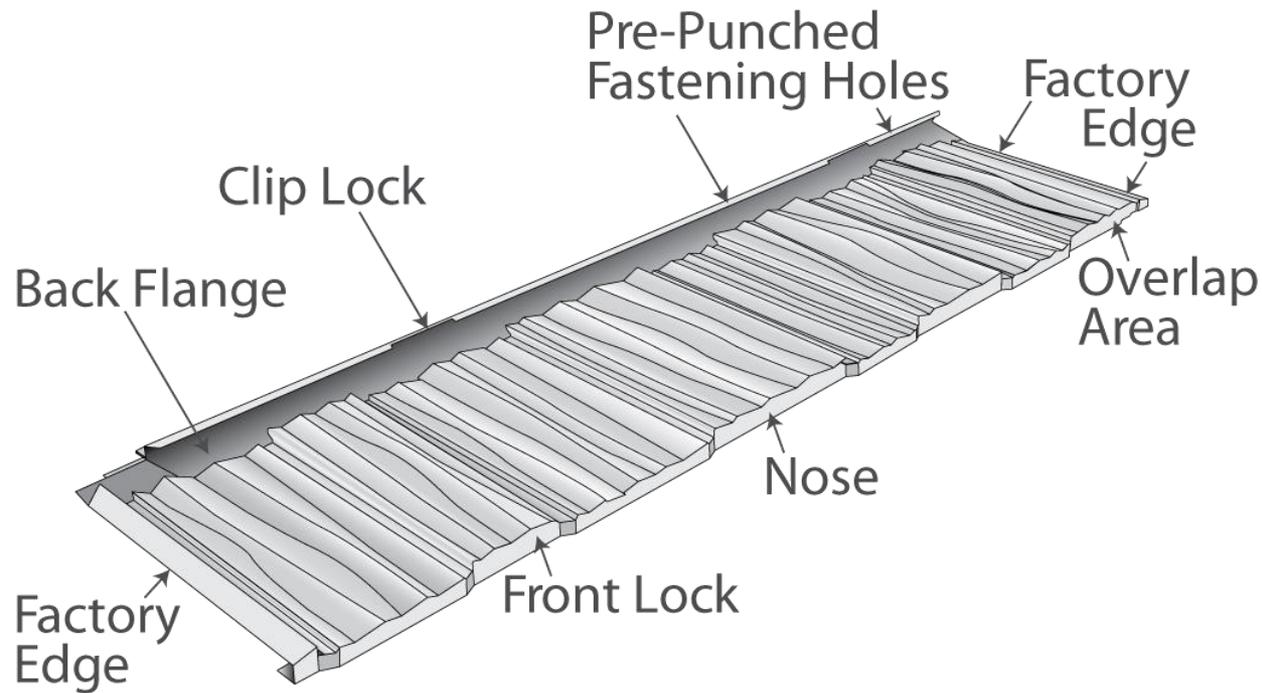


Experience the **DECRA**® Difference



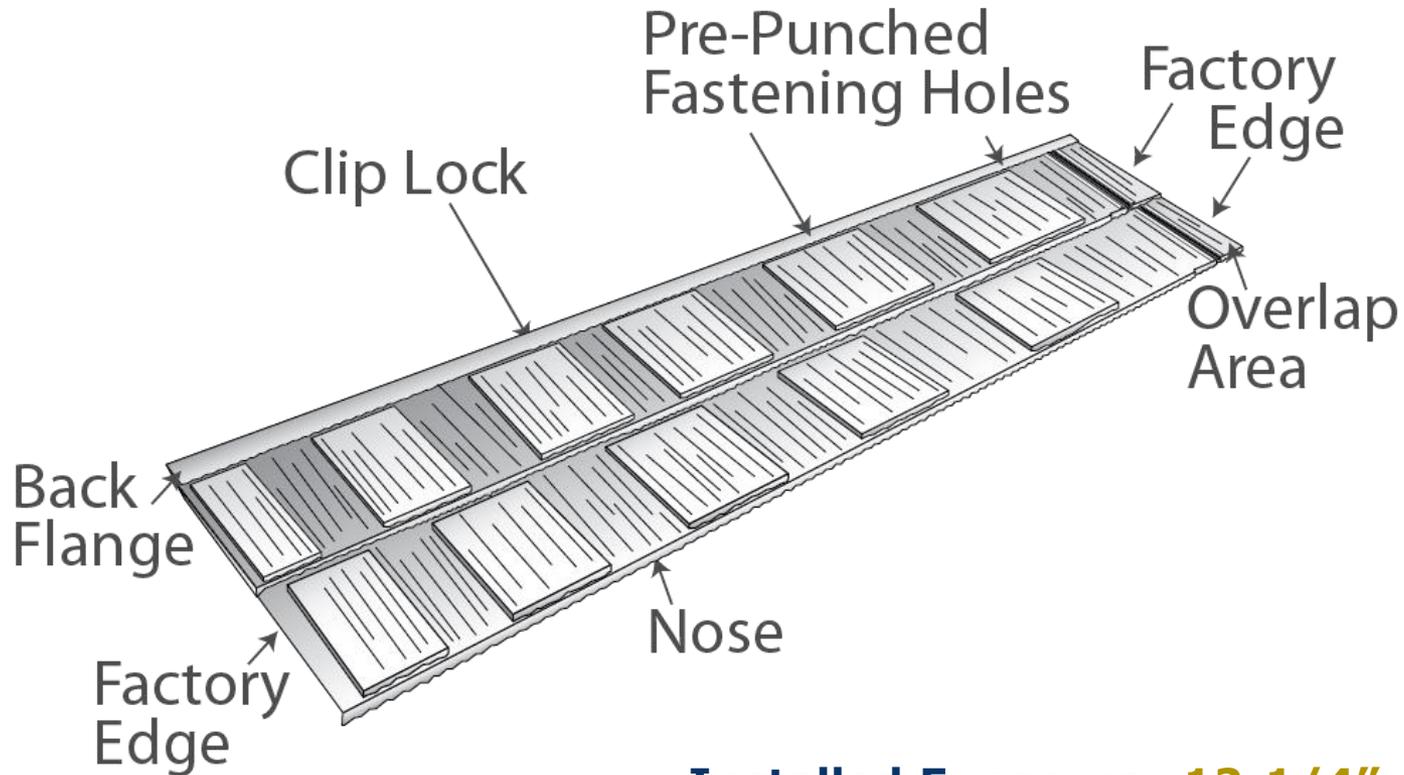
XD Profile Installation Details
DECRA Shake XD® / DECRA Shingle XD®

