



GRANITE RIDGE

Installation Manual

vicwest.com



BUILDING FOR TOMORROW



Vicwest Building Products is a distributor of Granite Ridge, a Boral Steel Roofing product.

Table of Contents	Page(s)
Important Notices	3
Residential Roofing Application	4
Trims & Accessories	5
Trim & Accessory Glossary	6, 7, 8
Estimating Material	9
Roof Preparation: 5 Steps	10, 11
Shingle Installation	12
Sidewall, Endwall, Headwall, & Valley Cap Details (Chimney / Skylights)	13, 14, 15
Dektite® Combo Flashing	16
Touch Up & Repair Options	17
Warranty	18

Important Notices

This Installation Manual is designed as an instructional tool to clearly depict to the contractor, installer, distributor and architect, recommended installation techniques and procedures to confidently estimate and install a Vicwest Granite Ridge roofing system. Great care must be taken to use the proper flashings and fittings to ensure a perfect, long lasting, leak proof roof. Many inexperienced applicators try to cut corners but the end result is a roof that fails! Please follow this guide and if you have any questions, contact your Vicwest Dealer for further information. Vicwest offers this installation as a guideline only and assumes no responsibility whatsoever regarding improper installation or improper use of its products.

The contents of this manual include the guidelines that were in effect at the time this publication was originally printed. In an effort to keep pace with the ever-changing code environment, Vicwest retains the right to change specifications and/or designs at any time without incurring any obligations.

Due to the fact that Vicwest has no control over the actual installation techniques used, no warranty is expressed or implied relating to installation of the product.

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

1. Granite Ridge Shingles must be stored indoors.
2. Vicwest recommends the use of a Tru Shear, Turbo Shear or metal snips for cutting of the Granite Ridge product.
3. Storage:
 - (a) Always unload in dry weather or keep the material covered while unloading into a well ventilated building.
 - (b) Inspect shipment immediately. If sheets are already wet, sign the freight bill accordingly and file a claim with the carrier.
 - (c) Store product indoors.

Colour Variations

It is important to order all the material for a project at the one time as shade consistency between batches cannot be guaranteed, due to normal manufacturing tolerances.

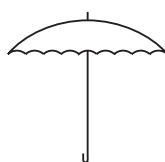
Fastening into Pressure Treated Wood

All cladding should not be applied directly to treated lumber, the cladding needs to be isolated from the treated lumber. Barriers, such as ice and water shield, are required to prevent direct contact between the cladding and the treated lumber. Based on recommendations received from our suppliers, all fasteners exposed to the new preservative formulations in pressure treated lumber must be of stainless steel.

REMEMBER, ON ALL APPLICATIONS

1. Always use screws, not nails.
2. Use a proper screw gun, not a drill with a socket.
3. Use the proper flashing around the vents.
4. Flash all exposed edges.
5. All cutting of Granite Ridge should be done with a shear or metal snips

Before proceeding with such an installation, always consult your local building inspector. Vicwest offers this installation as a guideline only and assumes no responsibility whatsoever regarding improper installation or improper use of its products.



KEEP DRY PRIOR
TO INSTALLATION

WET PANELS MUST
BE SEPARATED TO DRY!

