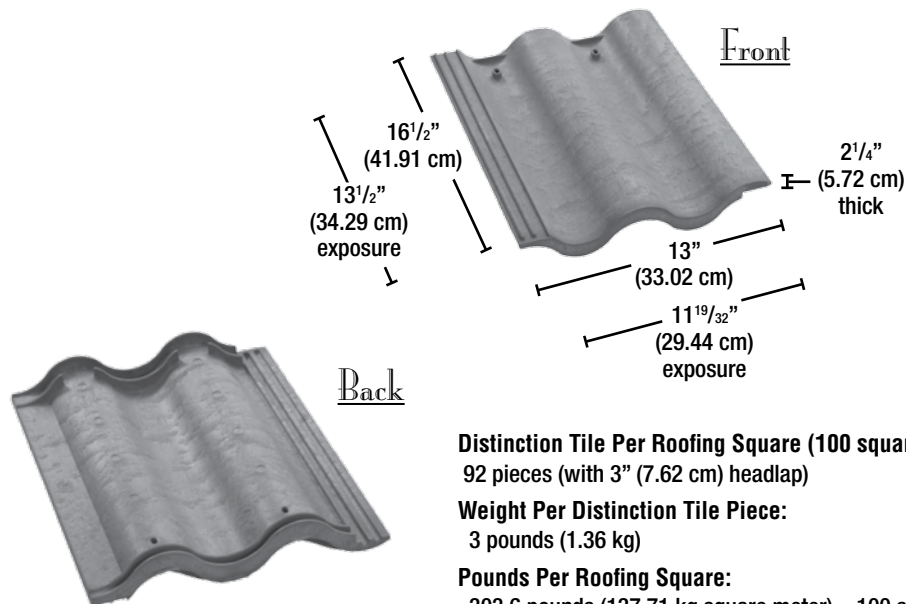


# Product Description

Distinction™ Tile is a lightweight molded composite of a mixture of polyethylene polymer and inorganic proprietary additive materials that gives the authentic and traditional look of concrete and clay tiles. Distinction Tile has the ever-popular double roman profile for a true tile look. Distinction Tile comes in a variety of vibrant tile colors that can be blended for a customized and unique roof appearance.

Distinction Tile has six different tile colors to choose from - *see the back cover to view the color selection:*

- Black
- Canyon Earth
- Desert Red
- Goldenrod
- Saddle Brown
- Sage



**Distinction Tile Per Roofing Square (100 square feet/30.48 m):**

92 pieces (with 3" (7.62 cm) headlap)

**Weight Per Distinction Tile Piece:**

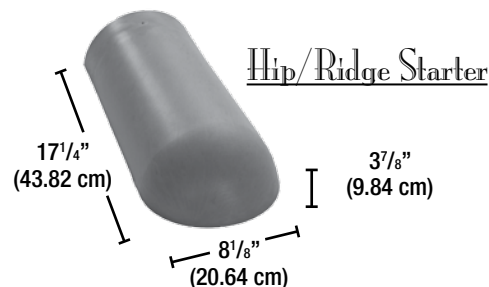
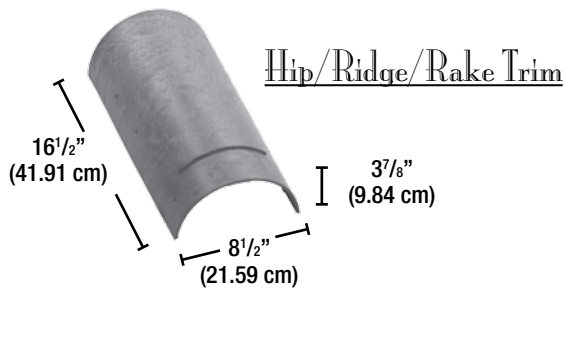
3 pounds (1.36 kg)

**Pounds Per Roofing Square:**

303.6 pounds (137.71 kg square meter) – 100 square feet (12 kg/m)

**Squares Per Pallet:**

3 roofing squares



58% Eco-Friendly Content

With the importance of being green Trimline's Distinction™ Composite Roofing fits the bill. Distinction Tile uses 58% eco-friendly content. Among other eco-conscious products, we utilize a post-industrial cellulose material along with a crystalline filler. Both of these ingredients would be land-fill if we did not reclaim and use them.

(See Appendices A and B)

**Distributed by: BEST MATERIALS LLC, Phoenix AZ**  
**Ph: 800-474-7570, 602-272-8128 Fx: 602-272-8014**  
**www.BestMaterials.com Email: Sales@BestMaterials.com**

# Warranty

Distinction Tile offers a 50-year limited warranty. (See Appendix C)

# Certification

Distinction Tile has passed independent lab testing and completed testing for ICC-ES per AC-07 Acceptance Criteria For Special Roofing Systems, certification is pending:

- ASTM G155 - 2000 Hours Xenon Weathering
- ASTM D638 - Tensile
- ASTM D638 - Tensile - Weathered
- Wind Resistance
- Uplift Bend
- Penetration
- ASTM E108 - Class C Fire
- ASTM D1929 - Ignition Temps
- ASTM D1929 - Ignition Temps - Weathered
- ASTM D635 - Rate of Burn
- ASTM D635 - Rate of Burn - Weathered
- ASTM D2843 - Smoke Density Temperature Cycling
- FM 4473 - Ice Hail Impact
- Hail impact test for Class 4 Hail.

## Preparing for Installation – Materials Needed

### Decking\*

Distinction Tile shall be installed over code-complying, minimum  $1\frac{5}{32}$ " (12.7 mm) plywood sheathing for the roof decking.

*\*It is recommended that all previous roofing materials be torn off prior to Distinction Tile installation.*

### Underlayment\*

For roof slopes 4:12 and above, the use of quality ice and water products and synthetic underlayments and 30# felt will provide optimal performance when used in accordance with their respective manufacturers' application instructions. Use self-seal membrane that meets or exceeds requirements of ICBO AC 48 along roof perimeters and protrusions. Underlayment should be installed parallel to the roof eave with a 6" (15.24 cm) lap on the ends. A 3" (7.62 cm) side lap and a minimum  $\frac{1}{4}$ " (6.35 mm) lap over eaves.

Class C: Roof underlayments necessary for obtaining the classification in the tests shall be manufactured under a listing program of an inspection agency accredited by the International Accreditation Service, or otherwise acceptable to ICC-ES.

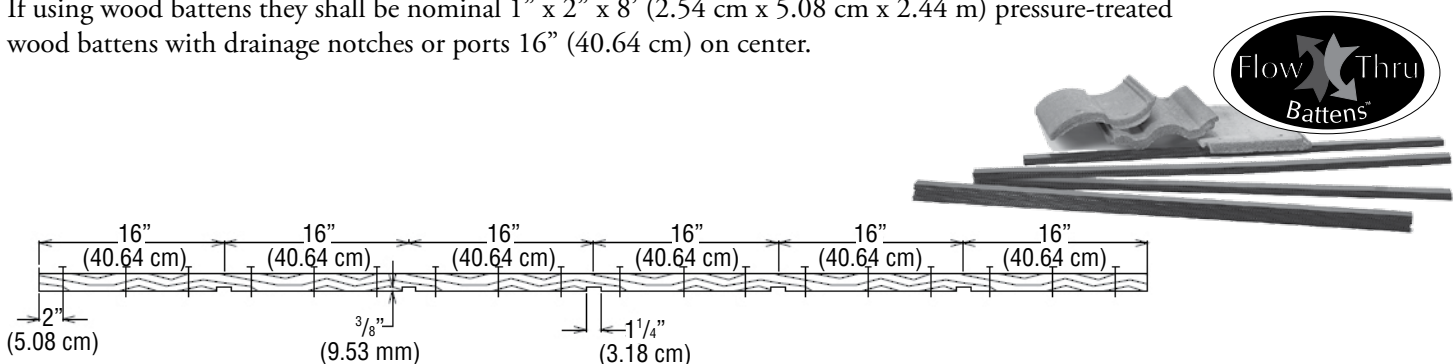
**Severe Weather Areas** – self-seal membrane is required up the roof deck at least 2' (60.96 cm) inside the exterior wall, 6' (1.83 m) in the valleys and 3' (91.44 cm) around protrusions, gables and walls.