DECRA Shake XD Panel – Detail



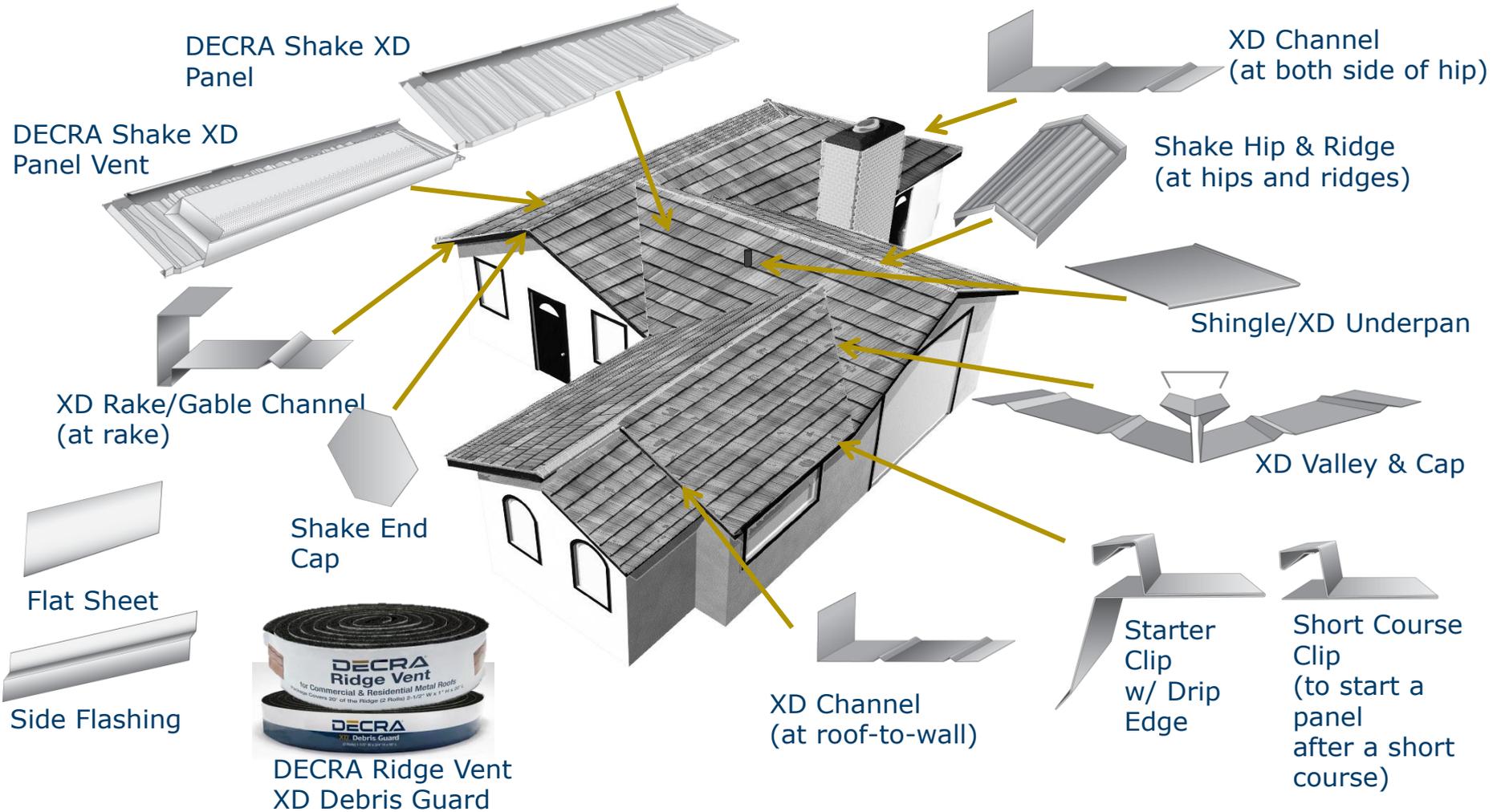
Installed Exposure: 12-3/8" x 49-7/8"
Panels per Square: 23.4
Installed Weight: 150 lbs./sq.