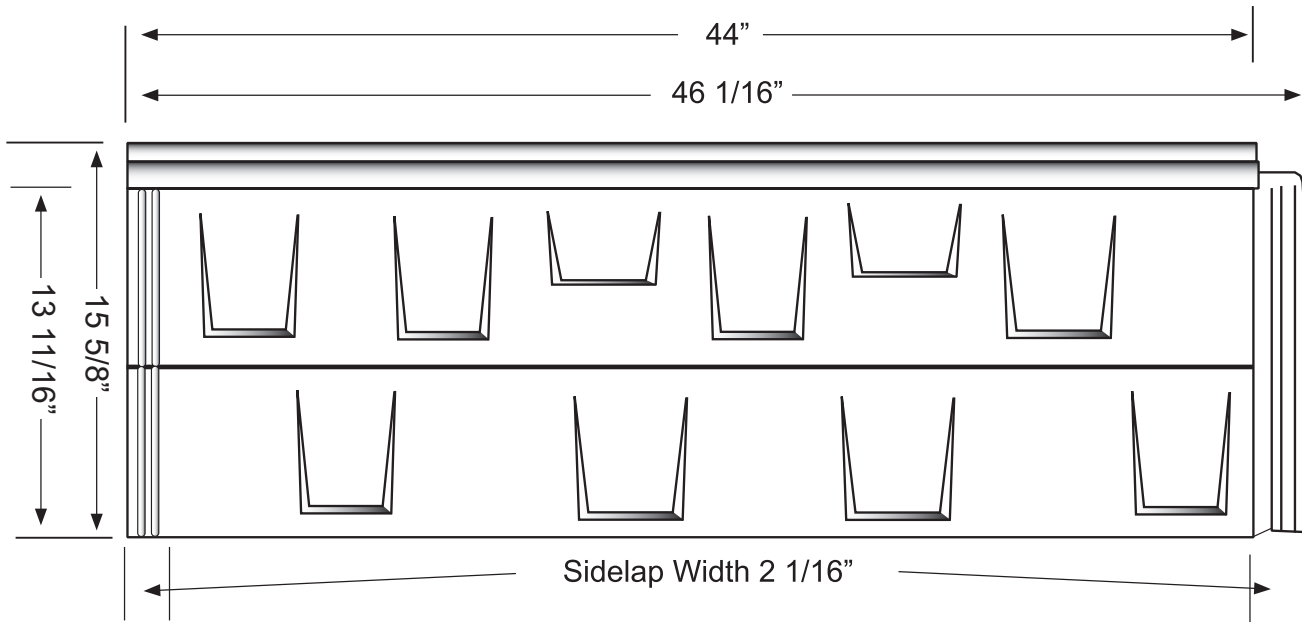
Residential Roofing Application

Granite Ridge

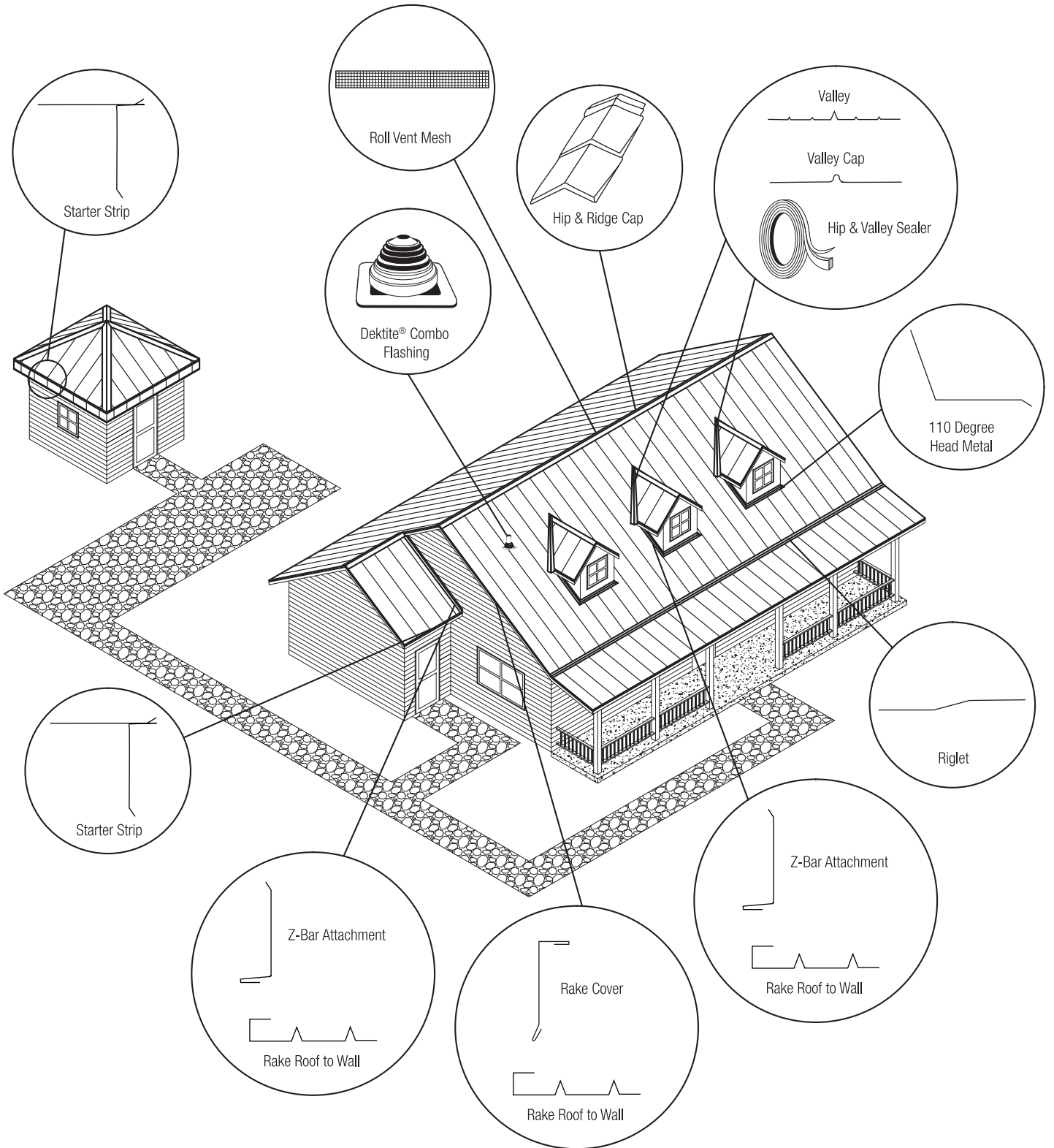
Weighing less than half that of woodshake and an eighth the weight of clay tile, Granite Ridge Architectural Shingles™ will ease the stress on your home's structure and reduce the chance of it caving in due to natural disaster. The 26 gauge Zinc alum steel and triple coat finish make Vicwest's Granite Ridge Architectural Shingles™ virtually undaunted by nature!

Product Overview

Panel Size:	46-1/16" x 15-5/8" (1170 mm x 397 mm)		
Weight:	1.2 lbs/ sq. ft (5.856 kg / sq. m)		
	120 lbs/ covered square (54.43 kg/ 9.29 sq. m)		
Panel Exposure:	4.17 sq.ft per panel (44" x 13-11/16") 24 shingles per square		
Available Gauge(s):	26 ga.	Application:	Min Roof Pitch 4:12
Available Finishes:	Stone Coated		



Trims & Accessories

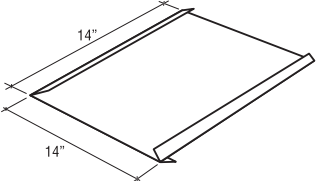
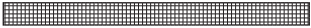
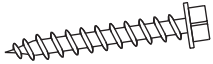


Trim and Accessory Glossary

TRIM/ACCESSORY			DESCRIPTION
Valley Cap			Stone Coated (120" Length)
Valley			Non-Stone Coated (120" Length)
Reglet			Non-Stone Coated (120" Length)
Z-Bar Attachment			Stone Coated (120" Length)
Rake/Roof to Wall			Non-Stone Coated (120" Length)
Rake Cover			Stone Coated (120" Length)
Starter Strip			Stone Coated (120" Length)
110° Head Metal			Stone Coated (120" Length)
Hip and Ridge Cap			Stone Coated (14" Length)
Dektite® Combo Flashing			Available in Black

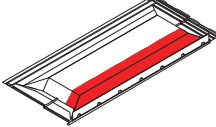
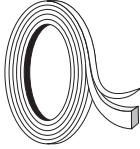
Trim and Accessory Glossary

TRIM/ACCESSORY	DESCRIPTION
Vicwest Synthetic Underlayment	48" x 250' roll covers 1000 sq.ft
* Vicwest Self Adhering Underlayment	36" x 66.7' covers 200 sq.ft
Galvanized Woodgrip Screws (No Washers)	#9 x 1-1/2" (38 mm)
Roll Vent Mesh	20' x 7" x 5/8"
Sealant	Colour Matched
Stone Coating Repair Kit	Colour Matched
'Z' Metal	8'-0" (2443 mm)
Pipe Jack Tray	14" x 14"
Stitch Screw	#8 x 1/2"



* Vicwest Self Adhering Underlayment is strongly recommended to cover 3' of roof perimeter and on all hips and valleys

Trim and Accessory Glossary

TRIM/ACCESSORY	DESCRIPTION
EZ Vent (Ventilation Option for High Wind Regions)	
Hip and Valley Sealer (Under Valley Cap)	
	<p>3/4" x 1" x 19'-10-1/4" long (19.05 mm x 25.4 mm x 6051.55 mm)</p>

RECOMMENDED TOOLS



Tru-Cut Shear



TSHD Turbo Shear

- Standard Claw Hammer
- 50' or 100' Tape Measure
- Screwdrivers (optional power drive)
- Utility Knife (when re-roofing over composition shingle)

- Tin Snips
- Caulking Gun
- Chalk Line
- Needle-Nose Pliers

Determining How Much Material You'll Need

Quick Step Method (approximate)

1. Determine roof square footage without waste.

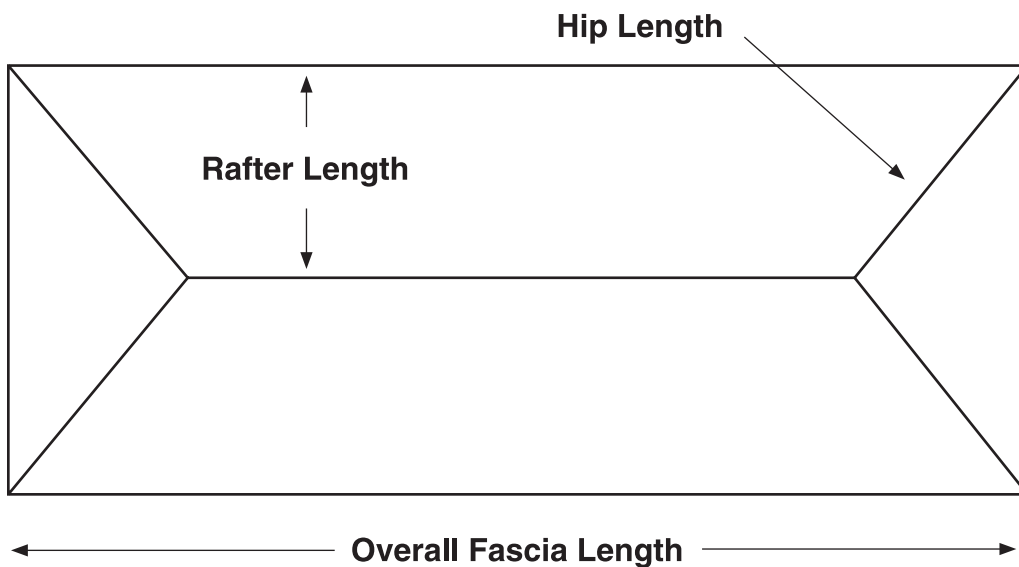
Overall Fascia Length x (Rafter Length x2) = Square Footage Without Waste

