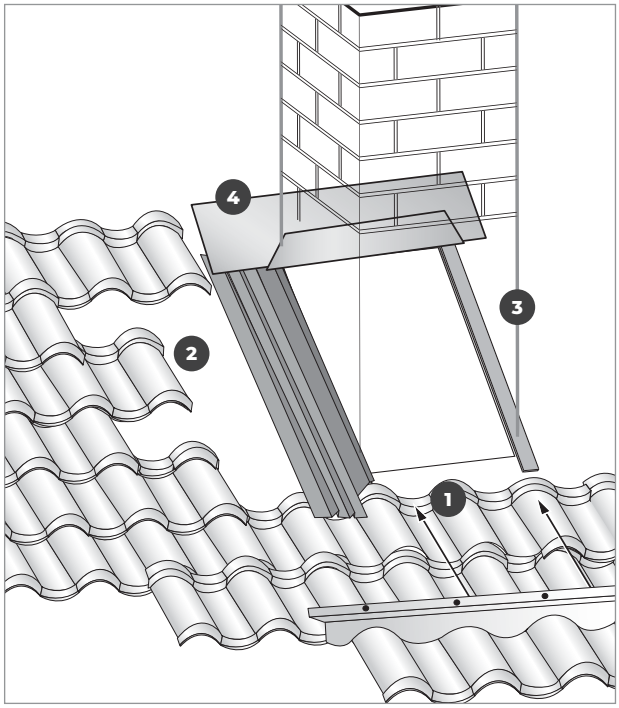
   The area directly above the chimney must be flashed and counter flashed. Measure the width of the chimney. Use a chimney saddle (do not use lead, copper or stainless steel); or a piece of flat metal can be cut and bent to fit around the chimney. Cut, conform and install the chimney saddle to fit above the chimney.

   In the case of a cricket above the chimney, finish like valley. See Spanish Tile Valley.

   For brick and stucco, counter flash over the top of the chimney saddle. For siding, tuck the chimney saddle up under the siding.

   Use IKO Metals Ridge Vent to fill gaps as needed.





For additional details, visit **IKOMetals.com.**

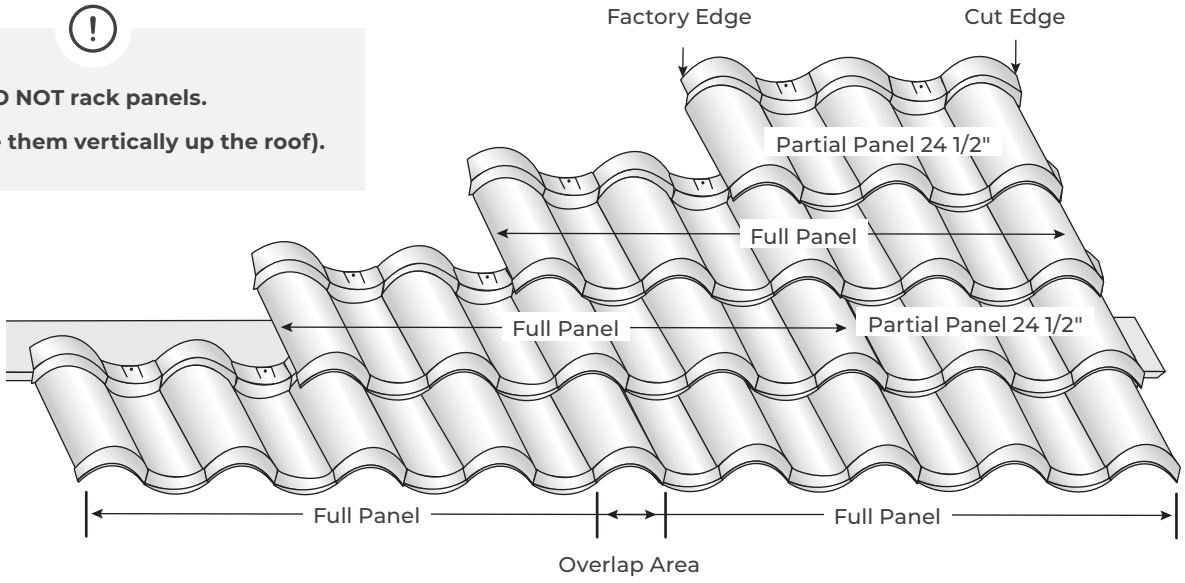
Panel Layout and Fastening

Panel Layout — Field: Panels will be laid out and fastened as you go along, starting at the fascia and working up to the ridge. Fasten only the back of the first course of panels at the eave. The nose of the first course will be fastened after the Spanish Tile Bird Stop — Eave is in place.

Start with a full panel and continue along the first course. Start second course with a cut panel, measuring 24 1/2 inches *(see diagram below)*.

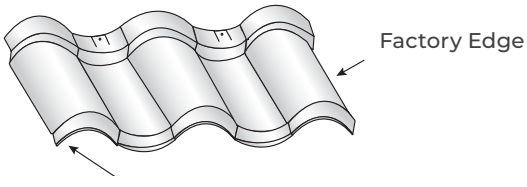
DO NOT rack panels.

