

A photograph of a house with a metal roof, overlaid with a semi-transparent orange and brown gradient. The text "HURRICANE METAL SHAKE" is centered over the image. Above the word "HURRICANE" is a small white circular icon with a stylized swirl inside. A registered trademark symbol (®) is to the upper right of "HURRICANE".

HURRICANE[®] METAL SHAKE

INSTALLATION MANUAL

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The **HURRICANE® Metal Shake** panels are designed to provide the decorative properties of traditional wooden shake shingles and asphalt shingles while incorporating the benefits and durability of metal roofing.

Each panel is made with a 28 gauge Zinc-aluminum coated steel core that offers high heat reflectivity and high corrosion resistance in many types of environments. The Al-Zn coated steel core then has an acrylic resin protective coating applied that creates a strong bond between the steel core and the stone coating. Finally the panel is coated with a protective clear acrylic overglaze which increases brightness, bonding strength and assures a long lasting finish.

The side, top and bottom overlaps between each panel prevents water leakage. The ridges on the side underlap of each panel stop water from overflowing through the overlap and thus redirecting the water on to the center of the panel towards the eaves.

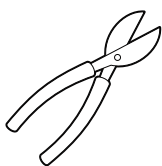
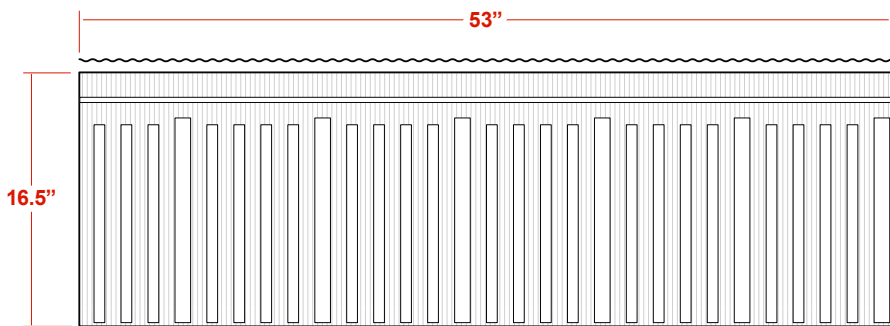


HURRICANE

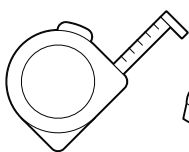
METAL SHAKE

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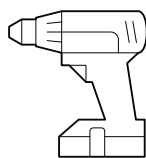
SNIPS



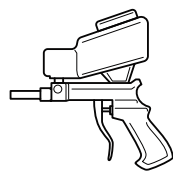
RULER



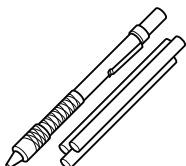
SAFETY SHOES



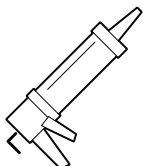
SCREW GUN



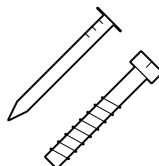
**SAND
BLASTER GUN**



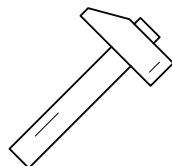
**SOAPSTONE
PENCIL**



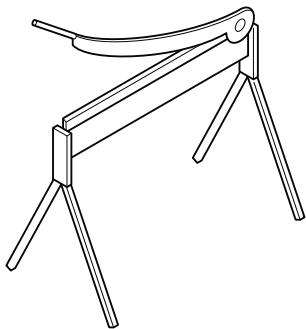
SEALANT



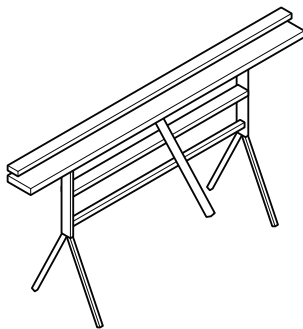
NAILS, SCREWS



HAMMER



CUTTER

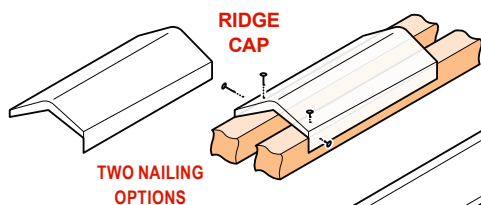


BENDER

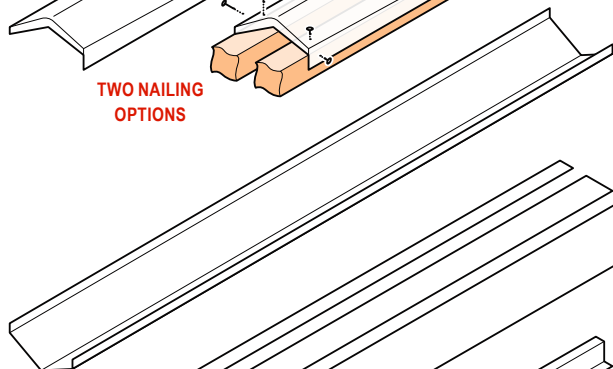


**DO NOT USE
ELECTRIC CUTTER!**

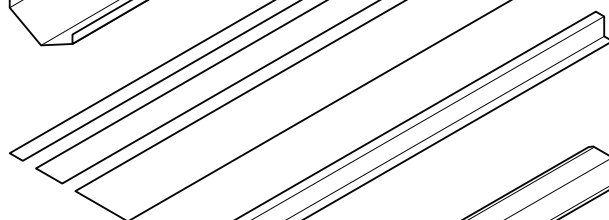
**INSTALLERS ARE REMINDED TO WEAR THE PROPER
GEAR WHEN HANDLING OBJECTS WITH SHARP EDGES**



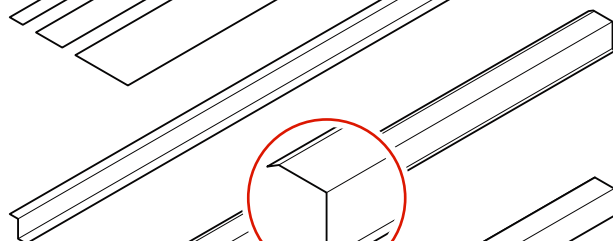
VALLEY



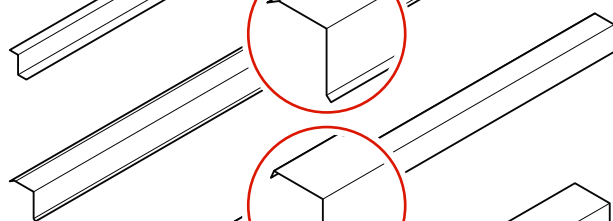
6", 9", 18"
FLAT SHEETS



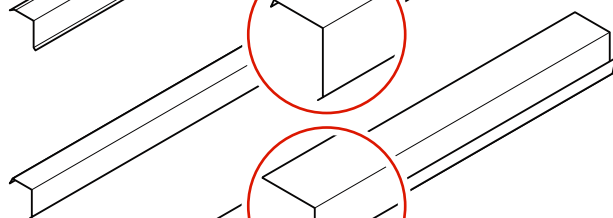
Z-BAR SIDE FLASHING



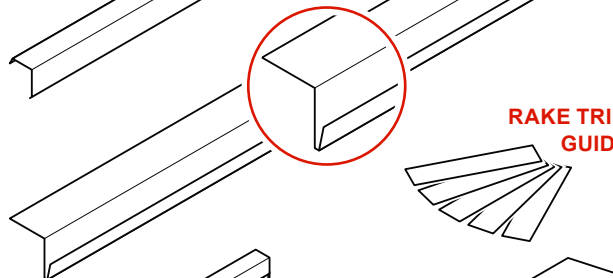
REVERSIBLE EAVE TRIM



CAPPED RAKE TRIM



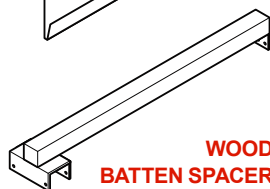
ROLL OVER RAKE TRIM



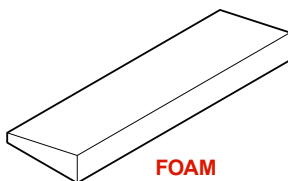
RAKE TRIM GUIDE



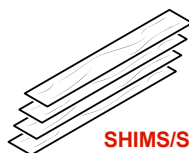
TOUCH UP KIT



WOOD BATTEN SPACER



FOAM



WOOD SHIMS/SPLINTS

Not following the care and recommendations will void the warranty.

Products should be installed in accordance with the following guidelines established by TEK® Industries:

- DO NOT use accessories that contain copper or lead with the steel roof system, as they are incompatible metals and will void the warranty. This includes direct contact products such as accessories and situations where copper/lead drains onto the panels.
- Physical contact with industrial or agricultural corrosive materials should be treated as corrosive to the steel core of the panel.
- A slope of 3/12 or more is required to install this product.
- When handling the product, be careful not to deform panels.
- Always wear gloves when working with metallic products.
- When installing TEK® roofing panels, care should be taken to avoid excessive friction between panels. This could damage the durability of the stone coating.

- Store the product in a dry and ventilated area.
- Avoid stocking the product in direct contact with the ground or floor over large periods of time. Panels and accessories should always be kept off the ground on wooden pallets.
- If stored outside: Store product on a firm surface and protect from potential damage. Allow for water to drain off of the panels and protect it from being blown by wind. Extra care must be taken to protect from moisture damage.
- A canvas tarp is best to cover materials to ensure proper airflow. DO NOT use airtight covers or plastic tarps as they create and retain condensation.
- Do not store detergents, solvents, acidic materials, or alkali such as concrete or plaster with TEK® products to avoid unwanted chemical reactions and corrosion.
- It is recommended to store products near the place where they will be installed to avoid damage from handling.

- TEK® is designed to withstand most environments, but the product life can be extended with proper maintenance.
- Immediately after and/or during installation, remove any steel particles that may remain on the panels due to drilling and cutting. These particles will rust and might damage or stain the panels
- It is recommended that those working on the roof use rubber soled shoes to avoid damaging the product. Foam inserts are used to increase walkability
- It is recommended to clean the roof surface every six months when installed in a highly corrosive environment
- Always carry out any work on the roof deck using all safety measures and wooden planks for weight distribution.

It is important to carefully read each of the recommendations in this installation manual before starting the installation process.

For the most current and up-to-date installation instructions go to
www.TEKRoofingSystems.com

TEK Industries assumes no liability for either incorrect installation of its products, misinterpretation of this manual, or personal injury that may occur as a result of installing such products.

The installation methods demonstrated are not the only way to install TEK products, but have been developed as a reference guide using acceptable, tested and proven methods. Installers should use their professional judgement at all times and tailor such methods where appropriate to suite each installation of any applicable local building codes or ordinances. Due to the fact that TEK has no control over the actual installation method used, no warranty is expressed or implied relating to installation of TEK products. TEK's liability with respect to TEK products is limited exclusively to its standard written limited lifetime warranty.

It is the responsibility of the installer to adhere to local building codes.

Structure: Installation over existing roof is limited to a maximum of one existing layer of composition shingles, built-up roofing, or roll roofing applied over an existing solid deck. Inspection of existing roof deck must be made prior to the installation of the roof panels.

Decking: The condition of the existing roof deck must be acceptable to receive the roof panels before the roof panel installation proceeds.

Battens: Are not required. If used, wood battens must be 2"x2" or 1"x2". Nails should be placed every 6" to 12".

Recommended fasteners for battens: 16D ring shank nail.

Underlayment: A layer of underlayment over the existing roof covering is not required. A minimum underlayment of #30 (ASTM D226) felt or synthetic underlayment is required on all new construction and tear-offs. Always check local building codes prior to installation.

Slope: Should not be installed on roofs with roof slope less than 3/12

Sealants: A one-part polyurethane type sealant is recommended.

New roof: TEK® panels can be installed over battens or directly to the deck.

Prepare the wooden deck to be level and secure. Cut out decking in areas where you plan to install ridge vents and install #30 felt or equivalent synthetic underlayment on the decking. Always check local building codes for additional requirements.

Re-roofing: TEK® panels may be installed over an existing asphalt shingle roof (maximum of 1 layer). Follow the steps below before installing TEK® panels and accessories over shingles:

Step 1: Cut any existing overhang flush with the existing fascia. If necessary, build up the first run at the eave using 1"x4"s, 2"x2"s or foam inserts until the first row is flush with the rest of the roof.