DECRA Shingle XD Panel – Detail

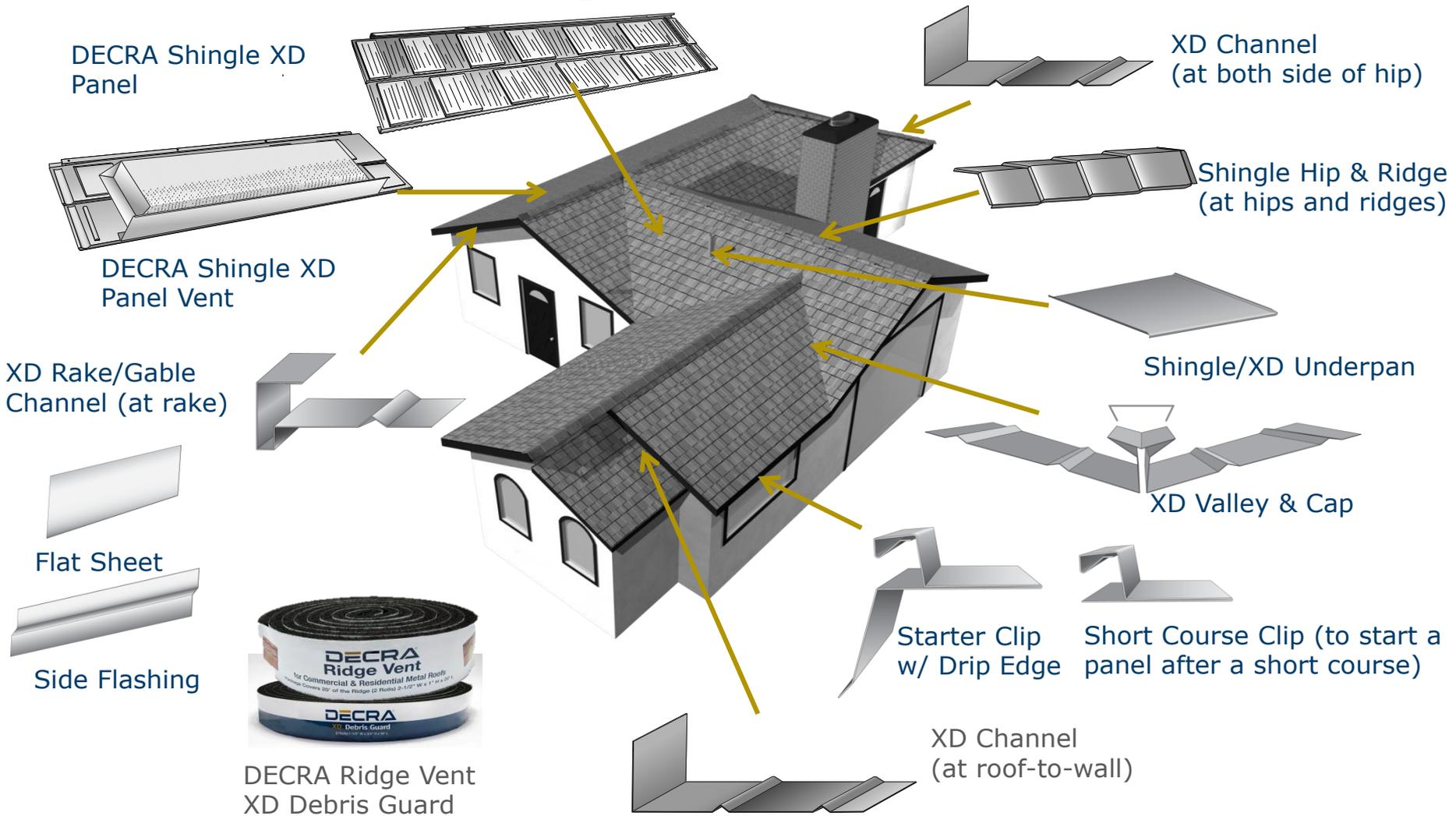


Installed Exposure: 12-1/4" x 49-1/2"
Panels per Square: 23.8
Installed Weight: 150 lbs./sq.

DECRA Shake XD® Roof – Detail



DECRA Shingle XD® Roof – Detail



DECRA XD Profile Installation

- These instructions, drawings and photos are intended as a guide for the installation of DECRA Shake XD and DECRA Shingle XD
- Adhere to recommended safety practices
- Refer to local codes and/or ICC Reports – see links available at www.decra.com
- Roof slopes of less than **3:12** (DECRA Shake XD) and **4:12** (DECRA Shingle XD) are considered decorative and panels must be applied over a roof system complying with local codes

Measuring & Cutting Panels

- Measurements are made on roof and panels are marked and usually cut on the ground
- Panels may be cut with a tin snips or circular saw with metal cutting blade
- A hand bender is used to bend the cut edge of the panel for hips, ridges, and valleys
- Safety equipment should be worn during the installation process



Deck Preparation



- Tear off Old Materials
- Clean and prepare deck to meet local codes
- Underlayment shall comply with ASTM D 226, Type I or Type II, ASTM D 4869, Type I or II or ASTM D 1970 – or greater if required by local code

Deck Preparation – Roof Over Asphalt

- Cut asphalt shingles back from the eaves and rake/gable edges 8" or enough to allow for the Starter Clip w/ Drip Edge and XD Rake/Gable Channel to be installed properly
- Remove hip and ridge materials
- In situations where code allows re-roofing over 2 layers of asphalt shingles, follow code



Hips

- The XD Channel then needs to extend 1' past the eave. Where the Shingle XD panels fit into the XD Channel, proper drainage will be attained by removing 2" from the front and back Clip-Locks on each Shingle XD Panel



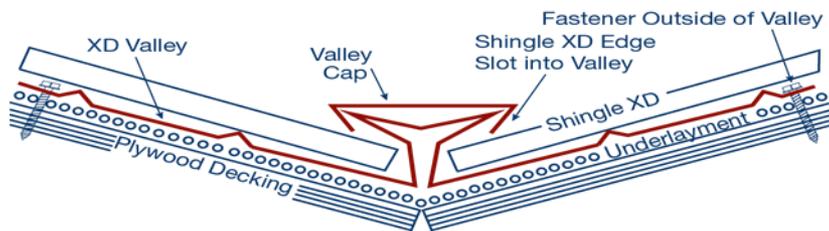
Rake / Gable



- When joining pieces of XD Rake/Gable Channel, the stone coated metal will need to be cut to allow the pieces to interlock
- Measure up from the bottom 1-1/2" and cut straight in. Turn the XD Rake/Gable Channel on its side, measure down 1/2" and cut at an angle to the 1-1/2' line. The top piece should lay on top of the lower piece
- Join the rake together by sliding until there is no gap
- Screws should be spaced every 6"