2. Add total linear feet of all hips and valleys. Multiply by 2.

3. Add totals from steps 1 and 2.

4. Multiply total by 1.03. This yields roof square feet including waste.

Note: 1 square (100 sq. ft. of roof material = 24 shingles)



Roof Preparation: 5 Steps

Granite Ridge can be installed over low profile composition shingle or over solid sheathing with Vicwest underlayment. If you choose to re-roof over lower profile composition shingles the procedures are as follows:

Granite Ridge Shingles should not be installed on roofs with less than a 4:12 slope.

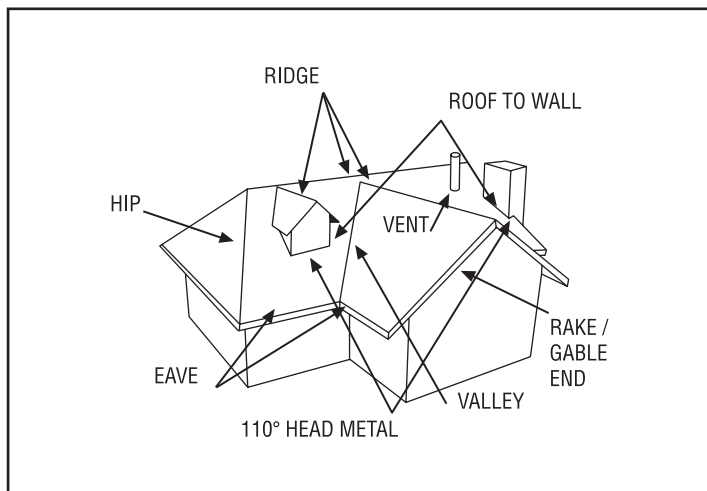
Re-roof:

A synthetic underlayment should be installed over the existing shingles prior to installation.

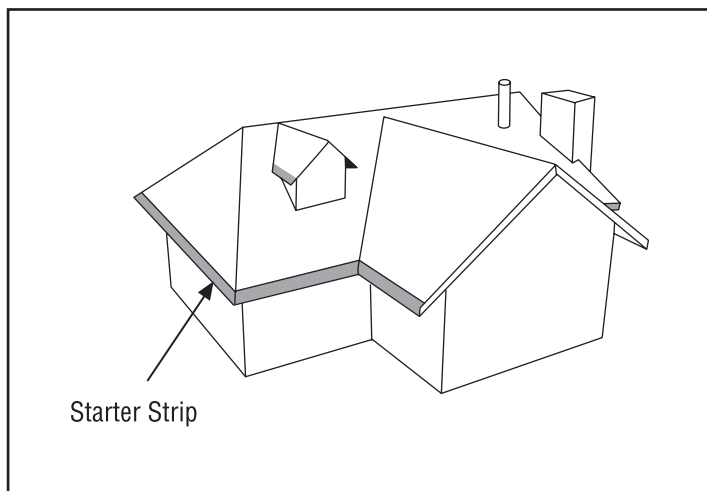
New Construction:

Granite Ridge should be installed over solid plywood decking with a minimum thickness of 15/32". A synthetic underlayment should be used over the decking.

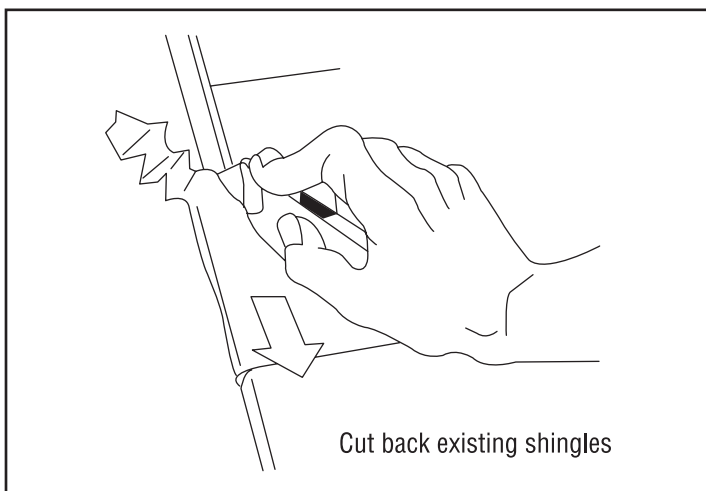
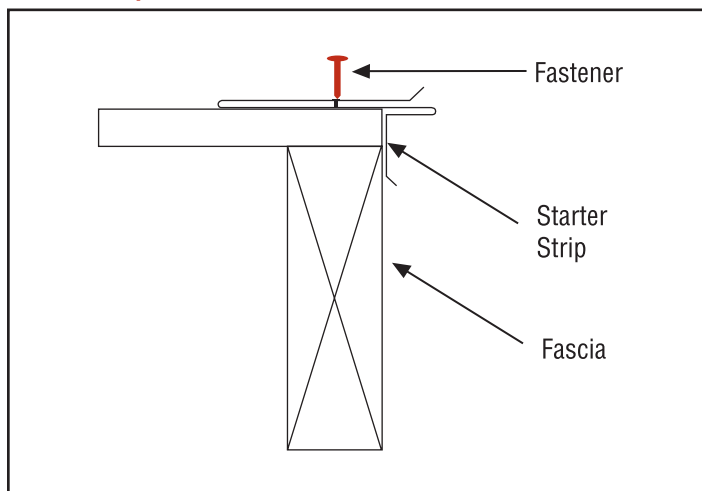
1. Cut back existing shingles flush with the perimeter of the roof.
2. Remove existing drip edge.
3. Remove hip and ridge cap.
4. Use a chalk line when installing the starter strip. Do not depend on the roof edge to be straight or square. Fasten starter strip every 16" along the fascia line.
5. Before installing Hip and Ridge cap, place a 3 ft. perimeter of Vicwest Self Adhered underlayment along the hip and ridge line.