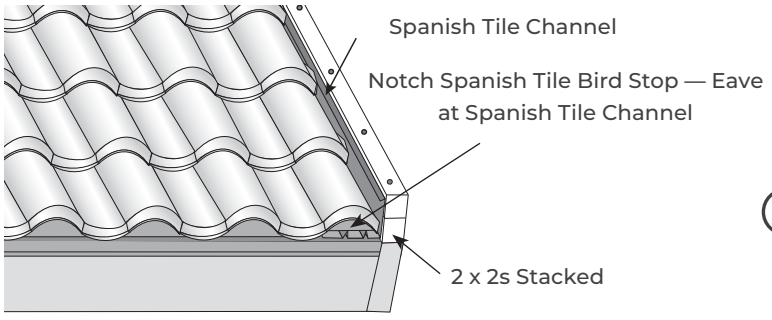
(DO NOT line them vertically up the roof).

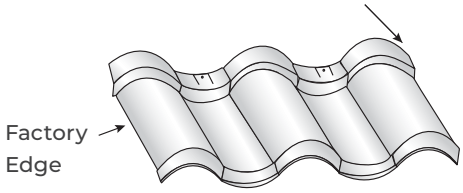


Measure panels and make cuts accordingly so the cut edge starts (or terminates) in the Spanish Tile Channel or Spanish Tile Valley *(see diagram below)*.

Panels can be cut from either side *(see diagram right)*. Save cut-off pieces for use on opposite side terminating into Spanish Tile Valley or Spanish Tile Channel.



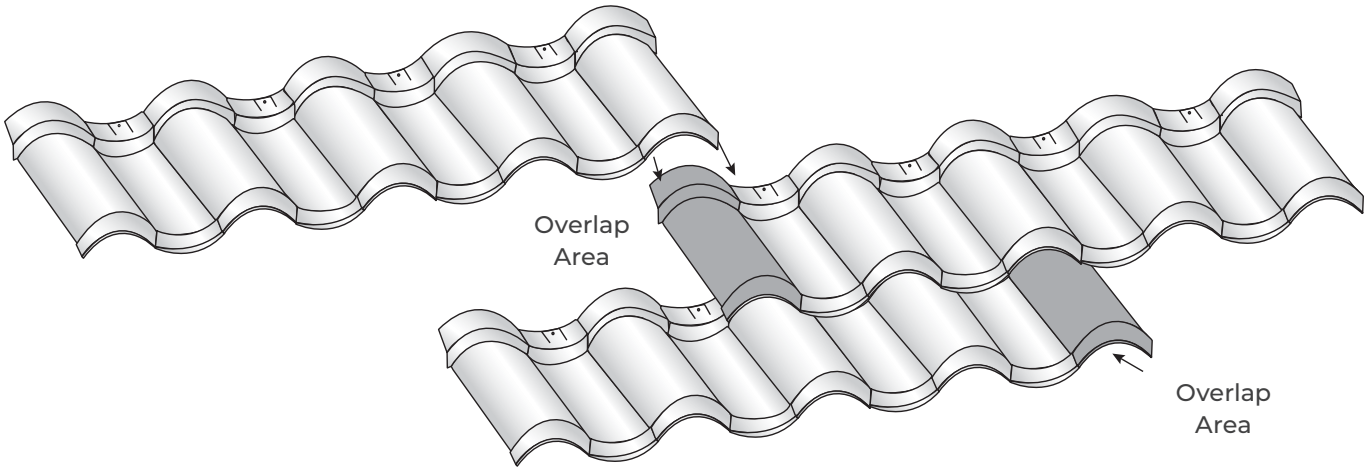




Use suggested panel offset.

Avoid creating a pattern with the light or dark color patches unless it is aesthetically pleasing.

Panel Layout — Direction: The Spanish Tile Panels can be laid right to left or left to right. The overlapping panel must cover the overlap area *(see diagram below)*.



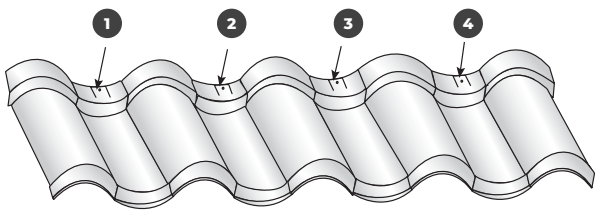
Fastening Panels — Field:

Attach the second and subsequent courses of panels by locking the front of each panel into the back of the panel below. Fasten each panel to the deck with #10 hex (1/4-inch hex head) x 1-1/2-inch-long, corrosion-resistant screws through the prepunched fastening tabs along the back of the panels *(see diagram below)*.

Drive the screws straight down into the deck when fastening the panels, then:

- Fasten through prepunched fastening tabs.
- Installing left to right, fasten in the following order: 1, 3, then 2 and 4.
- Installing right to left, fasten in the following order: 4, 2, then 3 and 1.

*Install after next panel.



