Ekoroof Dimensions

3.5" Height

7"

3"

40" Width

20" Length
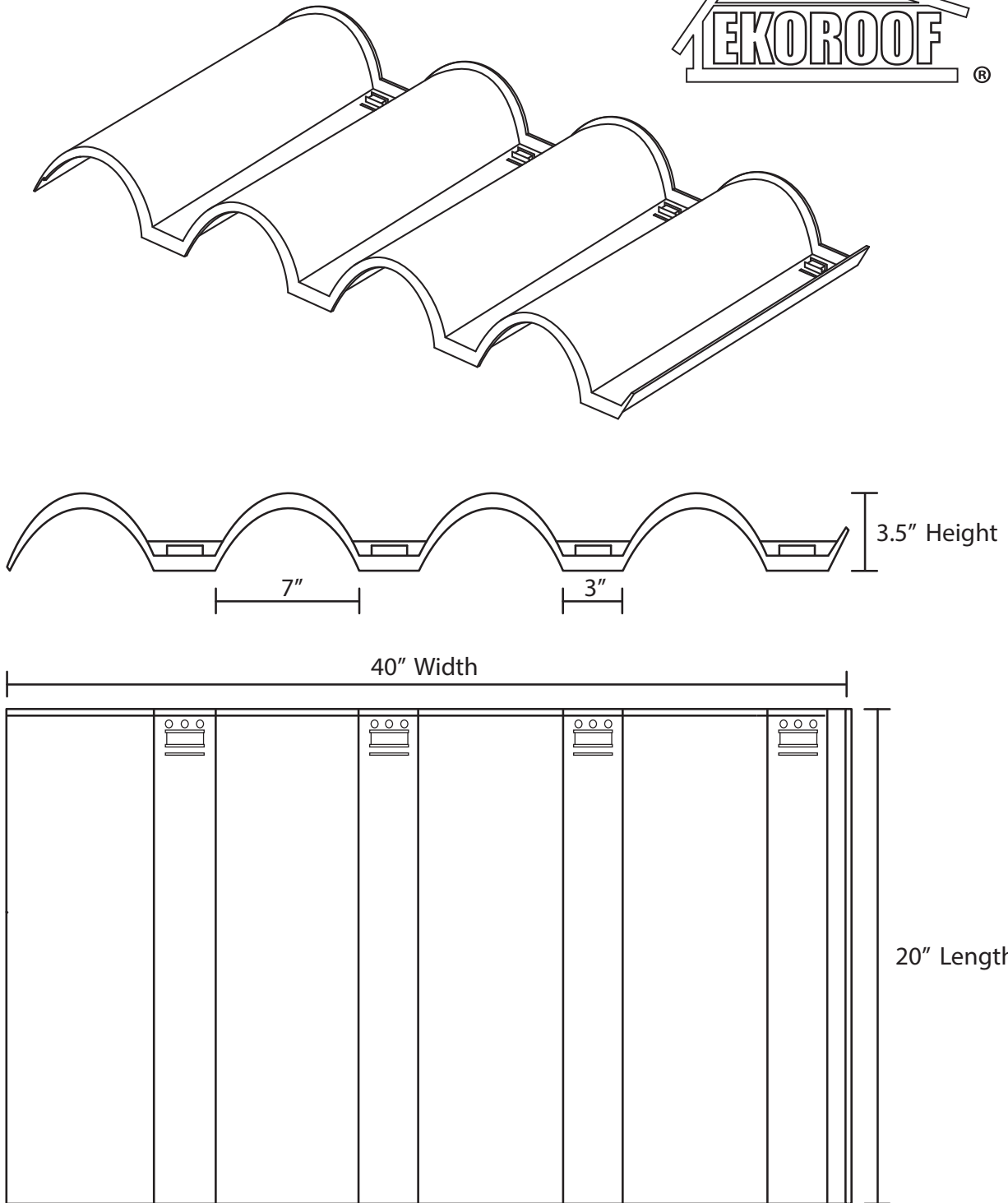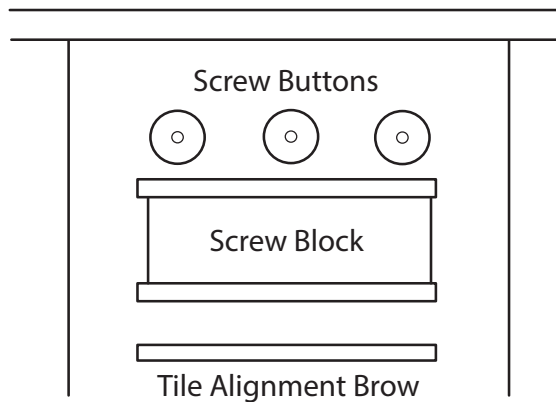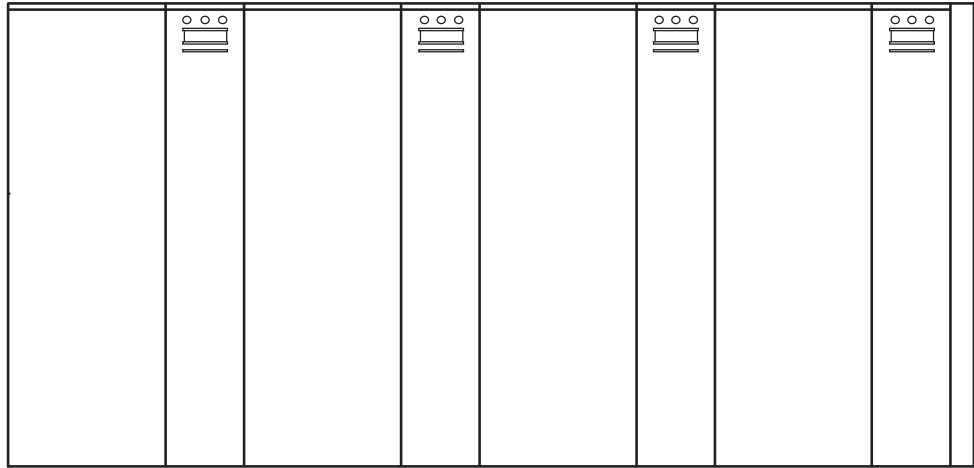
Weight per Panel: 3 kg / 6.61 lbs
Area per Panel 800 in^2 / 5.55 ft^2
Panels per Square: 20 (including overlap, for a 100 ft^2 covered area)
Weight per Square 59.96 kg / 132.2 lbs

drawings not to scale

Top View of Tile

Screw Buttons

Screw Block

Tile Alignment Brow

Top View

Tile Alignment Brow

Screw Block

Screw Buttons

Side View

See Pages 4 - 7 for for specifications
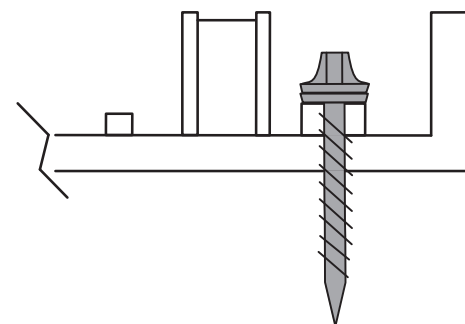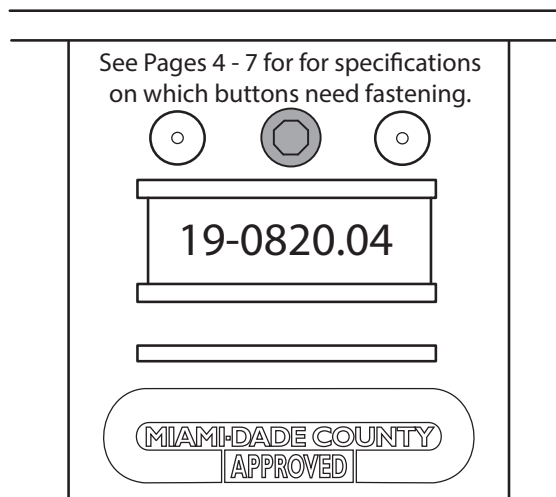on which buttons need fastening.

19-0820.04

MIAMI-DADE COUNTY
APPROVED
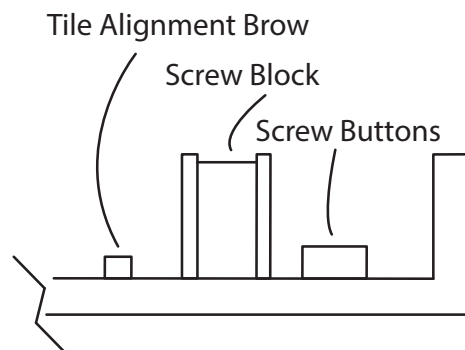
drawings not to scale

Starter Row Detail

Top View of Tile
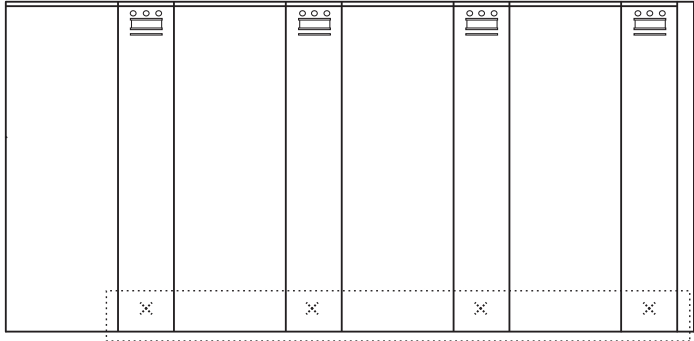
Starter Row Edge Fastener is #10-12 wood point, Corrosion-Resistant Screw with washer, & Hex or Concealor type head, 2" in length.

It is installed approx 2" up-slope from the eave edge of tile. Exposed fasteners should be color-matched to tile for aesthetics.

Starter Row Edge Screw Location is approx. 2 inches up-slope from eave edge, at center of *each* flat section of tile

approx. 2"

Ekoroof Metal Eave Closure

3"x3" 26ga Metal Drip-Edge

Min. 1/2" Plywood Deck & Approved Underlayments

Side View

Starter Row Edge Screw(s)

approx. 2"

Starter Row Ekoroof Tile

Ekoroof Eave Closure

Deck

Slope

Metal Drip Edge

Installed

drawings not to scale

Ekoroof Tile Attachment Method 1 - 86 PSF

Top View of Tile

One covered button fastener

Standard Overlap Screw Location is 1/2 inch from lower edge, at center of *each* flat section of tile

1/2 inch

Top View

One covered button fastener

1/2 inch

Insert one exposed fastener through top tile and fasten through the screw block belonging to the tile beneath it

Side View

Slope

1/2 inch

Slope

Covered button fastener

Main Fastener is #10-12 wood point, Corrosion Resistant Screw with washer, & Hex or Concealor head, of sufficient length to penetrate the deck at least 3/16". Contractor must verify on-site to ensure compliance with minimum deck penetration requirement. Exposed fastener should be color-matched to tile for aesthetics.

Concealor / Pancake Head

1/4" Hex Drive
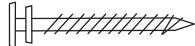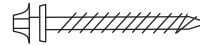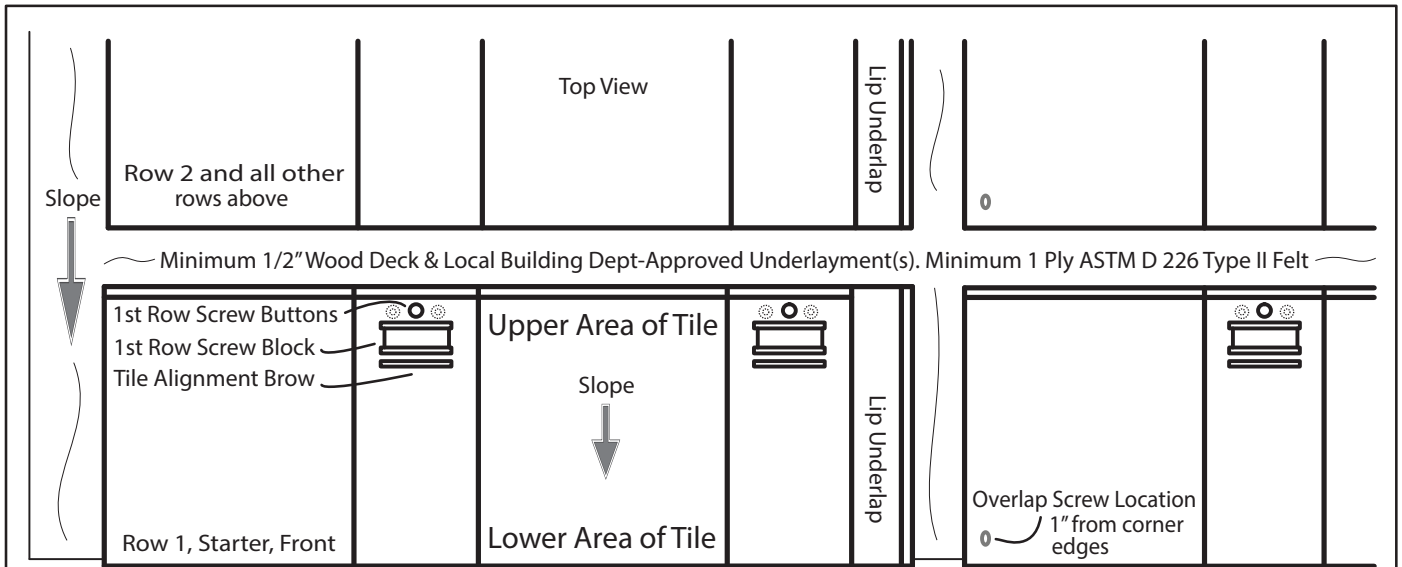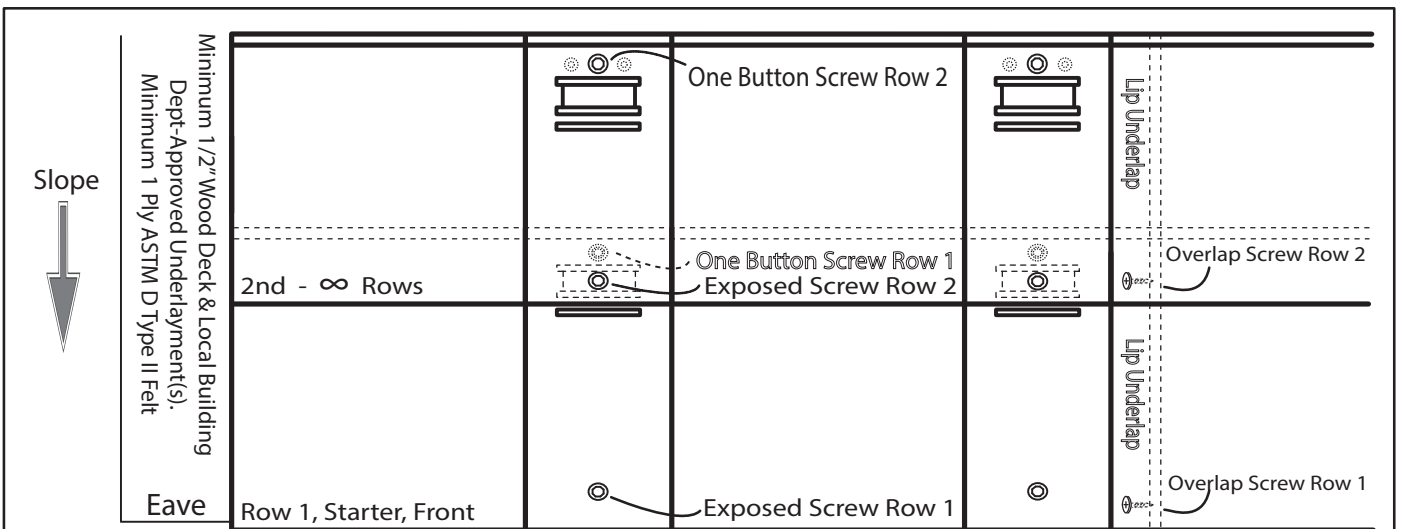
drawings not to scale

Top View

Slope

Row 2 and all other rows above

Lip Underlap

Minimum 1/2" Wood Deck & Local Building Dept-Approved Underlayment(s). Minimum 1 Ply ASTM D 226 Type II Felt

1st Row Screw Buttons
1st Row Screw Block
Tile Alignment Brow

Upper Area of Tile

Slope

Lower Area of Tile

Lip Underlap

Overlap Screw Location
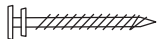1" from corner edges

Row 1, Starter, Front

1. Install starter row by fastening tile to deck, using metal eave closures as a guide and utilizing specified screws, penetrating tile and passing 3/16" through deck. Avoid penetrating valleys or flashings when fastening. You may offset fasteners to avoid wood joints, valleys, flashings, drip edge, and eave closure metals or other conditions, as needed by using the additional buttons or flat area of tile at the tile valley. Screws at lower area of tile, at starter row are located approx. 2" higher than the edge of the tile.

2. Overlap subsequent rows using alignment brow as a guide, then fasten as shown below. When using a standard overlap, the exposed fasteners are placed 1/2" from lower edge, as shown in page 4 to penetrate through screw block belonging to tile beneath it, along with underlayments and passing 3/16" through wood deck. You may increase the overlap from the standard 1 3/4" up to 4" for aesthetics or conditions, making sure to adjust the placement of lower area screws to penetrate through screw block of tile beneath it.

3. Use 1" long, #10-13 Concealor or Pancake Head screw for side overlaps. Location of screw is 1" from each corner edge on lower left corner of tile

Minimum 1/2" Wood Deck & Local Building Dept-Approved Underlayment(s). Minimum 1 Ply ASTM D Type II Felt

Slope

One Button Screw Row 2

Lip Underlap

2nd - ∞ Rows

One Button Screw Row 1
Exposed Screw Row 2

Overlap Screw Row 2

Eave

Row 1, Starter, Front

Exposed Screw Row 1

Lip Underlap

Overlap Screw Row 1

Main Fastener is #10 wood point, Corrosion Resistant & Approved Screw with EPDM washer & Hex or Concealor/Pancake head, of sufficient length to penetrate 3/16" past the deck. Exposed screws should be color-matched to tile for aesthetics.