Valley

- The XD Valley must be positioned along the center line of each valley area
- The XD Valley Cap (stone coated) can be installed by snapping or sliding into place after the valley pieces have been installed. Fasten Cap to Valley as needed

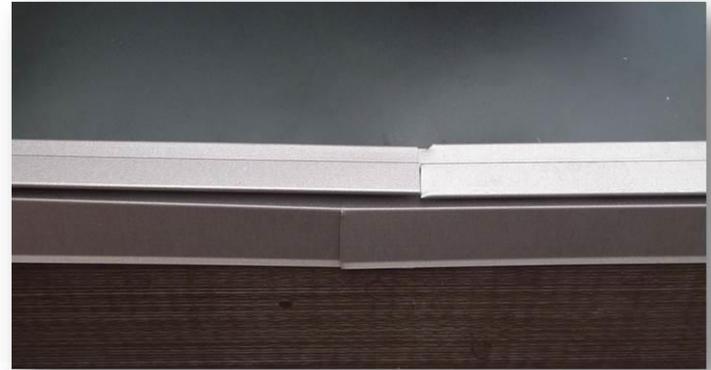
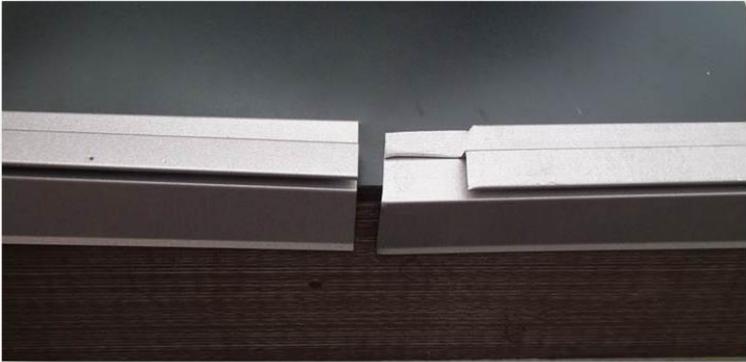


Valley



- Place the valley so that 1" runs past the edge of the eave
- Continue to install the valley metal overlapping the pieces a minimum of 6"
- Fasteners should be positioned outside the last turn-up on each side
- Finish with XD Valley Cap. Cap may be notched and bent down, if desired

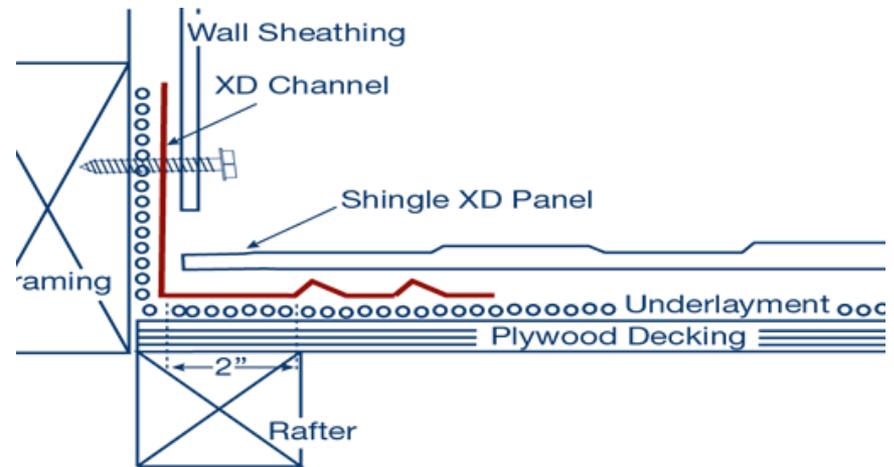
Starter / Eave



- Notch and overlap Starter pieces 1" when joining two pieces together
- Fasteners should be spaced 6" on center
- Do not screw through overlap

Roof-to-Side Wall

- Starting at the Eave, extend the XD Channel 1" over the drip edge portion of the Starter Clip
- Work the XD Channel behind stucco or wood siding whenever possible or surface mount to the wall for surfaces like brick and seal with wall flashing. Stone coated counter flashing, Side Flashing, can also be used
- Overlap the XD Channel at least 4" working up the roof. Screws should be spaced every 12"



Panel Installation

- DECRA XD Panels install left to right. The first course of panels locks into the Starter Clip w/ Drip Edge. Subsequent courses of panels simply lock into place by sliding the nose of each panel onto the clip that is formed at the top edge of each panel
- The right side of each panel must be pushed into position to engage the Side-Lap locking mechanism

DECRA XD panels install from LEFT to RIGHT

Do not create a pattern. Randomly install panels so they do not create a pattern with the course below



Field Panels

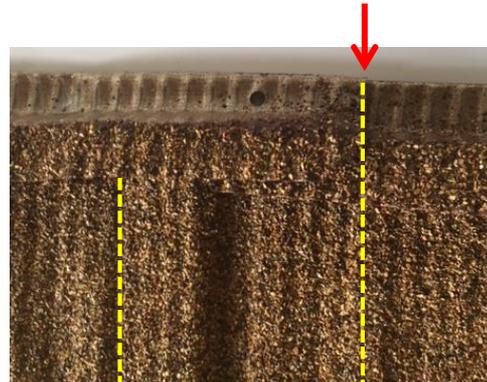
- The top clip on right side of the left Shingle XD panel may have to be bent open in order to allow the next panel to be inserted and overlapped correctly
- There should not be a gap between the back clips on the Shingle XD Panels. Note, do not install the last screw on the far right until the next panel has been properly lapped and at least one screw attached