Keeping Courses Straight:

- Attach Spanish Tile Bird Stop — Eave after installing a minimum of two courses; place fastener at downturn of nose.
- Periodically check alignment using chalk lines at 14 1/2-inch intervals.
- Fasten panel screws in the 1, 3, 2 positions when installing LEFT to RIGHT. Finish with screw in position 4, only AFTER next panel is installed at 1, 3, 2 positions. See diagram.
- Slide panels into place; do not distort.
- Reverse direction each course.
- Floating screws: tip must penetrate the underside of the deck 1/4 inch.
- Work into valleys and hips where possible.

Make sure nose of panel is pulled flush and tight with panel below.

Spanish Tile Bird Stop — Eave: After installing a minimum of two courses above the eaves, install the Spanish Tile Bird Stop — Eave. Stone-coated Spanish Tile Bird Stop — Eave is required along the fascia. Paint exposed areas on the Spanish Tile Channel and Spanish Tile Valley prior to installing the Spanish Tile Bird Stop — Eave.

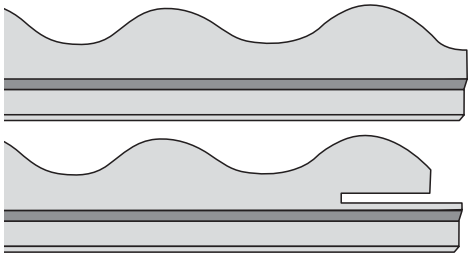
The Spanish Tile Bird Stop — Eave must be notched where it terminates into the Spanish Tile Channel. The right and left edges of the Spanish Tile Bird Stop — Eave are not symmetrical, but they are still notched in the same manner *(see diagrams right)*.

Install the notched Spanish Tile Bird Stop — Eave using #10 hex (1/4-inch hex head) x 1-1/2-inch-long, corrosion-resistant screws, color-coordinated. The fasteners will go through the nose of the panel and Bird Stop — Eave, and into the deck *(see diagram below)*.

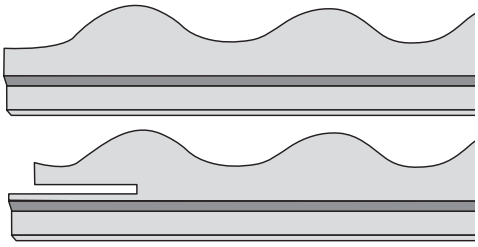
Continue to install Spanish Tile Bird Stop — Eave along eaves overlapping and fastening through the nose of the panel every 10 inches *(see diagram below)*.

Make sure Spanish Tile Bird Stop — Eave fits tight to the first course of panels without any gaps.

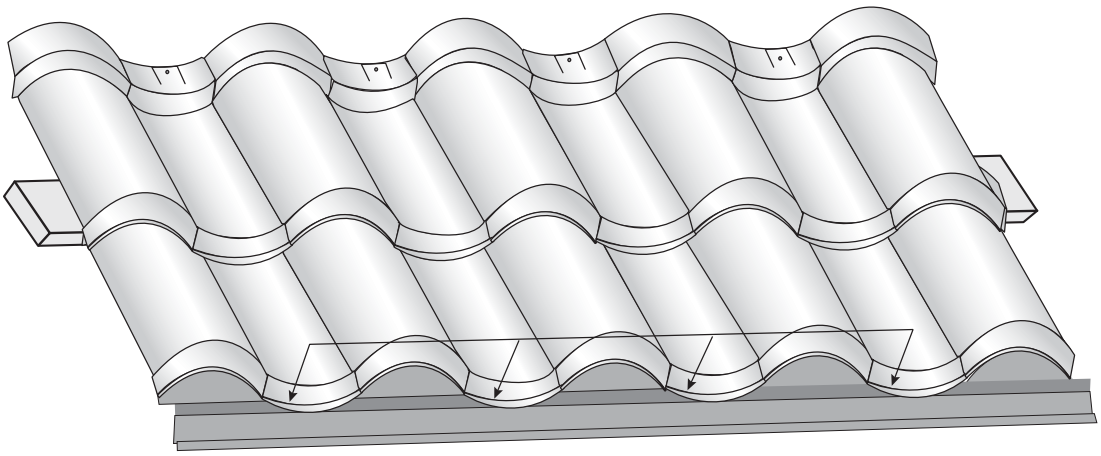
Right Edge



Left Edge



FASTENERS: For Spanish Tile Bird Stop — Eave, use #10 hex (1/4" hex head) x 1-1/2" long corrosion-resistant fasteners (color-coordinated).