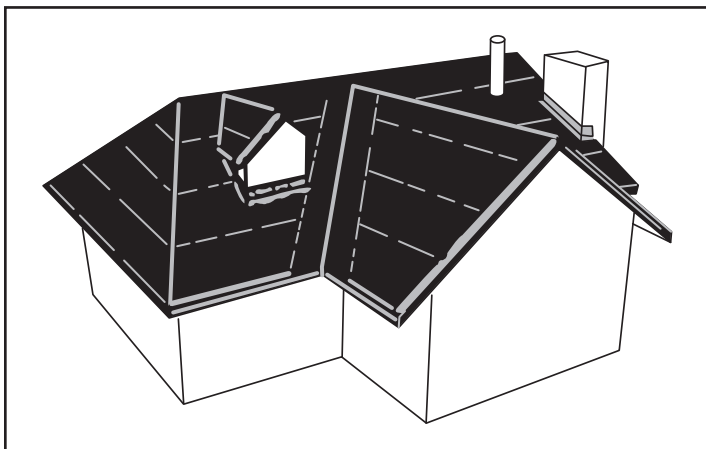
If Applying to New Roof



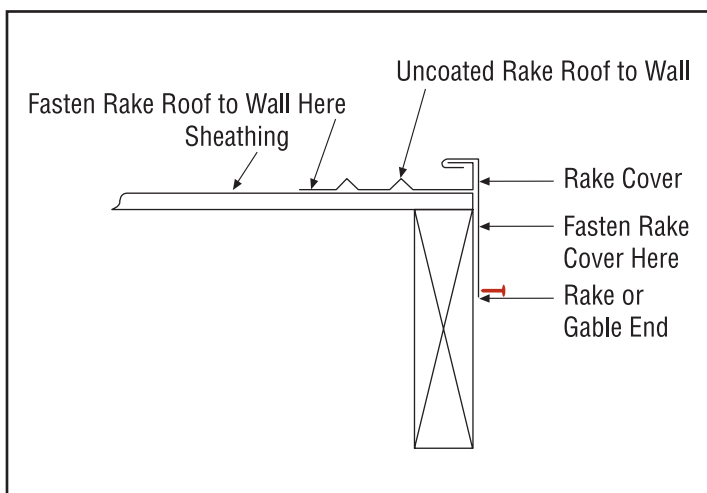
Starter Strip Detail



1. Lay one layer of Vicwest underlayment up the valley. If you live in an area where ice damming occurs, use the Vicwest Self-Adhered underlayment. Cover the entire roof with Vicwest underlayment. At the valleys weave the opposing courses of underlayment. It is recommended that Vicwest Self Adhering Underlayment be installed 3' around the perimeter and on all hips and valleys.

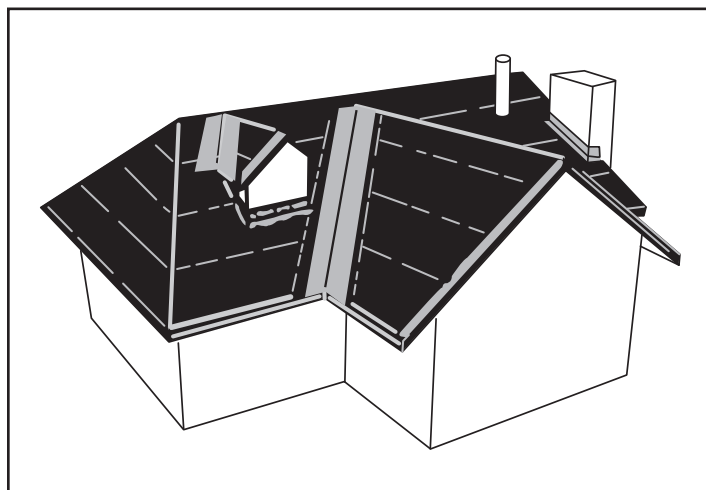


2. Install the starter strip along the eave using wood screws long enough to penetrate the deck a minimum of 1/2". Screws should be placed every 16". Use a chalk line to establish the proper location of the starter strip. Do not depend on the roof edge to be straight or square.
3. Install the uncoated rake/roof to wall up the gable or rake, fastening it where shown in diagram below. It is sometimes easier to assemble the rake cover on to the rake/roof to wall before installing. When done this way, shorten the first (bottom piece) of rake cover in order to prevent all the ends from lining up. Head lap is necessary for the rake roof to wall approx 3". The rake cover should be notched at the top flange in order to achieve side lap 1 - 1/2" is sufficient.



4. Ensure that the bottom end of the rake/roof to wall overlaps the top flange of the starter strip - just short of hanging off the edge.
5. The uncoated valley must be positioned in each of the valley areas of the roof. The bottom edge of the valley should be positioned so that the entire width of the valley extends just beyond the eave. Sealant should be placed between the starter strip and the valley. Valley overhang may be cut back to accommodate rain gutter systems. Fasten the valley through the outer channel using wood screws every 16 inches.

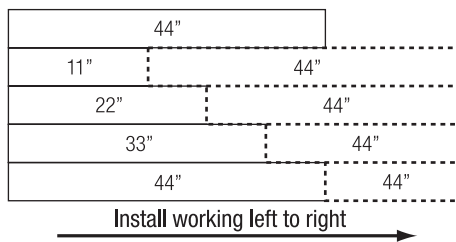
Note: Location of valley at edge of fascia should be at the beginning of the first inside flutes of the valley. (see diagram below)



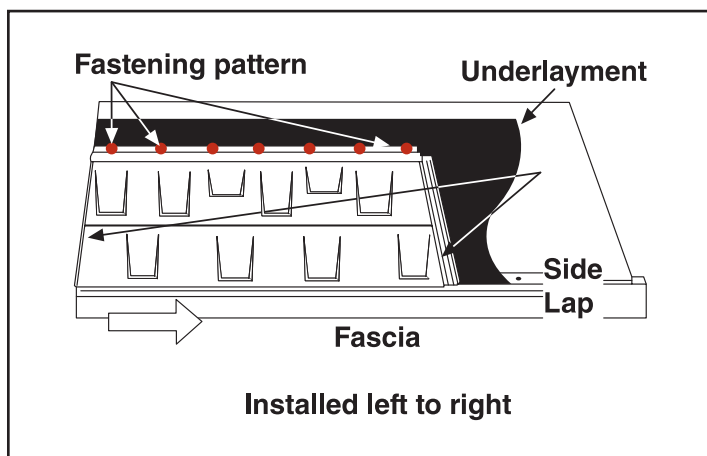
Shingle Installation

Install Pattern

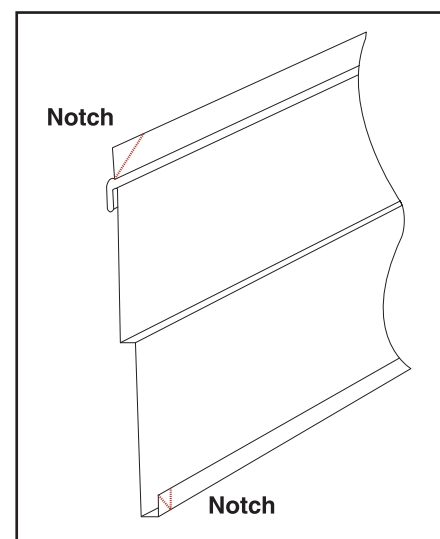
1. Always work from left to right following the course recommendation.
2. 1st course - Full shingle 44"
3. 2nd course - cut shingle to 33"
4. 3rd course - cut shingle to 22"
5. 4th course - cut shingle to 11"
6. Repeat process starting with a full shingle.