Shingle XD →

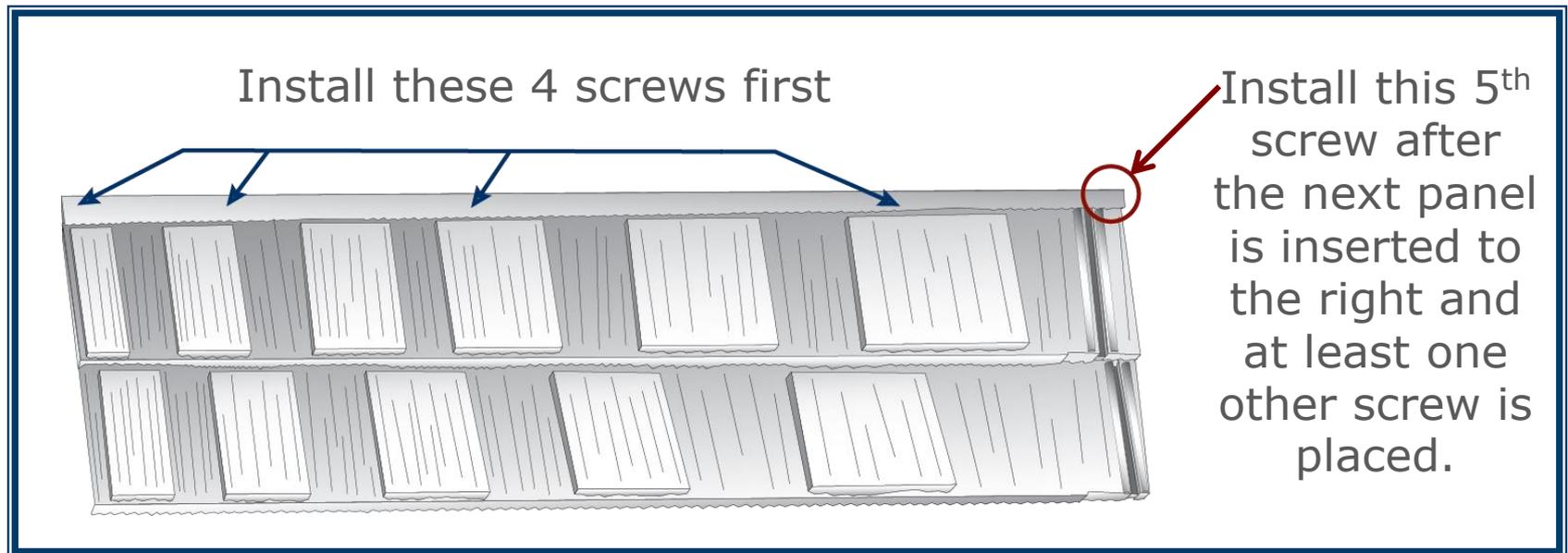


Field Panels

- Shake XD panels overlap 2-1/2". Ensure that top left corner of installing panel is butted up tight into upper clip of installed panel. Do not install the last screw on the far right until the next panel has been properly lapped and at least one screw attached.
- Installing panel inserts into expanded clip joint of installed panel. Align installing panel to the edge lap stop notch.
 - The expanded clip joint (installed panel) is over-sized to properly receive the installing panel.
 - Installing panel clip is inserted tight within the expanded clip joint of the installed panel.
 - The installing panel nose is aligned at the edge lap stop notch.



Fastener Placement

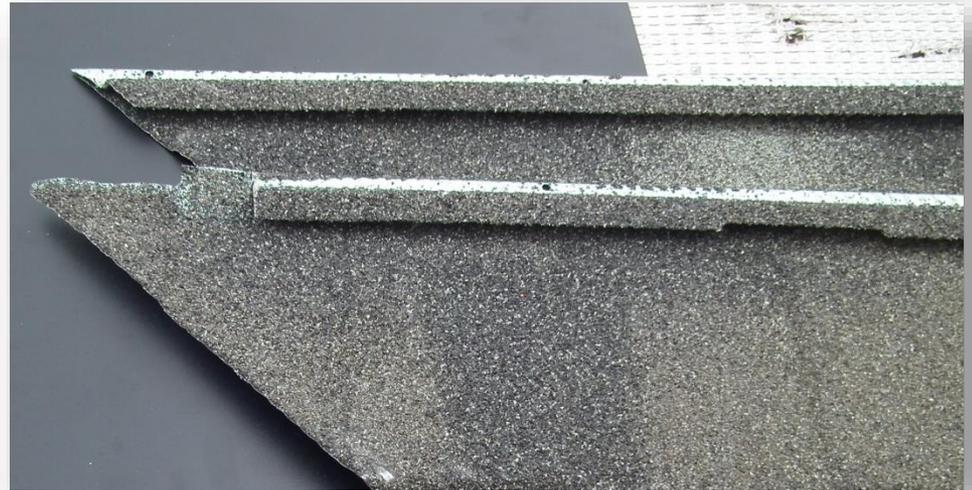
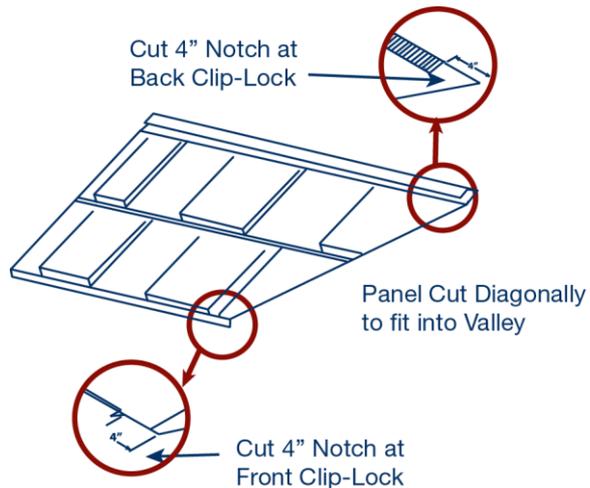


Fasteners:

Minimum #9 Hex (1/4" diameter) x 1-1/2" long

Panels at Valley

- Notch the Shingle XD panels by cutting 4" off of the front and back Clip-Locks of each panel on the side that fits into the XD Valley.