*\*Underlayment and flashings are weather-shedding devices for the roof system; the building should be water-tight before Distinction Tile is installed.*

### Battens

Distinction Tile can be installed direct to deck or with wood battens. Trimline Flow-Thru Battens™ can be used for added drainage and airflow under Distinction Tile. Trimline Flow-Thru Battens are constructed of specially-formulated UV-resistant corrugated plastic, designed to allow moisture drainage and air movement under the Distinction Tile. Flow-Thru Battens can be installed with a coil nail gun.

If using wood battens they shall be nominal 1" x 2" x 8' (2.54 cm x 5.08 cm x 2.44 m) pressure-treated wood battens with drainage notches or ports 16" (40.64 cm) on center.



# Recommended Trimline Ridge Vent Products for Distinction Tile

## Ridge Ventilation

Trimline® VariaVent™ Ridge Vent Low Profile  $\frac{5}{8}$ " (15.88 mm) – 12.7" N.F.A. (32.26 cm) – 7" wide x 4' long (17.78 cm x 1.22 m). Available with the following weather blocking colors: Black, Canyon Earth, Desert Red and Sand.



## Roof Ventilation

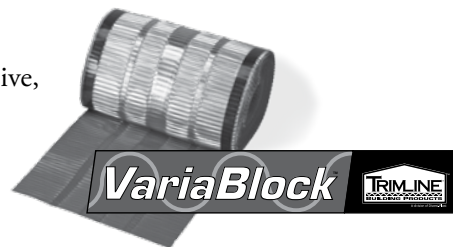
A balanced system is key to proper ventilation of an attic: 50% at the soffit and 50% at the ridge. One square foot of net free area is required for every 300 square feet (91.44 m) of attic space. Proper ventilation will ensure a longer-lasting roof. Trimline Ridge Vents provide superior ventilation, offering the most efficient way to exhaust hot, moist air from the attic while keeping out the most extreme weather elements.

To find the amount of ventilation needed, first determine the square footage of attic space and then visit [www.trimline-products.com](http://www.trimline-products.com) for the ventilation calculator. After entering your square footage, the calculator will provide you with the recommended ventilation at the ridge and the soffit required. Once ventilation is determined for the roof, cut a  $\frac{3}{4}$ " (19.05 mm) slot on each side of the center beam. Leave 6" (15.24 cm) uncut at each end of the ridge. If there is not adequate soffit ventilation for the roof, visit [www.trimline-products.com](http://www.trimline-products.com) for on-the-roof intake options using Trimline Tri-Vent™ Rolled Vent.

## Weather Blocking & Flashing\*

All roof penetrations require two flashings: one on the deck and one on the Distinction Tile. Weather blocking and flashing should be used in all areas where the roof butts a vertical wall, dormer, chimney, skylight or other structural protrusions. Flashing should extend 4" (10.16 cm) up vertical walls. Flashing shall be one of the following: 16- or 20-ounce copper, lead-coated copper, terne-coated stainless steel, 24-gauge G90 prefinished colored steel, 26-24-gauge G90 galvanized sheet steel or aluminum or equivalent. Flashing shall comply with the applicable code; the Varia products listed below meet these requirements:

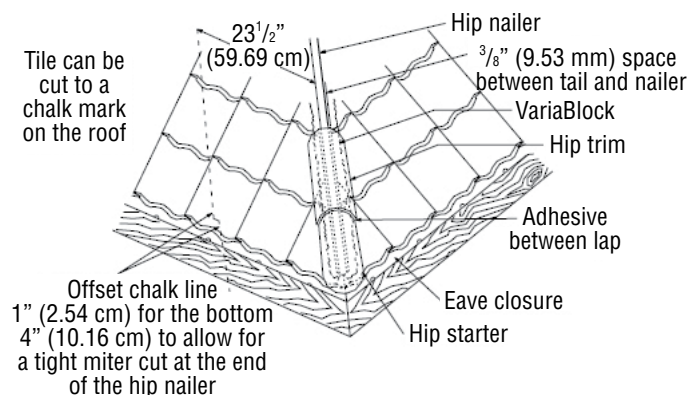
**VariaBlock™** – a flexible closure solution for hips and valleys. VariaBlock is made of a durable, UV-resistant, mylar-backed aluminum and has a high-temperature butyl adhesive, making installation quick and easy. VariaBlock can be used where weather blocking or mortar is required. VariaBlock is available in two different widths 11  $\frac{3}{4}$ " (29.845 cm) or 15" (38.10 cm). VariaBlock offers four different colors: Black, Canyon Earth, Desert Red and Sand. Alternate flashings or mortar can be used as a substitute.



**VariaFlash™** – an expandable flashing with a width of 11  $\frac{1}{2}$ " (29.21 cm), it effectively covers all roof-to-wall applications. The variability of VariaFlash will expand 40% in both directions, forming a weather-tight seal. As a durable and flexible weather-resistant product, VariaFlash can be used where weather blocking or mortar is required: head wall, chimney, skylight, hip, ridge, gable end and pipe stack. VariaFlash is available in four different colors: Black and Desert Red. Alternate flashings or mortar can be used as a substitute.



\*Refer to Appendix B for details on metal flashings.



## Valleys\*

Valley metal should be a minimum 28-gauge steel painted to match. An ice and water shield is recommended as underlayment in all valleys. Lap flashings should be a minimum of 4" (10.16 cm) for slopes 4:12 and above, and 6" (15.24 cm) for slopes below 4:12. Extend the bottom edge of the valley metal past the eave metal about 1" (2.54 cm) and bend slightly down to form a drip edge. Cut pieces of Distinction Tile need to be secured in two locations; fasteners, wires, adhesives and clips are all good options.

*\*Refer to Appendix B for details on open and closed valley flashing.*

## Drip Edge & Rake Edge\*

Metal flashing is required on gable ends and eaves that is a minimum 28-gauge steel painted to match.

*\*Refer to Appendix B for details on metal flashings.*

## Eave & Ridge Closures

Distinction Eave and Ridge Closures are a stamped metal available in matching colors, see appendix A for details on colors. One lower metal closure for each Distinction Tile on the bottom row. Two upper metal closures on each Distinction Tile for the top row. If using VariaVent on the ridge, the upper metal closures are not required.

## Sealants/Adhesives

Use adhesive to secure cut pieces of Distinction Tile along hips, valleys, gables, sidewalls and protrusions, and to install hip and ridge caps. Concealed sealants along ridge/hip trim and flashings shall be urethane, silicone or other higher end multi-polymer products. Colored mortar/grout, VariaBlock, or VariaFlash can be used along open hips and valleys. See sealant manufacturers' installation instructions for details.

## Fasteners

Fasteners must penetrate the roof deck at least  $\frac{3}{4}$ " (19.05 mm).

- **Tile Fasteners** – Use screws for maximum wind resistance: two  $2\frac{1}{2}$ " (6.35 cm), non-corrosive No. 10 coarse thread, .344"- diameter (8.74 mm) pan-head screws. This will allow for  $\frac{1}{4}$ " (6.35 mm) penetration through sheathing. If using nails: two non-corrosive, 2" (5.08 cm), 10/11-gauge, ring-shank (18 rings/inch),  $\frac{3}{8}$ "-diameter (9.53 mm) head nails.
- **Batten Fasteners** – Wood battens or Flow-Thru Battens should be fastened using nails that are 2" (5.08 cm), non-corrosive of sufficient length to fully penetrate the roof sheathing.
- **Underlayment Fasteners** – Fasteners for underlayment shall be 11-gauge roofing nails with  $\frac{3}{8}$ " (9.53 mm) heads with sufficient length to penetrate into the sheathing  $\frac{3}{4}$ " (19.05 mm) or through the sheathing, whichever is less.
- **Flashing Fasteners** – Flashing shall be fastened with 11-gauge, ring-shank, corrosion-resistant nails compatible with the flashing material with sufficient length to penetrate the sheathing  $\frac{3}{4}$ " (19.05 mm) or through the sheathing, whichever is less.
- **Hip and Ridge Trim** – Fasteners for hip and ridge trim shall be No. 10, coarse-thread, 0.344"-diameter (8.74 mm), corrosion-resistant bugle head screws. Use  $2\frac{1}{2}$ " (6.35 cm) long for ridges and  $2\frac{1}{2}$ " (6.35 cm) long for hips. A 3" (7.62 cm) non-corrosive, ring-shank nail in combination with an approved adhesive under the nose of each trim piece can also be used.

# Installation

## 1. Preparing the Deck for Installation

Start by making sure the deck, drip edge, valleys and underlayment have been installed according to *Preparing for Installation* on page 2.