Concealor / Pancake Head   1/4" Hex Drive

Side overlap screw is 1" minimum, 1 1/2" maximum, #10-13 Corrosion Resistant & Approved Screw with 1/4" Hex or Concealor/Pancake Head, color-matched to tile for aesthetics.

drawings not to scale

Ekoroof Tile Attachment Method 2 - 146 PSF

Top View of Tile

Two covered button fasteners

Standard Overlap Screw Location is 1/2 inch from lower edge, at center of *each* flat section of tile

1/2 inch

Top View

Two covered button fasteners

1/2 inch

Insert one exposed fastener through top tile and fasten through the screw block belonging to the tile beneath it

Side View

Slope

1/2 inch

Slope

Covered button fasteners

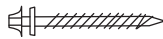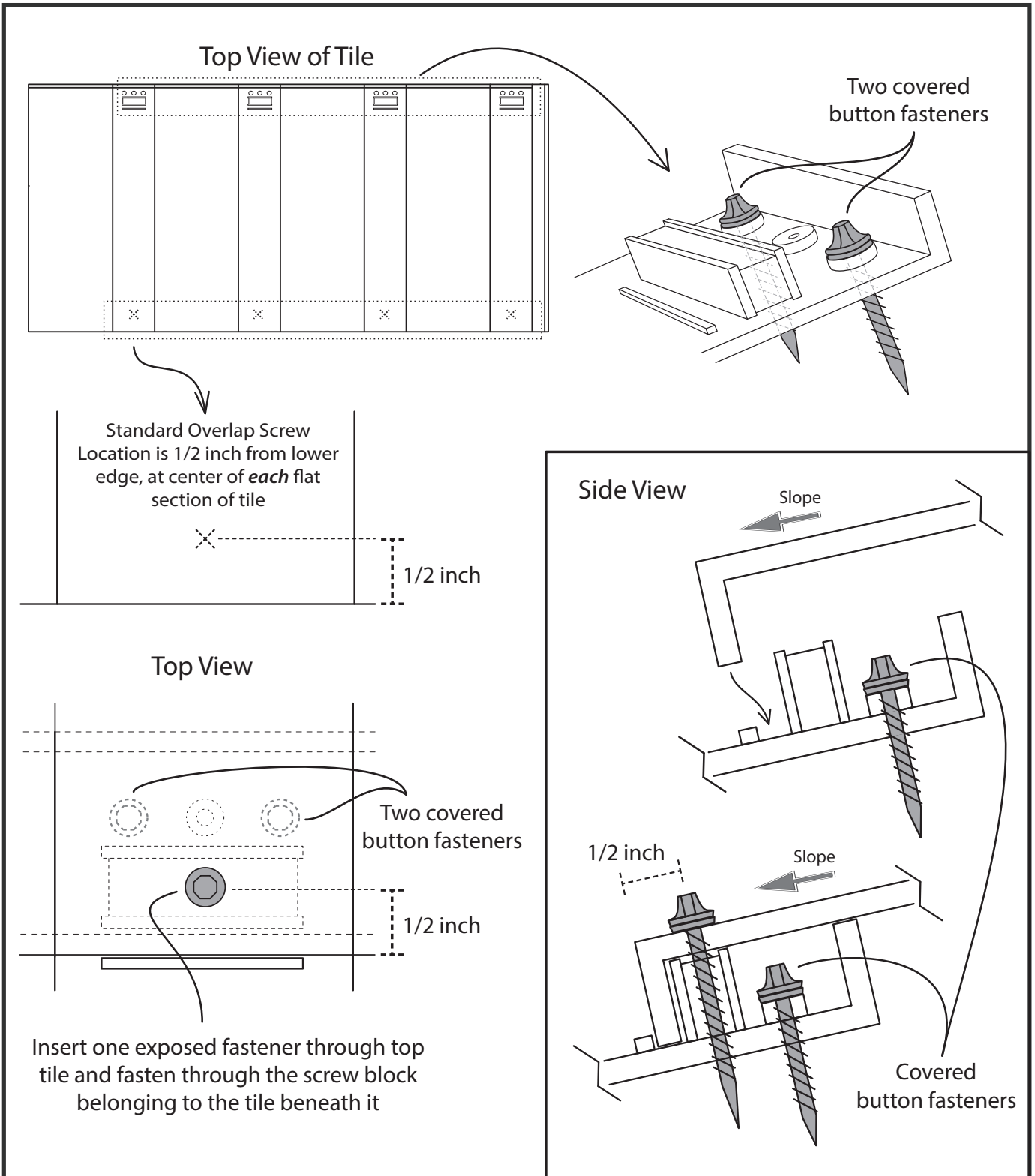Main Fastener is #10-12 wood point, Corrosion Resistant Screw with washer, & Hex or Concealor head, of sufficient length to penetrate the deck at least 3/16". Contractor must verify on-site to ensure compliance with minimum deck penetration requirement. Exposed fastener should be color-matched to tile for aesthetics.

Concealor / Pancake Head

1/4" Hex Drive

drawings not to scale

Ekoroof Tile Method 2 Installation Procedures - 146 PSF

Top View

Slope

Row 2 and all other rows up-slope

Lip Underlap

0

Minimum 1/2" Wood Deck & Local Building Dept-Approved Underlayment(s). Minimum 1 Ply ASTM D 226 Type II Felt

1st Row Screw Buttons
1st Row Screw Block
Tile Alignment Brow

Upper Area of Tile

Slope

Lower Area of Tile

Lip Underlap

Overlap Screw Location 1" from corner edges

0

Row 1, Starter, Front

1. Install starter row by fastening tile to deck, using metal eave closures as a guide and utilizing specified screws, penetrating tile and passing 3/16" through deck. Avoid penetrating valleys or flashings when fastening. You may offset fasteners to avoid wood joints, valleys, flashings, drip edge, and eave closure metals or other conditions, as needed by using the additional buttons or flat area of tile at the tile valley. Screws at lower area of tile, at starter row are located approx. 2" higher than the edge of the tile.

2. Overlap subsequent rows using alignment brow as a guide, then fasten as shown below. When using a standard overlap, the exposed fasteners are placed 1/2" from lower edge, as shown in page 6 to penetrate through screw block belonging to tile beneath it, along with underlayments and passing 3/16" through wood deck. You may increase the overlap from the standard 1 3/4" up to 4" for aesthetics or conditions, making sure to adjust the placement of lower area screws to penetrate through screw block of tile beneath it.

3. Use 1" long, #10-13 Concealor or Pancake Head screw for side overlaps. Location of screw is 1" from each corner edge on lower left corner of tile

Minimum 1/2" Wood Deck & Local Building Dept-Approved Underlayment(s). Minimum 1 Ply ASTM D 226 Type II Felt

Slope

Two Button Screws Row 2

Lip Underlap

Two Button Screws Row 1
One Screw Row 2

Overlap Screw Row 2

2nd - ∞ Rows

Lip Underlap

Eave

Row 1, Starter, Front

One Screw Row 1

Overlap Screw Row 1

Main Fastener is #10 wood point, Corrosion Resistant & Approved Screw with EPDM washer & Hex or Concealor/Pancake head, of sufficient length to penetrate 3/16" past the deck. Exposed screws should be color-matched to tile for aesthetics.

Concealor / Pancake Head   1/4" Hex Drive

Side overlap screw is 1" minimum, 1 1/2" maximum, #10-13 Corrosion Resistant & Approved Screw with 1/4" Hex or Concealor/Pancake Head, color-matched to tile for aesthetics.
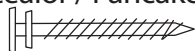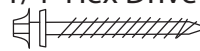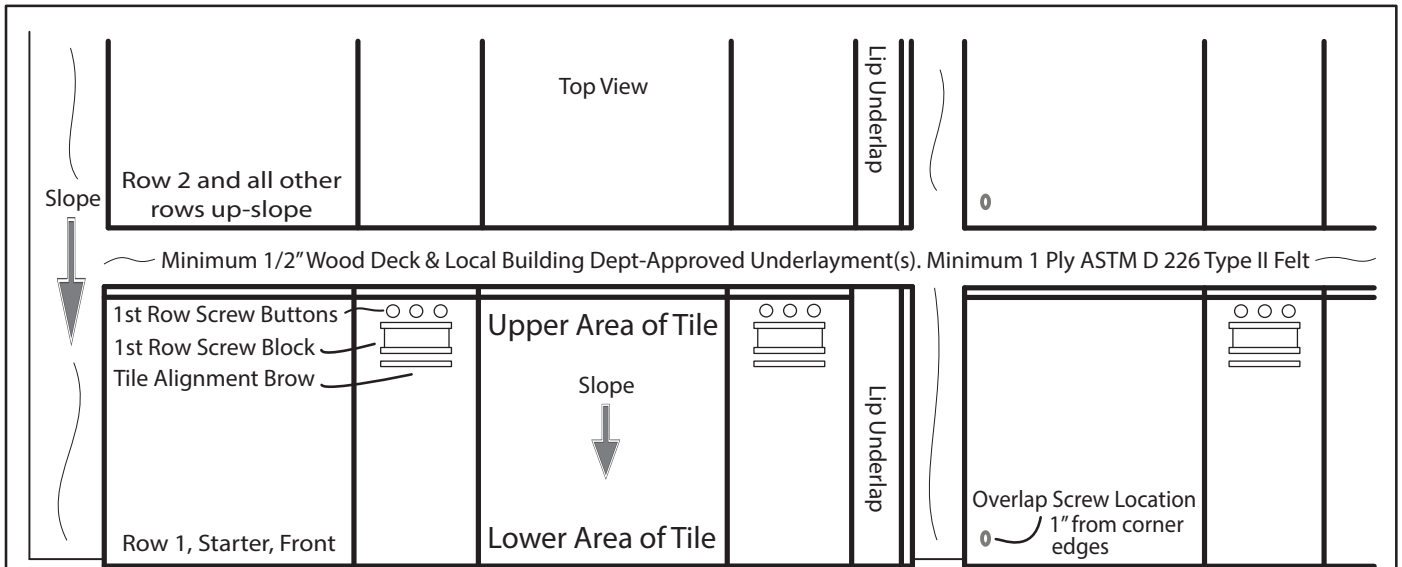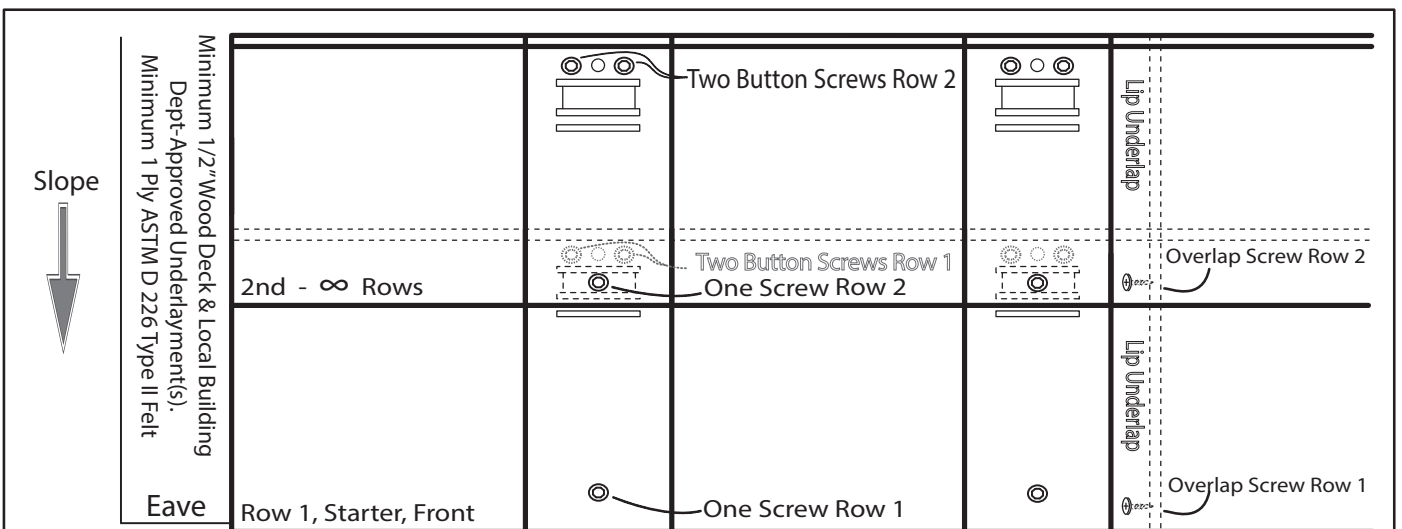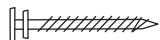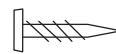
drawings not to scale

Ekoroof Tile Eave Closure Installation Detail
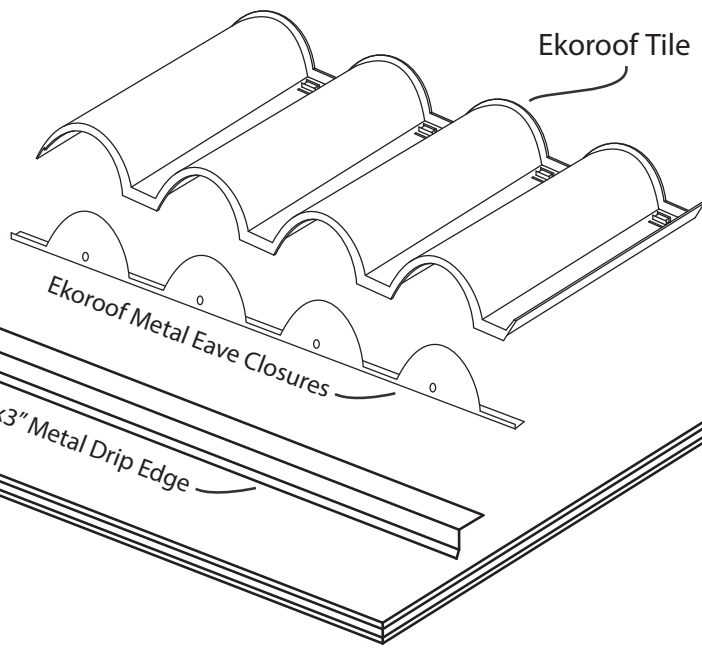
Ekoroof Eave Closures & 3"x3" Drip Edge metals are each 26 gage minimum galvanized steel, galvalume or other corrosion-resistant metal, color-matched to tile for aesthetics. Each metal is sealed with roofing cement underneath and fastened every 4" O.C. with approved 1 1/4" RS roofing nails in a staggered pattern.

Ekoroof Tile

Ekoroof Metal Eave Closures

3"x3" Metal Drip Edge

Minimum 1/2" wood deck, plus local Building Code-Approved Underlayments. Minimum of 1 ply ASTM D226 Type II required.

Ekoroof Metal Eave Closure

Optional 6" strip of ASTM D 1970 Self-Adhered Underlayment

3"x 3" Metal Drip Edge

Underlayment(s)

Roof Cement at metal laps

Typical detail shown. See local building code requirements for application of roof cement, metal primer, and other related flashing details, as these are not modified by, or exclusive to the Ekoroof system.
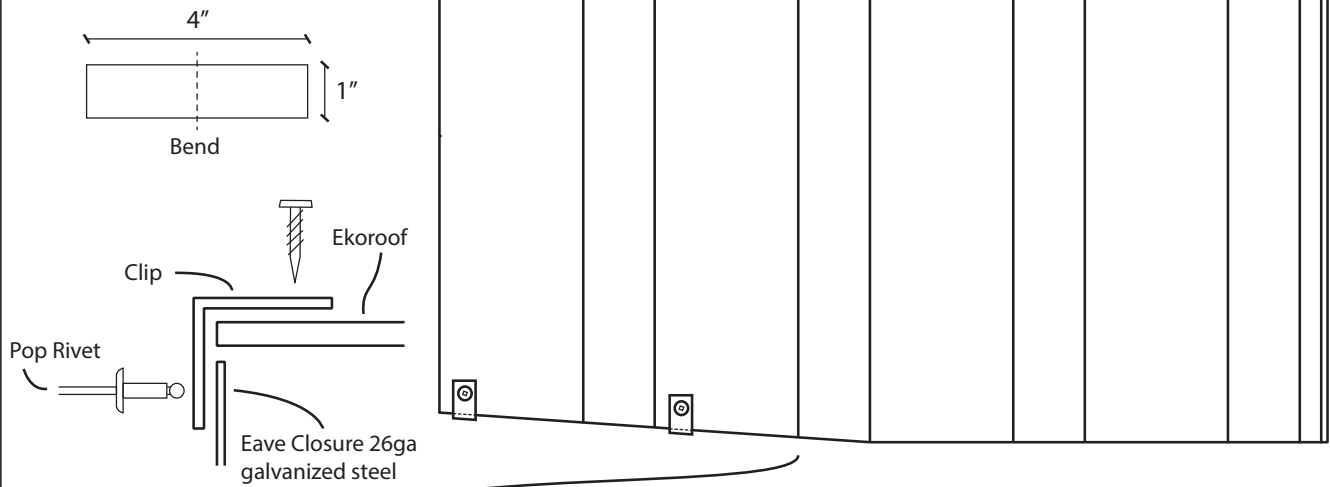
Side-lock Flap

1"x 2" Furring Strip Optional (recommended)