Valley Application

- Place the valley so that 1" runs past the edge of the eave.
- Continue to install the valley metal overlapping the pieces a minimum of 6".
- Fasteners should be positioned outside the last turn-up on each side.
- Finish with XD Valley Cap. Cap may be notched and bent down, if desired.



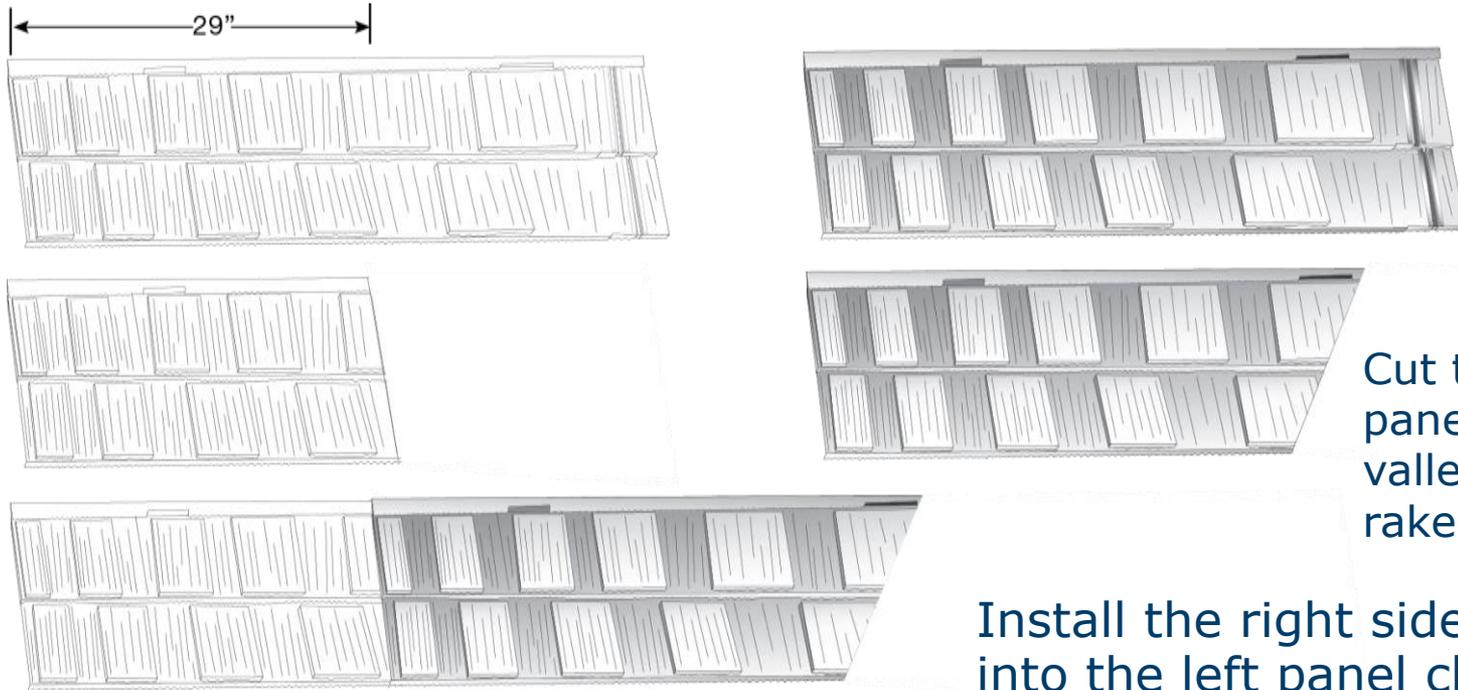
Panels at Rake / Gable

- Where XD panels fit into the rake/gable channel, proper drainage will be attained by removing 2" from the front and back Clip-Locks on each panel.
- Make a 2" notch at the front and back Clip-Locks where the panel fits into the rake/gable channel. Lock the panel into place and screw down.