## 2. Batten Installation (optional)\*

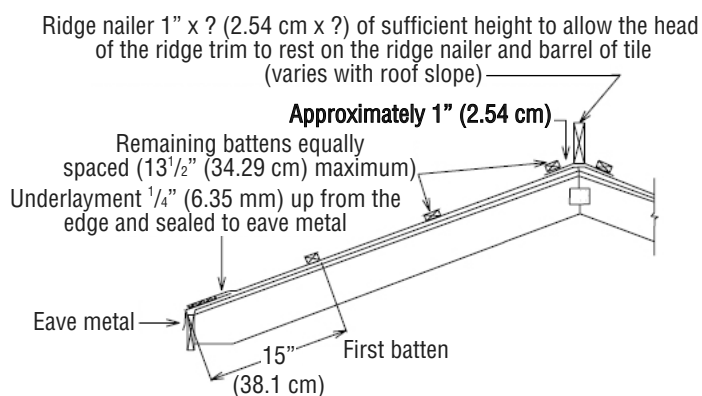
Align the batten\* along the pre-chalked line. Nail the batten 2" (5.08 cm) from each end. Nail the battens every 10" (25.4 cm). The fasteners for Distinction Tile need to penetrate the roof deck through the battens by a minimum of  $\frac{3}{4}$ " (19.05 mm). A utility knife can be used for cutting Flow-Thru Battens.

\*Trimline Flow-Thru Battens can be used as battens and are not structural support for Distinction Tile.

## 3. Roof Layout

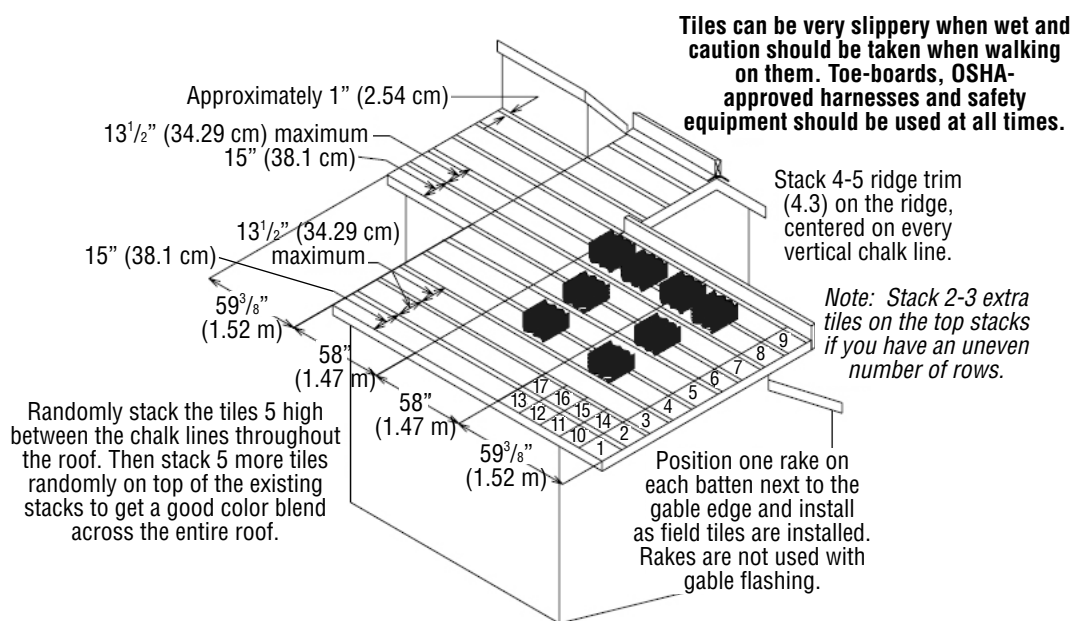
For batten installation, strike the lines centered on each hip if applicable. Then strike the horizontal line at 15" (38.1 cm) (16" (40.64 cm) for direct to deck) for the top edge of the eave batten above the eave edge to ensure proper fit of the bottom row of Distinction Tiles. Next, strike the horizontal line for the top edge of the top batten 1" (2.54 cm) ( $\frac{1}{4}$ " (6.35 mm) for direct to deck) down from the ridge center line. Then divide the distance between these two lines into equal increments, not to exceed  $13\frac{1}{2}$ " (34.29 cm) and strike lines for the top edges of the battens.

If different eave heights on the same roof plane do not allow for equal spacing, lay out the largest area as described above. On the smaller area, snap the eave line at the proper eave spacing and align the remaining lines with those already established on the larger roof plane. The results may reduce the spacing between the first and second lines of the smaller roof area, reducing the exposure of the bottom row of Distinction Tiles. If different ridge heights do not allow for equal spacing, add a short row along the shortest ridge. If a short row is required, cut the head off the Distinction Tile piece and install a batten along the ridge so the short row maintains the same slope as the rest of the Distinction Tiles.



## 4. Distinction Tile Roof Loading

Before loading the roof, check to ensure that all battens, underlayment and flashings are clear of all debris. Also make sure that any holes or damage is repaired. For gable roofs strike vertical lines 58" (1.47 m) O.C. after establishing the starting line approximately  $59\frac{3}{8}$ " (1.52 m) from the inside edge of the gable fascia. On hip roofs strike the vertical line at the midpoint of the eave to the apex of the hips. Strike vertical lines 58" (1.47 m) O.C. on either side of that center line. Add extra stacks along the hip and valley to allow for one (1) Distinction Tile per

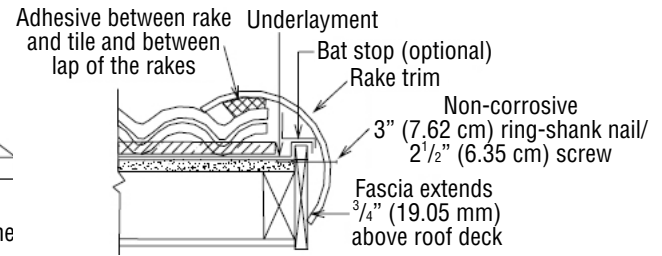
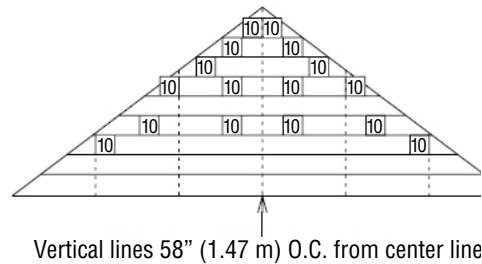




row to be cut on each side.

Adjust the starting line to allow for proper rake fit at the gable. Randomly stack Distinction Tile five (5) high between the chalk lines throughout the roof. Then stack five (5) more Distinction Tiles randomly

on top of the existing stacks to get a good color blend across the entire roof. Stack four to five (4-5) ridge trim on the ridge, centered on every vertical chalk line. Stack two to three (2-3) extra Distinction Tiles on the top stacks if you have an uneven number of rows. The bottom two battens should be kept free of Distinction Tile stacks. If blending multiple Distinction colors, order an equal amount of each color and blend the colors randomly on the job site for a blended final appearance.



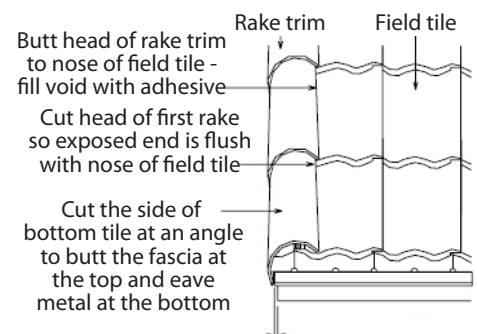
## 5. Field Tile Installation\*

Distinction Tile should be installed from right to left as viewed facing the ridge. The right edge of the Distinction Tile will lock into the left side of the Distinction Tile laid before. When Distinction Tile is laid in a half-joint pattern, every other row lands on the marked vertical line. This sets the course-to-course offset. Install Distinction Tile using both fastener holes on every tile. Install Distinction Tile using the same exposure determined in the roof layout. Distinction Tile will be more aesthetically pleasing if the break between the Distinction Tile is offset between courses. Distinction Tile must be cut to fit at hips and valleys. **Installers MUST blend Distinction Tile pieces from various pallets in order to achieve a distinct surface look. Distinction Tile is designed to provide a random and varying aesthetic appearance.**

*\*Distinction Tile is slippery, especially when wet. Use caution when installing the field pieces. Toe-boards, OSHA-approved harnesses and safety equipment should be used at all times.*

## 6. Eave & Ridge Closure Installation

Eave closures are used to close the opening under the barrels and provide the proper edge for Distinction Tile at the eaves, flat roof eaves and flat saddles. Place the closure in the closure slot along the bottom underside of each eave Distinction Tile with the colored side facing the eave. Press the closure down firmly to the bottom of the slot to lock it in place. Closures are designed for  $\frac{3}{8}$ " (9.53 mm) side overlap and should rest  $\frac{1}{4}$ " (6.35 mm) up from the bottom edge of the eave metal. Fasten the ridge closure with the Distinction Tile fastener. Position the top row of the Distinction Tile and bend the closure so the ridge trim and flashing extend past the face of the ridge closure.