Step 2: (optional) Install a new layer of underlayment over the entire roof area. #30 felt or equivalent synthetic underlayment is recommended. Always check local building codes, additional materials such as ice and water shield might be required for your area.

Step 3: Install TEK® panels following the installation procedure described in this manual. Be sure to use screws or nails that are long enough to correctly fasten the panels and accessories to the deck or battens.

Recommended fasteners for layover: No.10 12x2-1/2" hex head or a hot dip 8D ring shank nail.

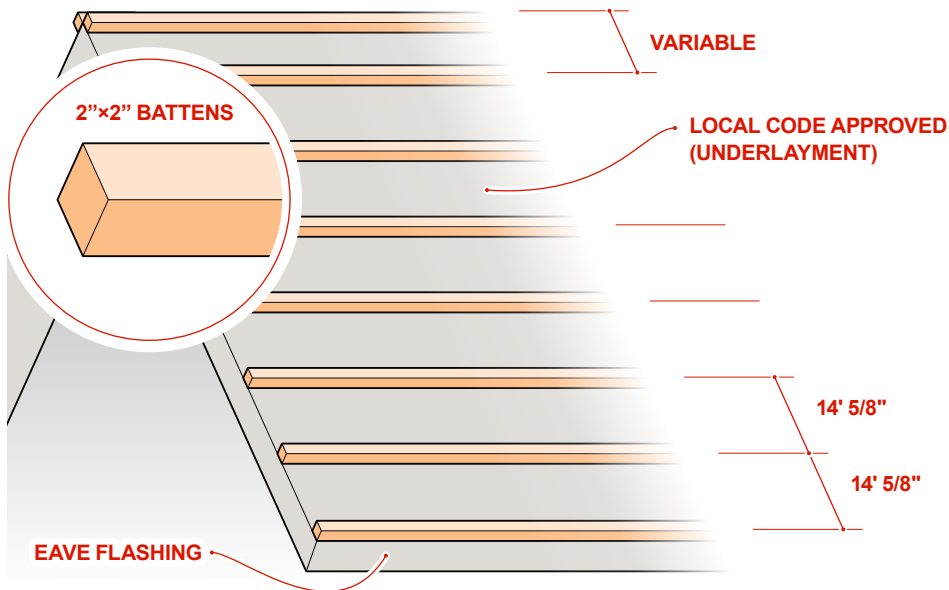
Tear-offs: If a complete tear-off is required, make sure to completely remove all pre-existing roofing materials in order to work on a leveled surface. Clean the deck thoroughly and install a layer of underlayment before installing the new product.

The panels should be installed left to right and should be fastened to the roof deck with a minimum of 4 fasteners across back flange. The fasteners are to be placed approximately 16" apart with one fastener placed at point of panel overlapping on the back flange.

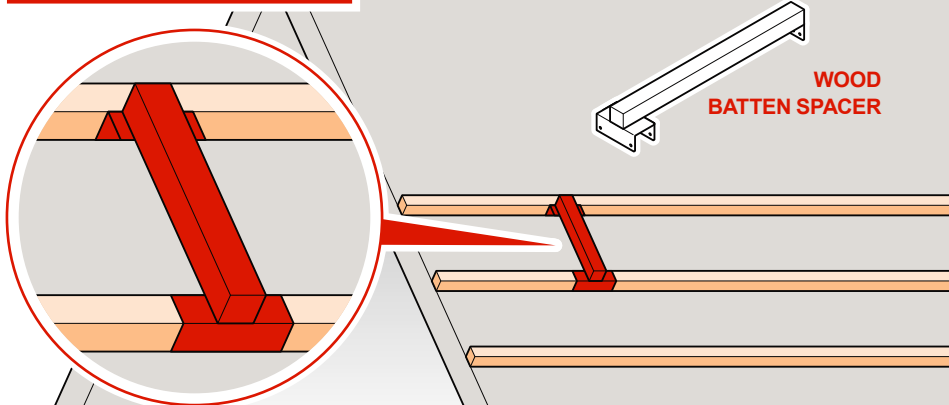
The front nose of the panel should be fastened with a minimum of 4 fasteners across the front nose. The fasteners should be placed approximately 16" apart with one fastener placed at point of panel overlapping on front nose of the panel (see Tile Fasteners Points, page 18).

Foam should be inserted into cavity of panel as an option for walkability and added R-value (R5).

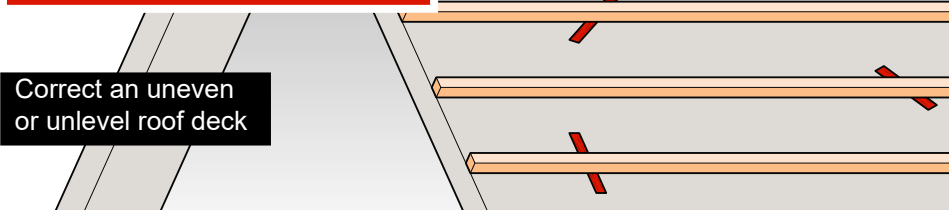
HORIZONTAL BATTENS

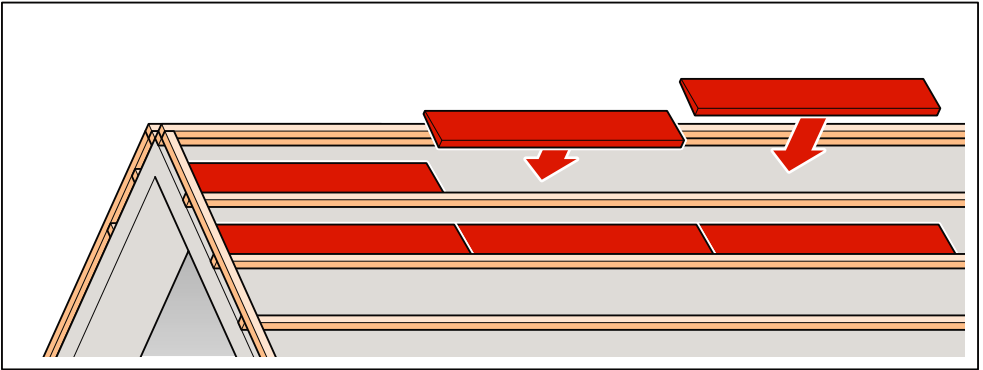
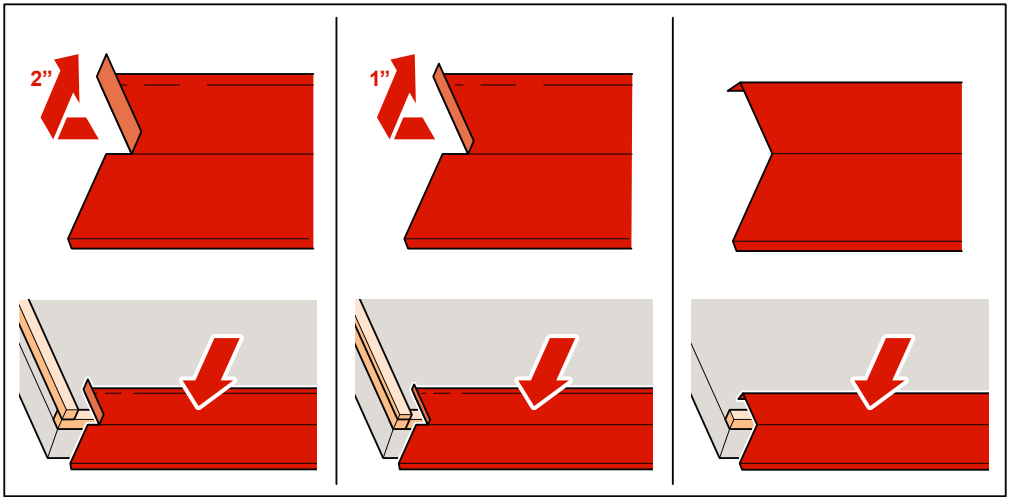


USING BATTEN SPACER

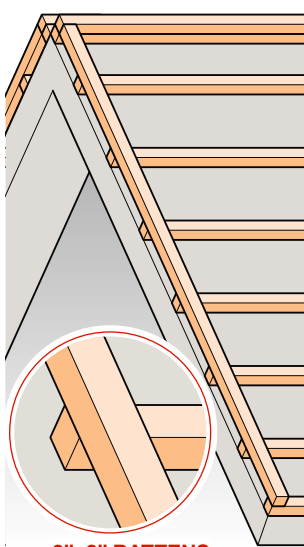


USING WOOD SHIMS/SPLINTS

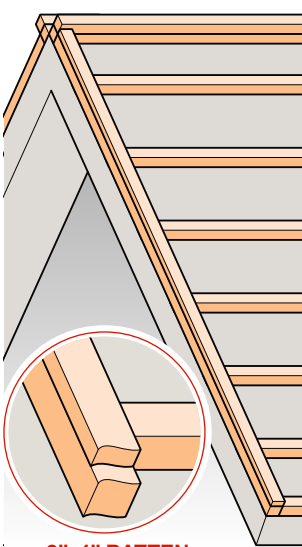




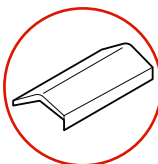
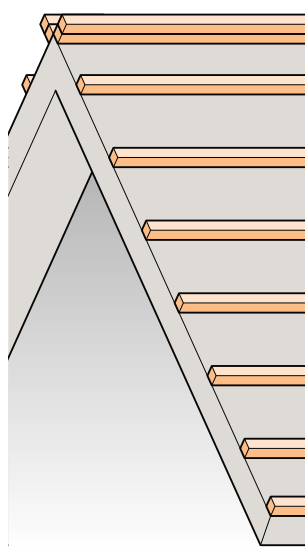
VERTICAL BATTENS VARIATIONS



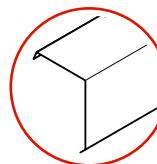
2"x2" BATTENS



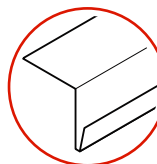
**2"x1" BATTEN
2"x2" BATTEN**



**RIDGE CAP
ON RAKE
OPTION**

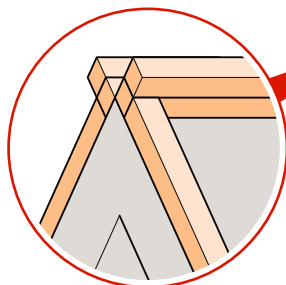


**CAPPED
RAKE TRIM
OPTION**

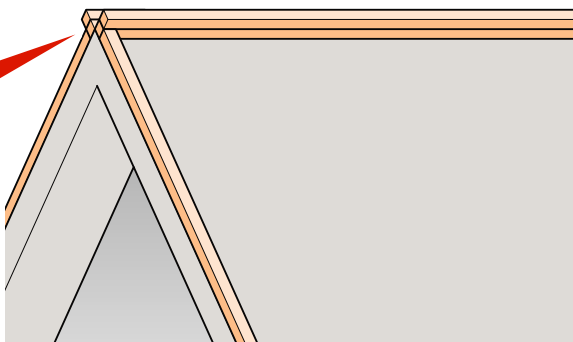


**ROLLOVER
RAKE
OPTION**

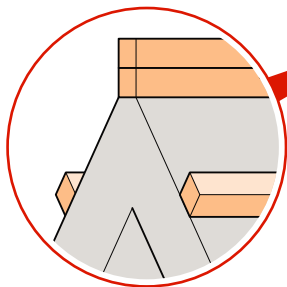
DOUBLE BATTEN (method #1)