1. At the eave and starting from left to right, begin installing the shingles. Take care to interlock the nose end of the shingle with the nose end of the starter strip. Fasten the first course using seven screws per shingle along the nailing strip provided at the back of the shingle.

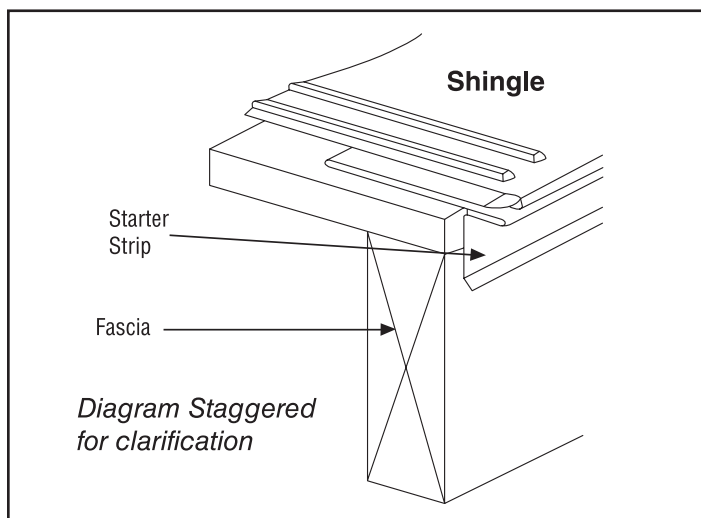


4. On all gable, roof to wall, and valley panels, snip off the top corner of the nail strip to 45° (gable panels would be snipped on the gable side and valley and roof to wall panels snipped on the cut side). At the bottom of these same shingles, make a "v" shaped notch at the nose.



2. The eave shingle at the bottom of the rake/roof to wall or valley metal must have the nose cut and folded under to allow for drainage. The shingle cut must just be wide enough to reveal the full width of the rake/roof to wall or valley metal. It is recommended to leave the valley cuts 1/2" short of the center flute of the valley. For installations with an off-set eave, use the reglet. The reglet is an extension of the starter strip. Reglet must be set in sealant and fastened through the top of the under panel every six inches. If you have difficulty closing some side laps, the following procedure can be used: Apply a 1-1/2" corrosion resistant screw directly beneath the mid shelf of the top shingle and approximately 3" to the right of the side lap. This screw is to be of sufficient length to pass completely through the roof sheathing. Do not stitch the side lap together. Do not over tighten the fastener.
3. When installing any panel except for the first one in each course, it is very important to do the following: After positioning the panel on the roof and making sure the Pittsburgh lock is completely secure, place one hand on the left side of the panel, and with the other hand pull up on the top left side of the same panel, bending it up - across the center step area to approx 45°. Then push the panel back down, to ensure the lap is tight. Then fasten the panel in the manner specified. This bending procedure will ensure that all of the sidelap seams will remain tightly closed.

5. When installing Granite Ridge panels it is very important to install the panels in uniformly straight course. Always be sure to apply each panel with the Pittsburgh locks completely connected. Not doing so could allow panels to become disconnected from each other and pop up, creating a problem. **Always ensure the panels are staggered to avoid a zipper look upon completion.**

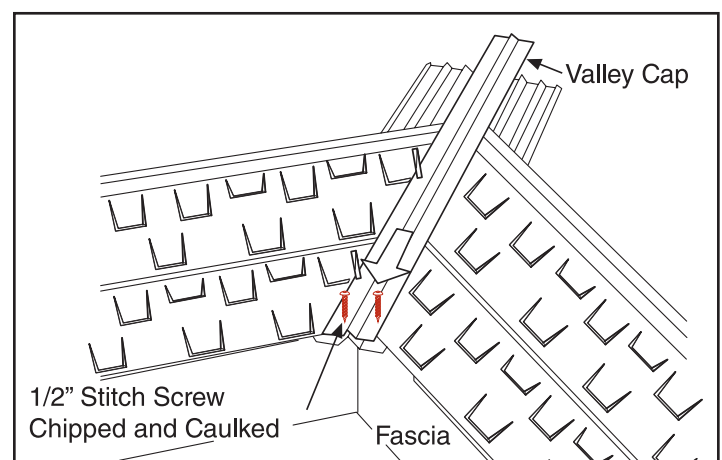
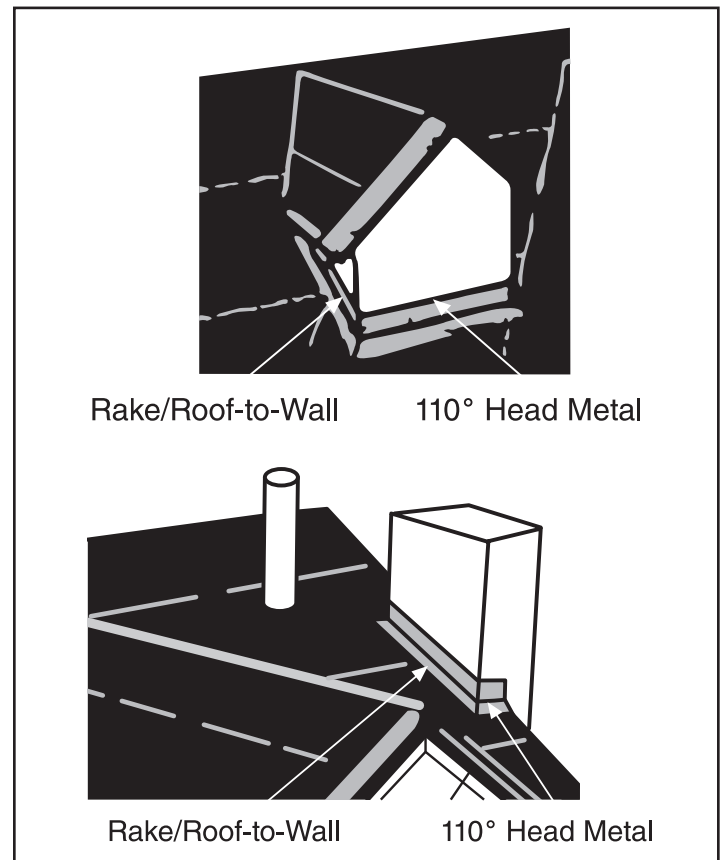
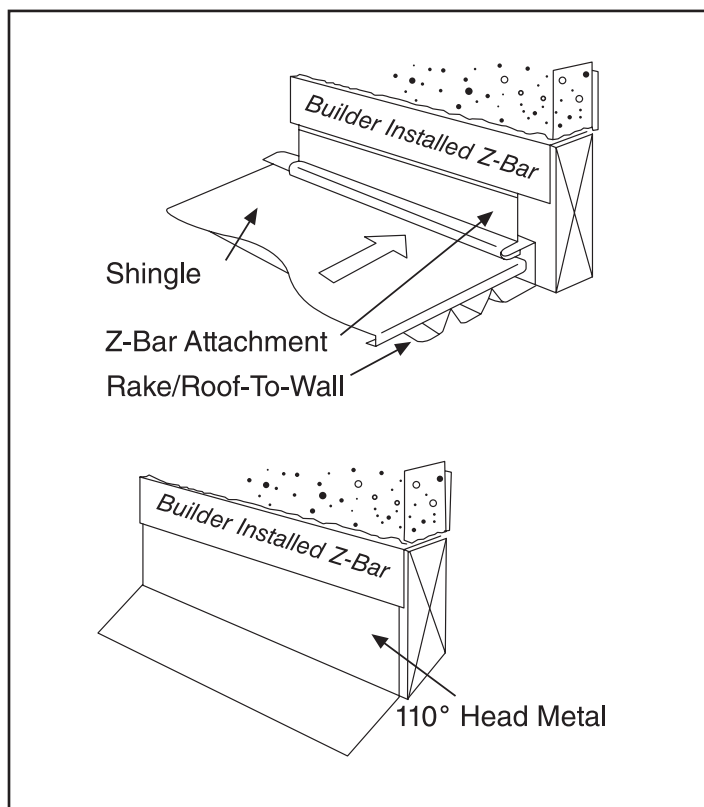