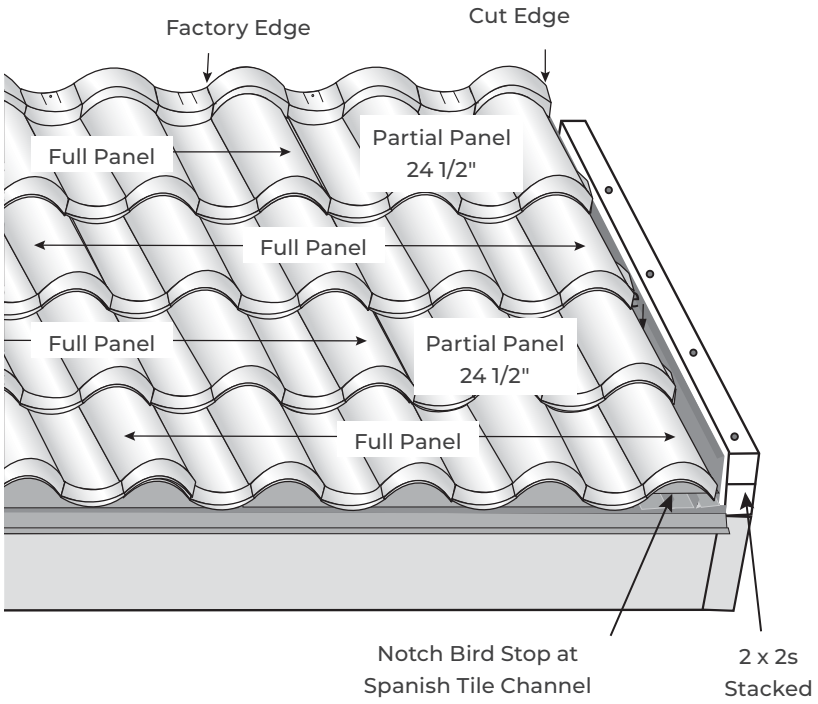
Install Spanish Tile Bird Stop — Eave and fasten through the front edge of the panel, off to one side of the low point.

Panel Installation

Panel Installation — Rake/Gable: When installing Spanish Tile Panels along the rakes/gables, the panels will terminate into the Spanish Tile Channel. See Spanish Tile Channel section *(Page 6)* for installation of Spanish Tile Channel and preparation prior to installing panels. Paint visible edge of Spanish Tile Channel before installing panels.

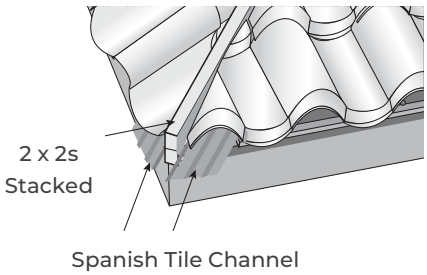
Continue installing the panels course by course, up to the 2 x 2s at the ridge.

Panel Installation — Hip: Along both sides of the hips, cut Spanish Tile Panels to fit into the Spanish Tile Channel. Paint channel prior to installing panels. Fit the panel into place and screw down. See Spanish Tile Channel section *(Page 6)* for installation of Spanish Tile Channel and preparation prior to installing panels.



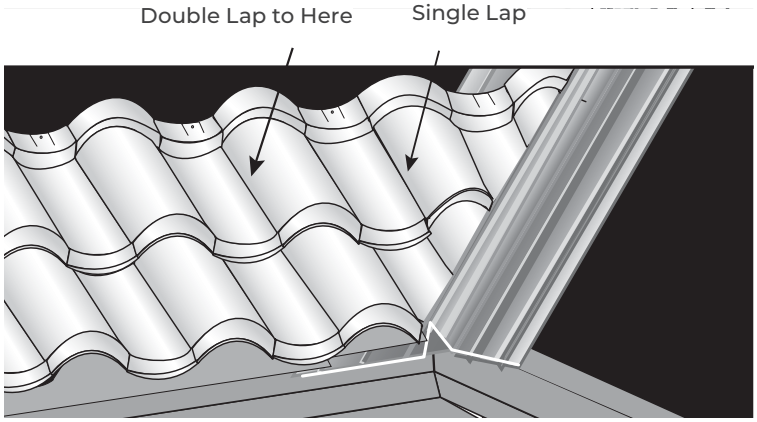
Prepaint vertical/exposed portion of Spanish Tile Channel and Valley prior to installing panels.

In situations where a panel is not fully engaged, use a colored screw through the nose to make the appropriate adjustment.



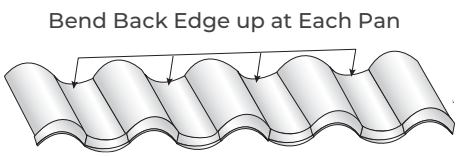
Panel Installation — Valley: When installing Spanish Tile Panels along the valleys, the panels will terminate into the Spanish Tile Valley. See Spanish Tile Valley Section *(Page 6)* for installation of Spanish Tile Valley and preparation prior to installing panels.

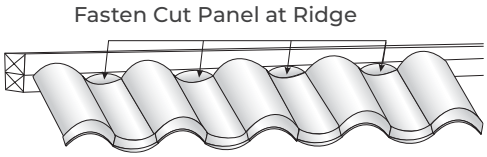
Measurements for valley cuts are made much like the hip cuts. Measure and cut the panels carefully so they fit tight against the Spanish Tile Valley. If a cutout panel at the valley is too small, lap over two pans to allow proper fastening.