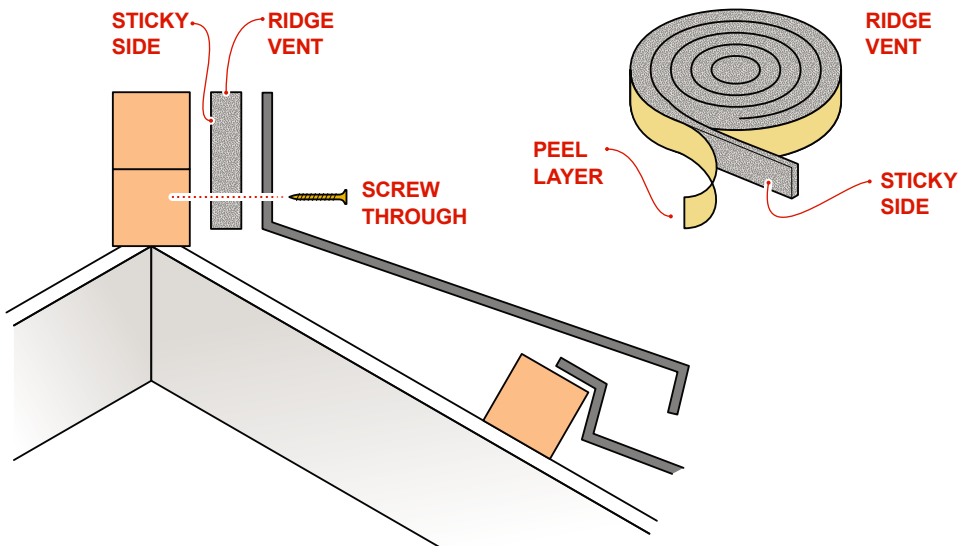
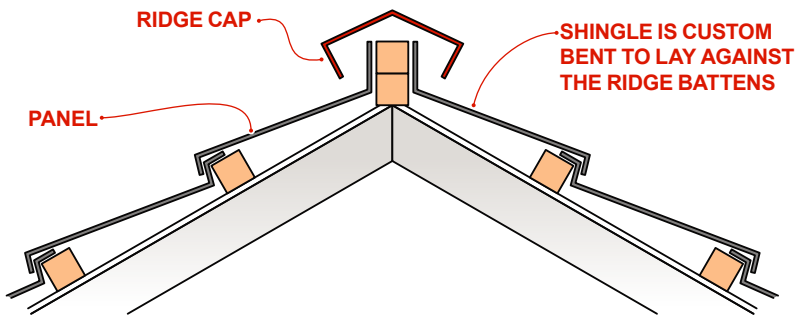
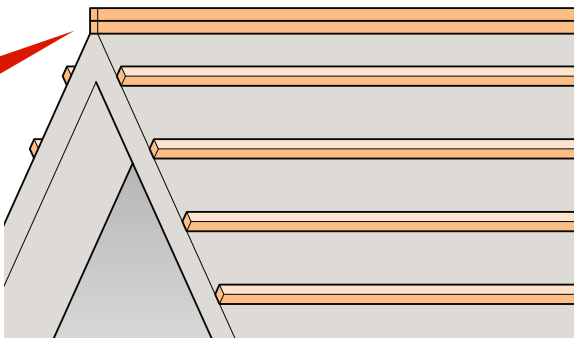
2"x2" BATTENS

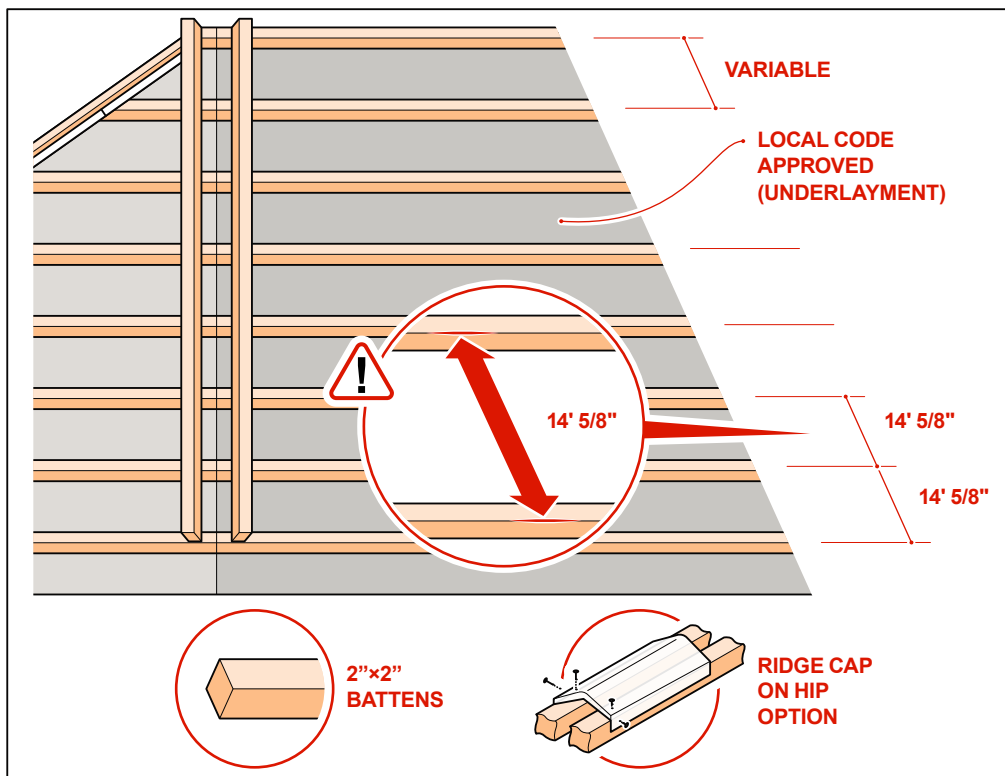
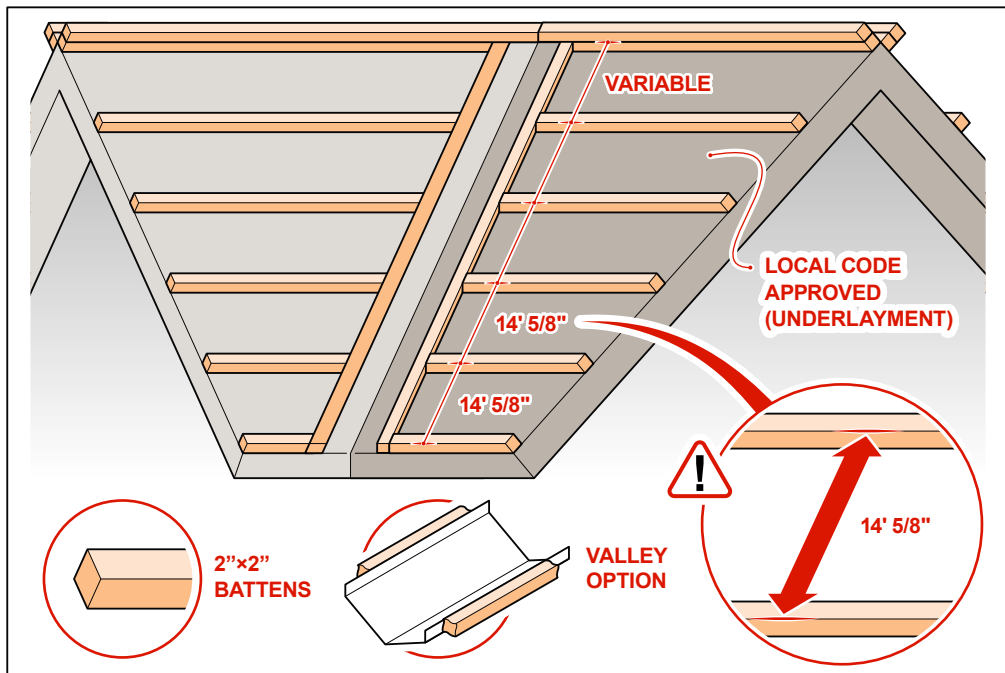


SINGLE BATTEN (method #2)

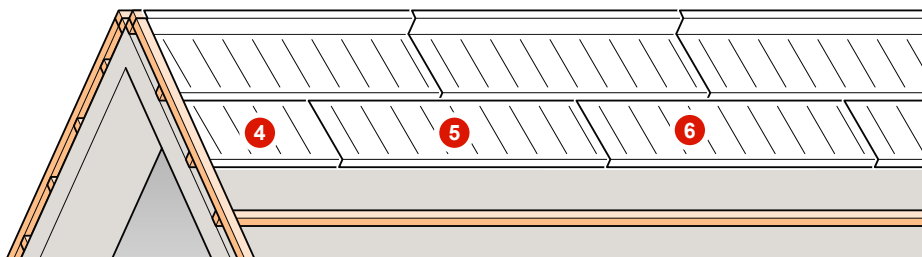
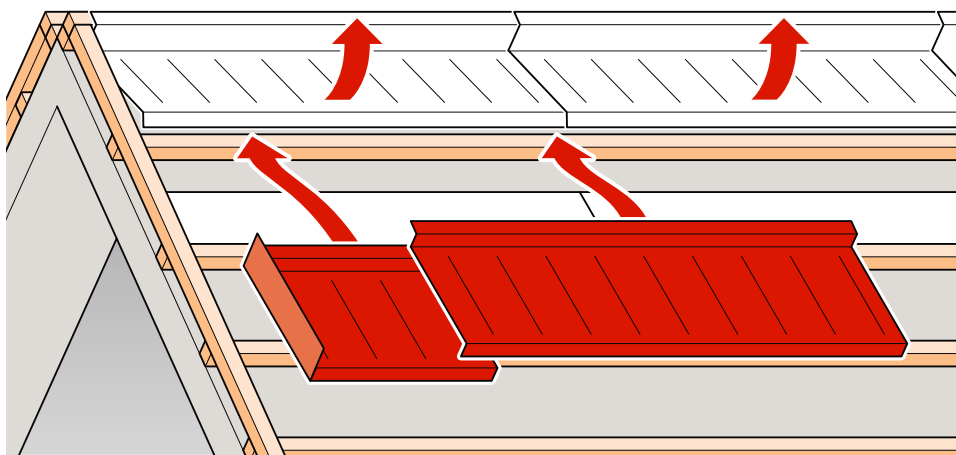
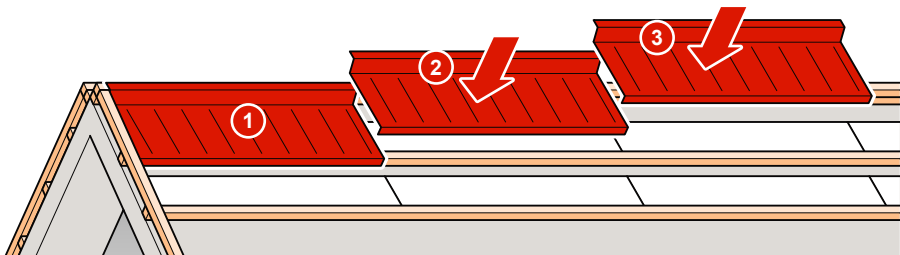
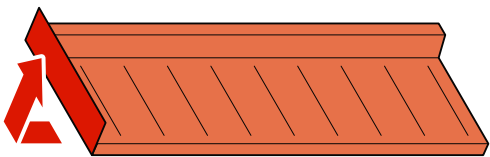


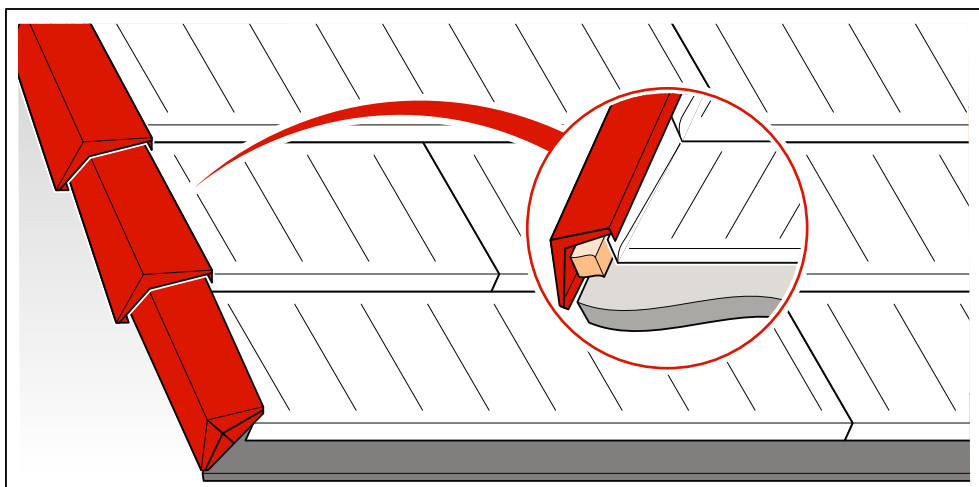
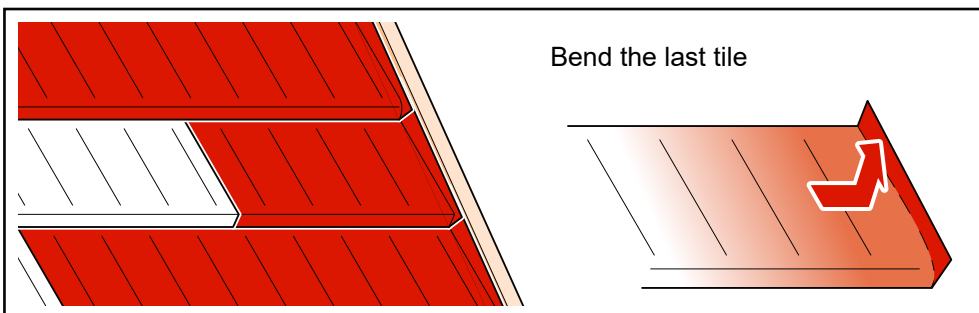
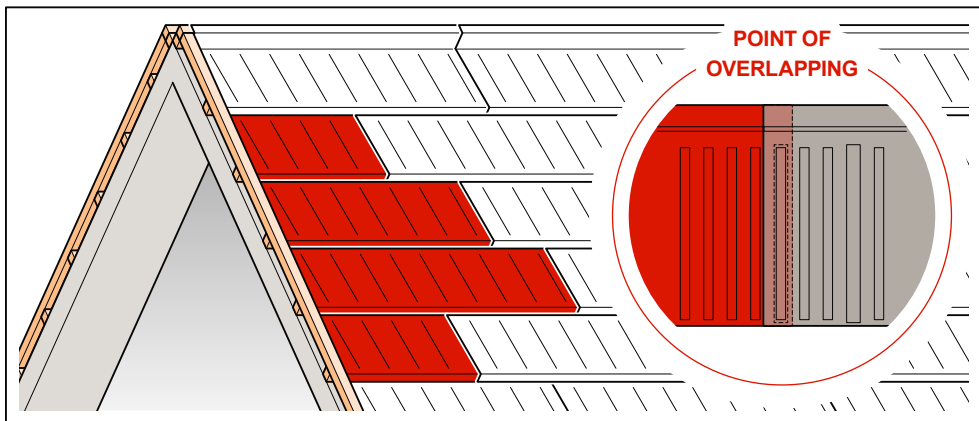
2"x2" BATTENS