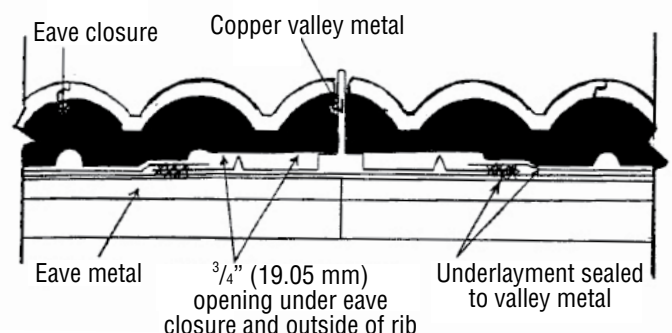


Eave closure and metal extends past end of fascia board and is cut at an angle to support bottom rake at same angle as the rest. VariaBlock or Sealant is used to fill any openings.

## 7. Trimline VariaVent Ridge Vent Installation\*

- Center VariaVent Ridge Vent on top of the roof nailing board. Nail VariaVent Ridge Vent at the end of each 4' (1.22 m) section to hold the vent centered on the ridge nailing board. VariaVent Ridge Vent can meet a variety of pitches ranging from 3:12 to 12:12. Use a minimum of a  $1\frac{3}{4}$ " (4.45 cm) nail; the nail should penetrate the nailing board by  $\frac{1}{2}$ " (12.7 mm).

- Form VariaVent Ridge Vent's weather-blocking material to



the Distinction Tile roof surface. Take care that the weather-blocking aluminum area does not press to the surface of the nailing board, preventing proper airflow; a  $\frac{3}{4}$ " (19.05 mm) space should be between the weather-blocking material and the center nailing board.

- Remove the protective strip from the back of the adhesive tape on the back side of the weather blocking.

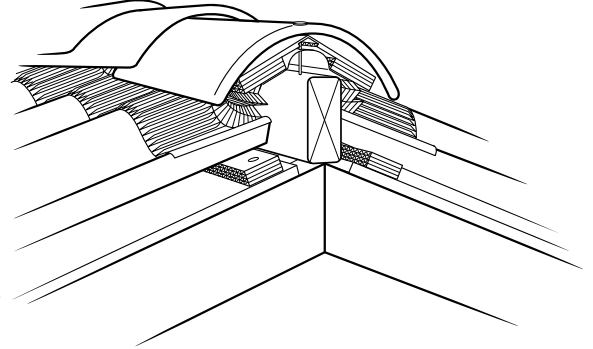
- Press VariaVent Ridge Vent weather blocking into the pans of each Distinction Tile. VariaVent Ridge Vent can elongate to form the barrel-to-pan closure. Make sure that the edge area of VariaVent Ridge Vent's weather blocking is thoroughly pressed to the Distinction Tile to ensure a weather-tight seal.

- When joining two pieces of VariaVent Ridge Vent together at the ridge, insert the excess StormStop® membrane under the new 4' (1.22 m) section. The aluminum should fit together along the folds. Butt the 4' (1.22 m) vent sections together until they meet and nail in place to the center board.

- Cut off the excess amount of VariaVent Ridge Vent at the end of the hip or ridge with a knife or sheet metal shears.

- Miter cut the rakes and ridge starter to fit where the hip meets the ridge. Add sealant at the joints. Install the ridge trim with  $1\frac{1}{2}$ " (34.29 cm) exposure.

*\*If you have a need for venting a shed or porch roof, visit [www.trimline-products.com](http://www.trimline-products.com) for details.*



## 8. VariaBlock & Rake/Hip Trim Installation \*

Make sure that the underlayment laps over the rake fascia or that the edge is nailed down and covered with a sealant. The hip nailer should be of sufficient height for the head of all hip trim to rest on the nailer with a minimum space above the field Distinction Tile and allow for a smooth appearance. The nailer should extend to within 4" (10.16 cm) of the outside corner of the eave metal. Mortar can be used to fill in any voids between the tile. Or for a quick and easy solution, use Trimline VariaBlock.

- Center VariaBlock on top of the roof nailing board. Nail into the center board every 12" (30.48 cm) up the hip.

- Form VariaBlock to the Distinction Tile roof surface. Install from the bottom of the hip to the ridge, overlapping 3" (7.62 cm) on the Distinction Tile.

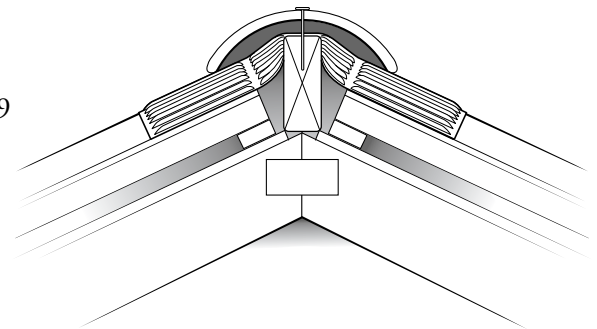
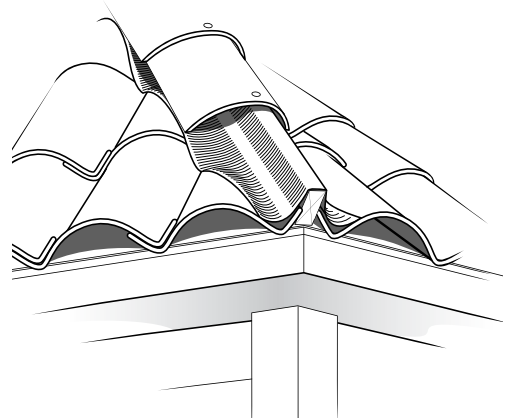
- Remove the protective strip from the adhesive tape.

- Press VariaBlock on the field Distinction Tile. VariaBlock can elongate 40%. Make sure the adhesive is pressed firmly to the Distinction Tile.

- When putting two (2) rolls of VariaBlock together, overlap the new roll 3" (7.62 cm) over the roll that has already been applied. Cut off excess VariaBlock at the end of the hip with a knife or sheet metal shears. The excess material can be used for the next project.

- Use adhesive on the underside and top edge of the rake trim and fasten it with two (2) non-corrosive 3" (7.62 cm) ring-shank nails or 2 $\frac{1}{2}$ " (6.35 cm) screws on top of VariaBlock. Hip trim should be installed with  $1\frac{1}{2}$ " (34.29 cm) exposure.

*\*Products used on the hip of the roof need to meet the Tile Roofing Institute guidelines for weather blocking.*