Sidewall, Endwall, Headwall and Valley Cap Details (Chimneys / Skylights)

Chimneys, skylights and roof to wall are flashed using the rake/roof to wall accessory along with the Z-bar attachment.

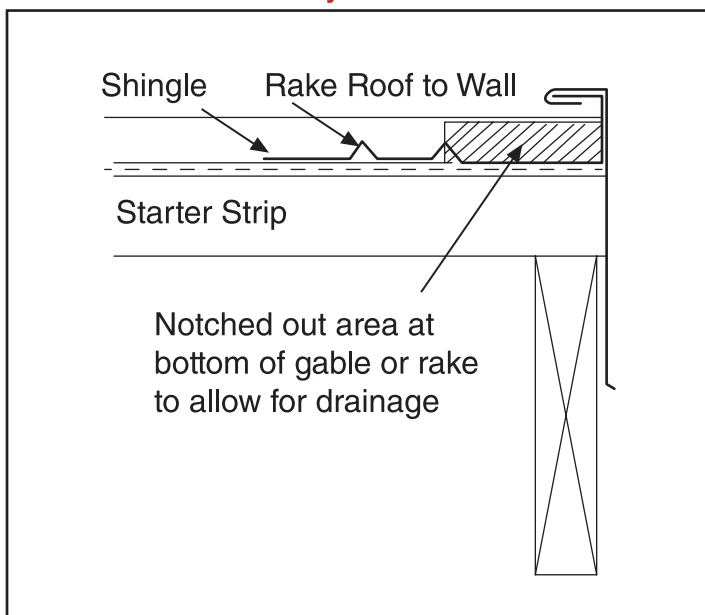
1. Rake/roof to wall is placed at the sidewall and fastened at 16" on center. Make certain the rake/roof to wall drains on top of a field shingle or just beyond the starter strip.
2. After shingles are installed, interlock the Z-Bar attachment to the rake/roof to wall.
3. Select the proper corrosion resistant fastener and attach the Z-Bar Attachment to the wall and seal. Fasteners not to exceed 16" on center.
4. After a shingle has been cut to fit the headwall, attach the 110° head metal over the cut shingle and attach to the roof penetration. 110° head metal must be set in sealant. Select the proper corrosion resistant fastener and attach the 110° head metal to the wall and seal. Fasteners not to exceed 16" on center.
5. Valley cap is placed over the valley concealing the mitered valley cuts and screwed every 12" along the length of the valley to the Granite Ridge shingles with 1 1/2" #9 Woodgrip screws, taking care not to penetrate the valley. In wooded areas or roof lines with a low slope and long valley runs can allow debris to pass under the

valley cap and into the valley below. The debris can cause a blockage and force the valley to overflow. The foam closure allows water but not debris to enter the valley.

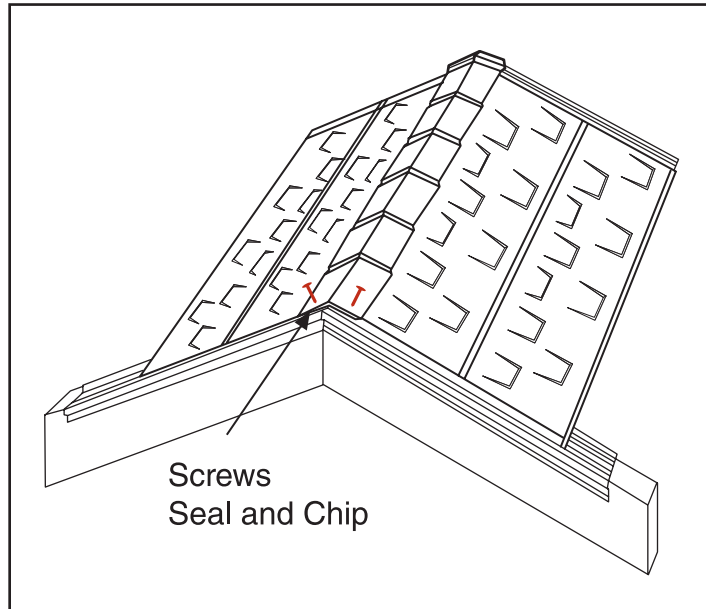


1. The shingles above the eave course are installed by interlocking the nose end of the shingle with the back end of the shingle of the preceding course concealing the nailing strip.
2. Place a strip of 5" - 6" wide peel-and-stick material over the cut shingles along the hip and ridge and cover with hip and ridge cap.
3. Secure the first hip and ridge cap with corrosion resistant screws. Continue installing the caps fastening them at the top nailing strip.

Rake/Roof to Wall Accessory Metal



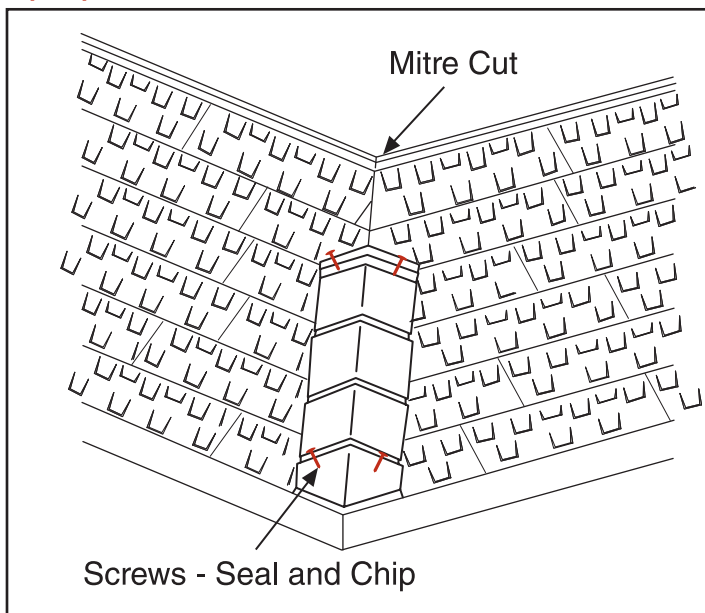
Ridge Cap



Vented Ridge Detail (optional)

1. Remove 4" of decking at the ridge (2" from both sides).
2. Install underlayment, making sure to cut out the vent strip.
3. Starting at the eave and working up, install the Granite Ridge shingles to the edge of the ridge vent cut out and fasten using #9 wood screws at the top of the edge of the panel.
4. Install Ridge Roll to the center of the ridge making sure it's straight. Fasten to the decking using 1-1/4" galvanized roofing nails at one end of the roll. Stretch the roll tight and secure. (Fasten to the roof with the mesh material facing down.)
5. Working left to right, install the ridge cap on top of the ridge roll and fasten through the fastening flange located at the back edge of the cap. (Ensure the ridge roll material is completely covered.)
6. Install all preceding caps by locking into the panel and installing #9 screws into the fastening flange.
7. **Note:** both the Ridge Roll material and the ridge cap material should be butted tightly to the channel of the Rake/Roof-to-Wall trim piece. Install a stitch screw into the last cap by screwing through Rake/Roof-to-Wall trim into the ridge cap. (Nailing flange should not be left exposed.)