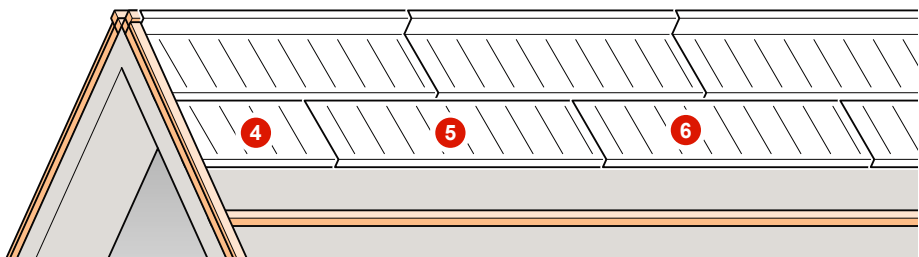
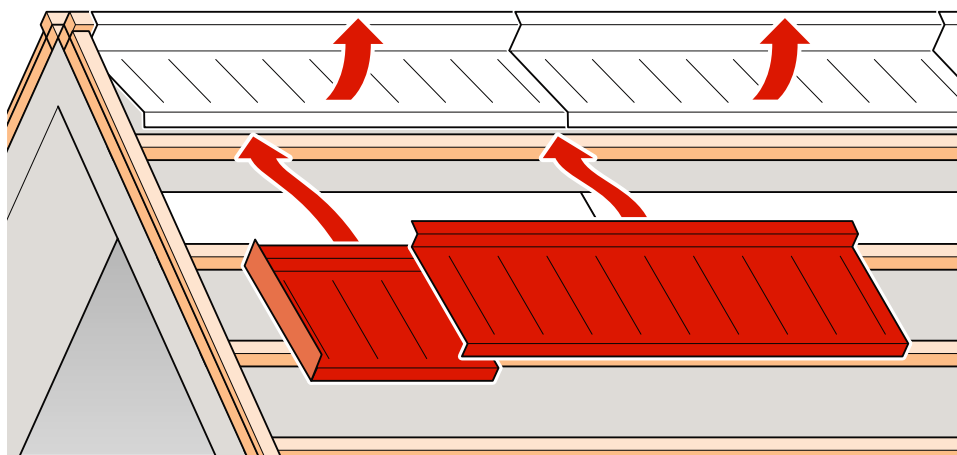
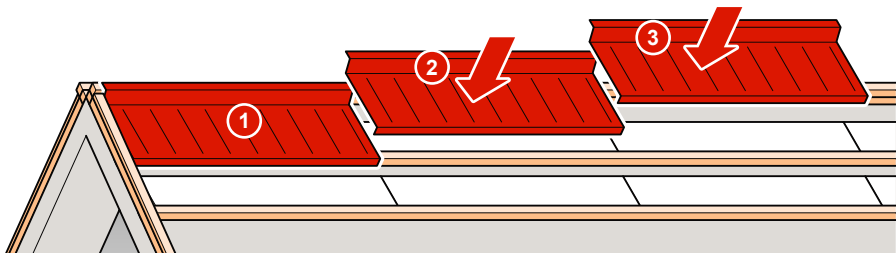
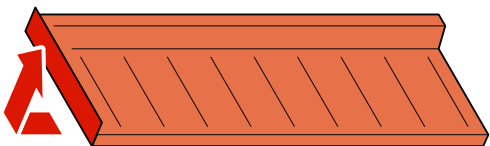


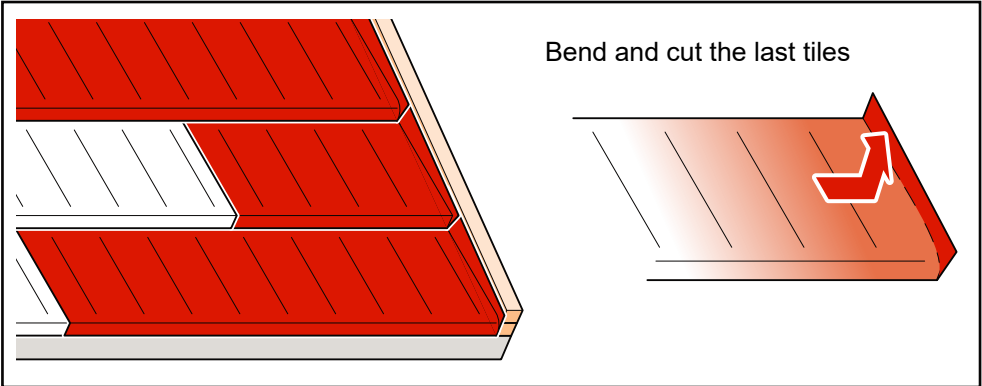
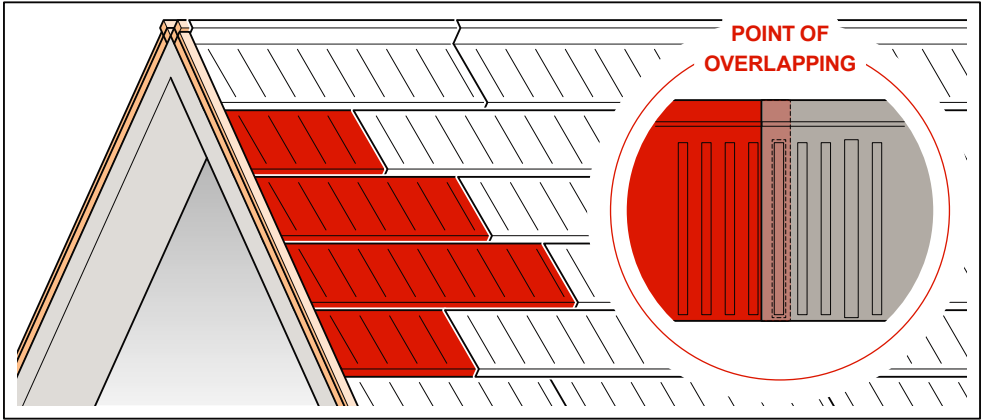
Bend the first tile of each row upwards on the ridge