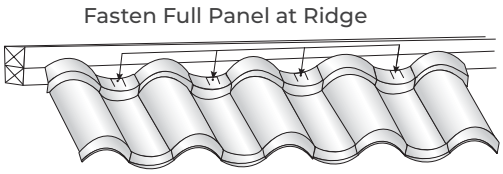


Ridge

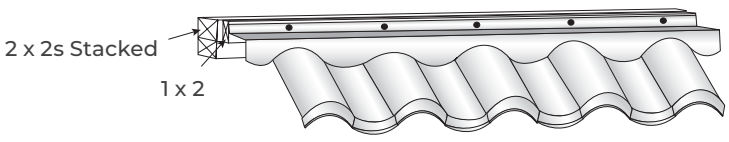
Panel Installation — Ridge: Install the panels course by course up to the 2 x 2s at the ridge. Cut the back of last (top) course so it fits tight against the two stacked 2 x 2s at the ridge. Use a hand-bender to turn up the pan portion of the Spanish Tile Panel 1" where it meets the two 2 x 2s *(see diagrams below).*

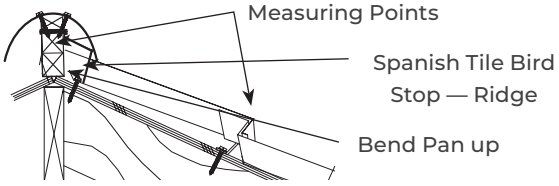






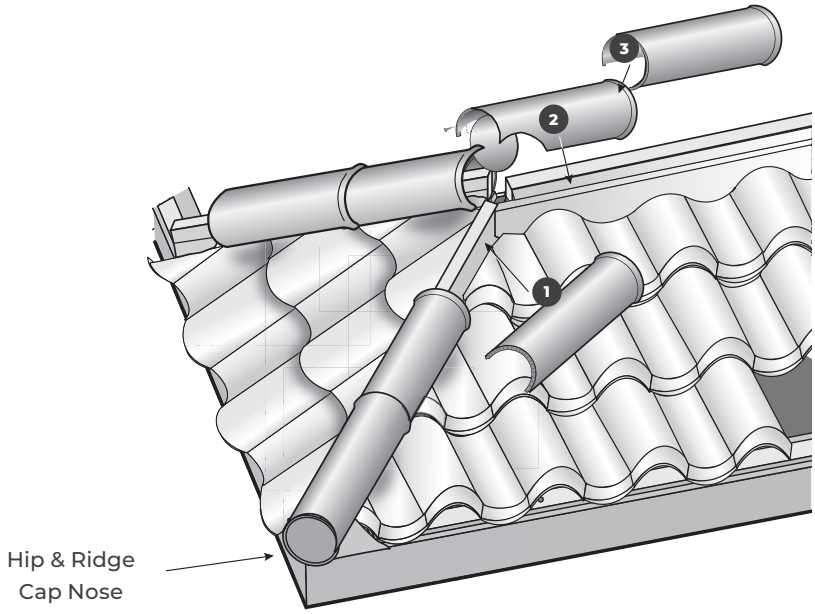
Spanish Tile Bird Stop — Ridge: Install the Spanish Tile Bird Stop — Ridge by lining it up with the back of the cut panel and attaching it to two stacked 2 x 2s, and overlapping the last course *(see diagram below.* If a full panel was used at the ridge, install a 1 x 2 along both sides of the 2 x 2s at the ridge, resting the 1 x 2 on top of the back of the panel. The 1 x 2 will be installed and fastened into the stacked 2 x 2s so the long side is against the 2 x 2s, and the short side rests on the panel. Next, install the Spanish Tile Bird Stop — Ridge by fastening it into the top of the 1 x 2 *(see diagram below).*

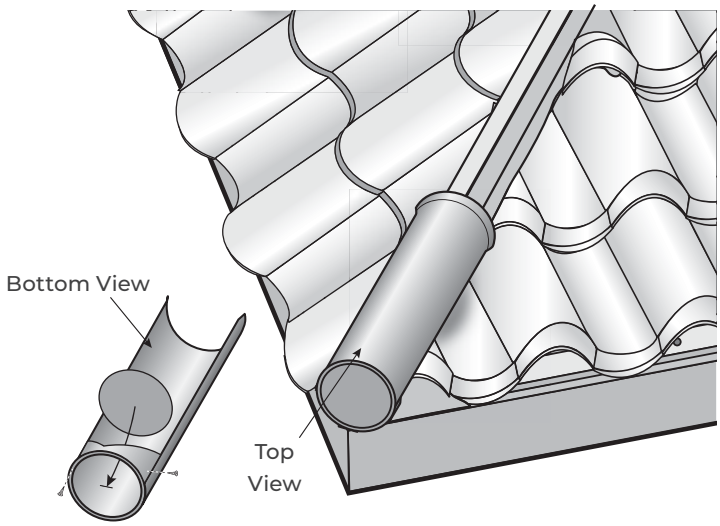




Hip & Ridge

Install Spanish Tile Hip & Ridge pieces along the rake/gables, hips and ridges with 14 1/2" exposure. Overlap the Hip & Ridge pieces and fasten through the nose into the two stacked 2 x 2s using #10 hex (1/4" hex head) x 1-1/2-inch-long, corrosion-resistant screws. At fascia/Spanish Tile Bird Stop — Eave, cover open end of Spanish Tile Hip & Ridge with a Spanish Tile End Cap *(see diagram below).* If a full panel was installed along the ridge, the Spanish Tile Hip & Ridge pieces will rest on top on the Spanish Tile Bird Stop — Ridge, rather than completely covering the top edge. Use a roofing-grade sealant/adhesive and an IKO Metals Touch-up Kit to finish at transition between hips.