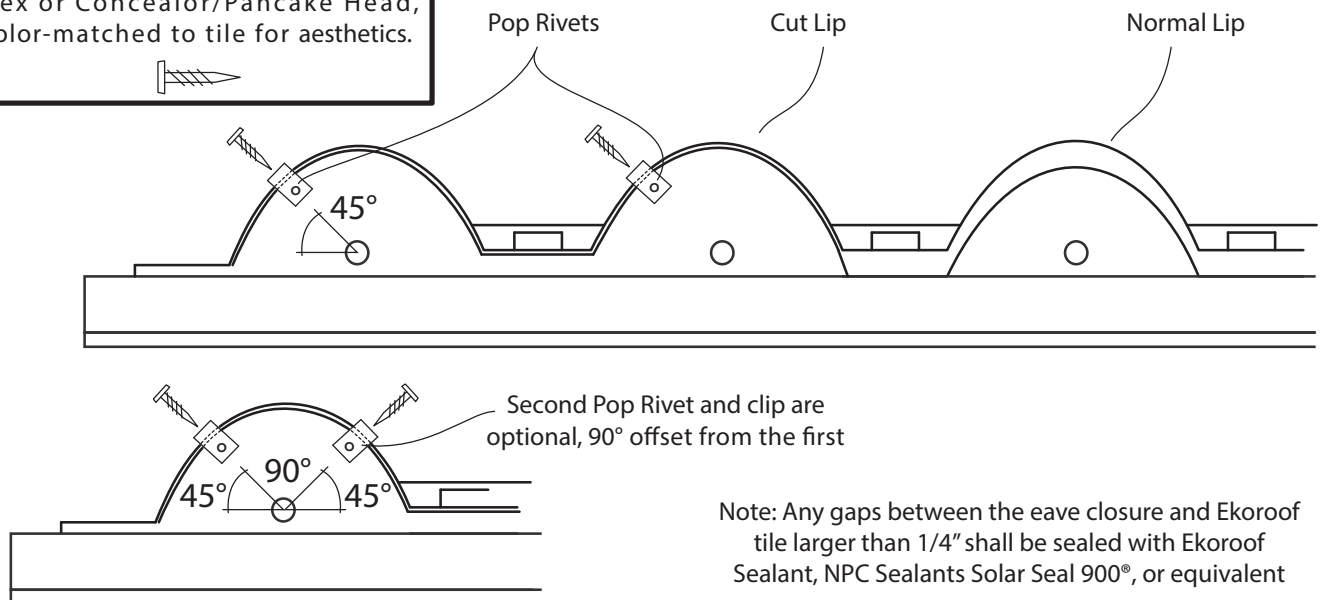Side-lock Flap
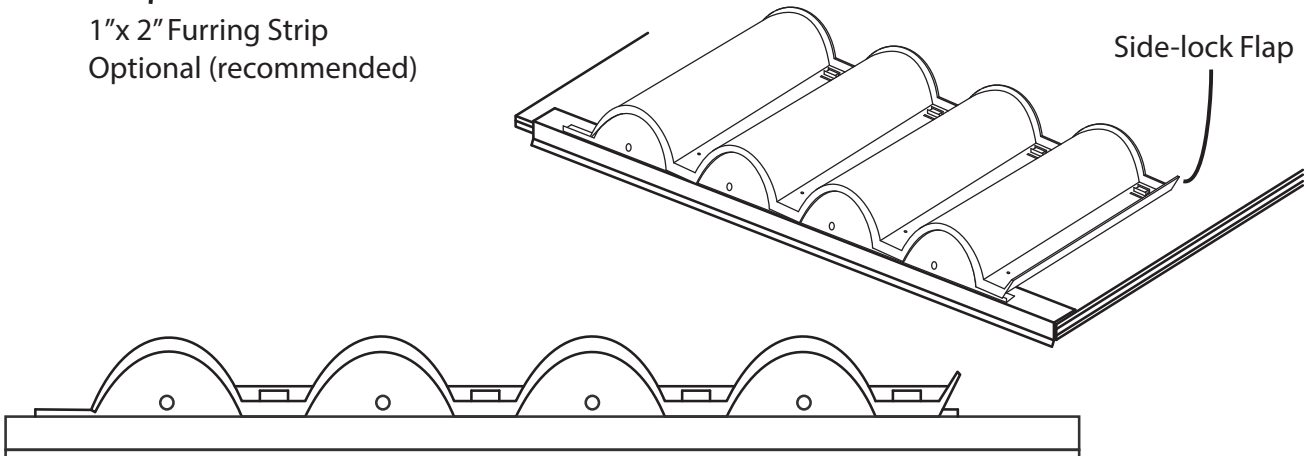
drawings not to scale

Ekoroof Tile Eave Closure Installation Detail - Pop Rivet Method

Alternate Method for fastening Eave Closure when front end of Ekoroof Tile is cut

4"

1"

Bend

Ekoroof

Clip

Pop Rivet

Eave Closure 26ga galvanized steel

You may at times need to cut the front end of the Ekoroof Tile for conditions. Doing so will cause the loss of the front lip that holds in the metal eave closure. Conditions that would necessitate this modification include, but are not limited to, an angled eave, roof end, or angled transition to a flat roof or cricket, sometimes occurring at a valley, where the eave closure can additionally not be fastened to the deck. When there is no lip to hold the eave closure in place, a 90° 4" x 1" wide clip of 26ga galvanized steel can be cut and pop riveted to the eave closure, and fastened to the Ekoroof panel with a 1" Ekoroof Fastener. The clip/rivet should be used on each high point of the tile that is missing a lip, and should be installed at a 45° angle from the weep hole in the eave closure, color matched for aesthetics.

Fastener is 1" #10-13 Corrosion Resistant & Approved Screw with 1/4" Hex or Concealor/Pancake Head, color-matched to tile for aesthetics.

Pop Rivets

Cut Lip

Normal Lip

45°

90°

45°   45°

Second Pop Rivet and clip are optional, 90° offset from the first

Note: Any gaps between the eave closure and Ekoroof tile larger than 1/4" shall be sealed with Ekoroof Sealant, NPC Sealants Solar Seal 900®, or equivalent

drawings not to scale
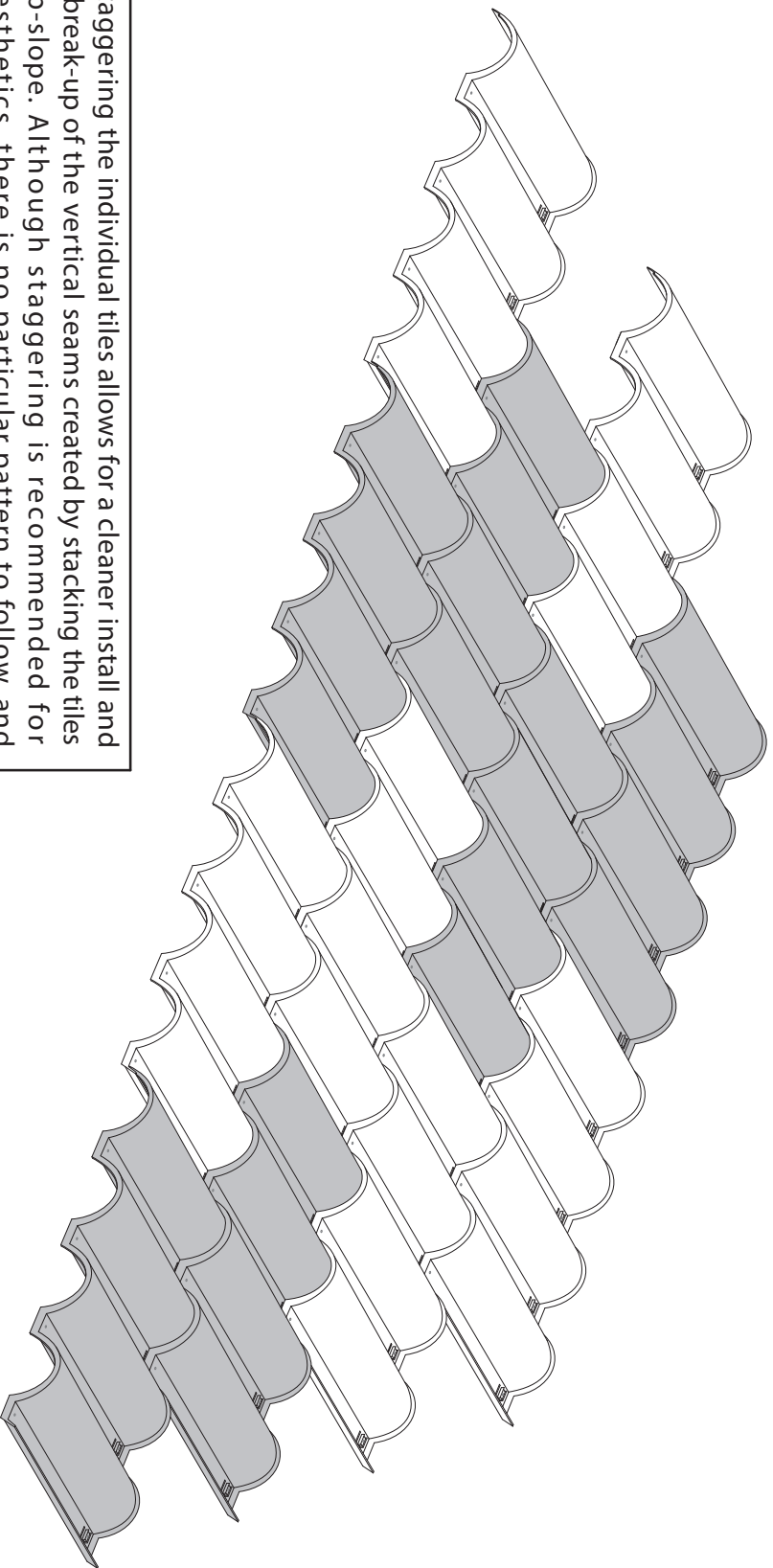
Staggering the individual tiles allows for a cleaner install and a break-up of the vertical seams created by stacking the tiles up-slope. Although staggering is recommended for aesthetics, there is no particular pattern to follow, and staggering is not required; it is up to installer preference.

You may increase the overlap for aesthetics or site conditions, from standard 1.75" up to 4", but be sure to adjust the location of the exposed fastener to always penetrate the screw block on the tile beneath, as shown in pages 4 and 6 of this manual.

drawings not to scale

Ekoroof Tile Roof Penetration Detail

Lead Pipe Flashing (where compatible).
Optional in HVHZ with EPDM or
Silicone boot method)

Underlayment(s) - Minimum
1 Ply ASTM D 226 Type II

Make watertight seal between
vent stack and/or lead pipe
flashing and underlayment(s)

Sheathing - Minimum 1/2"
Plywood or Wood Plank

Vent Pipe
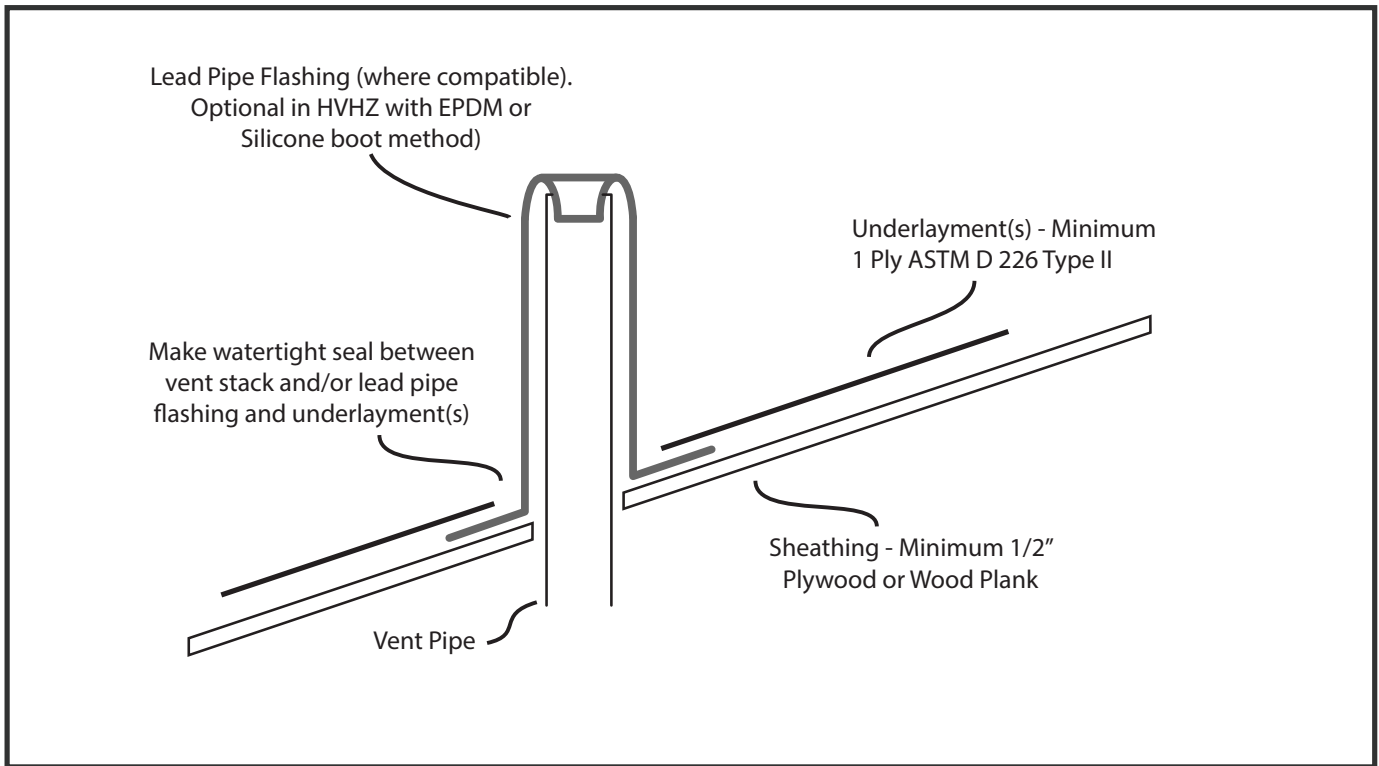
EPDM or Silicone Pipe Boot Method
Note: This Method for use within HVHZ

Also note: This method is to be used with gas vents, goosenecks, roof jacks, APV vents, or other types of vent stack penetrations through roof deck and Ekoroof covering, also including Solar Power Panel or other equipment rack or attachment penetrations. For ease of installation, all non-round penetrations should be substituted with equivalent and approved round pipes when possible, provided flow or function are not affected.
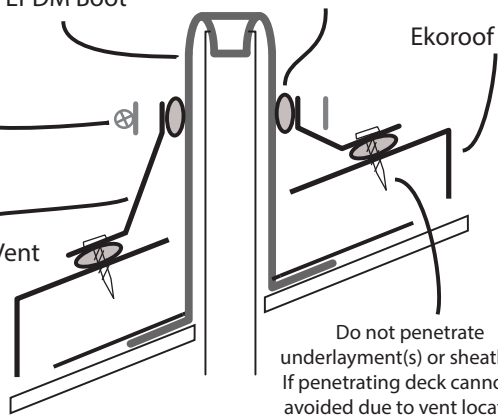
Lead Flashing Optional when
using Silicone or EPDM Boot

Sealant

Ekoroof Tile

Hose clamp, if
required by boot
manufacturer

EPDM or Silicone Vent
Pipe Flashing

Do not penetrate
underlayment(s) or sheathing.
If penetrating deck cannot be
avoided due to vent location,
such as in a low point of tile, use
2" main Ekoroof fastener, color-
matched for aesthetics.

Fastener is 1" #10-13 Corrosion Resistant & Approved Screw with 1/4" Hex or Concealor/Pancake Head, color-matched to tile for aesthetics.

Apply a full bead of sealant at joint of boot flashing with lead pipe flashing & joint with Ekoroof Tile. Sealant type is Ekoroof Vent Pipe Flashing Sealant, NPC Sealants Solar Seal 900® or equivalent.

Boot base fasteners shall be applied 4" O.C.

drawings not to scale

Ekoroof Tile Gooseneck Penetration Detail

Make watertight seal between gooseneck and underlayment(s)

Underlayment(s) - Minimum 1 Ply ASTM D 226 Type II

Sheathing - Minimum 1/2" Plywood or Wood Plank

Vent Pipe

Flexible Flashing Method

Note: This Method for use within HVHZ
Also note: This method is to be used with rectangular penetrations such as skylights and vents.

Flexible Flashing

Ekoroof Tile

Underlayment(s)

Recommended flexible flashing brand is DEKS® brand KwikFlash® with aluminum mesh
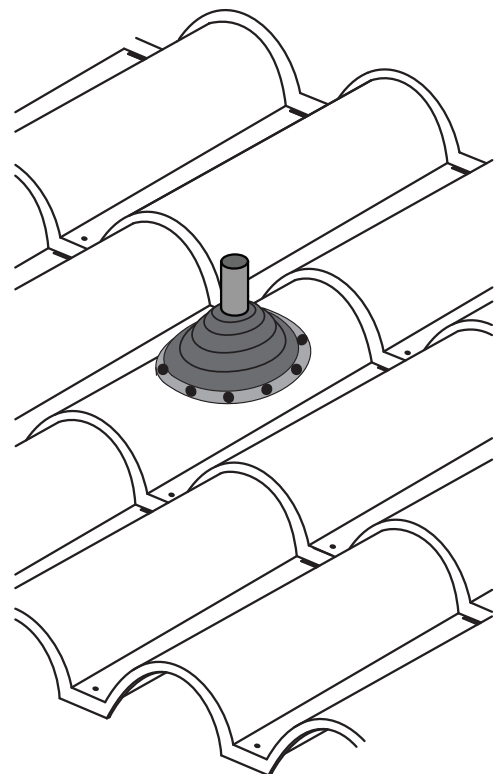
Do not penetrate underlayment(s) or sheathing. If penetrating deck cannot be avoided due to vent location, such as in a low point of tile, use 2" main Ekoroof fastener, color-matched for aesthetics.