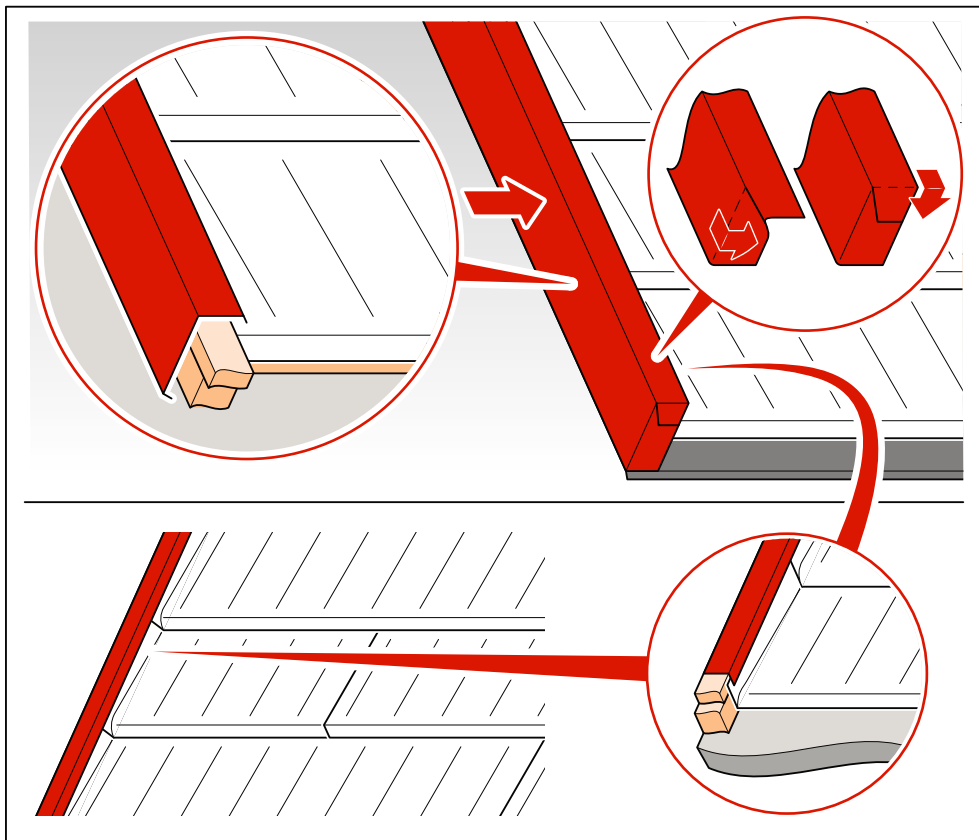


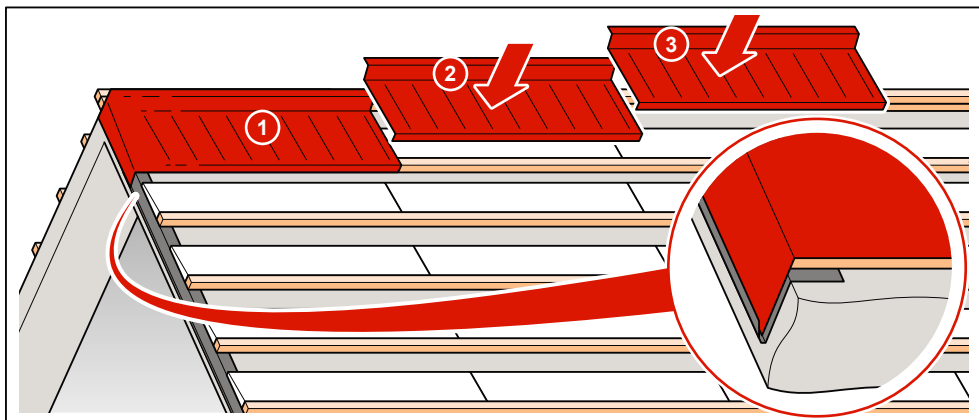
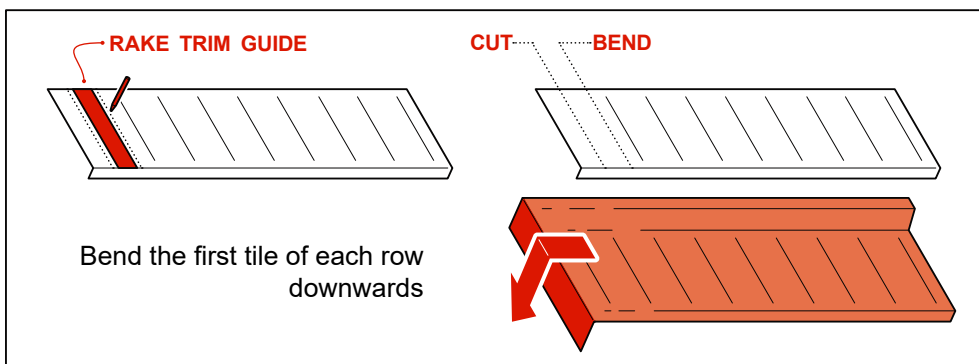
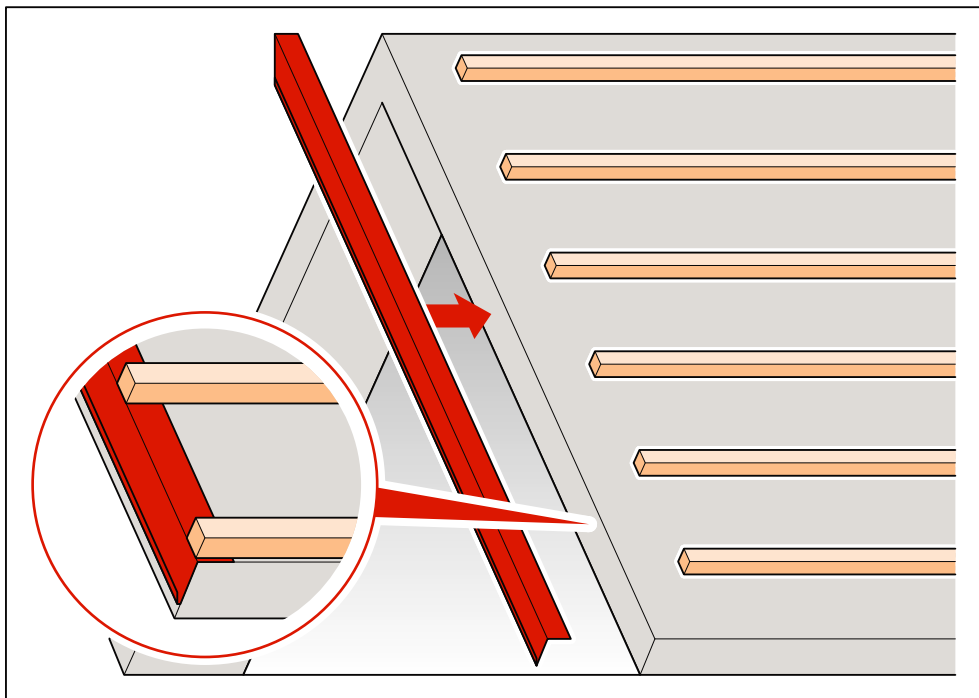


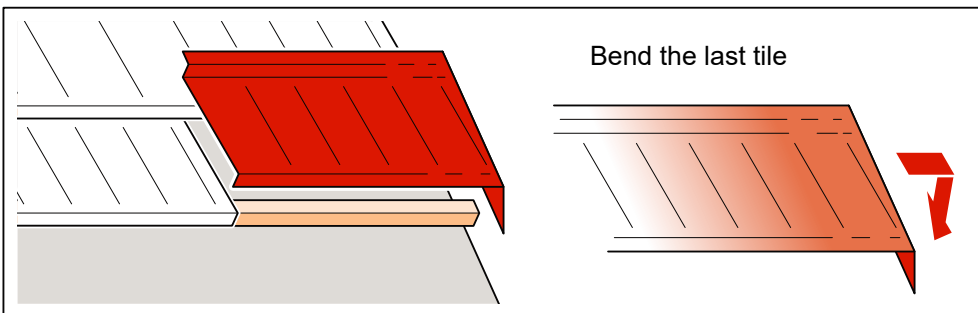
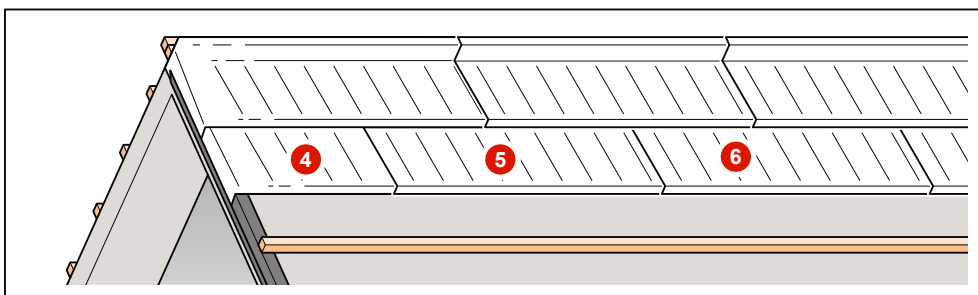
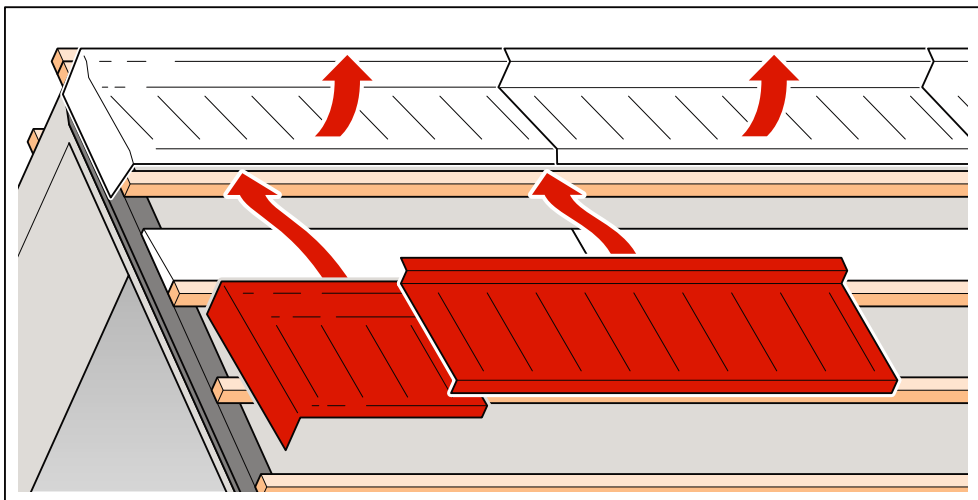
Bend the first tile of each row upwards on the ridge

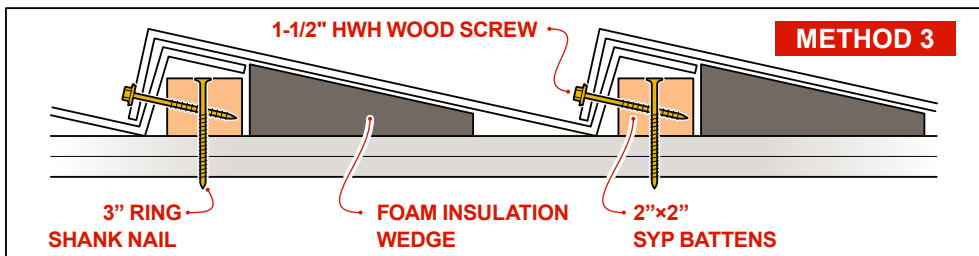
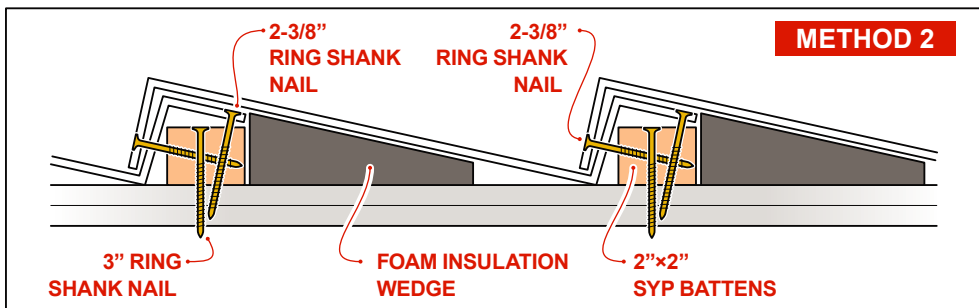
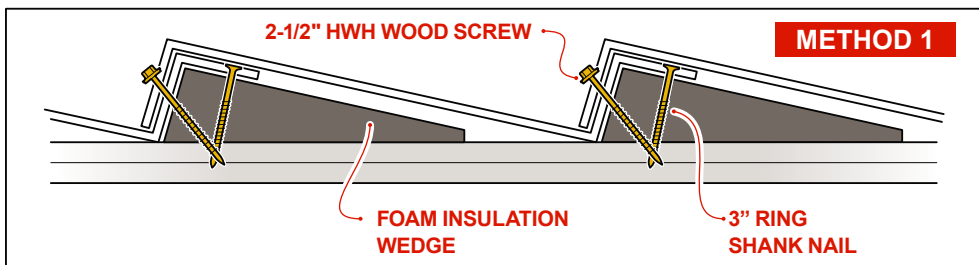
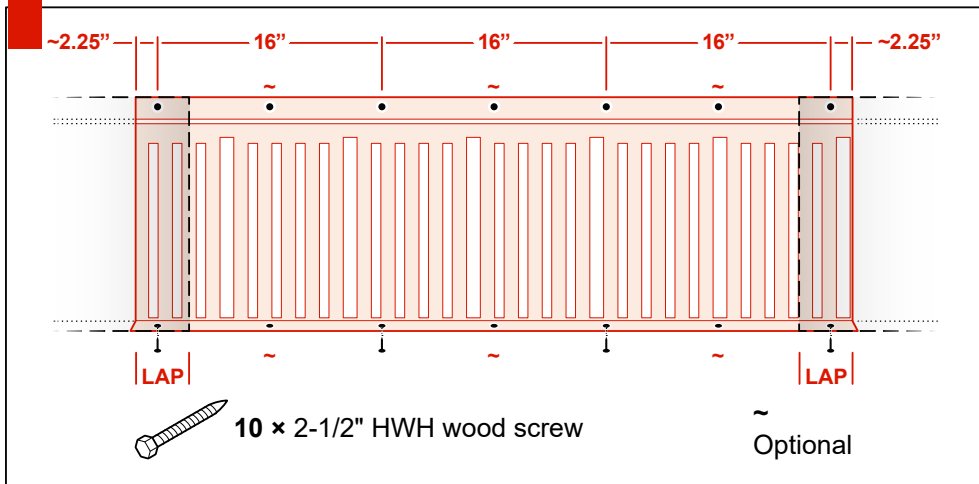