## Algae/Moss

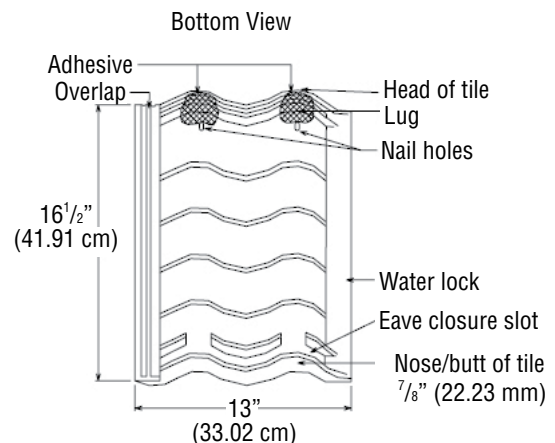
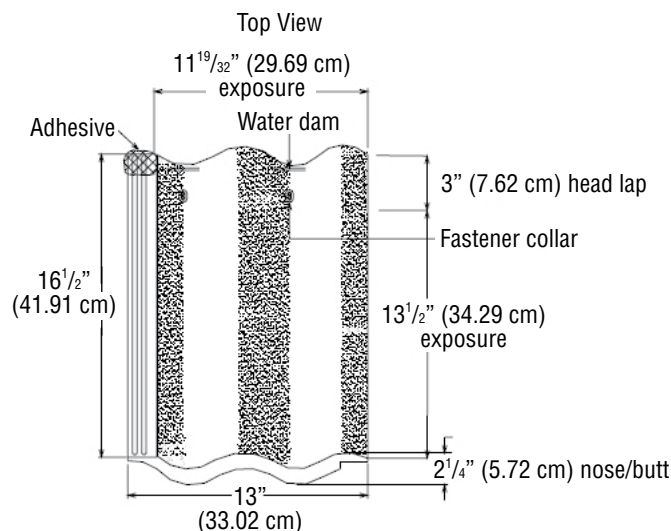
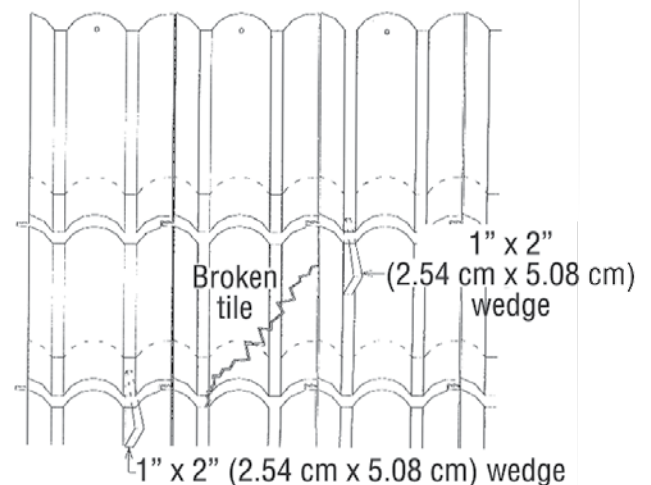
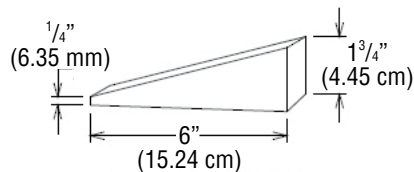
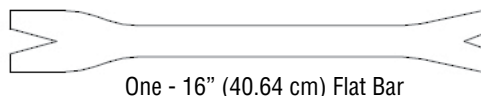
In some regions, the development of algae and moss can occur on any building material; the growth of moss or algae form on the dirt and moisture on the surface of the Distinction Tile. Distinction Tile can easily be cleaned.

## Leaves and Other Debris

Keep Distinction Tile free of all debris to help prevent any roof problems from arising.

## Replace a Broken Distinction Tile Piece

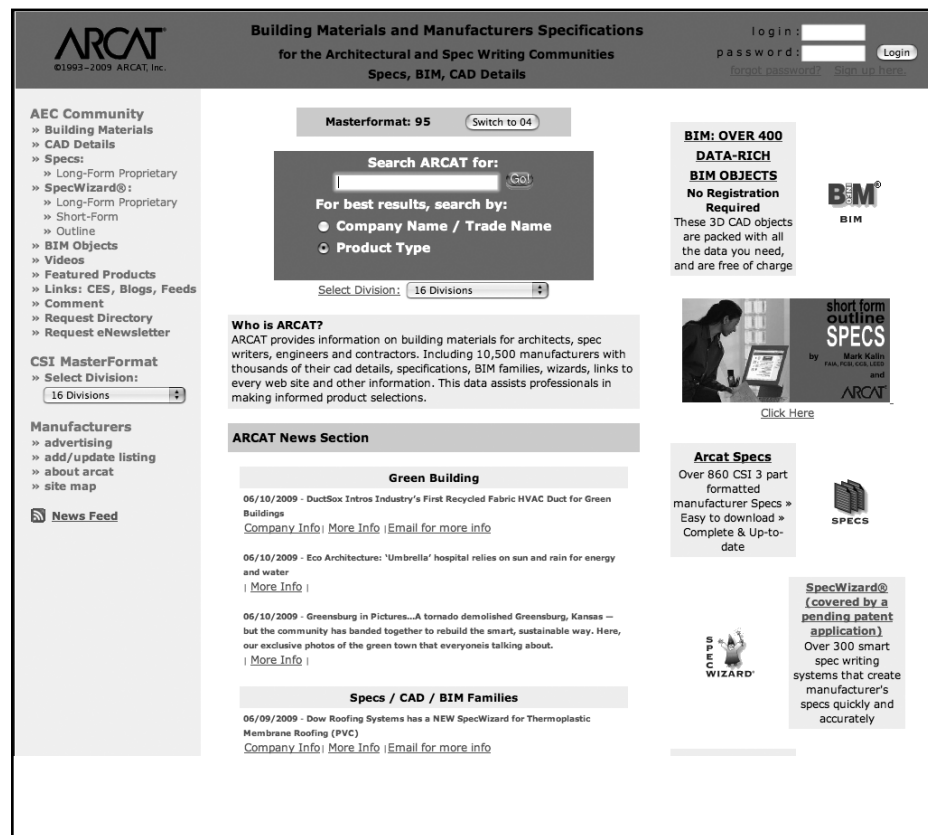
Locate the broken Distinction Tile piece, raise the butt end of the Distinction Tile to the left of the broken one and insert a wedge to hold it up and out of the way. Next, raise the butt end of the Distinction Tile above and to the right, and insert the other wedge. If the broken Distinction Tile was nailed, slide the flat bar between the Distinction Tile and the deck/batten twisting it to loosen the nails. If the broken Distinction Tile was screwed, break the water dam off at the top of the Distinction Tile and cut through the fastener collar and screw with a hack saw. Lift the broken Distinction Tile up and to the right to remove. Apply a generous amount of construction adhesive to the underside of the new Distinction Tile piece at the base of the lugs and on the top inch of the water lock. Slide the new Distinction Tile up and to the left to interlock it with the one on each side. Remove the two (2) wedges.





# Architectural Specifications

Architectural specifications for Distinction Tile are available at [www.trimline-products.com](http://www.trimline-products.com) and [www.arcat.com](http://www.arcat.com).



# Appendix A



Part #	Color	Description	Weight/ Tile	Weight/ Square	Roofing Square
2001-CG	Black	Field Tile	3.3 lbs	303.6 lbs	92 pieces
2001-TC	Canyon Earth	Field Tile	3.3 lbs	303.6 lbs	92 pieces
2001-FC	Desert Red	Field Tile	3.3 lbs	303.6 lbs	92 pieces
2001-GR	Goldenrod	Field Tile	3.3 lbs	303.6 lbs	92 pieces
2001-SB	Saddle Brown	Field Tile	3.3 lbs	303.6 lbs	92 pieces
2001-MG	Sage	Field Tile	3.3 lbs	303.6 lbs	92 pieces
2010-CG	Black	Hip/Ridge/Rake	2 lbs		
2010-TC	Canyon Earth	Hip/Ridge/Rake	2 lbs		
2010-FC	Desert Red	Hip/Ridge/Rake	2 lbs		
2010-GR	Goldenrod	Hip/Ridge/Rake	2 lbs		
2010-SB	Saddle Brown	Hip/Ridge/Rake	2 lbs		
2010-MG	Sage	Hip/Ridge/Rake	2 lbs		
2011-CG	Black	Hip Starter	1.9 lbs		
2011-TC	Canyon Earth	Hip Starter	1.9 lbs		
2011-FC	Desert Red	Hip Starter	1.9 lbs		
2011-GR	Goldenrod	Hip Starter	1.9 lbs		
2011-SB	Saddle Brown	Hip Starter	1.9 lbs		
2011-MG	Sage	Hip Starter	1.9 lbs		
2014-TC/SB	Used for Canyon Earth & Saddle Brown	Lower Metal Closure			
2014-FC	Used for Desert Red	Lower Metal Closure			
2014-GR	Used for Goldenrod	Lower Metal Closure			
2014-CG/S	Used for Sage & Black	Lower Metal Closure			
2015-TC/SB	Used for Canyon Earth & Saddle Brown	Upper Metal Closure			
2015-FC	Used for Desert Red	Upper Metal Closure			
2015-GR	Used for Goldenrod	Upper Metal Closure			
2015-CG/S	Used for Sage & Black	Upper Metal Closure			
18018C	Black - 7" x 5/8" x 48"	Trimline® VariaVent™ Ridge Vent			
18018T	Canyon Earth - 7" x 5/8" x 48"	Trimline® VariaVent™ Ridge Vent			
18018F	Desert Red - 7" x 5/8" x 48"	Trimline® VariaVent™ Ridge Vent			
18018S	Sand - 7" x 5/8" x 48"	Trimline® VariaVent™ Ridge Vent			
60917	Black - 3/4" x 1 1/2" x 96" (8' fold-out)	Trimline® Flow-Thru Batten™			
18309	Black - 11 3/4" x 25'	VariaBlock™			
18310	Desert Red - 11 3/4" x 25'	VariaBlock™			
18311	Sand - 11 3/4" x 25'	VariaBlock™			
18312	Canyon Earth - 11 3/4" x 25'	VariaBlock™			
18313	Black - 15" x 25'	VariaBlock™			
18314	Desert Red - 15" x 25'	VariaBlock™			