Fastener is 1" #10-13 Corrosion Resistant & Approved Screw with 1/4" Hex or Concealor/Pancake Head, color-matched to tile for aesthetics.
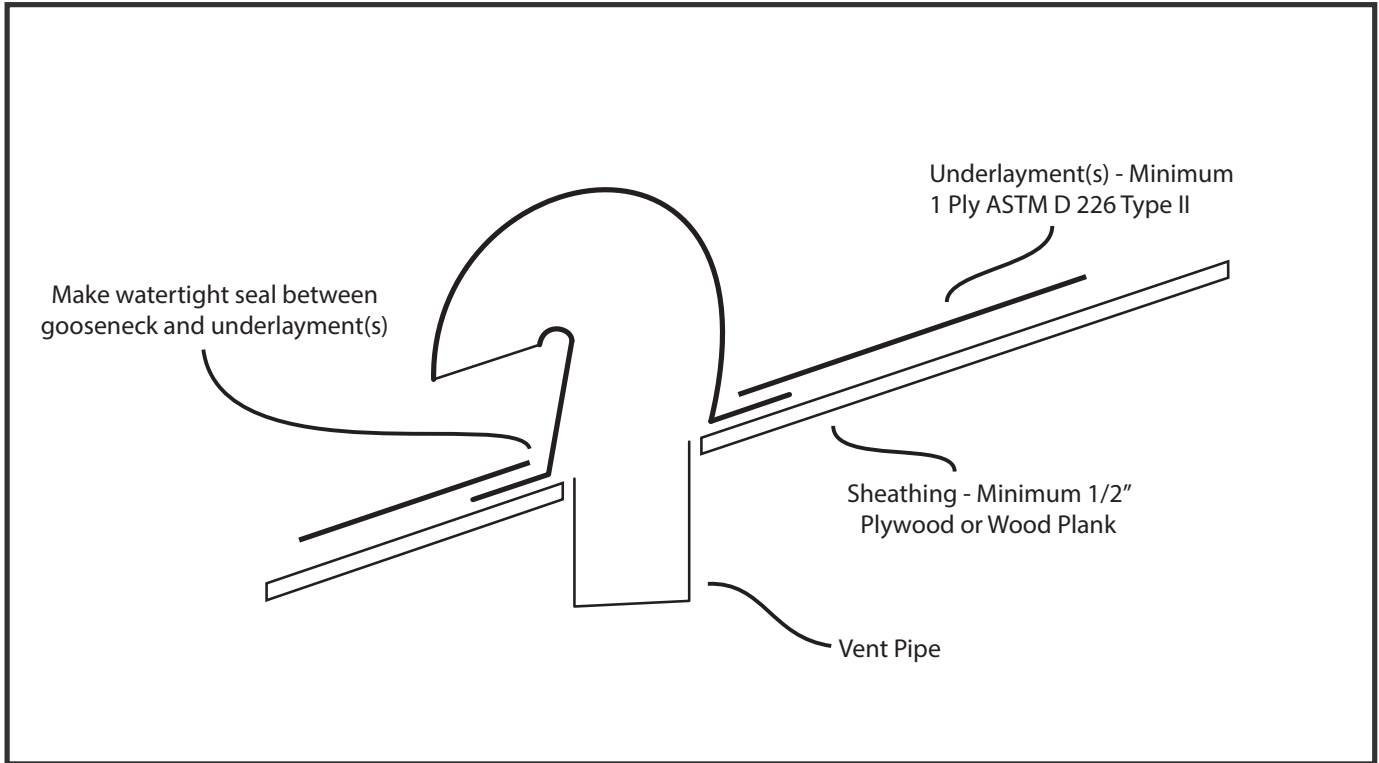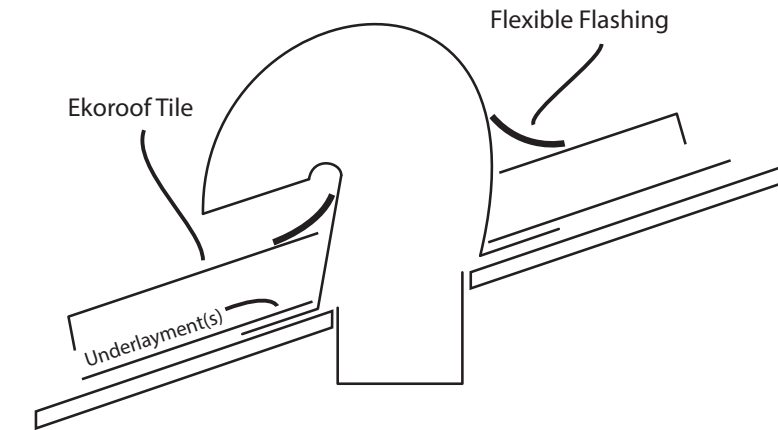
Ensure Ekoroof tile is dry and clean of oils, dust and dirt and apply the self-adhered flashing beginning down-slope and overlapping as needed, up-slope in shingle fashion. Ensure flashing extends 4" away from the base of the penetration and at least 2" vertically on the item to be flashed. Fasten perimeter with a 1" wide aluminum termination bar fastened every 6" O.C.

Mortar Method

Note: Not approved for HVHZ

Ekoroof Tile

Fully seal gooseneck to Ekoroof Tile using Roofing Mortar color-matched to tile for aesthetics

drawings not to scale

Ekoroof Tile Gooseneck Penetration Detail

Flexible Flashing Method

Note: This Method for use within HVHZ
Also note: This method is to be used with rectangular
penetrations such as skylights and vents.

Recommended flexible flashing is
DEKS® brand KwikFlash®, DekStrip®, or
FastFlash®, self-adhered rubber flashing
with aluminum mesh

Instructions, details, and
specifications for DEKS®
Products can be found at
http://www.deks.com.au/

When installing 1" aluminum termination bars, do
not penetrate underlayment(s) or sheathing.
If penetrating deck cannot be avoided due to vent
location, such as in a low point of tile, use 2" main
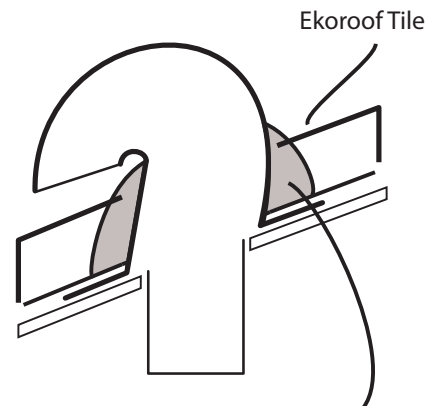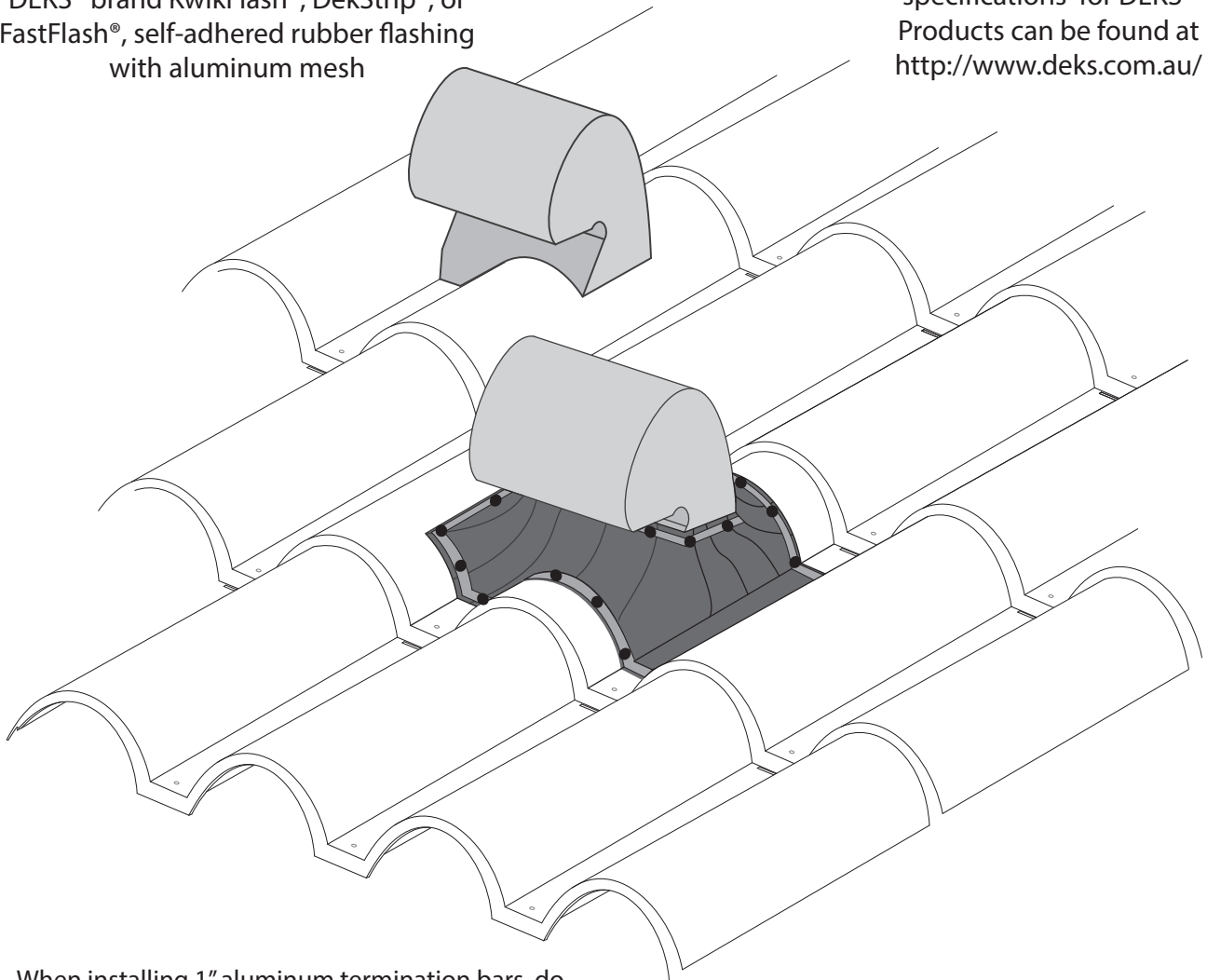Ekoroof fastener, color- matched for aesthetics.

Fastener is 1" #10-13 Corrosion
Resistant & Approved Screw with
1/4" Hex or Concealor/Pancake Head,
color-matched to tile for aesthetics.

Ensure Ekoroof tile is dry and clean of oils, dust and dirt and apply
the self-adhered flashing beginning down-slope and overlapping as
needed, up-slope in shingle fashion. Ensure flashing extends 4" away
from the base of the penetration and at least 2" vertically on the item
to be flashed. Fasten perimeter with a 1" wide aluminum termination
bar fastened every 6" O.C.

drawings not to scale

Rake Edge

Standard Metal Drip-Edge

Fascia Board

Ridge Cap

Ridge Fastener is #10 wood point, Corrosion Resistant & Approved Screw w/ EPDM washer & Hex or Concealor head, 1 1/2" long, attaching the ridge to the tile, color-matched for aesthetics.

Concealor / Pancake Head   1/4" Hex Drive

Apply a bed of mortar at the ridge & hip junctions then attach the caps to the tiles as specified in the diagram. Each ridge cap is fastened at all corners with at least one fastener as shown. Additional fasteners may be used at each contact point with tile, if desired. After fastening ridge & hip caps, provide a smooth finish to color-matched mortar along all gaps.

additional fasteners optional

Fill gaps with roofing mortar
color-matched to tile for aesthetics

drawings not to scale

Ekoroof Ridge Cap

Bed of Roof Mortar

Ekoroof Tiles

Sheathing & underlayments. No less than 15/32" wood for re-roof or 19/32" wood for new construction
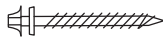
Ridge Fastener is #10 wood point, Corrosion Resistant & Approved Screw w/ EPDM washer & Hex or Concealor head, 1 1/2" long, attaching the ridge to the tile, color-matched for aesthetics.
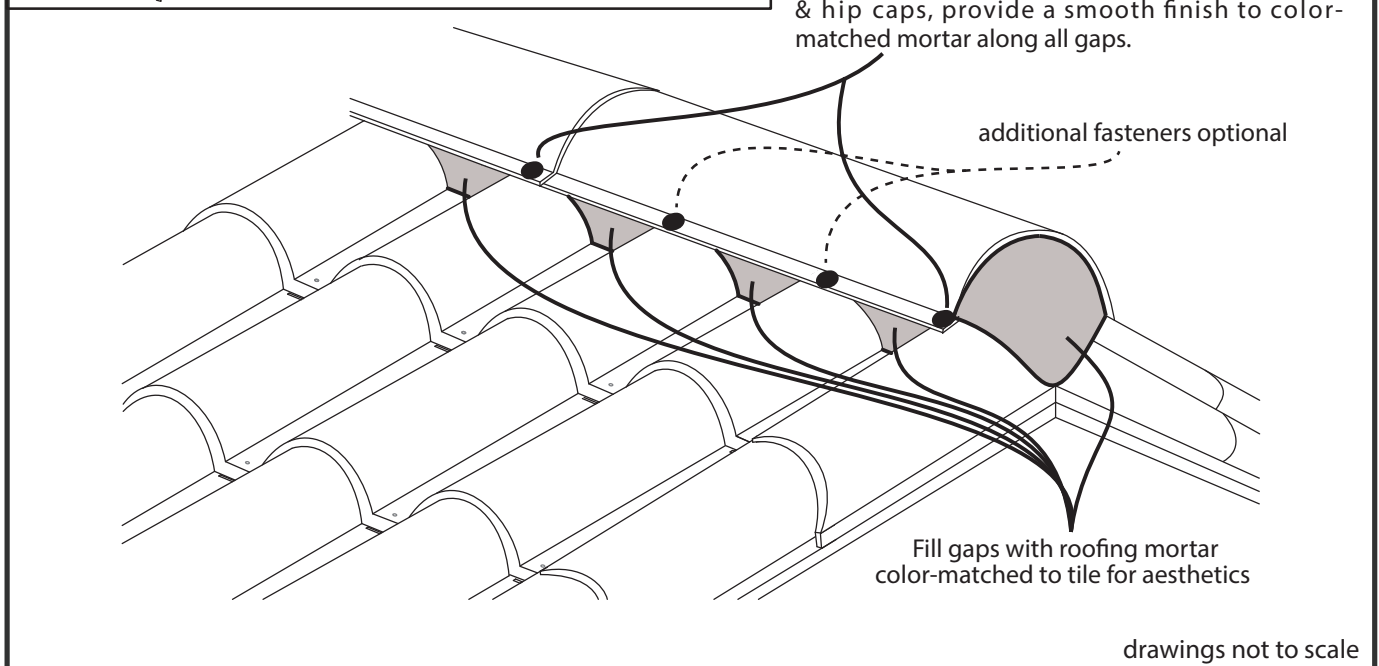
Concealor / Pancake Head

1/4" Hex Drive

Apply a bed of mortar at the ridge & hip junctions then attach the caps to the tiles as specified in the diagram. Each ridge cap is fastened at all corners with at least one fastener as shown. Additional fasteners may be used at each contact point with tile, if desired. After fastening ridge & hip caps, provide a smooth finish to color-matched mortar along all gaps.

drawings not to scale

Ekoroof Tile Ridge Installation Detail - C-Channel Method

C-Channels (26ga)

Rake Edge

Standard Metal Drip-Edge

Fascia Board

Ridge Cap

Ridge Fastener is #10 wood point, Corrosion Resistant & Approved Screw w/ EPDM washer & Hex or Concealor head, 1 1/2" long, attaching the ridge to the tile, color-matched for aesthetics.
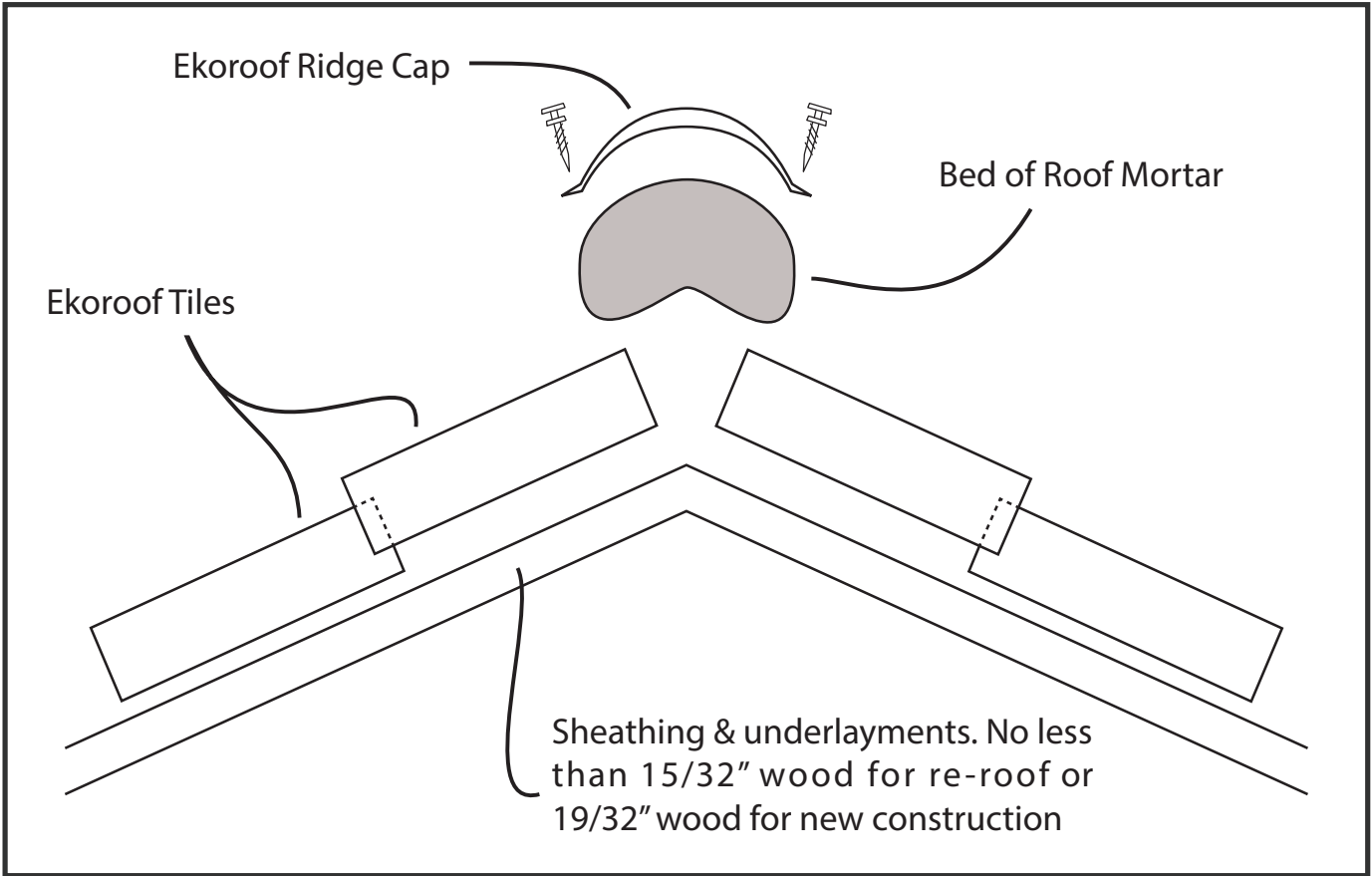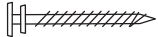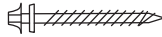
Concealor / Pancake Head   1/4" Hex Drive

Install C-Channels at the top of the ridge, then fasten Ekoroof Tile panels abutting the inner part of the channel. Ekoroof tiles may be cut to fit. Fasten ridge cap by penetrating through top lip of C-Channel. Additional fasteners may be used at each contact point with tile, if desired.

additional fasteners optional

End caps are 26ga sheet metal, seal seams with sealant, and attach to C-Channels via pop rivets spaced 4" O.C. Add sealant to end cap at ridge cap seam. Sealant type is Ekoroof Sealant, NPC Sealants Solar Seal 900®, or equivalent

drawings not to scale

Ekoroof Tile Ridge Installation Detail - C-Channel Method Cont.