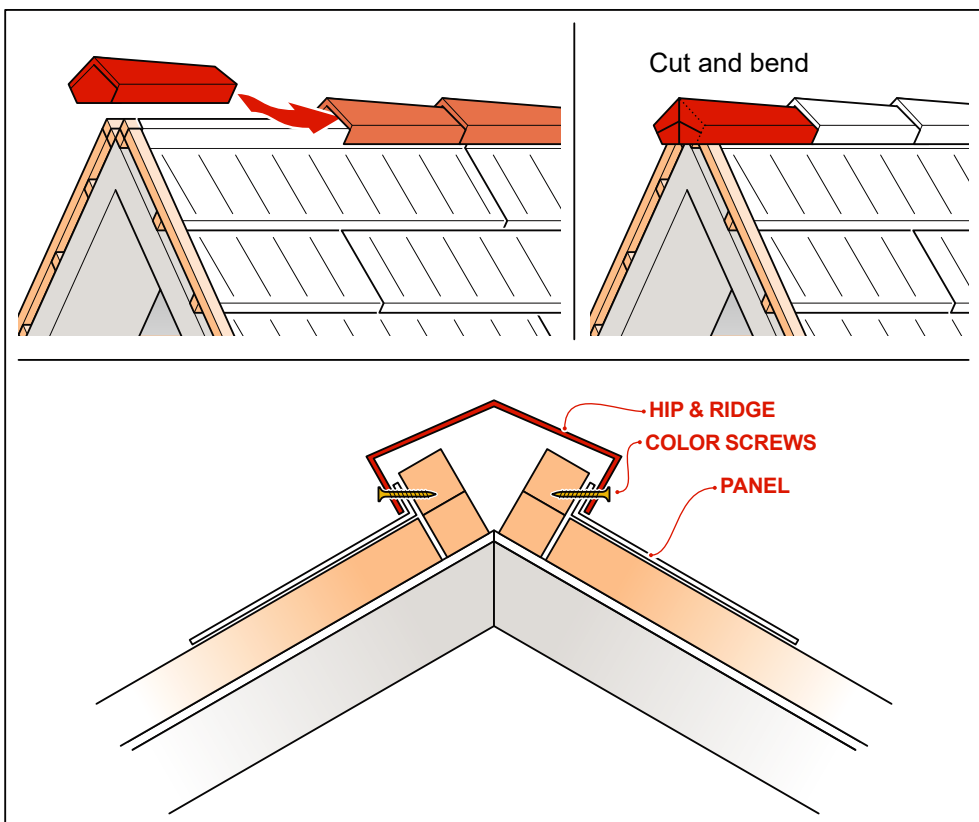
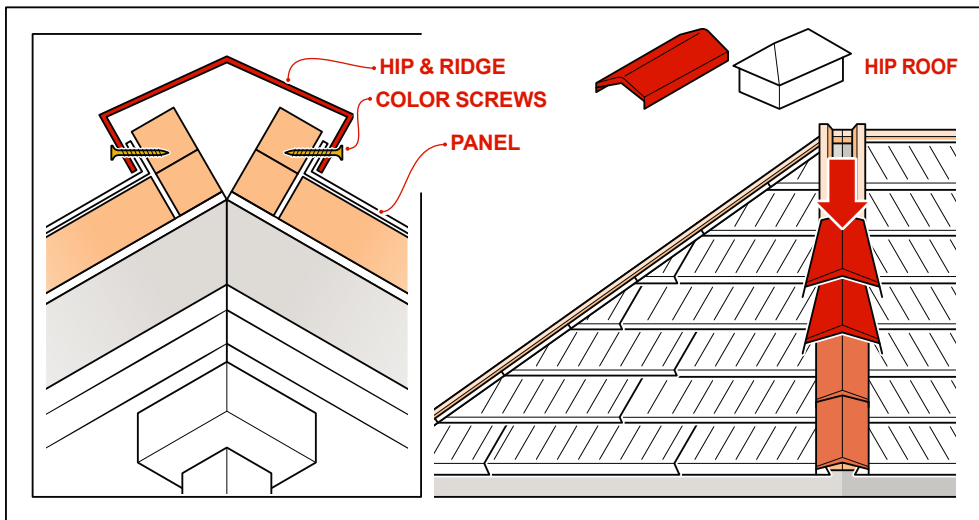


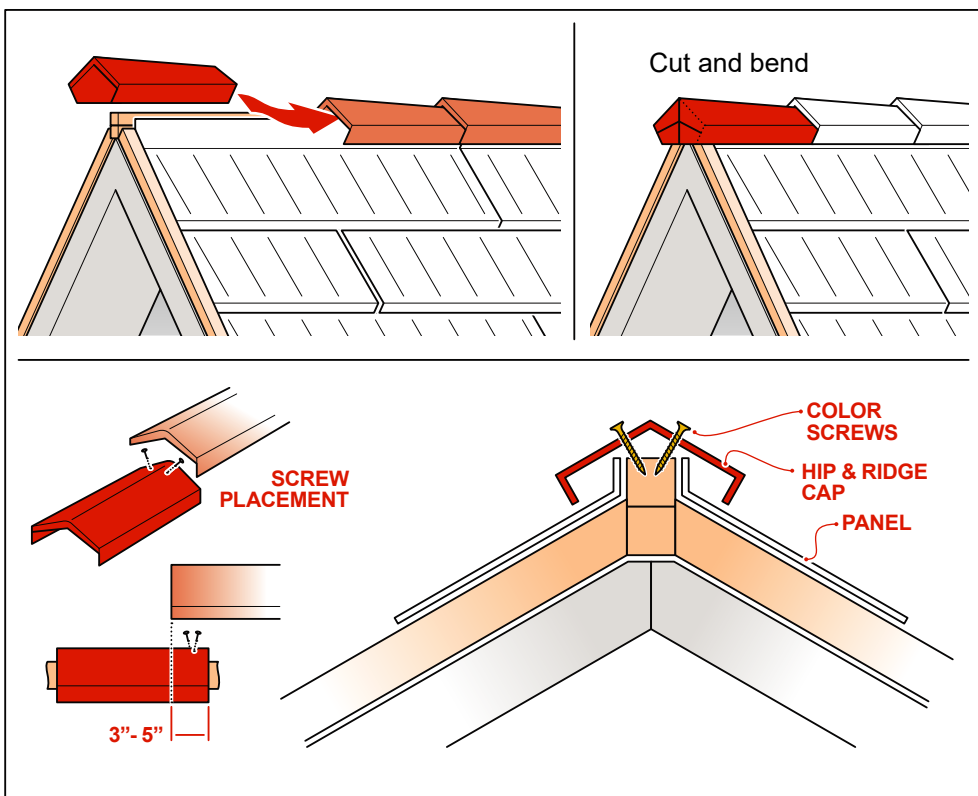
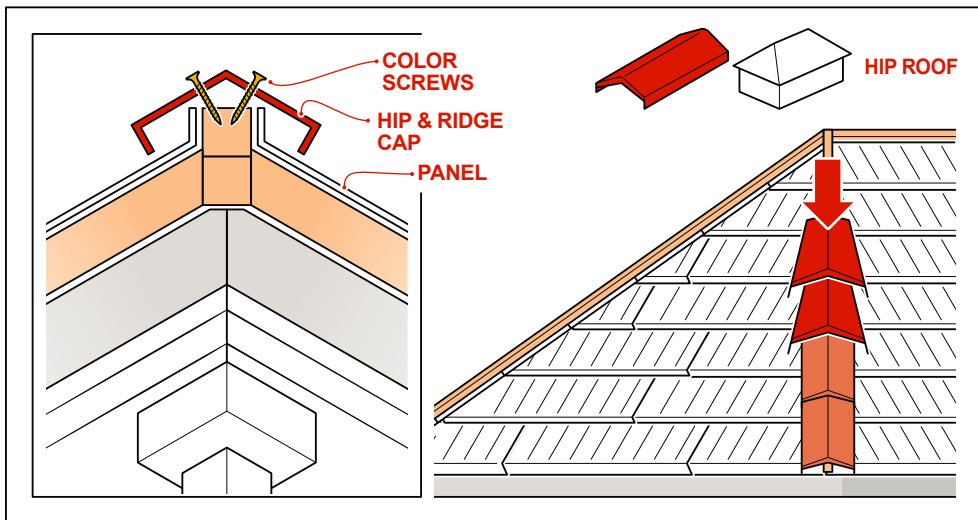


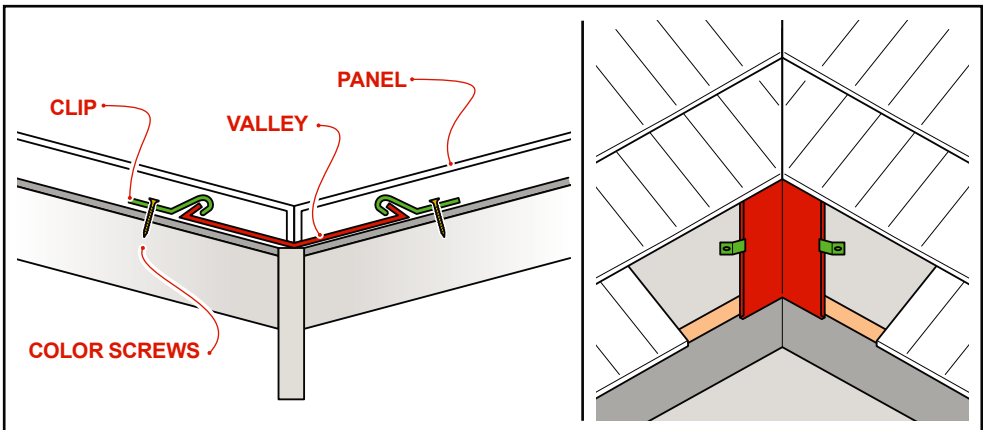
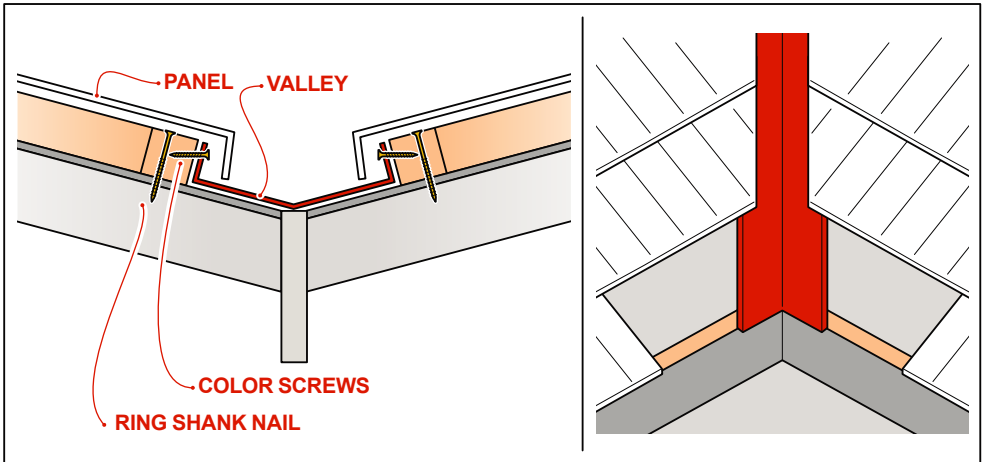
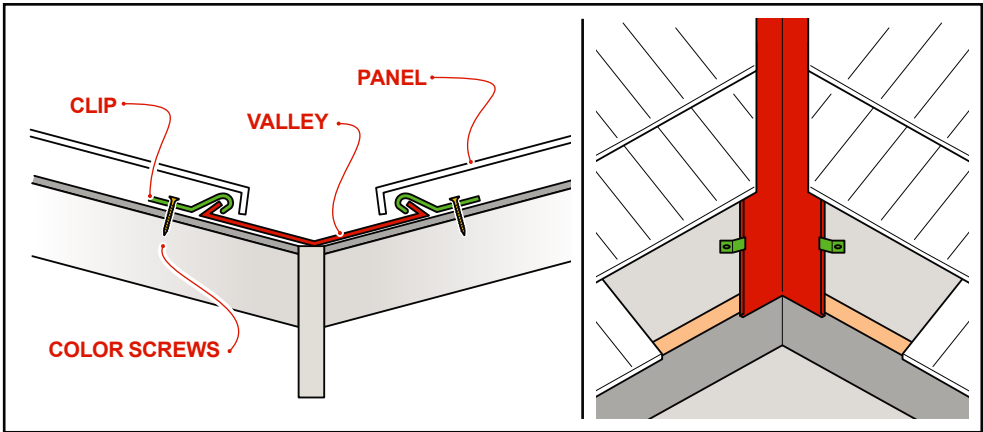


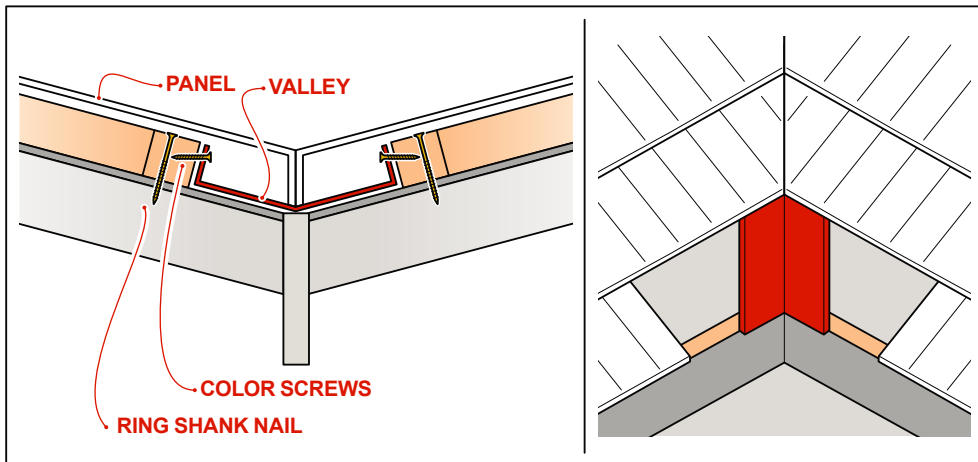


METHOD	SYSTEM CONFIGURATION	ALLOWABLE WIND RESISTANCE (PSF)
Minimum	Panels attached to min. 15/32-in. plywood with eight, min. #10 x 2-1/2 in. HWH wood screws, four screws in the top flange, spaced 2 in. from ends and 16 in. oc. Screws engage the lower flange of the course above.	55
Method 1	Back flange attached to min. 15/32-in. plywood roof deck through a foam insulation wedge with 0.120" x 3" ring shank nails at 6" oc. The front flange attached through the back flange of the panel in the course below, and into the roof deck, with #10 x 2-1/2" HWH wood screws at 6" oc.	124
Method 2	Front and back flanges attached to nominal 2 x 2 wood battens with 0.131" x 2-3/8" ring shank nails at 6" oc. Battens are minimum S.G. of 0.42, attached to min. 15/32-in. plywood with 0.120-in. x 3-in. ring shank nails at 6-in. oc. A foam insulation wedge is loose laid under the tile next to the batten.	116
Method 3	Front and back flanges attached to nominal 2 x 2 wood battens with #10 x 1-1/2" screws at 6" oc. Battens are minimum S.G. of 0.42, attached to min. 15/32-in. plywood with 0.120-in. x 3-in. ring shank nails at 6-in. oc. A foam insulation wedge is loose laid under the tile next to the batten.	86