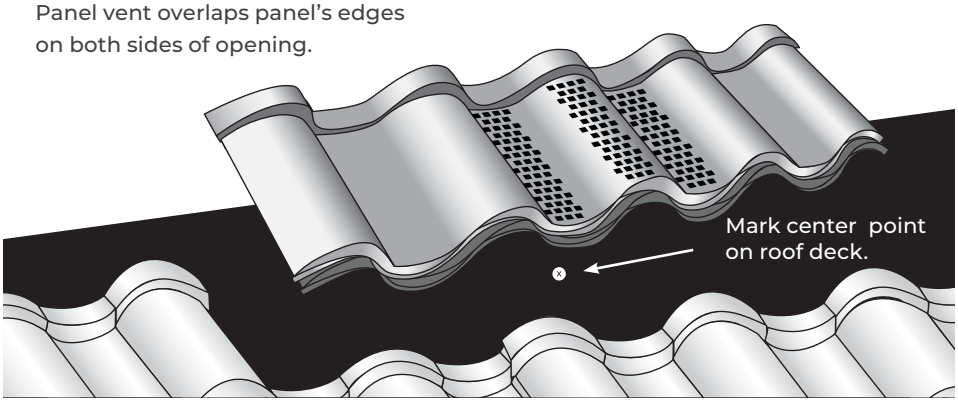


Panel Venting Option

Spanish Tile Panel Vents: If Spanish Tile Panel Vents will be used, determine the number of panel vents and estimate the approximate location. Install the Spanish Tile panels up to the approximate panel vent location. Carefully measure, mark and cut a rectangle hole 19 inches x 7 inches in the roof deck to match the opening of the underside of the Spanish Tile Panel Vent. Install the panel vents as you would normal Spanish Tile panels.

General Instructions

- Adhere to ALL recommended safe roofing practices and applicable health and safety regulations.
- Verify and follow all local building codes.
- Follow the “Spanish Tile Installation Guide” for detailed roof system install.
- Use fire-rated sealant if required by jurisdictional building code. Keep flashing membrane at least 3/4 inch away from primary vent screen opening on all sides.
- Do not install panel vents below or adjacent to valleys, or other areas of concentrated water runoff.
- Proper attic exhaust ventilation requires placement near the ridge for proper airflow — ideally in the last full roof course below the ridge line assembly. Refer to the drawing below for more detail.
- The Spanish Tile Panel Vent is intended to be an exhaust vent only. Ensure proper roof eave/soffit vent install per local code.
- Spanish Tile Panel Vents are designed to integrate into the Spanish Tile roof system.
- Failure to properly install all roof system components can negatively impact overall performance and will void product warranty protection.
- Instructions and drawings provided here are not intended to address all aspects of roofing installation; a quality installation ultimately depends on care in workmanship and attention to detail.



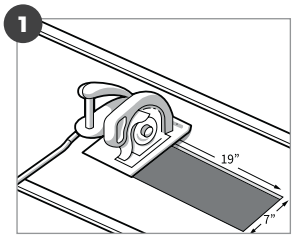
Spanish Tile Panel Vents should be installed on the last full course below the ridge and no more than 4' down from the peak of the roof facet. Panel vents should NOT be used for air intake.

Installation Details

In the roof panel course run where you want to install the Spanish Tile Panel Vent:

- Attach roof panel (located immediately before panel vent install position) with fasteners to batten strip.
- Set a roof panel to the far side of panel vent position to establish correct spacing allowance for panel vent install. Allow for the panel vent position to overlap the panel to each side with correct panel-to-panel overlap. Attach with fasteners to the batten strip.
- Mark a center point on the roof deck in the space defined for placement of the panel vent. Center point accounts for space width AND space height.
- Mark the roof deck for the attic cutout in sheathing, with the 19-inch W x 7-inch H cutout centered to the center point mark made in the vent panel space.
- Cut attic vent hole in sheathing, taking care to set saw blade depth equal to roof sheathing thickness.
- Install the primary vent screen per instructions (refer to detail on right).
- Set and install the panel vent unit, with each side of the panel vent overlapping the panels in course run on both left and right side of panel vent. Secure panel vent with fasteners to the batten strip.
- Continue installing the roof panel course run across to the roof edge/ roof course run termination point.

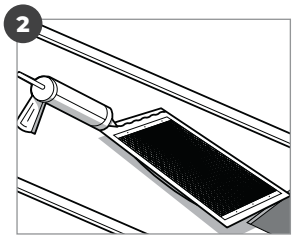
1



MARK AND CUT

Mark and cut a 19-inch-wide x 7-inch-high hole in the roof sheathing, centered between the vent panel layout lines or battens (as shown). Note: Set blade depth to sheathing thickness.