Ekoroof Ridge Cap

Ekoroof Tiles

Sealant

Roof Cement

C-Channel

Sheathing & underlayments. No less than 15/32" wood for re-roof or 19/32" wood for new construction
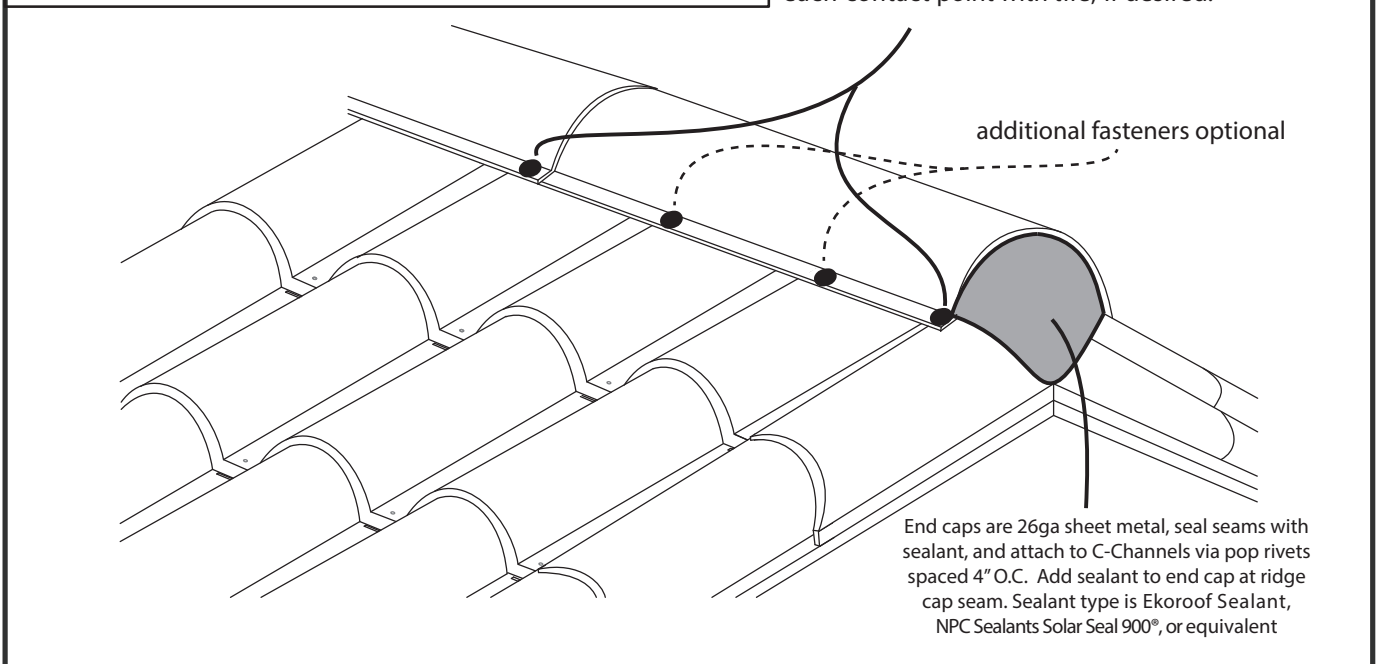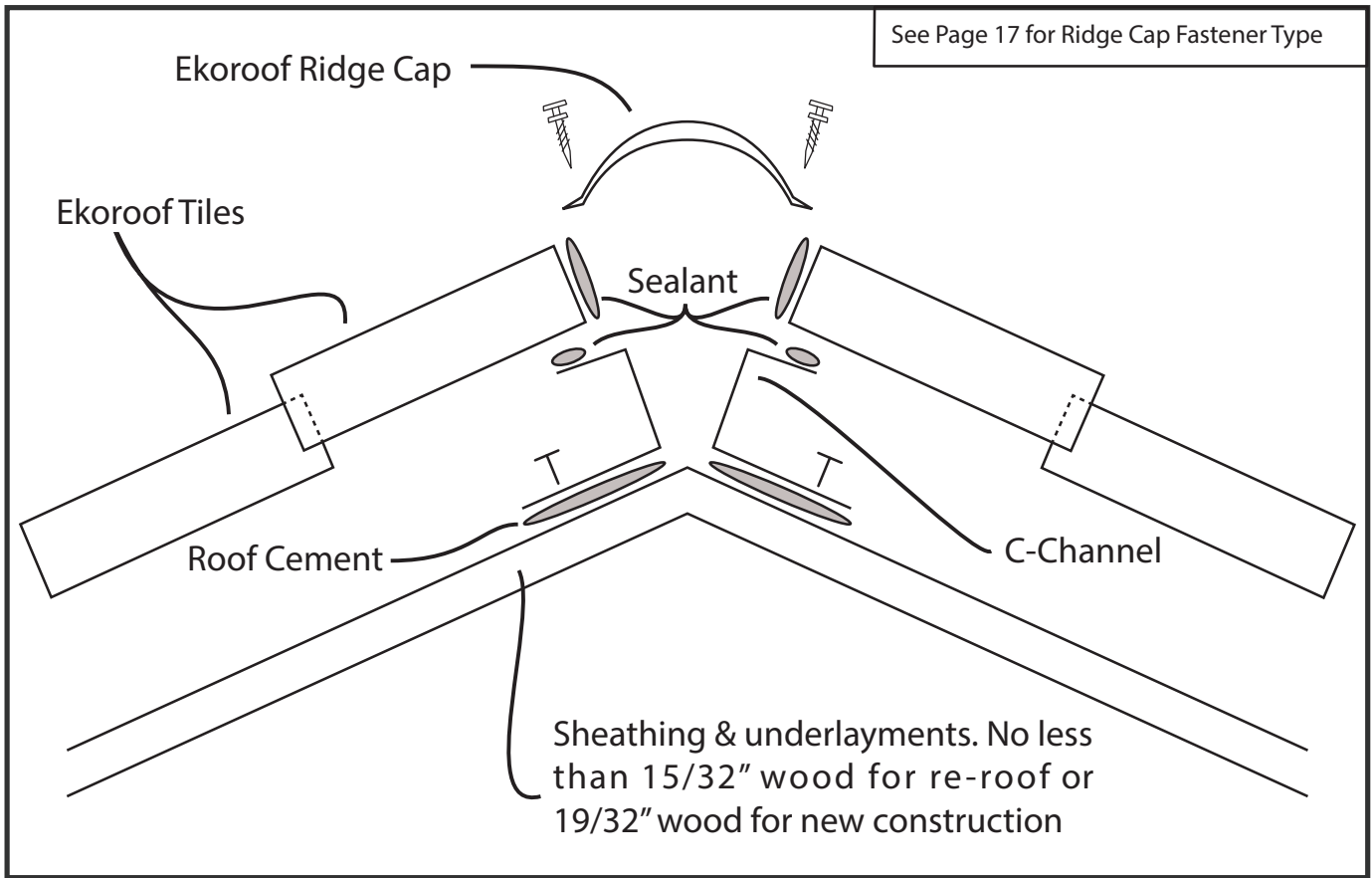
Apply roofing cement to bottom of C-Channels and mark the necessary spacing by using the Ekoroof Ridge Cap as a guide, then permanently install at the top of the ridge by fastening at lower edge every 4" O.C. with approved 1 1/4" RS Roofing Nails. Fasten Ekoroof Tile panels abutting the inner part of the channel, and seal with sealant described below at the abutment point. Add a bead of sealant to the top lip of the C-Channel and fasten ridge cap by penetrating through top lip of C-Channel and high point of Ekoroof tile beneath it. Additional fasteners may be used at each contact point with tile, if desired. All C-Channel overlaps shall be 6" minimum, and sealed. Sealant type is Ekoorof Sealant, NPC Sealants Solar Seal 900®, or equivalent. This detail also covers Hip installation.

Pitch affects C-Channel geometry. Always use Ridge Cap as a guide to ensure proper alignment of cap & C-Channel before installing metal. Then cut top-most end of Ekoroof tile as needed to sit flush against back of C-Channel

Cut
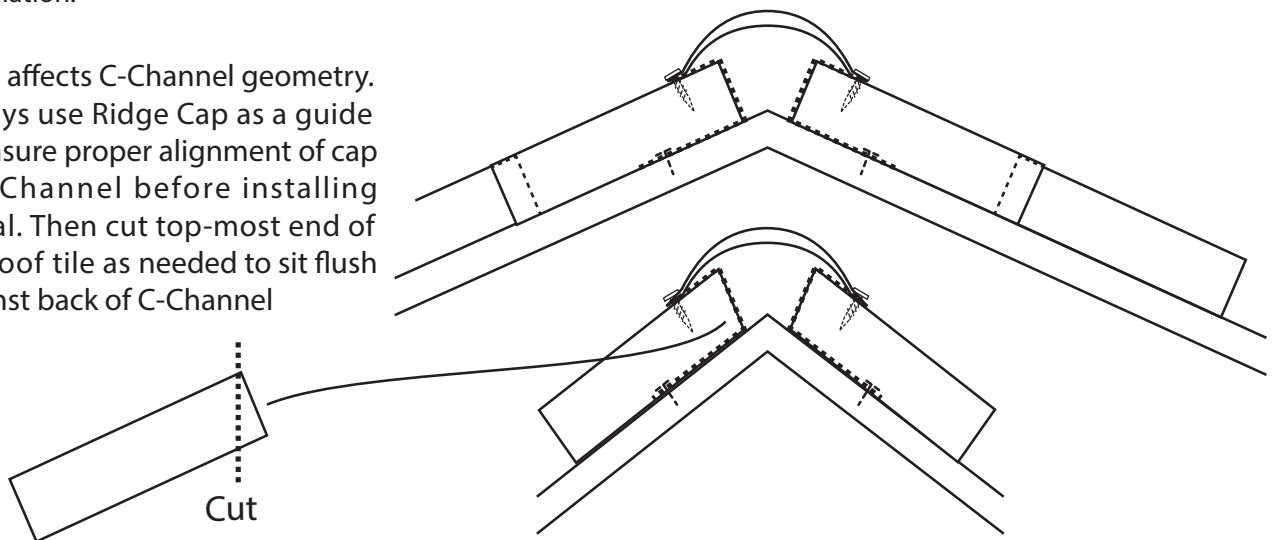
drawings not to scale

Ekoroof Tile Rake Forming and Installation Detail

cut   cut   cut   cut

rake   discard   rake   discard   rake   discard   rake   discard

cut upper & lower lips as needed
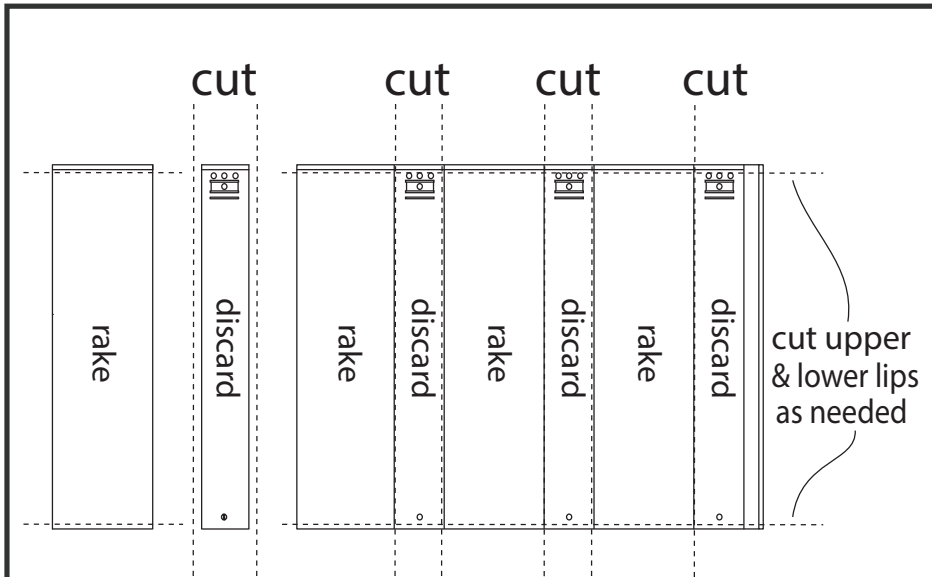
In following with Ekoroof's vision of reducing waste, each rake accessory can be formed from our tiles.

Rather than discarding tiles that have been cut to fit the valleys, hips & details on your roof, they can be used to form rake accessories. This practice not only reduces the amount of material that you must order, but also cuts down on waste going to landfills.

Rakes are also available pre-made.

Rake Accessory

Each tile will form four rake accessories

Rake Fastener is #10 2" wood point, Corrosion Resistant & Approved Screw with EPDM washer & Hex or Concealor head, 2" long, fastening the rake to the fascia. Screws should be color-matched to tile for aesthetics.

Concealor / Pancake Head   1/4" Hex Drive

Fascia Board

Fascia Board

Slope

Fascia Board

Metal Drip-Edge

Fascia Board

5

3

1

4

2

Rake Edge

Metal Eave Closure
Cut to Fit, as needed
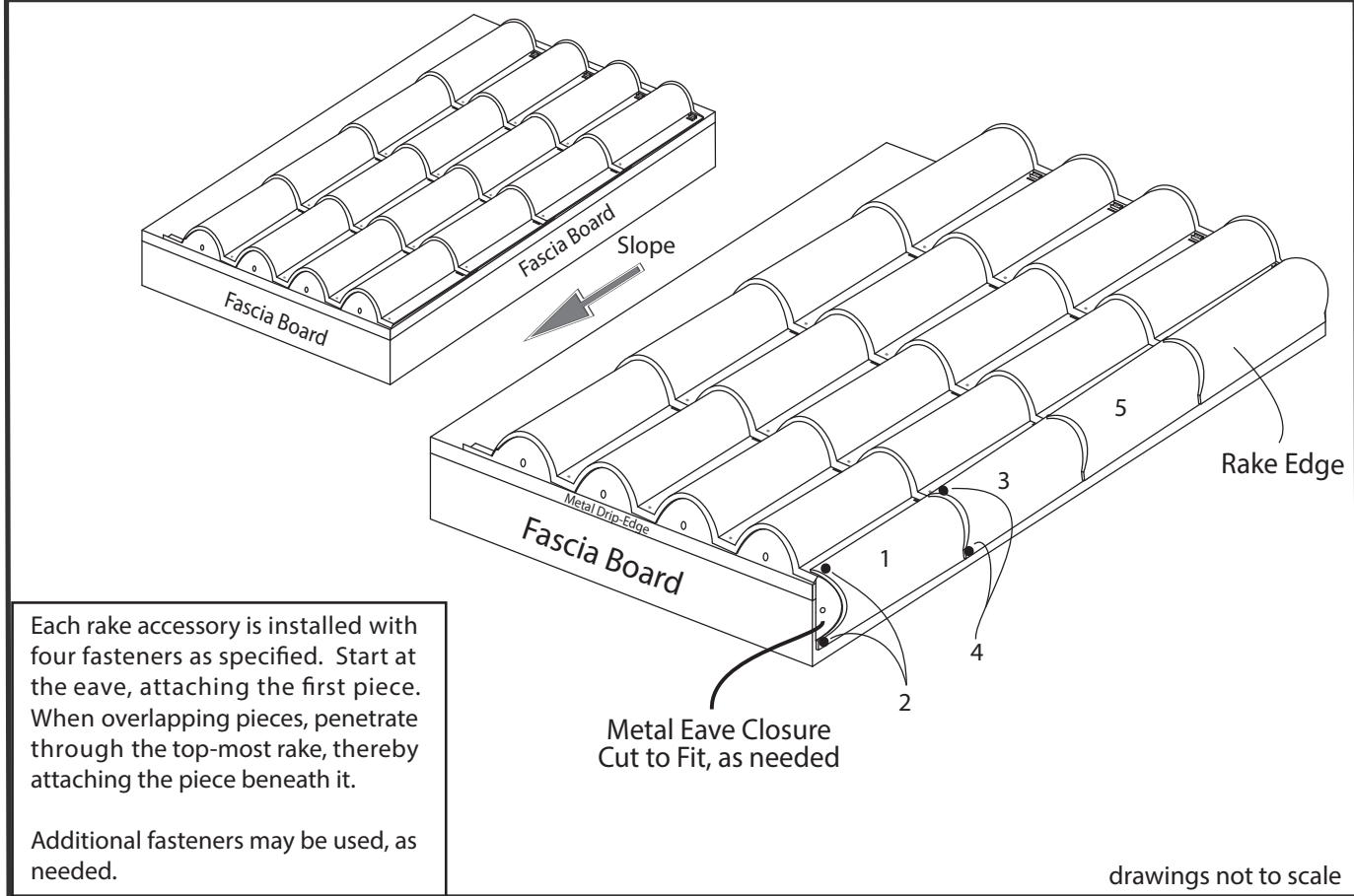
Each rake accessory is installed with four fasteners as specified. Start at the eave, attaching the first piece. When overlapping pieces, penetrate through the top-most rake, thereby attaching the piece beneath it.