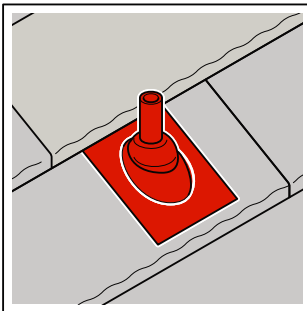
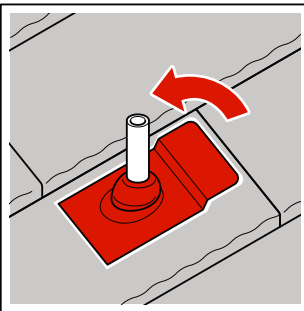
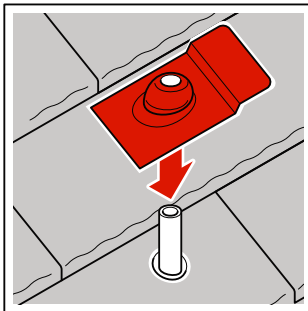




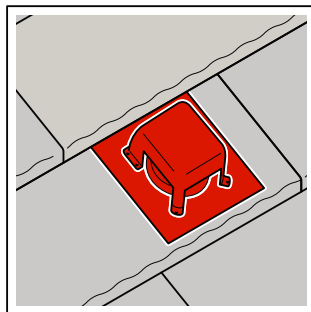
**PIPE JACK**

Lead pipe jacks can react with Galvalume metal, leading to galvanic corrosion

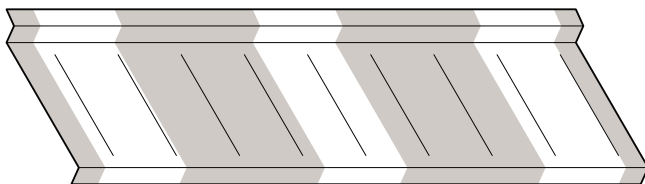
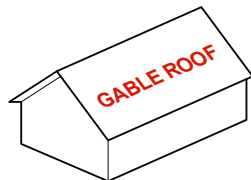
CAUTION: High temp underlayment is a requirement*

**VENTILATION**

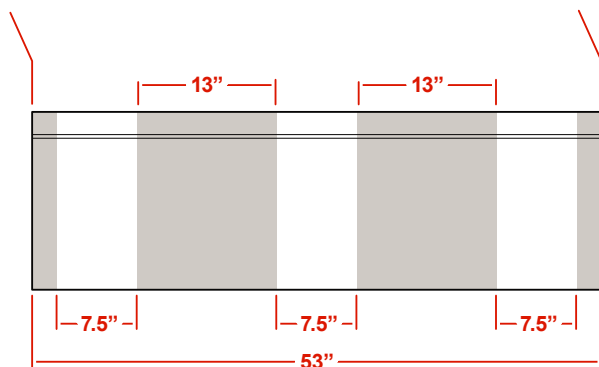
Install ventilation products for optimal shingle life. See General Instructions and the "Through Ventilation" section. Follow the application instructions for the selected ventilation products.



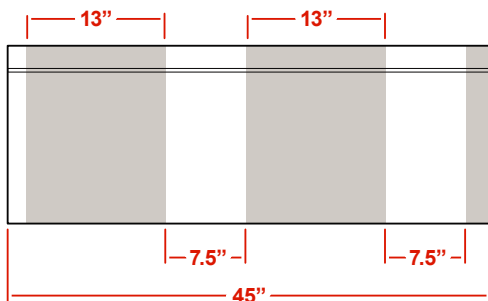
Variegated tiles to be full panels on top row, followed by a second row with first tile cut back 16", followed by a third row with first tile cut back 8". Final tile in each row is cut as required to line up with trailing edge of row. Pattern repeats starting with fourth row.



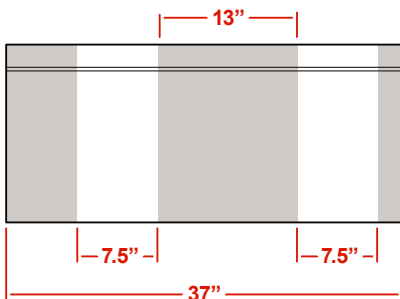
1 FULL PANEL

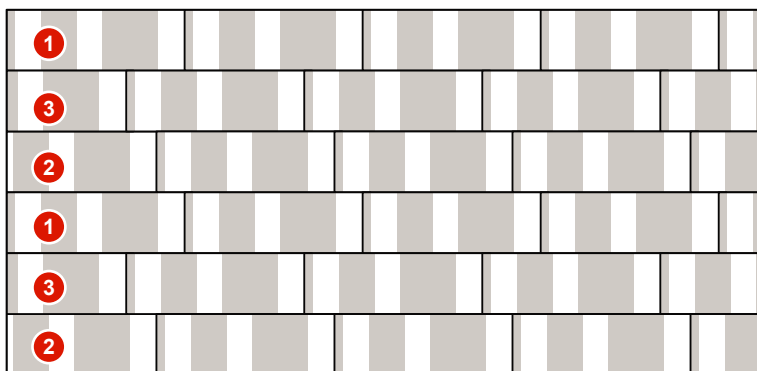
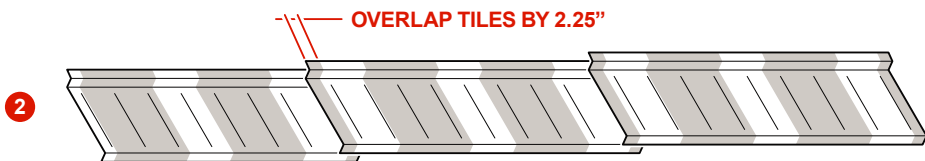
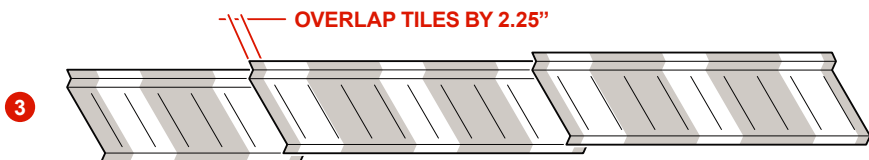
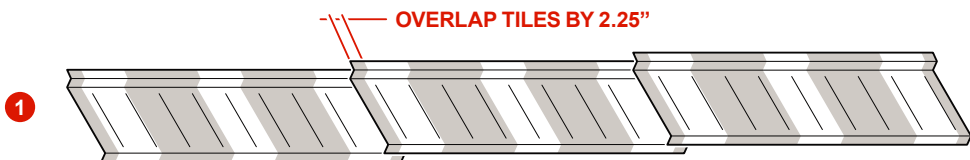
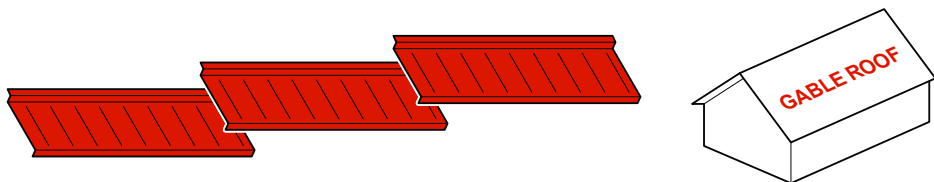


2 PANEL CUT BACK 8 INCHES

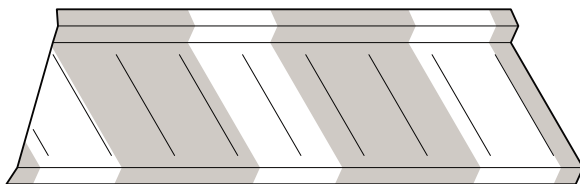


3 PANEL CUT BACK 16 INCHES

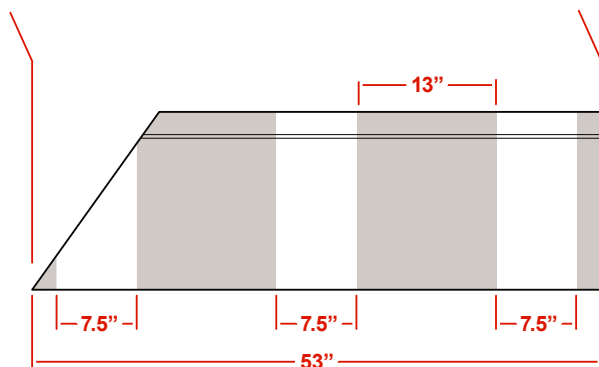




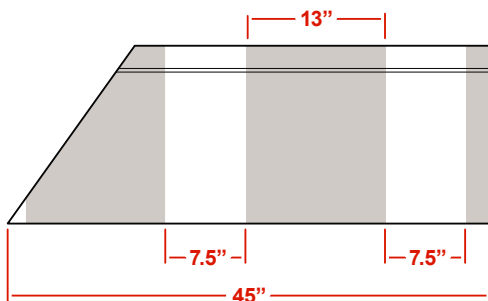
Variegated tiles to be full panels on top row, followed by a second row with first tile cut back 8", followed by a third row with first tile cut back 16". Final tile in each row is cut as required to line up with trailing edge of row. Pattern repeats starting with fourth row.



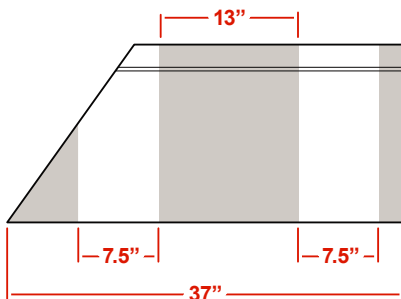
1 FULL PANEL

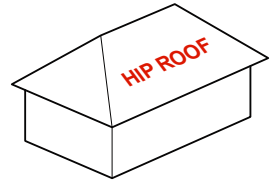
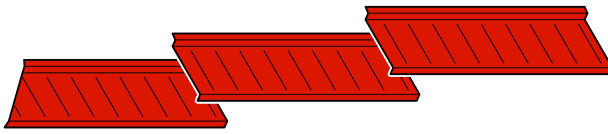