Hip/  
Ridge/  
Rake

Hip  
Starter

Front

Back

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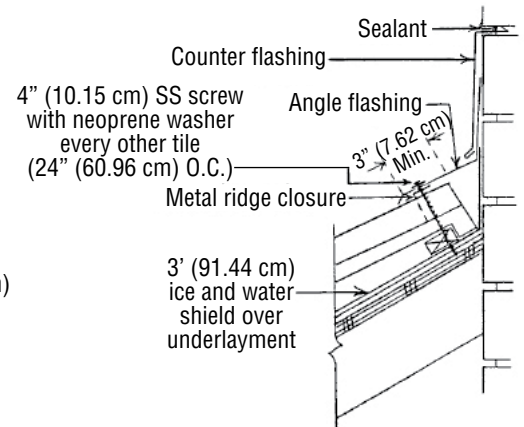
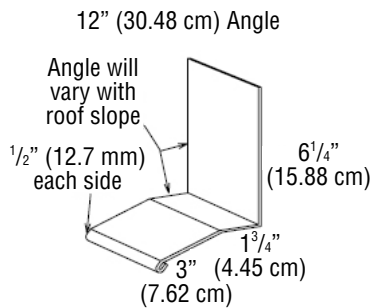
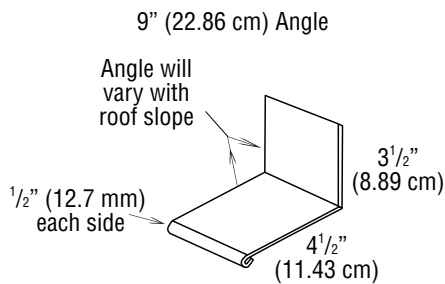
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9/09

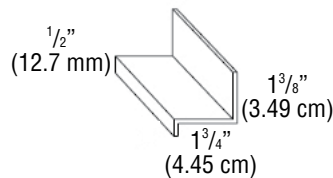
# Appendix B

Trimline does not manufacture the flashings listed in Appendix B, these are to be used as a reference when field fabricating.

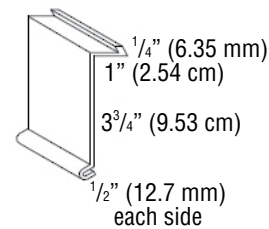
## Angle Flashing



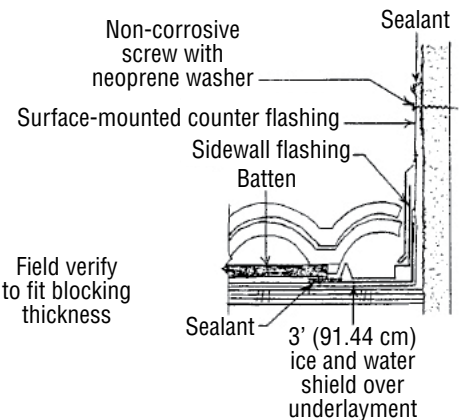
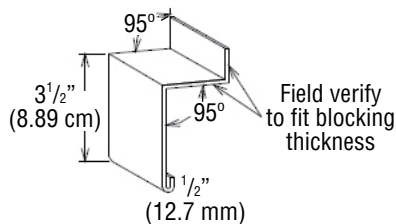
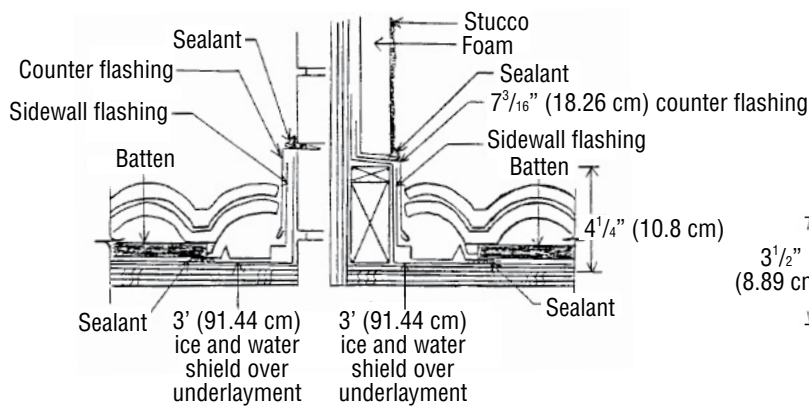
## Bat Stop Flashing



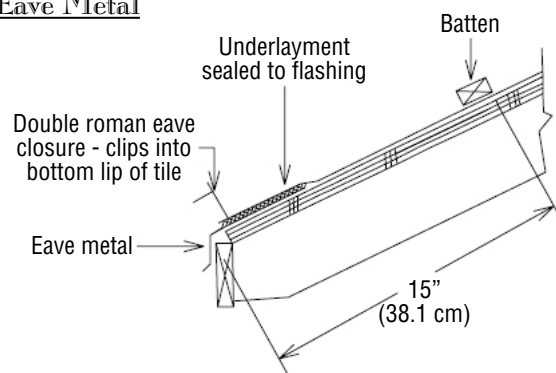
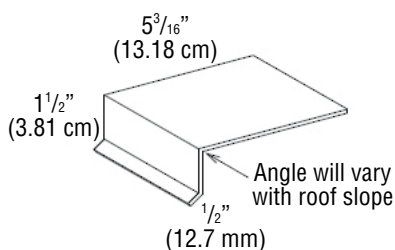
## Counter Flashing



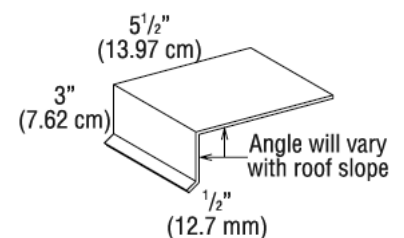
## Stucco Counter Flashing



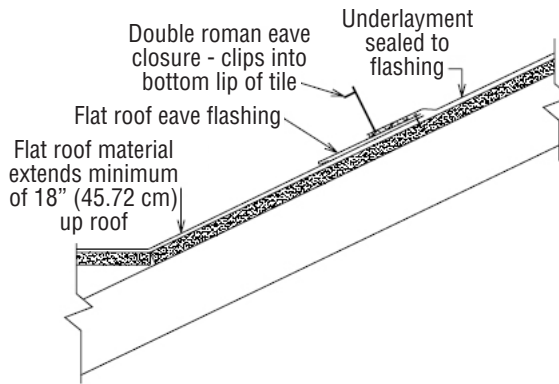
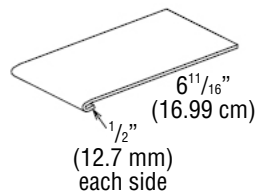
## Eave Metal