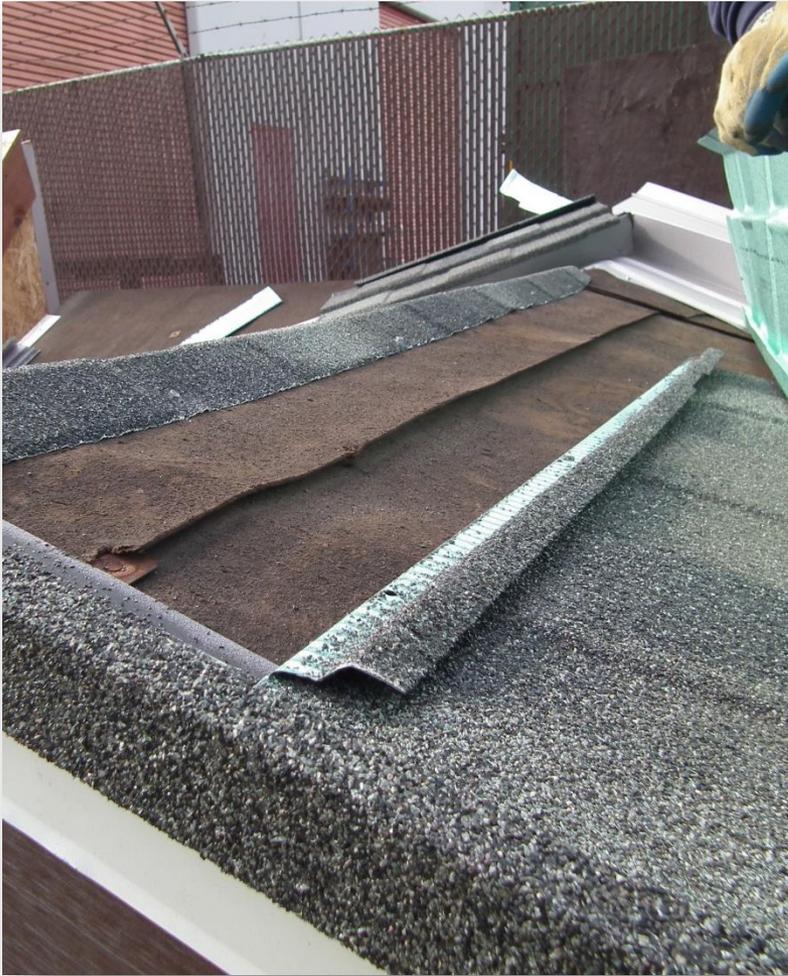


Field Panels at XD Rake/Gable, Hips & Valley

Installing Small Cut Panels



Ridge



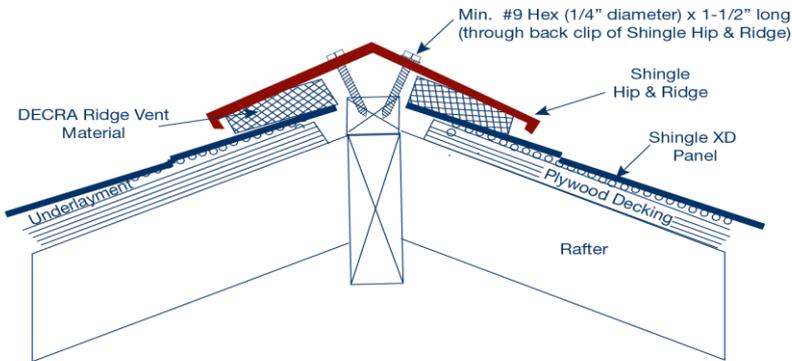
- Install XD panels up to the top of the ridge.
- Cut off the excess panel that extends higher than the ridge. Use fasteners to attach panels 1" below the ridge line.
- On the other side of the ridge run the top XD panel up 2" past the top of the ridge. Attach XD panel with fasteners 1" below the ridge line.
- Use a heavy hammer or mallet to pound the extra 2" over the top of the ridge onto the opposite Shingle XD panel.
- Apply layer of roofing grade sealant/adhesive to seal both the panels at the ridge together.

Hip & Ridge Installation

- Install Shingle Hip & Ridge along the hip starting at the bottom of the hip or along the ridge starting at the ends and working into the middle of the ridge.
- Hip & Ridge pieces are overlapped and fastened down through the back clip using minimum #9 corrosion resistant screws.



Ridge Venting



- Roll out the vent material along the tops of the battens. Remove the white paper while unrolling to expose the adhesive dots. Apply pressure over the adhesive dots to hold the material in place during installation.
- Repeat on both sides of ridge.
- Install Shingle Hip & Ridge pieces over the vent material.



Low-Profile Debris Guard

- In areas where debris is present, install XD Debris Guard prior to installing XD panels. Roll the XD Debris Guard into the XD Rake/Gable Channel and or along both sides of the XD Valley.
- Remove the white paper while unrolling to expose the adhesive dots and press into place. Install XD panels.
- Refer to Debris Guard wrapper or www.decra.com for additional installation details.



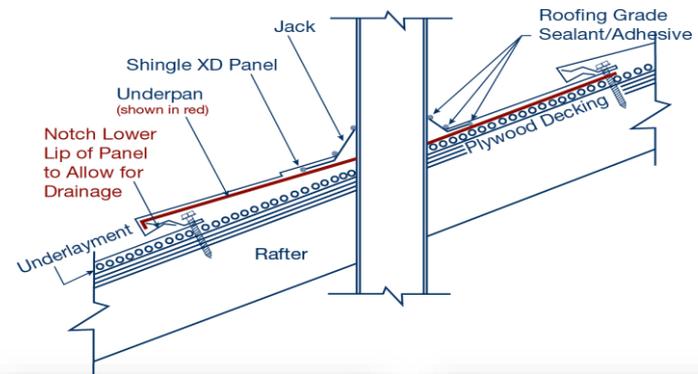
Panel Vent - Installation

- Install DECRA panels until you reach the approximate panel vent location.
- Carefully measure, mark and cut a rectangle hole 29" x 5" in the roof deck to match the opening of the underside of the DECRA Panel Vent.
- Install the panel vents as you would normal DECRA panels.