2 PANEL CUT BACK 8 INCHES

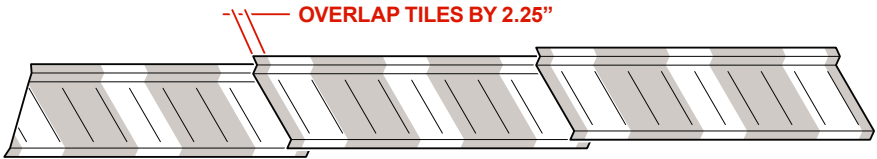


3 PANEL CUT BACK 16 INCHES

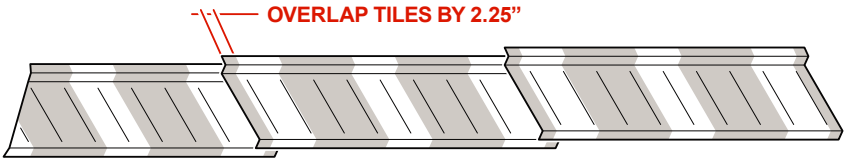




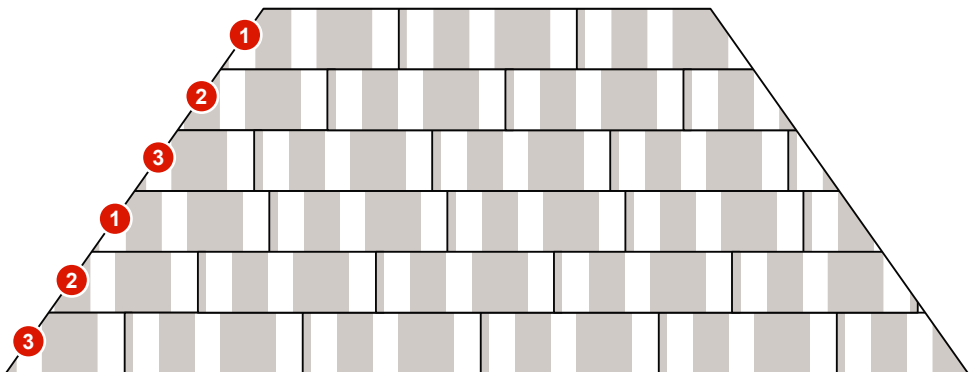
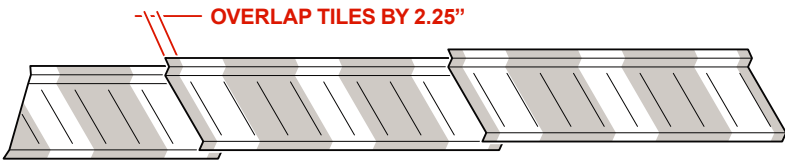
1



2



3



HURRICANE [®] METAL TILE		HURRICANE [®] METAL SHAKE		HURRICANE [®] METAL SHAKE PRO		HURRICANE [®] TEK METAL SHINGLE	
<div><div></div><div></div></div> <div>CHARCOAL TERRACOTTA</div>		<div><div></div><div></div></div> <div>MOCHA BROWN WEATHER WOOD +</div>		<div><div></div><div></div><div></div></div> <div>CHARCOAL SADDLE BROWN GRAY</div>		<div><div></div></div> <div>WEATHER WOOD</div>	
<div><div></div></div> <div>50 1/4"</div> <div>16 3/4"</div> <div>LENGTH: 50 1/4"</div> <div>WIDTH: 16 3/4"</div> <div>WEIGHT: 5.6 lb</div>		<div><div></div></div> <div>52 3/4"</div> <div>16 1/8"</div> <div>LENGTH: 52 3/4"</div> <div>WIDTH: 16 1/8"</div> <div>WEIGHT: 5.7 lb</div>		<div><div></div></div> <div>52 1/4"</div> <div>14 1/8"</div> <div>LENGTH: 52 1/4"</div> <div>WIDTH: 14 1/8"</div> <div>WEIGHT: 5.3 lb</div>		<div><div></div></div> <div>39 3/4"</div> <div>13 1/8"</div> <div>6"</div> <div>9 1/8"</div> <div>3/4"</div> <div>LENGTH: 39 3/4"</div> <div>WIDTH: 13 1/8"</div> <div>WEIGHT: 3 lb</div>	
BATTENS		BATTENS FOAM		BATTENS		FOAM	
<div><div></div></div> <div>HIP / RIDGE / RAKE WITH END CAP</div> <div>LENGTH: 16 1/4"</div> <div>WIDTH: 6"</div> <div>HEIGHT: 3 1/4"</div> <div>WEIGHT: 0.9 lb</div>		<div><div></div></div> <div>HIP / RIDGE CAP</div> <div>LENGTH: 17 1/2"</div> <div>WIDTH: 8"</div> <div>WEIGHT: 1 lb</div>		<div><div></div></div> <div>HIP / RIDGE CAP</div> <div>LENGTH: 17 1/2"</div> <div>WIDTH: 8"</div> <div>WEIGHT: 1 lb</div>			
<div><div></div></div> <div>VALLEY</div> <div>LENGTH: 6'6 3/4"</div> <div>WIDTH: 6 1/2"</div> <div>WEIGHT: 4.4 lb</div>		<div><div></div></div> <div>VALLEY</div> <div>LENGTH: 6'6 3/4"</div> <div>WIDTH: 6 1/2"</div> <div>WEIGHT: 4.4 lb</div>		<div><div></div></div> <div>VALLEY</div> <div>LENGTH: 6'6 3/4"</div> <div>WIDTH: 6 1/2"</div> <div>WEIGHT: 4.4 lb</div>		<div><div></div></div> <div>VALLEY</div> <div>LENGTH: 78 3/4"</div> <div>WIDTH: 8 3/8"</div> <div>BENDS: 4 1/2"</div> <div>WEIGHT: 4.3 lb</div>	
<div><div></div><div></div><div></div></div> <div>6", 9", 18" FLAT SHEETS</div> <div>LENGTH: 78 3/4"</div>		<div><div></div><div></div><div></div></div> <div>6", 9", 18" FLAT SHEETS</div> <div>LENGTH: 78 3/4"</div>		<div><div></div><div></div><div></div></div> <div>6", 9", 18" FLAT SHEETS</div> <div>LENGTH: 78 3/4"</div>		<div><div></div><div></div><div></div></div> <div>6", 9", 18" FLAT SHEETS</div> <div>LENGTH: 78 3/4"</div>	
<div><div></div></div> <div>Z-BAR SIDE FLASHING</div> <div>LENGTH: 6'6 3/4"</div> <div>WIDTH: 5 1/2"</div> <div>WEIGHT: 2.8 lb</div>		<div><div></div></div> <div>Z-BAR SIDE FLASHING</div> <div>LENGTH: 6'6 3/4"</div> <div>WIDTH: 5 1/2"</div> <div>WEIGHT: 2.8 lb</div>		<div><div></div></div> <div>Z-BAR SIDE FLASHING</div> <div>LENGTH: 6'6 3/4"</div> <div>WIDTH: 5 1/2"</div> <div>WEIGHT: 2.8 lb</div>		<div><div></div></div> <div>STEP FLASHING</div> <div>LENGTH: 8"</div> <div>WIDTH: 4"</div> <div>HEIGHT: 4"</div>	
<div><div></div></div> <div>BIRD STOP EAVE</div> <div>LENGTH: 78 5/8"</div> <div>WIDTH: 7 1/4"</div> <div>WEIGHT: 3.2 lb</div>		<div><div></div></div> <div>REVERSIBLE EAVE TRIM</div> <div>LENGTH: 6'6 3/4"</div> <div>INWARD HEM: 2 1/4"</div> <div>OUTWARD HEM: 3 1/4"</div> <div>WEIGHT: 2.8 lb</div>		<div><div></div></div> <div>INTERLOCKING EAVE TRIM</div> <div>LENGTH: 6'6 3/4"</div> <div>TOP BEND: 3"</div> <div>BOTTOM BEND: 3"</div> <div>LOCK: 2 1/2"</div> <div>WEIGHT: 4 lb</div>		<div><div></div></div> <div>METAL STARTER STRIP</div> <div>LENGTH: 78 3/4"</div> <div>WIDTH: 7 3/4"</div> <div>HEM: 1 1/4"</div> <div>WEIGHT: 4.3 lb</div>	
<div><div></div></div> <div>BIRD STOP RIDGE</div> <div>LENGTH: 77 3/4"</div> <div>WIDTH: 7 1/2"</div> <div>WEIGHT: 3.4 lb</div>		<div><div></div></div> <div>CAPPED RAKE TRIM</div> <div>XL</div> <div>LENGTH: 6'6 3/4"</div> <div>TOP BEND: 2 1/4"</div> <div>BOTTOM BEND: 4 3/4"</div> <div>WEIGHT: 4 lb</div> <div>LENGTH: 6'6 3/4"</div> <div>TOP BEND: 2"</div> <div>BOTTOM BEND: 3"</div> <div>WEIGHT: 2.8 lb</div>		<div><div></div></div> <div>CAPPED RAKE TRIM</div> <div>XL</div> <div>LENGTH: 6'6 3/4"</div> <div>TOP BEND: 2 1/4"</div> <div>BOTTOM BEND: 4 3/4"</div> <div>WEIGHT: 4 lb</div> <div>LENGTH: 6'6 3/4"</div> <div>TOP BEND: 2"</div> <div>BOTTOM BEND: 3"</div> <div>WEIGHT: 2.8 lb</div>			
<div><div></div></div> <div>ROLL OVER RAKE TRIM</div> <div>LENGTH: 6'6 3/4"</div> <div>TOP BEND: 2"</div> <div>BOTTOM BEND: 2 1/2"</div> <div>EXPOSED GRANULES: 1 1/4"</div> <div>WEIGHT: 2.8 lb</div>		<div><div></div></div> <div>ROLL OVER RAKE TRIM</div> <div>LENGTH: 6'6 3/4"</div> <div>TOP BEND: 2"</div> <div>BOTTOM BEND: 2 1/2"</div> <div>EXPOSED GRANULES: 1 1/4"</div> <div>WEIGHT: 2.8 lb</div>		<div><div></div></div> <div>ROLL OVER RAKE TRIM</div> <div>LENGTH: 6'6 3/4"</div> <div>TOP BEND: 2"</div> <div>BOTTOM BEND: 2 1/2"</div> <div>EXPOSED GRANULES: 1 1/4"</div> <div>WEIGHT: 2.8 lb</div>		<div><div></div></div> <div>ROLL OVER RAKE TRIM</div> <div>LENGTH: 6'6 3/4"</div> <div>TOP BEND: 2"</div> <div>BOTTOM BEND: 2 1/2"</div> <div>EXPOSED GRANULES: 1 1/4"</div> <div>WEIGHT: 2.8 lb</div>	
<div><div></div></div> <div>FOAM</div> <div>LENGTH: 47 1/4"</div> <div>WIDTH: 10"</div> <div>HEIGHT: 3"</div>		<div><div></div></div> <div>STANDARD FOAM</div> <div>LENGTH: 49 1/2"</div> <div>WIDTH: 8"</div> <div>TOP THICKNESS: 3/16"</div> <div>BOTTOM THICKNESS: 13/16"</div>		<div><div></div></div> <div>PRO FOAM</div> <div>LENGTH: 49 1/2"</div> <div>WIDTH: 8"</div> <div>TOP THICKNESS: 6/16"</div> <div>BOTTOM THICKNESS: 1"</div>		<div><div></div></div> <div>TACKY TAPE ROLL</div> <div>LENGTH: 45 ft</div> <div>WIDTH: 1"</div>	
<div><div></div></div> <div>BATTENS 2 x 2 x 7 1/2</div> <div>BUNDLE: 12pc</div>		<div><div></div></div> <div>BATTENS 2 x 2 x 7 1/2</div> <div>BUNDLE: 12pc</div> <div><div></div></div> <div>RAKE BATTENS 1 x 2 x 7 1/2</div> <div>SINGLE PIECES</div> <div><div></div></div> <div>VALLEY BATTENS 1 x 4 x 7 1/2</div> <div>SINGLE PIECES</div>		<div><div></div></div> <div>BATTENS 2 x 2 x 7 1/2</div> <div>BUNDLE: 12pc</div> <div><div></div></div> <div>RAKE BATTENS 1 x 2 x 7 1/2</div> <div>SINGLE PIECES</div> <div><div></div></div> <div>VALLEY BATTENS 1 x 4 x 7 1/2</div> <div>SINGLE PIECES</div>		<div><div></div></div> <div>PIPE JACK</div> <div>LENGTH: 14 1/2"</div> <div>WIDTH: 10 3/4"</div> <div>WEIGHT: 0.9 lb</div> <div><div></div></div> <div>SLANT BACK AIR VENT</div> <div>LENGTH: 16 3/4"</div> <div>WIDTH: 14"</div> <div>WEIGHT: 1.9 lb</div>	
<div><div></div></div> <div>BOTTLE OF GRAN-ULES</div> <div>CAPACITY: 16oz</div>		<div><div></div></div> <div>BOTTLE OF GRAN-ULES</div> <div>CAPACITY: 16oz</div>		<div><div></div></div> <div>BOTTLE OF GRAN-ULES</div> <div>CAPACITY: 16oz</div>		<div><div></div></div> <div>BOTTLE OF GRAN-ULES</div> <div>CAPACITY: 16oz</div>	
		<div><div></div></div> <div>RAKE TRIM GUIDE • TOOL •</div>		<div><div></div></div> <div>RAKE TRIM GUIDE • TOOL •</div>			
		<div><div></div></div> <div>WOOD BATTEN SPACER • TOOL •</div>					