Additional fasteners may be used, as needed.

drawings not to scale

Ekoroof Tile Rake Installation Detail - Without C-Channel

Low Point

Ekoroof Tile

Roof Cement
at Laps

3" x 3" Drip Edge
(See page 8 for fastening details)

Sheathing & underlayments.
No less than 15/32" wood
for re-roof or 19/32" wood
for new construction

1"x2" Furring Strip
Optional (recommended)
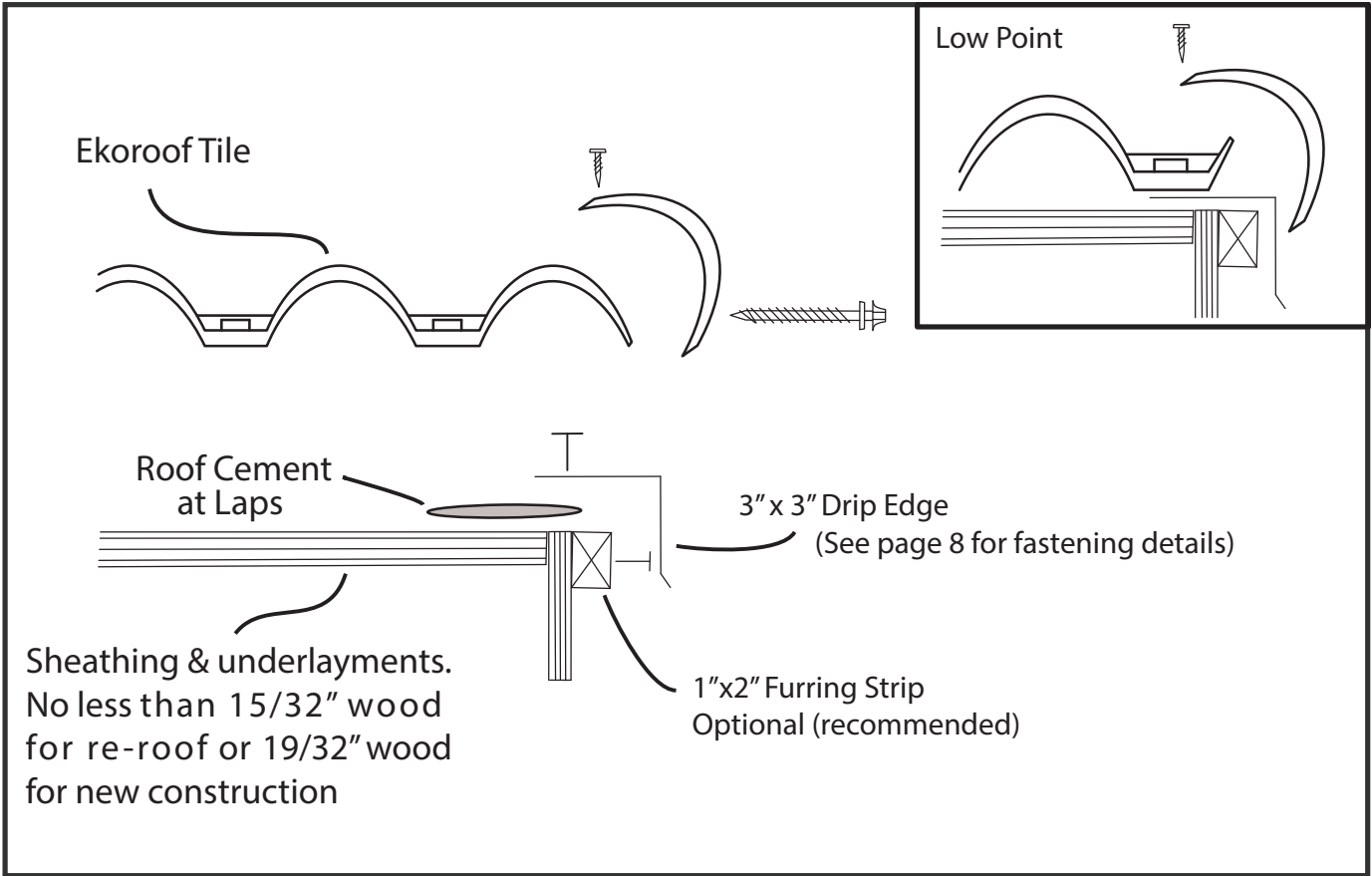
Rake Fastener for attaching the Rake to Ekoroof Tile or second Rake is #10-13 1" long wood point, Corrosion Resistant & Approved Screw. Rake fastener for attaching the rake to the fascia board is #10 2" long wood point Corrosion Resistant & Approved Screw w/ EPDM washer & Hex or Concealor head, color-matched for aesthetics.

Concealor / Pancake Head   1/4" Hex Drive   #10-13 x 1"

Low Point

High Point 1

High Point 2
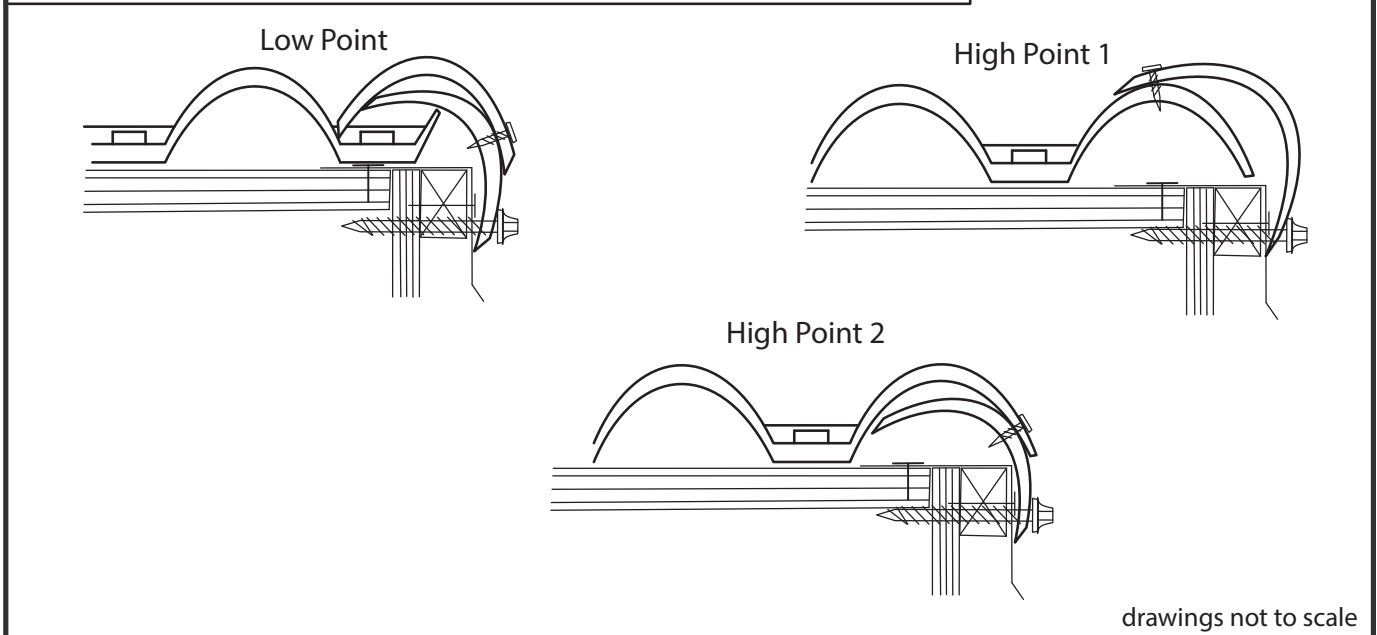
drawings not to scale

Begin the transition with a bed of mortar, as specified in Pages 14 and 15 of this manual. Ensure that the ridge mortar covers at least 2" of the end piece of the last rake at the transition point between the rake and the beginning of the hip. Provide a smooth finish to the mortar at the lower edge of the hip, where it meets the eave.

Mortar should be color-matched to tile for aesthetics.

Headwall
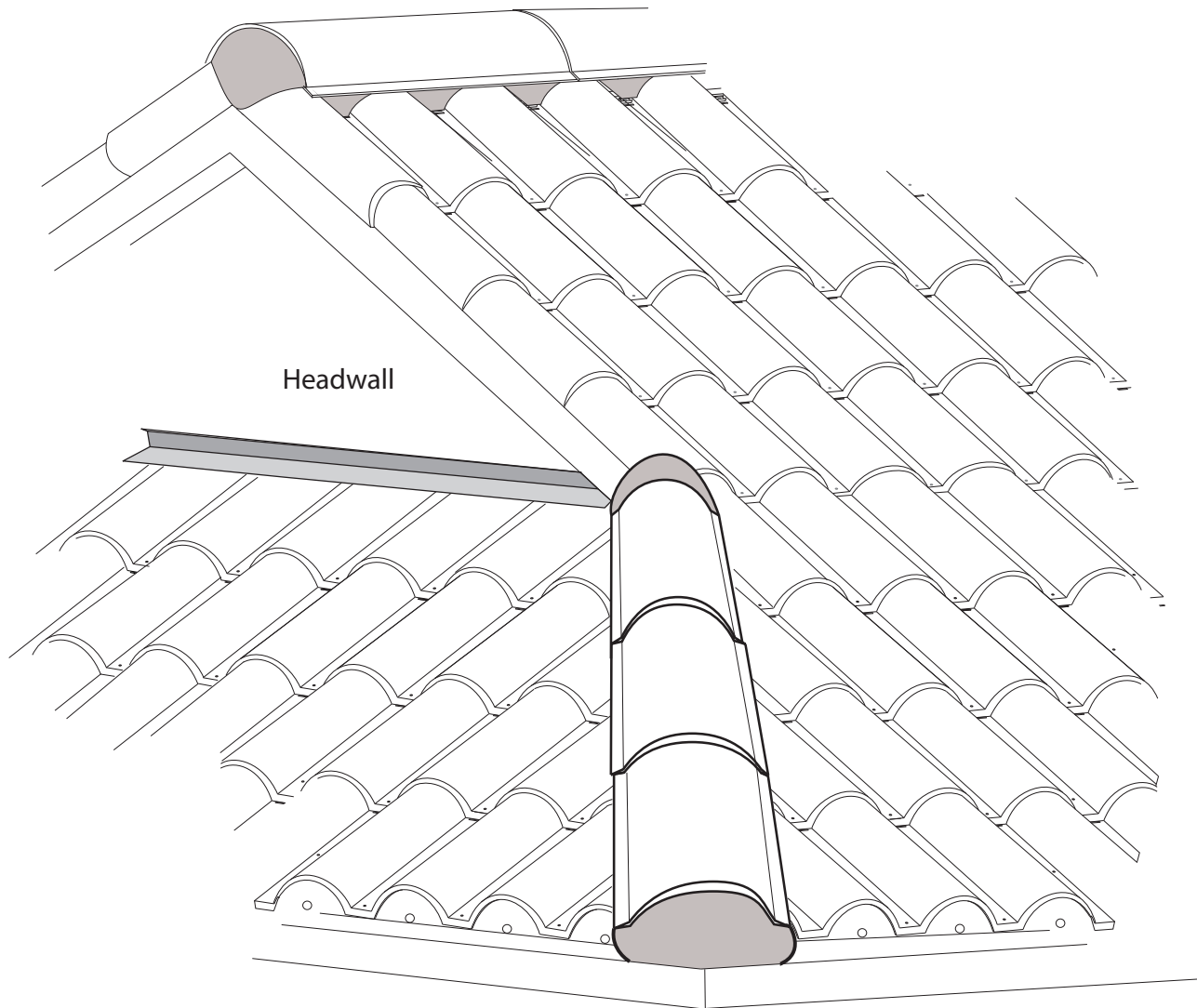
Hip installation is the same as Ridge installation. See pages 14 through 16 of this manual for details and information on fastener size, type and location.

drawings not to scale

Ekoroof Tile Valley Detail

Ekoroof Tiles

16" wide min, W-Valley Metal

Roof Cement

Sheathing & underlayments. No less than 15/32" wood for re-roof or 19/32" wood for new construction

16"

Valley is attached with 1 1/4" RS Nails every 4" O.C. at edges, or alternatively with 1 1/2" Concealor head #10-13 wood point screws through the structural members. Valley laps shall be no less than 6" and sealed with roofing cement, or two beads of Ekoroof Sealant, NPC Sealants Solar Seal 900 or equivalent.

Cut Ekoroof Tile panels flush with the center of the valley metal

12"

Do not fasten Ekoroof Tiles within this area. Fasteners may be offset up-slope, and, if needed, tiles may be fastened to adjacent tiles in the same fashion as the rakes, ridge and hip caps.

drawings not to scale

Minimum underlayment allowed for installation of Ekoroof is one ply of ASTM D-226 Type II. It is recommended, but not required, that when installing Ekoroof with only this minimum, an additional 36" wide, continuous layer of underlayment (ASTM D-226 Type II or Self-Adhered ASTM D-1970) be applied over the first ply of ASTM D-226 Type II, and under the valley metal, running the length of the valley. The same recommendation is made for the hips.

Underlayments installed in shingle fashion, fastened and overlapped as per individual manufactuer's specifications

Valley Center

3

4

1

2

Do not penetrate metal valley within 6" of center line

16" wide minimum, 26ga galvanized steel W-Valley, color matched to tile for aesthetics. Continue valley flashing to top of drip edge. See Page 18 for valley fastening procedures.

6"   6"
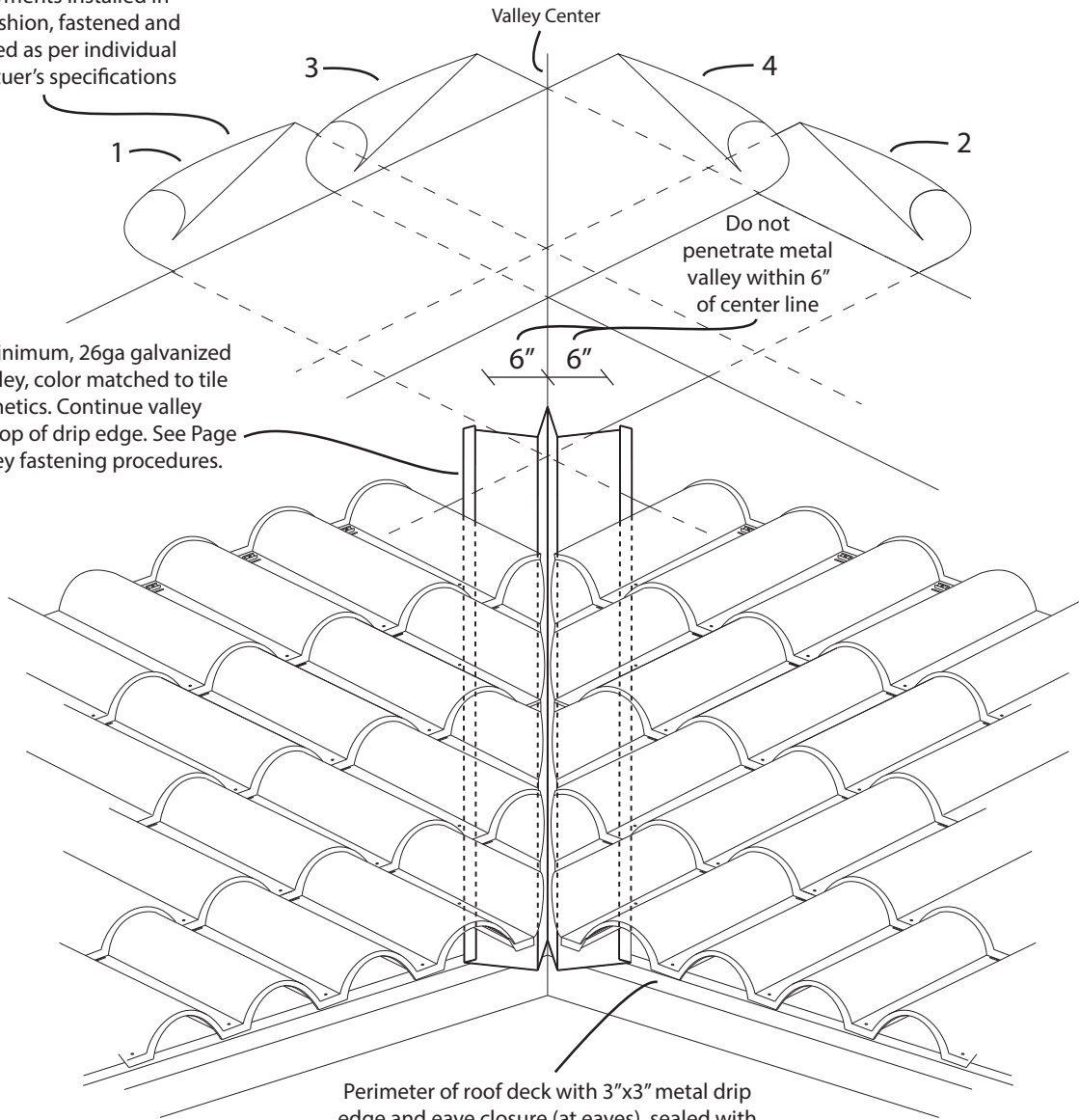
Perimeter of roof deck with 3"x3" metal drip edge and eave closure (at eaves), sealed with roofing cement and nailed every 6" O.C. Eave closure not shown for valley visualization.