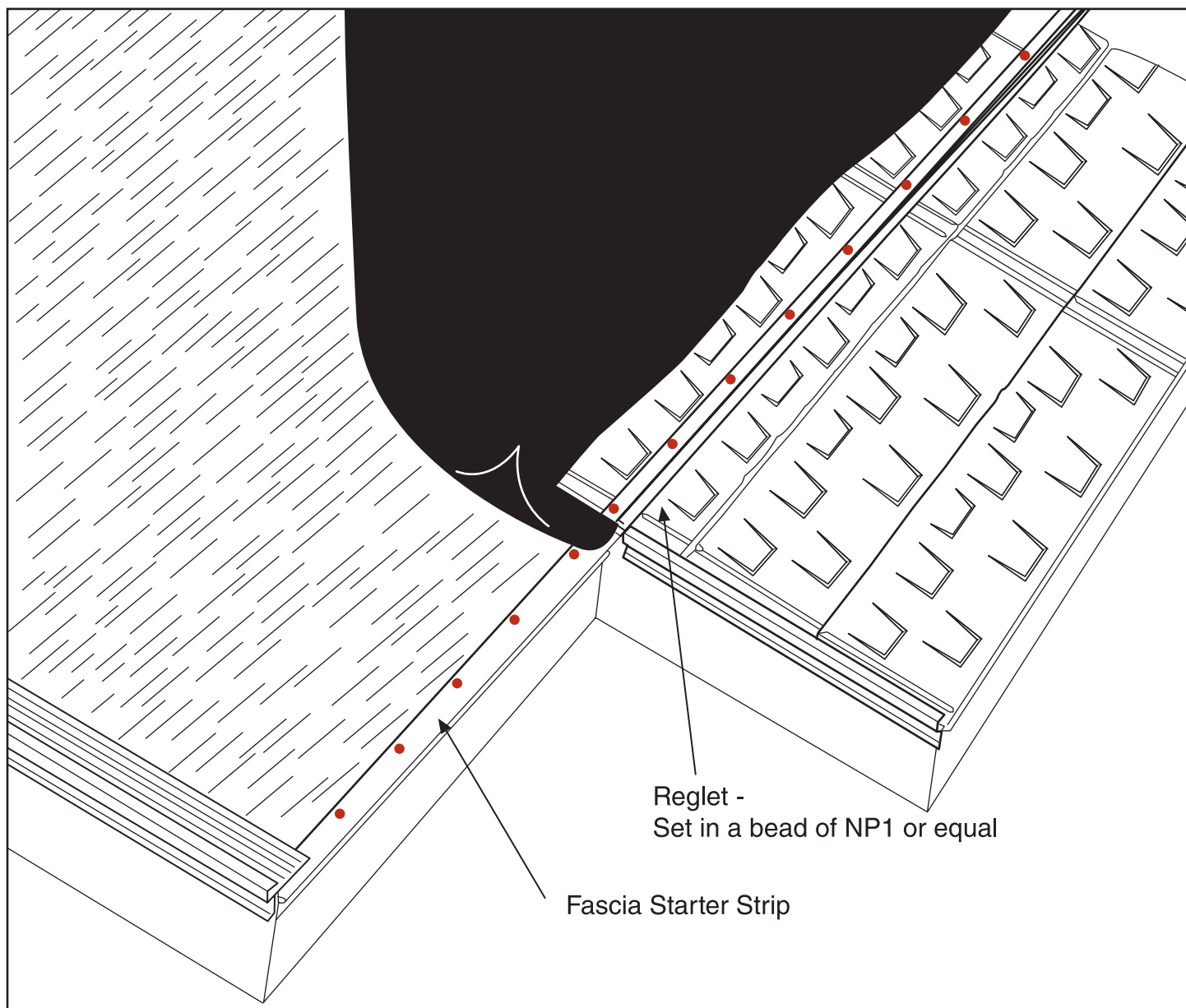
Hip Cap



20. The Reglet is available for use with installations involving an offset at the eave. The Reglet is aligned with the offset and nailed on the back apron every six inches. The shingles are then installed on the main roof interlocking with the nose end of the reglet and laying over the top of the shingle below.

If you have difficulty closing some side laps, the following procedure is acceptable:

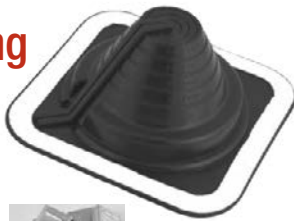
Apply a 1 1/2", corrosion resistant hex head screw directly beneath the mid shelf of the shingle and approximately 3" to the right of the left side of the shingle. This screw is to be of sufficient length to pass completely through the roof sheathing. Do not over tighten or penetrate the overlapped shingle. Make absolutely certain you have followed the procedure outlined on page 12.



Dektite® Combo Flashing

For use with hydro masts and vent pipes.

Cut to size, place bead of silicone around metal base from base to ribs or profile and then fasten with skirt flange screws.



- Standard flashing and retrofit flashing all in one
- When retrofit is required just add clips for easy application
- Internal cone design provides 1/2" of continuous contact
- Pipe OD markings clearly shown on cutting groves
- Large base design to improve sealing on high rib metal roof sheets
- 20 Year Warranty

Available in Black
(Grey EPDM & Red Silicone Available by Special Order)

EPDM will withstand constant temperatures at the roofline of -50°C (-122°F) to 115°C (239°F) & up to 150°C (302°F) intermittently.

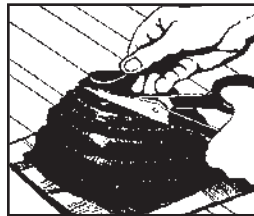
Red Silicone will withstand constant temperatures at the roofline of -50°C (-122°F) to 200°C (392°F) & up to 250°C (482°F) intermittently.

1. When used in retrofit application apply silicone to both seam & underside
2. Limited spacing may occur between clips
3. Fasten clips using multigrips, working from top to base
- 4 Fasten combo base by placing a fastener either side of clips first

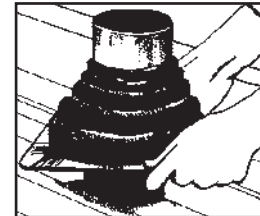
*Always use the neutral base low modulus silicone for sealing

**In corrosive and coastal environments fix blind aluminum rivets

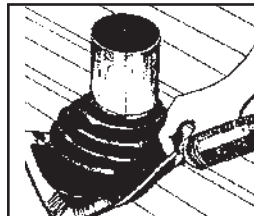
Dektite® Combo Flashing Installation



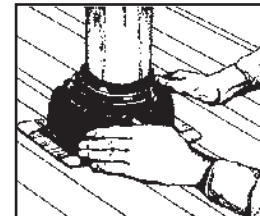
1. TRIM - Cut opening 20% smaller than pipe diameter.