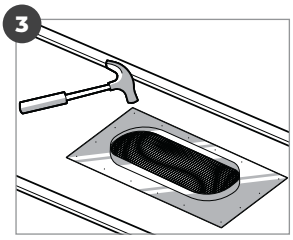
2



SEAL

Seal primary vent screen using exterior-grade sealant. Vent screen vertical flange inserts into cut hole for direct-to-deck roof panels; flange rises upward for on-battens roof install.

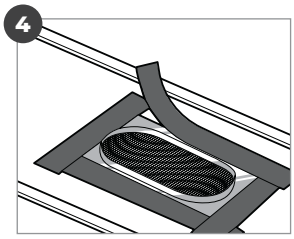
3



ATTACH

Attach at 4- to 6-inch centers around vent screen perimeter — use roofing nails or roof panel fasteners long enough to penetrate roof sheathing.

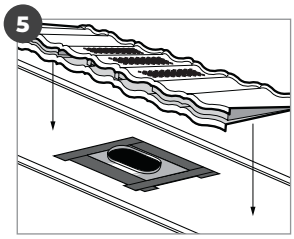
4



FLASH

Flash using approved peel-and-stick or membrane/mastic methods — apply bottom strip first, then sides and then top strip.

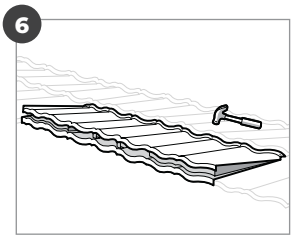
5



VENT INSTALL

Install panel vent unit directly over center of primary vent screen, in the roof panel course run. Reference specific panel vent style detail on back page. Reference the Spanish Tile Installation Guide.

6

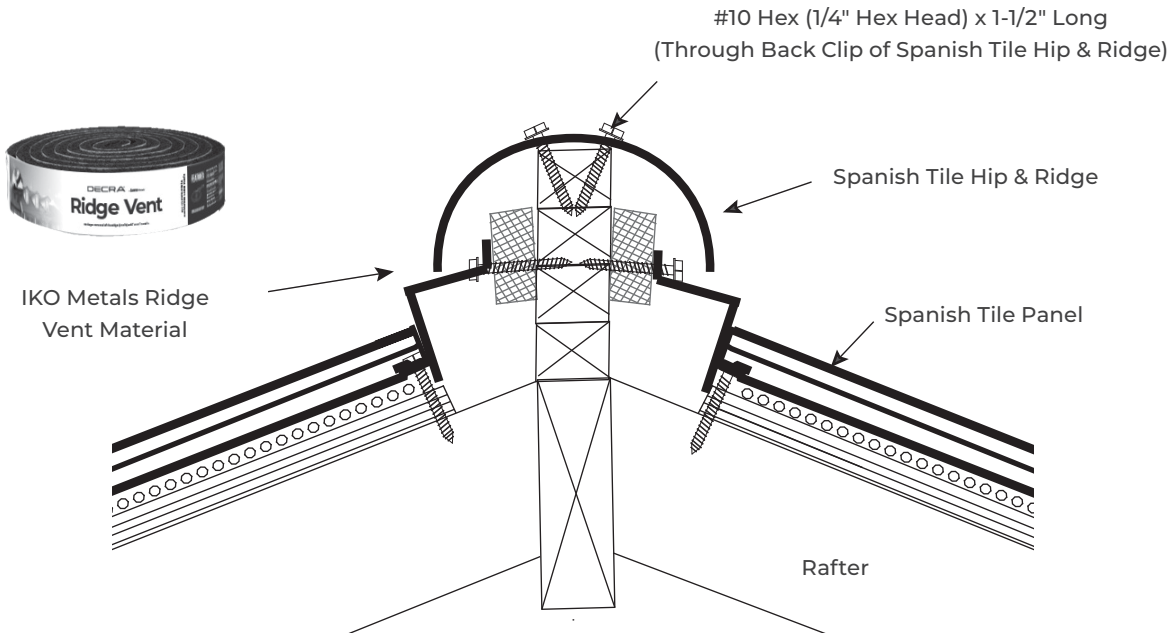


SECURE

Verify and comply with local building code. Follow the Spanish Tile Installation Guide detail for attaching roof panels below, above and to panel vent sides. Verify proper overlap of adjoining panels.

Ridge Venting

If a vented ridge is desired, stack 2 x 2 battens and install along the length of the ridge. The number of stacked 2 x 2s will be determined by the roof pitch. Use IKO Metals Ridge Vent material and fasten to both sides of the battens along the length of the ridge. Install Spanish Tile Bird Stop — Ridge along the ridge and attach to 2 x 2s, fastening through the IKO Metals Ridge Vent material. Cover the ridge with Spanish Tile Hip & Ridge and secure the Hip & Ridge trim through back edge into the 2 x 2.