drawings not to scale

Eave closure not shown
for valley visualization
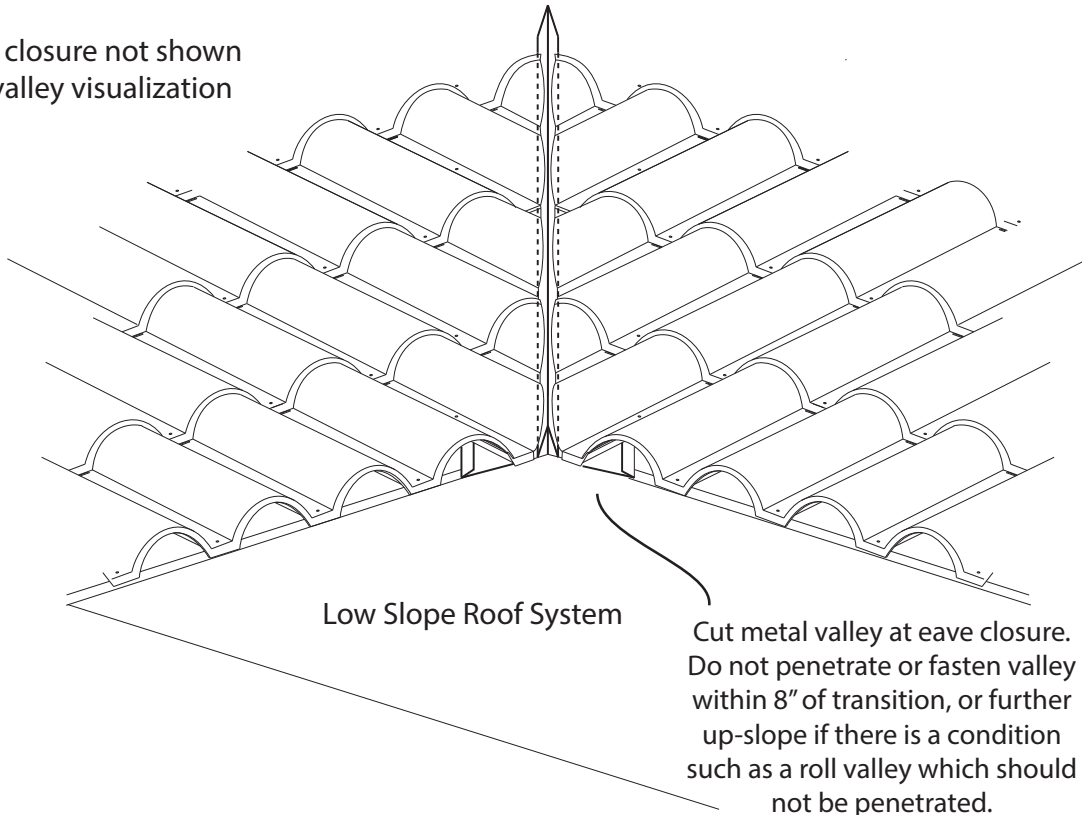
Low Slope Roof System

Cut metal valley at eave closure.
Do not penetrate or fasten valley
within 8" of transition, or further
up-slope if there is a condition
such as a roll valley which should
not be penetrated.

For termination of Valley onto a Steep
Slope roof system, install a lead skirt
flashing per RAS 119 3.05. Mold the
flashing to the underlying field tile to
divert water back onto the field tile.
Paint to match tile for aesthetics. If
lead skirt is not used, paint extended
valley to match tile for aesthetics.
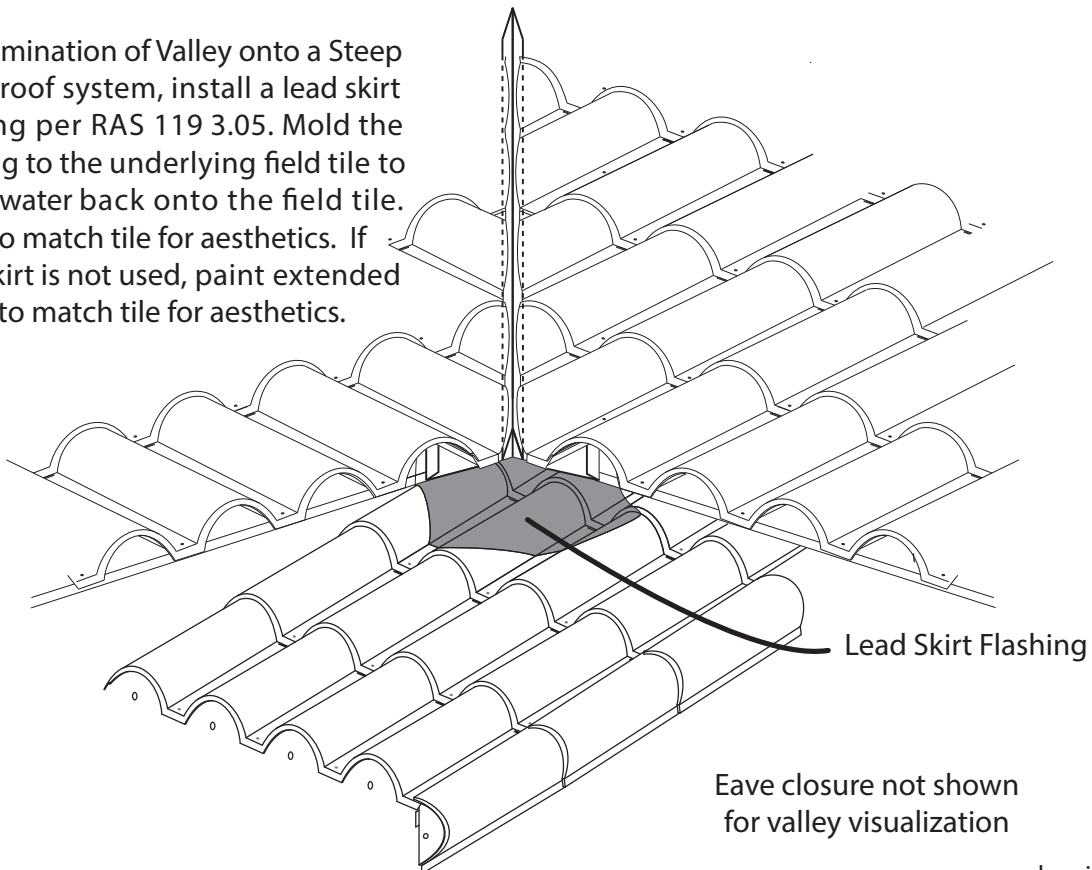
Lead Skirt Flashing

Eave closure not shown
for valley visualization

drawings not to scale

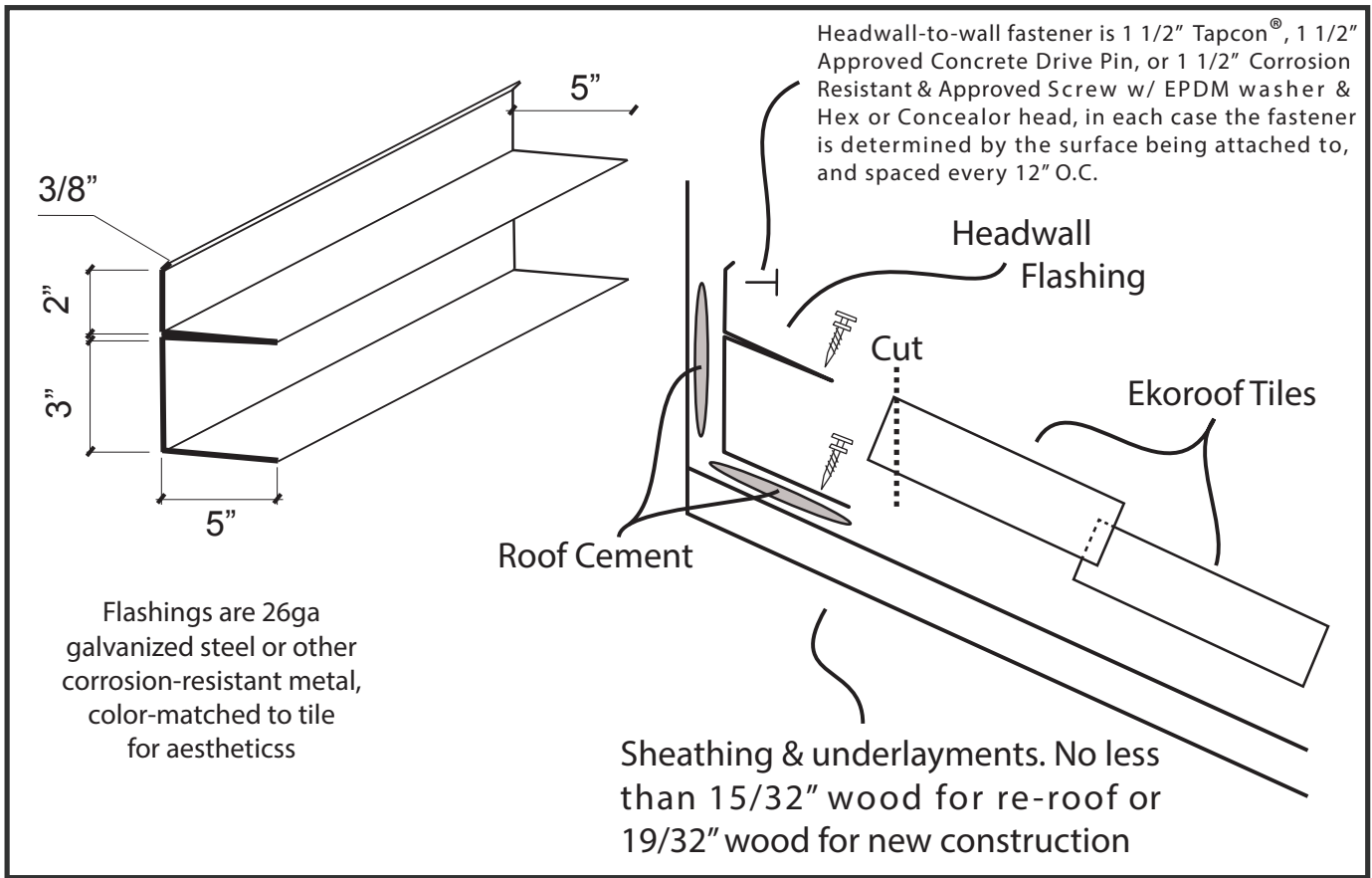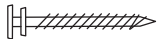# Ekoroof Tile Headwall Flashing Installation Detail

5"

3/8"

2"

3"

5"

Flashings are 26ga galvanized steel or other corrosion-resistant metal, color-matched to tile for aestheticss

Headwall-to-wall fastener is 1 1/2" Tapcon®, 1 1/2" Approved Concrete Drive Pin, or 1 1/2" Corrosion Resistant & Approved Screw w/ EPDM washer & Hex or Concealor head, in each case the fastener is determined by the surface being attached to, and spaced every 12" O.C.

Headwall Flashing

Cut

Ekoroof Tiles

Roof Cement

Sheathing & underlayments. No less than 15/32" wood for re-roof or 19/32" wood for new construction

Headwall to Deck Fastener is #10, 1 1/2" wood point, Corrosion Resistant & Approved Screw w/ EPDM washer & Hex or Concealor head, installed every 12" O.C. Headwall to Ekoroof fastener is same type, but color-matched for aesthetics.

Concealor / Pancake Head   1/4" Hex Drive

Install Headwall Flashing to the wall as specified, then fasten Ekoroof Tile panels abutting the inner part of the flashing. Seal Ekoroof tiles to the back end of the headwall with Ekoroof Sealant, NPC Sealants Solar Seal 900, or equivalent. Ekoroof tiles may be cut to fit flush against the back end of the flashing. Fasten flashing to high point of Ekoroof tiles every 20". Additional fasteners may be used at each contact point with tile, if desired.

Sealant

Headwall

drawings not to scale

Ekoroof Tile Headwall Flashing Installation Detail

5"

3"

4"

5"   1"

Flashings are 26ga galvanized steel or other corrosion-resistant metal, color-matched to tile for aestheticss

Flashing and Stucco stop-to-wall fasteners are 1 1/2" Tapcon®, 1 1/2" Approved Concrete Drive Pin, or 1 1/2" Corrosion Resistant & Approved Screw w/ EPDM washer & Hex or Concealor head, in each case the fastener determined by the surface being attached to, and spaced every 12" O.C.

Stucco Stop

3" x 5" Flashing

Cut

Ekoroof Tiles

Roof Cement

Full bed of Roof Mortar

Sheathing & underlayments. No less than 15/32" wood for re-roof or 19/32" wood for new construction
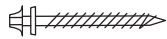

Headwall to Deck Fastener is #10, 1 1/2" wood point, Corrosion Resistant & Approved Screw w/ EPDM washer & Hex or Concealor head, installed every 12" O.C. Headwall to Ekoroof fastener is same type, but color-matched for aesthetics.
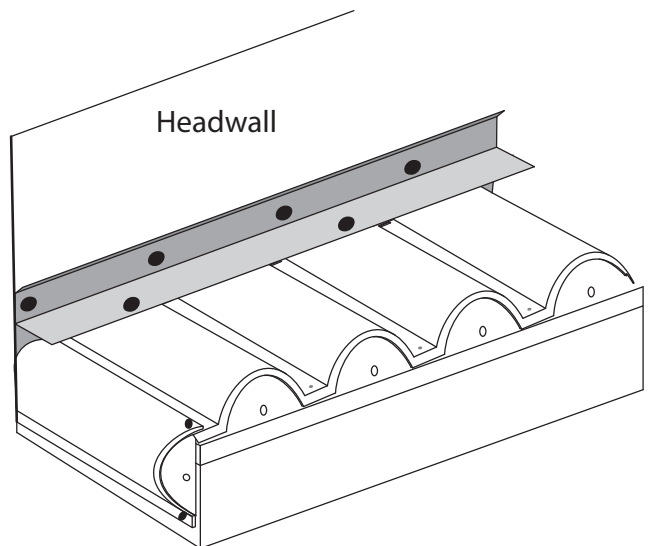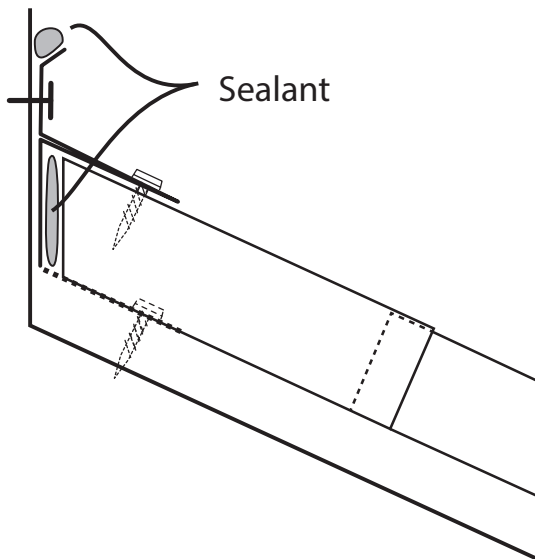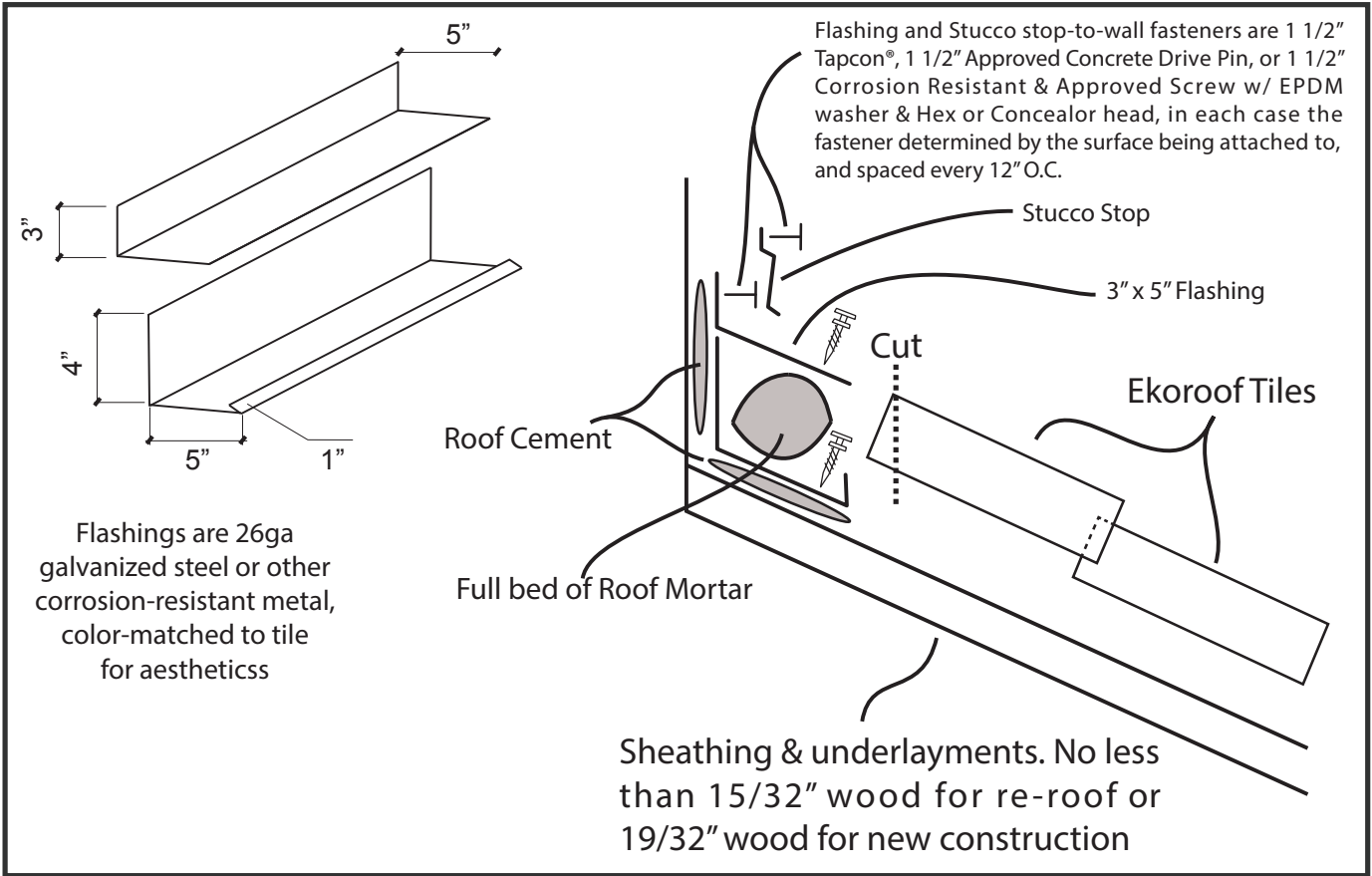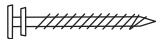
Concealor / Pancake Head   1/4" Hex Drive
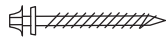
Install Flashings to the wall as specified, then apply a full bed of mortar to the junction of the deck and headwall, over the 5" x 7" flashing, and fasten Ekoroof Tile panels spaced at least 1/2", but not more than 1" away from the inner part of the flashing to allow the concrete bed to remain continuous. Fasten 5"x7" flashing to high point of Ekoroof tiles every 20". Additional fasteners may be used at each contact point with tile, if desired.