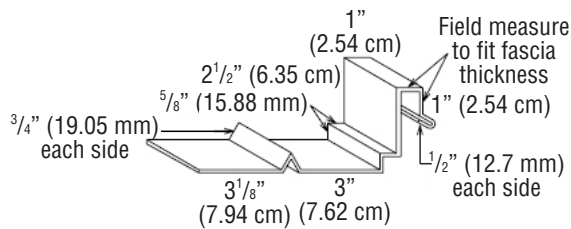
## Gutter Eave Metal



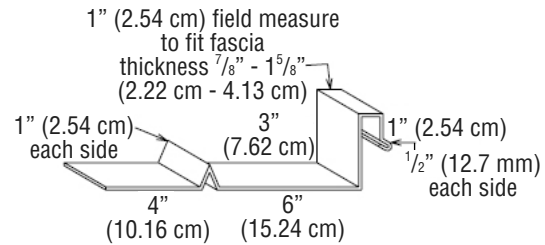
## Flat Roof Eave Metal



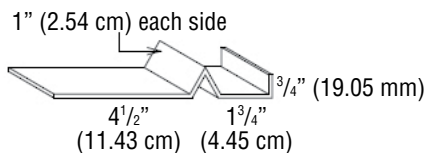
## Gable Flashing



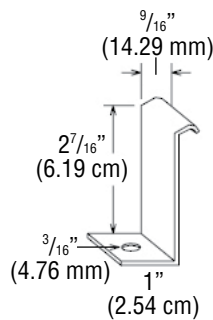
## Flying Gable/Valley Flashing



## Half Saddle Open Valley Flashing

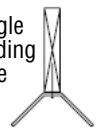


## Hurricane Clip

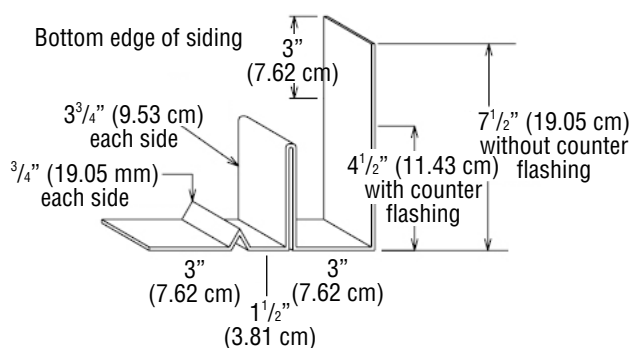


## Hip Ridge Nailer

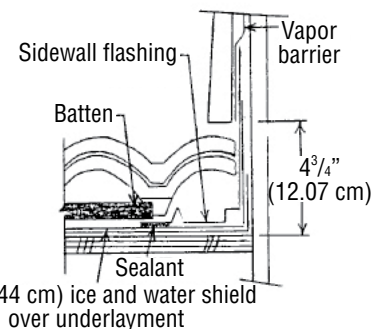
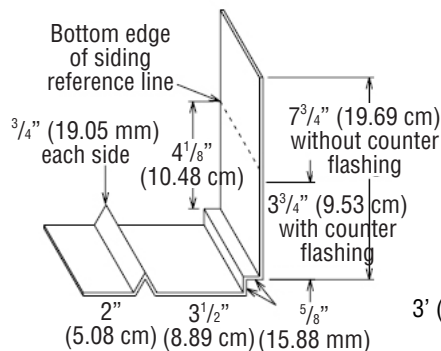
Height and angle will vary depending on roof slope



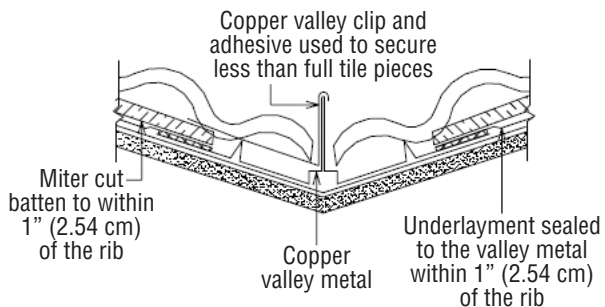
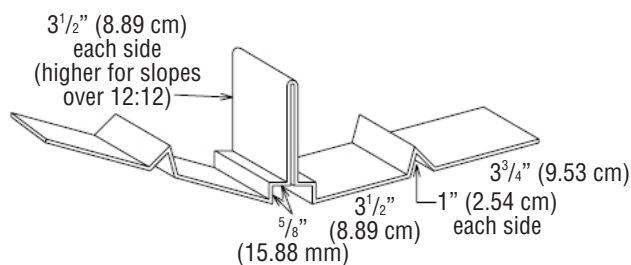
## Side Saddle Channel Flashing



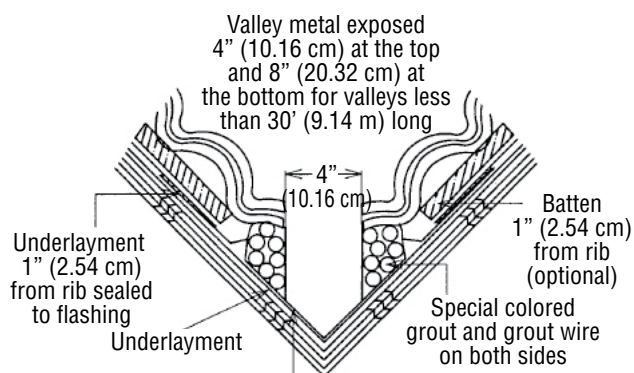
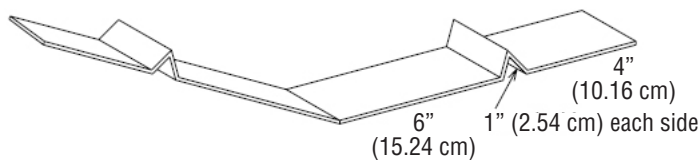
## Side Wall Flashing



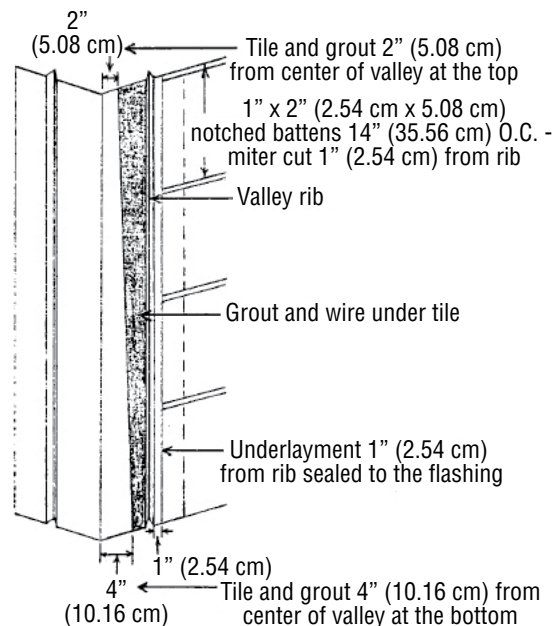
## Closed Valley Flashing



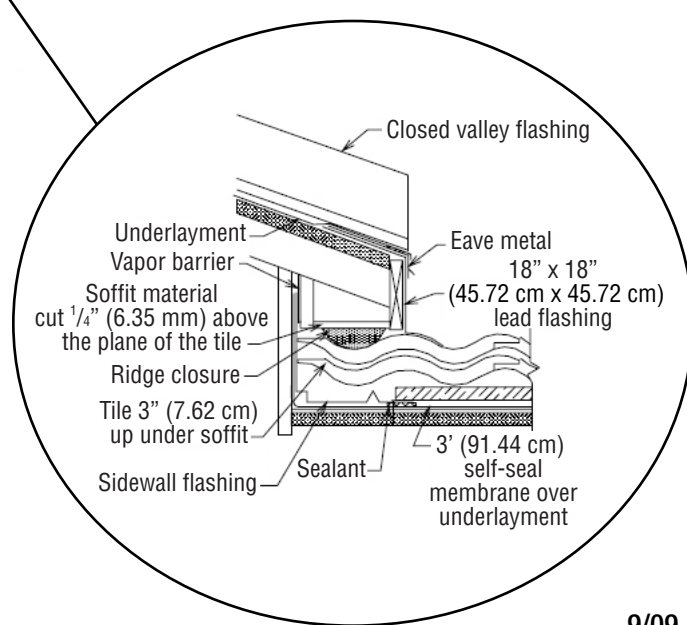
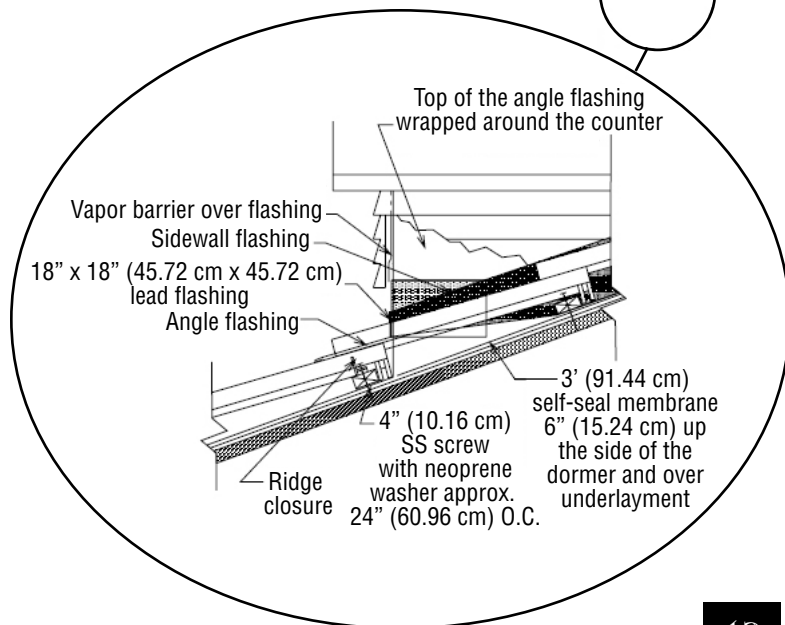
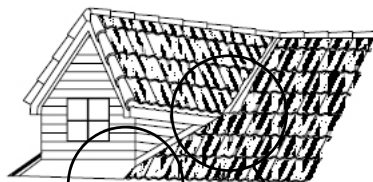
## Open Valley Flashing