Installation With Center Beam

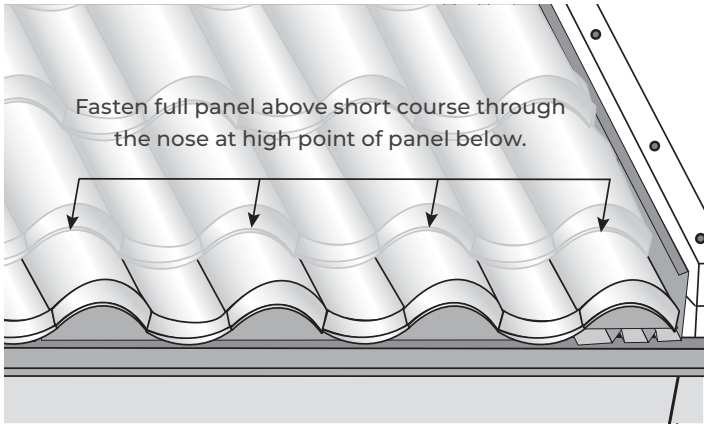
When installing a center beam:

- Install panels up to last full course before ridge according to installation instructions. Cut plywood deck 1 1/2 inches from center of ridge to expose attic space.
- Install 1 x 4 wood battens along both sides of the ridge to support the last course of panels. Cut, bend and install the last course of panels. Allow for a 1 1/2-inch bend.
- Stack the needed number of 2 x 2 and 1 x 2 lumber to the roof center beam to allow the attachment of the hip and ridge pieces. The exact number needed depends on the roof slope and configuration. Ensure that the 2 x 2 and 1 x 2 provide enough height for a 3/4- to 1-inch clearance between the hip and ridge piece and top panel. Roll the vent material to the bend-up on the last course of panels while removing the white paper to expose the adhesive dots. Apply pressure over the adhesive dots to hold the vent material in place during installation.
- Install the Hip and Ridge pieces, making sure the vent material is slightly compressed between the bend on the last course of panels and the hip and ridge pieces.

Short Course

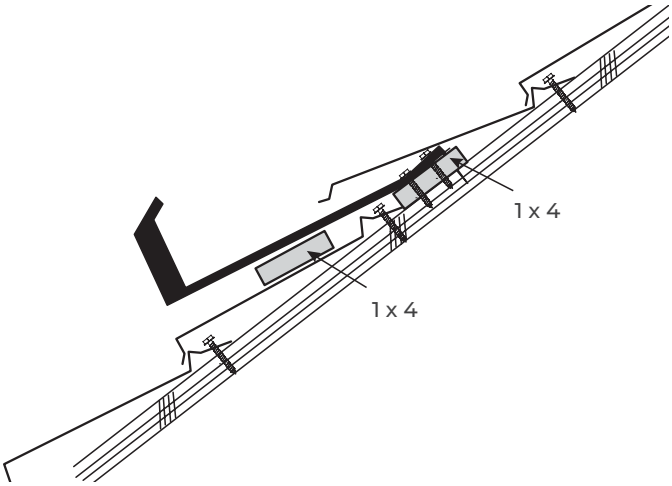
In some instances, a short course will be necessary. A short course is needed when a section of the fascia steps out and is not an even panel-width difference from the main fascia.

A short course is inserted by cutting off the back shelf of the lower panel and running the full panel above over the top. The full panel is fastened through the nose into the high point of the panel below.



Roof Jacks/ Steep-Pitch Roof

To use roof jacks, install two 4- to 6-inch 1 x 4s to support back of roof jack. Place padding between jack and panel to avoid scuffing. One 1 x 4 will be attached under the top of the roof jack and into the roof deck above the last course of panels. The second 1 x 4 will be placed in the pan of the panel of the last installed course to support roof jack. Install the next course of panels by notching the nose of the panel at the jack location and folding it up. (Do not completely remove the piece.) When removing the roof jack, fold the nose of the panel back into place and finish using a roofing-grade sealant/adhesive and an IKO Metals Touch-up Kit.



Sealants

Roofing-grade sealant/adhesive is recommended for use with this roofing system. Where possible, roofing-grade sealant/adhesive should be covered by the roofing system or with matching stone granules. Sealant must not be used to refinish damaged panel surfaces without coverage of matching stone granules.

High Wind

In areas prone to hurricanes and high winds, installation must meet local standards and codes.

Freeze/Thaw

Use ice-and-water shield as required for cold climatic conditions.

Foot Traffic

Avoid walking on side laps. Foot traffic on Spanish Tile Panels should be kept to the tile pans or low points, not on the high points. See walking instructions at **IKOMetals.com.**

Cleaning and Repairs

After completing installation, be sure to clean all debris off of the roof, especially any metal shavings.

In cases where it is necessary to touch up or repair a panel, IKO Metals Touch-up Kits are available in all of the colors matching the stone-coated panel finishes.

For answers to questions not covered in this guide, call **1-888-456-7663** in the United States or **1-888-766-2468** in Canada, or go to **IKOMetals.com.** Architectural details and product specs are available online at **IKOMetals.com.**

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