1/2" Min
1" Max

Headwall

drawings not to scale

Ekoroof Tile Sidewall Flashing Installation Detail

5"

3/8"

2"

4"

5"   1"

Flashings are 26ga galvanized steel or other corrosion-resistant metal, color-matched to tile for aestheticss

Sidewall-to-wall fastener is 1 1/2" Tapcon[®], 1 1/2" Approved Concrete Drive Pin, or 1 1/2" Corrosion Resistant & Approved Screw w/ EPDM washer & Hex or Concealor head, in each case the fastener determined by the surface being attached to, and spaced every 12" O.C.

Sidewall Flashing

Ekoroof

Roof Cement

Sheathing & underlayments. No less than 15/32" wood for re-roof or 19/32" wood for new construction

Sidewall to Deck Fastener is #10, 1 1/2" wood point, Corrosion Resistant & Approved Screw w/ EPDM washer & Hex or Concealor head, installed every 12" O.C. Sidewall to Ekoroof fastener is same type, but color-matched for aesthetics.
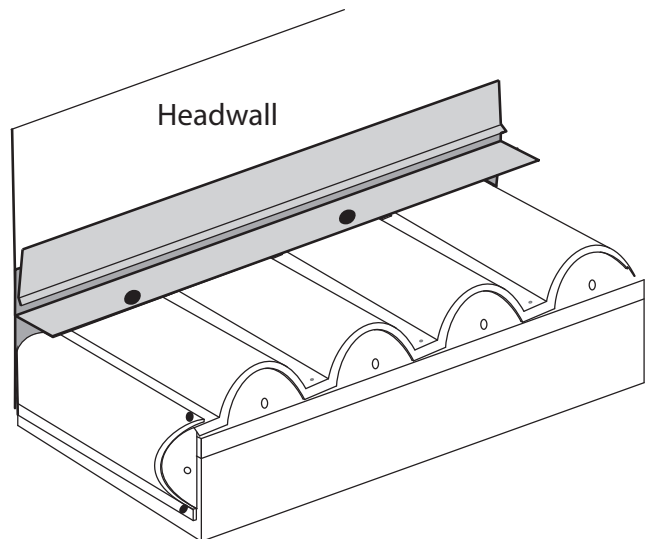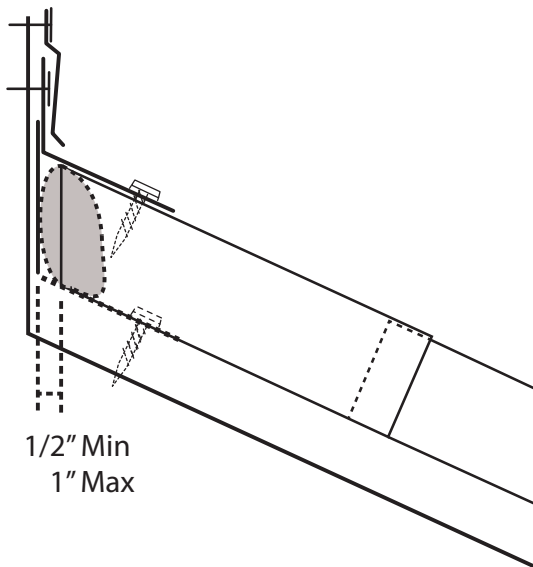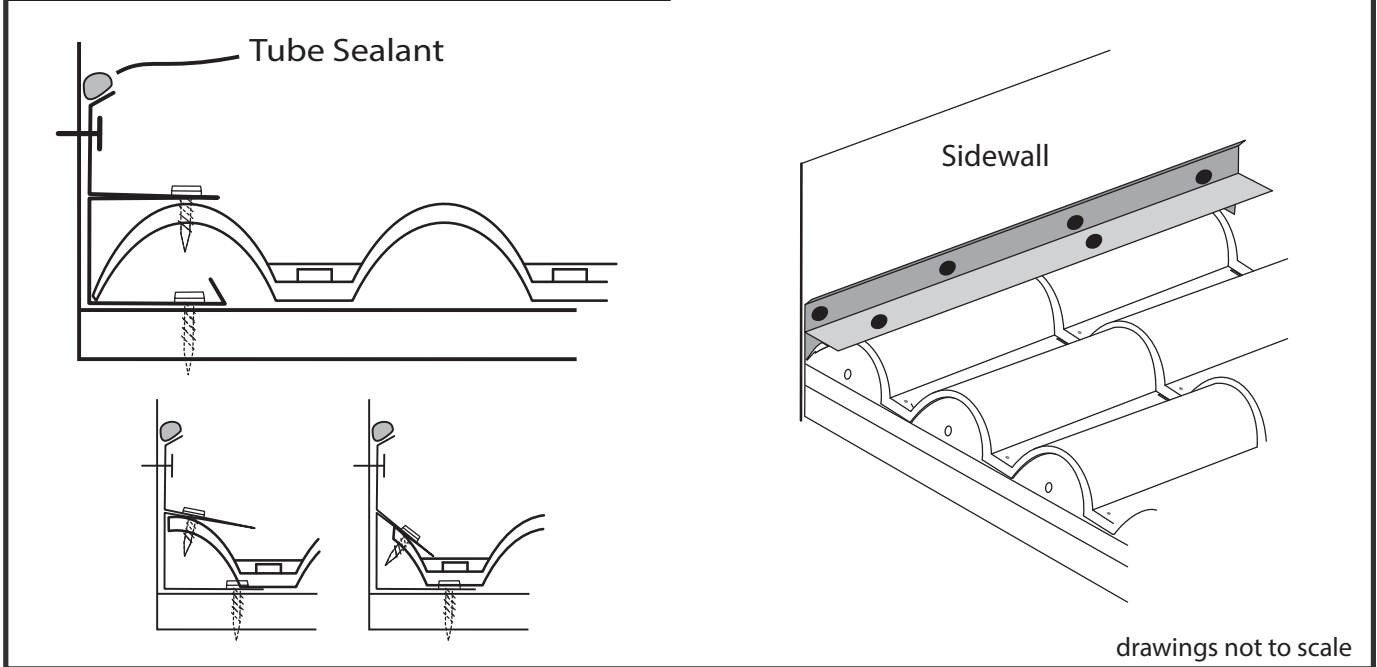
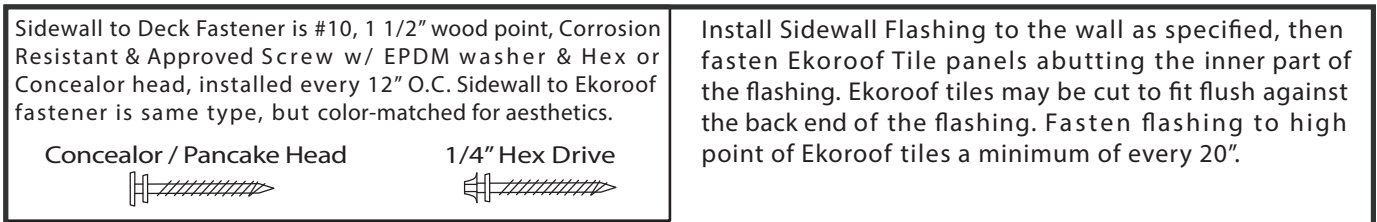Concealor / Pancake Head   1/4" Hex Drive
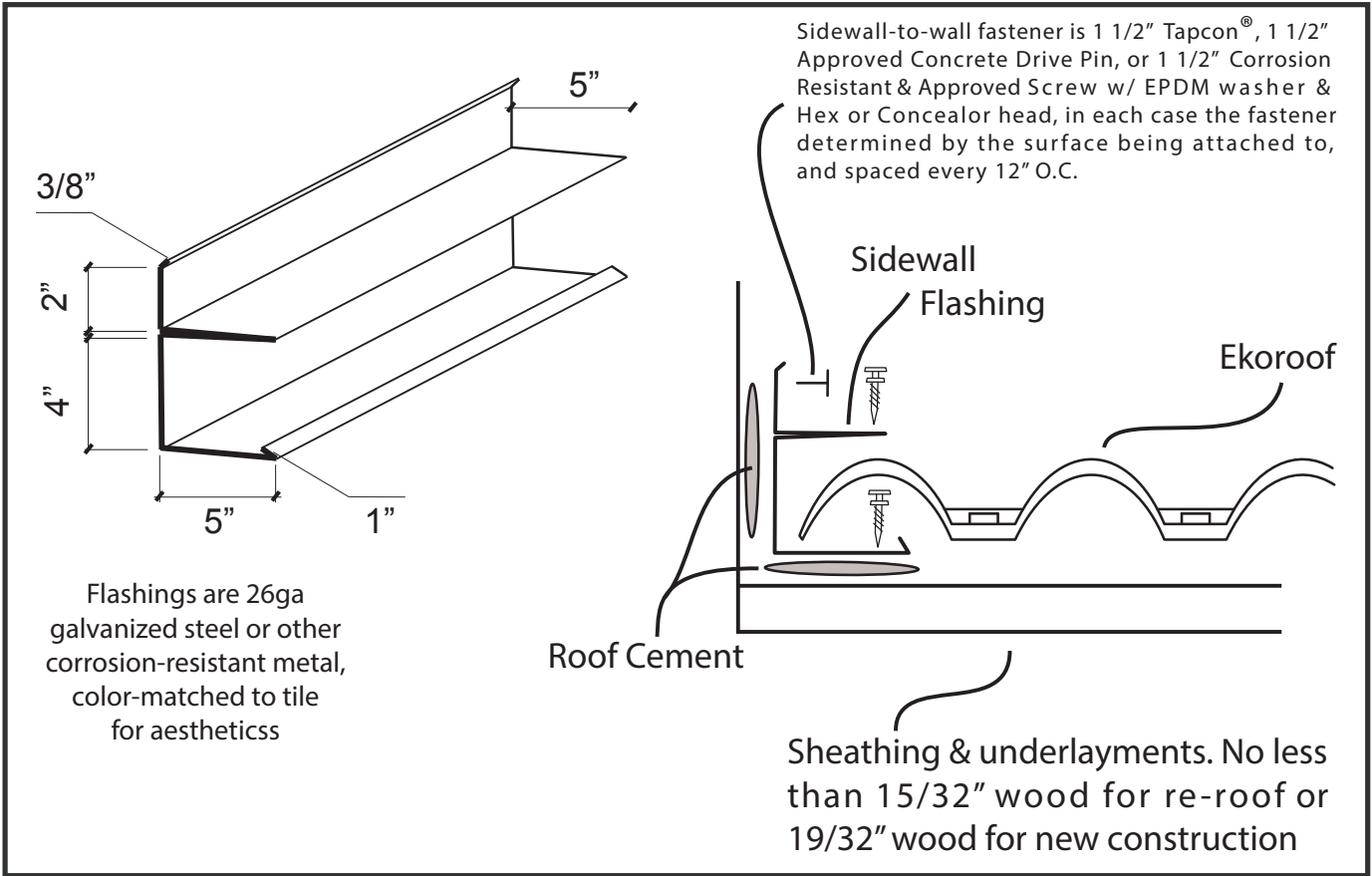
Install Sidewall Flashing to the wall as specified, then fasten Ekoroof Tile panels abutting the inner part of the flashing. Ekoroof tiles may be cut to fit flush against the back end of the flashing. Fasten flashing to high point of Ekoroof tiles a minimum of every 20".

Tube Sealant

Sidewall

drawings not to scale

Ekoroof Tile Sidewall Flashing Installation Detail

5"

3"

4"

5"   1"

Flashings are 26ga galvanized steel or other corrosion-resistant metal, color-matched to tile for aestheticss

Flashing and Stucco stop-to-wall fasteners are 1 1/2" Tapcon®, 1 1/2" Approved Concrete Drive Pin, or 1 1/2" Corrosion Resistant & Approved Screw w/ EPDM washer & Hex or Concealor head, in each case the fastener determined by the surface being attached to, and spaced every 12" O.C.

Stucco Stop

3" x 5" Flashing

Ekoroof

Roof Cement

Sheathing & underlayments. No less than 15/32" wood for re-roof or 19/32" wood for new construction
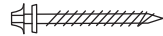
Sidewall to Deck Fastener is #10, 1 1/2" wood point, Corrosion Resistant & Approved Screw w/ EPDM washer & Hex or Concealor head, installed every 12" O.C. Sidewall to Ekoroof fastener is same type, but color-matched for aesthetics.
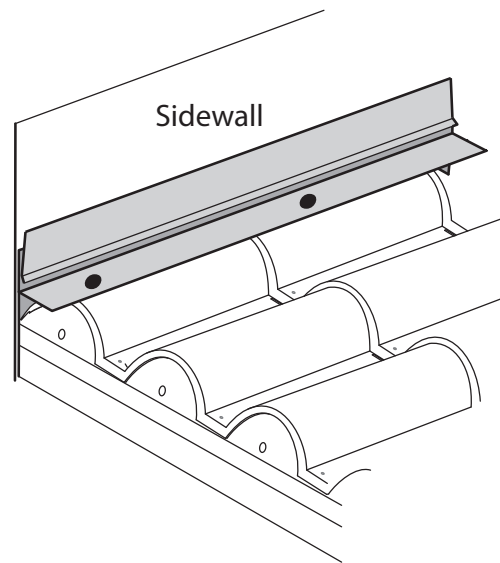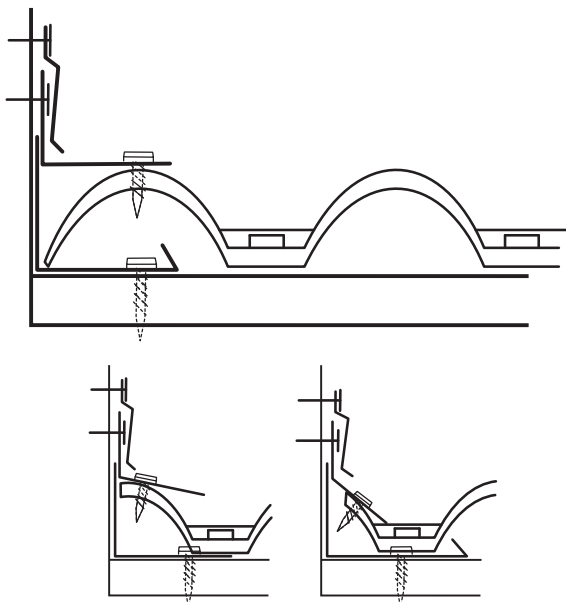
Concealor / Pancake Head   1/4" Hex Drive

Install Sidewall Flashing to the wall as specified, then fasten Ekoroof Tile panels abutting the inner part of the flashing. Ekoroof tiles may be cut to fit flush against the back end of the flashing. Fasten flashing to high point of Ekoroof tiles a minimum of every 20".

Sidewall

drawings not to scale

Ekoroof Tile Sidewall to Headwall Flashing Installation Detail

This condition is encountered at dormers, chimneys, and other locations where a sidewall turns a corner into a headwall.

A"

B"

Slope

Slope

Cut Flashings as shown. Length of flashing to be cut and overlapped is equivalent to length of horizontal sections (A" = B" in illustration)

Overlap flashings in shingle or step flashing manner around the corner. Seal all seams with Ekoroof Sealant, NPC Sealants Solar Seal 900®, or equivalent.

Headwall

Sidewall

See pages 24-27 on headwalls and sidewalls for fastener types to be used, locations and spacing

drawings not to scale