Roof Penetration – Pipes & Vents

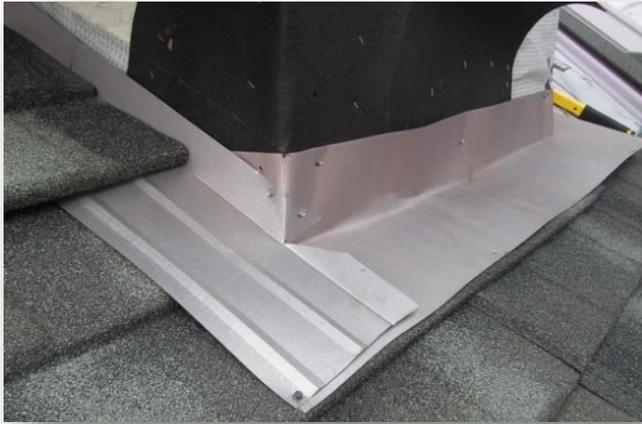
- Cut a Shingle/XD Underpan to fit tight – fit the pipe-flashing apron to the Underpan. Apply roof grade sealant to both parts.
- Cut the XD panel to fit – Make a 2" wide notch along the front Clip-Lock of the Shingle XD panel covering the jack.
- Fit the Shingle XD panel in tight over the underpan and jack – seal around base and finish with Touch-Up Kit.



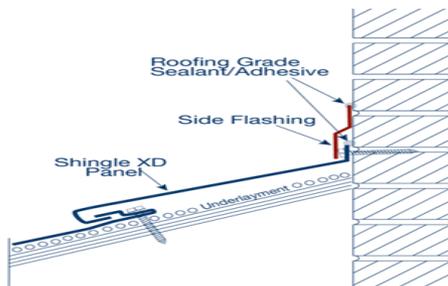
**A roofing grade sealant/adhesive should be used.
Silicone caulking is not recommended for use in direct sunlight.
Do NOT use LEAD or COPPER with this steel roofing system.**

Roof to Head Wall

Chimneys, Skylights & Dormers



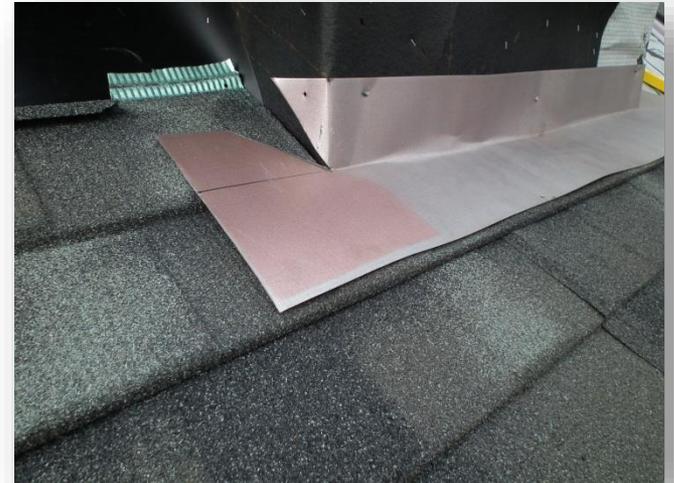
(Do not use lead or copper)



- Start by measuring from the full panel below the wall. Cut panels to fit this area, allow for a minimum of a 1" bend up at the top.
- Using a hand bender, bend each panel up against the head wall and fasten the panel to the head wall.
- Cut, bend and fit standard head wall metal, chimney saddle or skylight saddle (sourced locally) over the fitted panel at the head wall.
- For brick and stucco, counter flash with stone coated counter flashing, Side Flashing, and seal across the head wall. For siding, tuck the panel metal underneath the siding and seal.

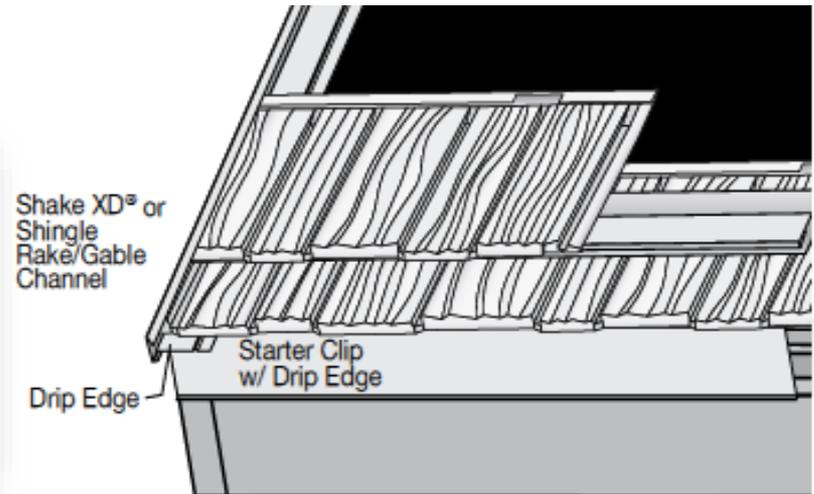
Chimneys, Skylights & Dormers

- Start by measuring from the full panel below the chimney. Cut panels to fit this area and install like at roof to head wall. See **Roof to Head Wall**.
- Use the XD Channel along the left and right of the chimney and counter flash with Side Flashing. Extend the XD Channel 2-3" 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 XD Channel, similar to the roof to side wall. Be sure to notch out the top and bottom clip as was done for the **Roof-to-Wall** detail.



Short Course

- Short Courses are needed when a section of the fascia steps out and is not an even panel width from the main fascia.
- Short Course is inserted by fastening the short course clip over the panel in the course below at the point where the next full panel above will align with the other panels in the course above.
- Once the short course is secured to the panel below, clip the next course of full panels into it.



Additional Installation Details



- Check local codes and standards in Hurricane Areas.

- For Cold Climate conditions it is recommended to use ice and water shield.



- Avoid walking on side laps of panels.

Shake XD Antique Chestnut



Shake XD Pinnacle Grey



Shake XD Woodland Green



DECRA Shingle XD Old Hickory



DECRA Shingle XD Classic Cobblestone



DECRA Shingle XD Natural Slate



DECRA Shingle XD Midnight Eclipse



DECRA Shingle XD Woodland Green