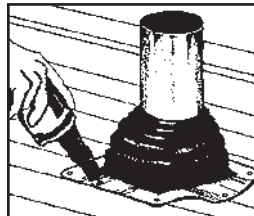
2. SLIDE - Slip Dektite® Combo Flashing over pipe.



3. SEAL - Apply urethane / silicone sealant between Dektite® Combo Flashing and roofing.



4. FORM - Bend aluminum base to fit irregularities. Use large slot screwdriver to press into tight angles.

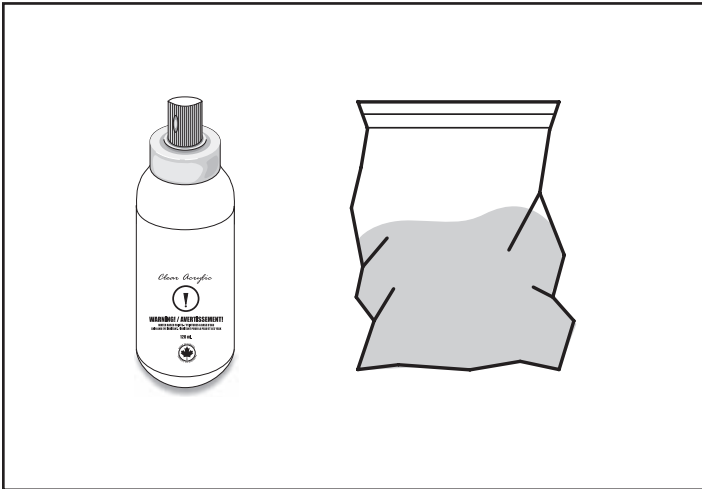


5. FASTEN - Complete the seal using common weather-resistant fasteners.

CODE	DESCRIPTION	PIPE SIZE METRIC	PIPE SIZE IMPERIAL	ROOF PITCH	BASE MM	INCHES	COLOURS	MAX # OF DC CLIPS (TWINS) REQUIRED
DC101	Dektite® Combo #1	5-60 mm	1/4" - 2 1/2"	0-40° or 10/12	139 x 139 mm	5 1/2" x 5 1/2"	Black, Grey (EPDM)* Red Silicone*	2
DC102	Dektite® Combo #2	45-85 mm	1 3/4" - 3 1/4"	0-40° or 10/12	177 x 177 mm	7" x 7"	Black, Grey (EPDM)* Red Silicone*	3
DC103	Dektite® Combo #3	5-127 mm	1/4" - 5"	0-40° or 10/12	216 x 216 mm	8 1/2" x 8 1/2"	Black, Grey (EPDM)* Red Silicone*	4
DC104	Dektite® Combo #4	75-175 mm	3" - 7"	0-40° or 10/12	285 x 285 mm	11 1/4" x 11 1/4"	Black, Grey (EPDM)* Red Silicone*	5
DC105	Dektite® Combo #5	108-190 mm	4 1/4" - 7 1/2"	0-40° or 10/12	365 x 365 mm	14 1/4" x 14 1/4"	Black, Grey (EPDM)* Red Silicone*	6
DC106	Dektite® Combo #6	125-230 mm	5" - 9"	0-40° or 10/12	366 x 366 mm	14 1/4" x 14 1/4"	Black, Grey (EPDM)* Red Silicone*	6
DC107	Dektite® Combo #7	150-280 mm	6" - 11"	0-40° or 10/12	454 x 454 mm	17 3/4" x 17 3/4"	Black, Grey (EPDM)* Red Silicone*	7
DC108	Dektite® Combo #8	175-330 mm	7" - 13"	0-40° or 10/12	454 x 454 mm	17 3/4" x 17 3/4"	Black, Grey (EPDM)* Red Silicone*	7
DC109	Dektite® Combo #9	240-508 mm	9 1/2" - 20"	0-40° or 10/12	685 x 685 mm	27" x 27"	Black, Grey (EPDM)* Red Silicone*	12
DC110	Dektite® Combo #10	400-750 mm	15 3/4" - 29 1/2"	0-40° or 10/12	995 x 965 mm	38" x 38"	Black (EPDM)* Red Silicone*	9
DC Clip	Combo Clips Twin	25 Twins						

Touch Up & Repair Options

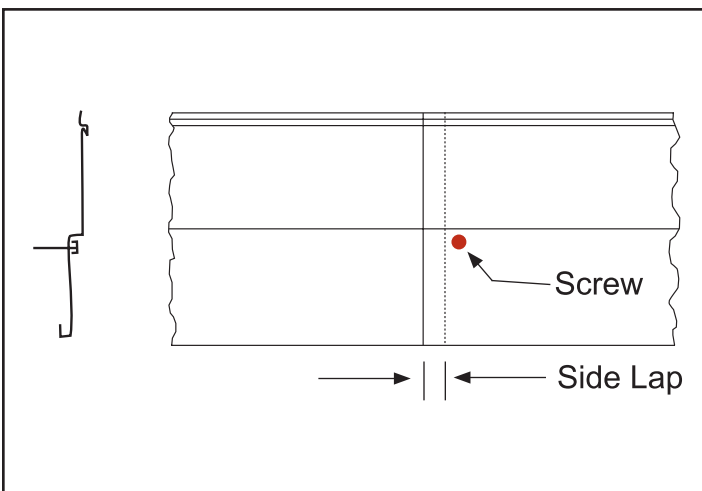
21. Inspect the roof and touch-up all exposed screws using the provided touch-up kit. Remove all debris from roof and job-site.



22. Acceptable Repair Option

Corrosion Resistant Screw (Minimum 1 1/2" #9)

Apply small bead of sealant between panels at side lap. Draw panels together, do not over-tighten the screw fastener.



Warranty Registration

Homeowners can register online at www.vicwestwarranty.com

Upon receipt of your registration, Vicwest will forward by email the warranty with certificate number. The homeowner should keep this information in a safe place for future reference or in the event they need to submit a claim or wish to transfer the warranty where applicable.

Disclaimer

It is the sole responsibility of the contractor to ensure installation is completed according to the directions herein, and that all construction by-laws and codes are met. The recommendations in the printed and the video versions of the installation guide are based on Vicwest's continuing program of laboratory testing, product research and comprehensive field experience. Vicwest does not and cannot cover damage of any kind resulting from faulty or improper installation.

In accordance with ongoing efforts to improve our products and their performance, Vicwest Building Products reserves the right to change, without notice, the specifications contained herein.

The contents herein are for general information and illustrative purposes only and are not intended to serve as any type of advice. Every effort is made to ensure the accuracy of the information included in this brochure and it is believed that the information contained herein is accurate and reliable as of the date of publication. Vicwest Building Products, however, does not warrant or represent the accuracy or reliability of any information included in this brochure. Any reliance on any information without consultation with Vicwest Building Products or a duly authorized representative shall be at the user's own risk.