24" (60.96 cm) open valley flashing (wider flashing required for valleys over 30' (9.14 m) long to maintain a 1/8" (3.18 mm) per foot increase in the metal exposure from top to bottom)

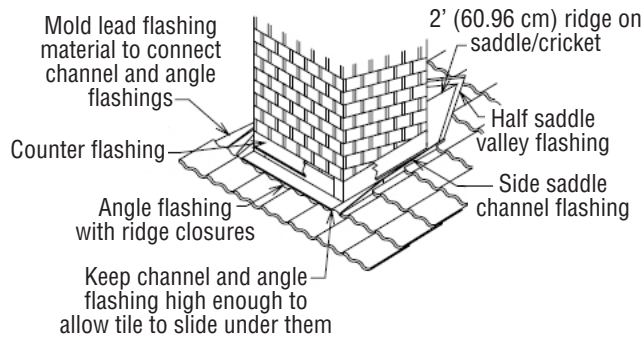


## Dormer Flashing

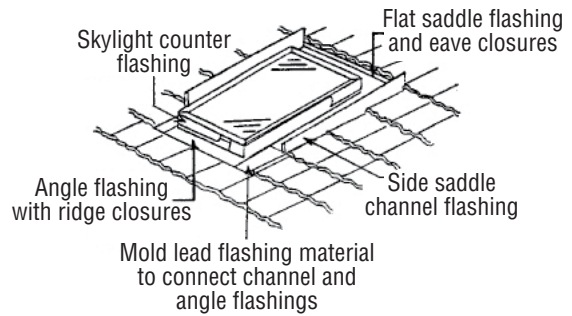




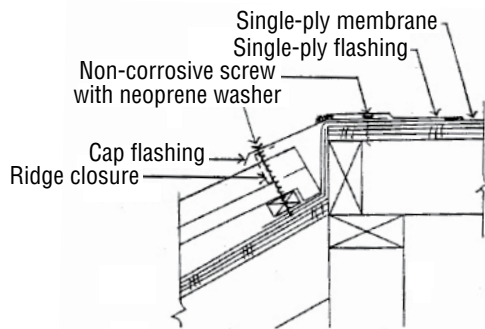
## Chimney Flashings



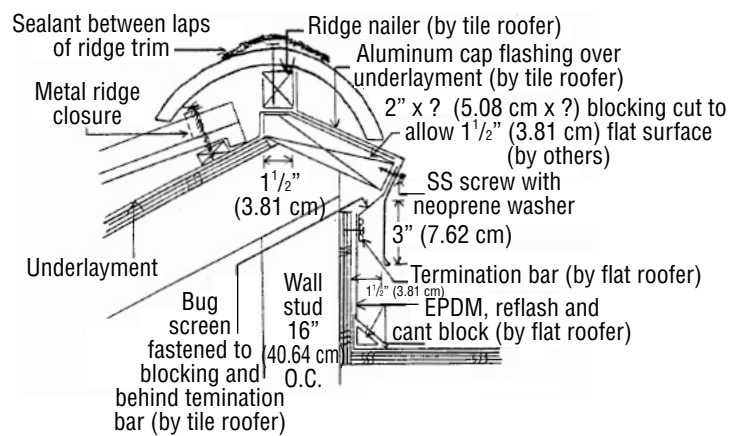
## Skylight Flashings



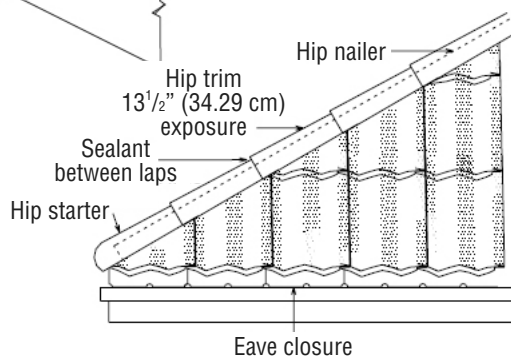
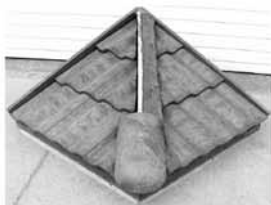
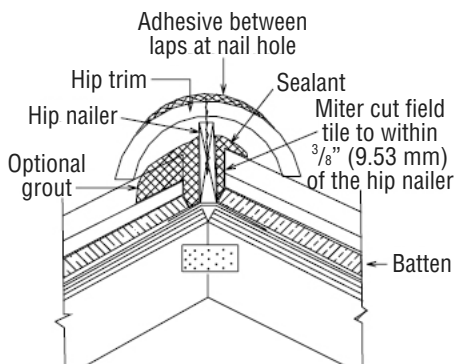
## Cap Flashing at Flat Roof



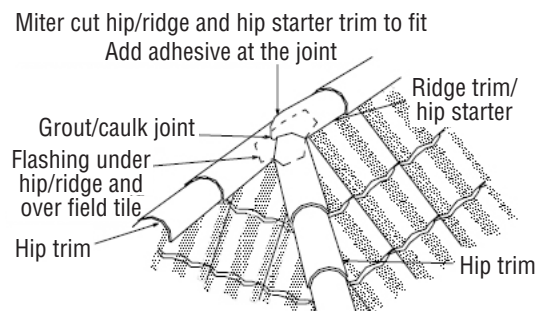
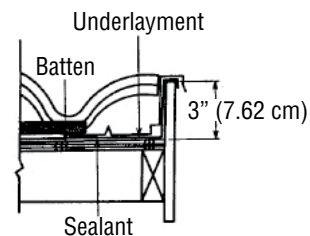
## Ridge Trim and Vent at Top of Mansard



## VariaBlock & Rake/Hip Trim



## Gable Flashing Without Rake Trim on Sraight Gables



# Appendix C

## Limited Warranty and Certificate of Warranty

TRIMLINE BUILDING PRODUCTS ("TRIMLINE"), A DIVISION OF DIVERSI-PLAST PRODUCTS, INC., WARRANTS TO THE OWNER OF THE BUILDING AT THE TIME Distinction™ Tile and Slate ("Trimline Products") WERE ORIGINALLY INSTALLED ("Owner"), ONLY THAT the Trimline Products will not rot, split, splinter or suffer structural damage from normal weather conditions and termite or fungal decay sufficient to cause leakage for a period of fifty (50) years from the date of original purchase or will not blow off or otherwise become damaged by winds less than eighty (80) miles per hour for a period of ten (10) years from the date of original purchase.

TRIMLINE'S LIABILITY UNDER THIS WARRANTY IS LIMITED SOLELY TO REPLACEMENT OF DEFECTIVE TRIMLINE PRODUCTS. OR, AT TRIMLINE'S OPTION, REFUND OF ORIGINAL PURCHASE PRICE OR REASONABLE REPLACEMENT COST (as defined hereinafter). Owner's sole and exclusive remedy for any claim whatsoever, whether in contract, warranty, tort, strict liability, or otherwise arising out of the use, storage or possession of Trimline Products, including without limitation any claim that Trimline Products failed to perform as warranted, shall be replacement with substitute Trimline Products or refund of the original purchase price. To obtain replacement or refund, the Owner must have returned a copy of this certificate within thirty (30) days of installation and must submit a claim within thirty (30) days of the discovered defect together with this warranty certificate, the original purchase invoice indicating the date of purchase, pictures, a sample of the defective Trimline Products, and a detailed description of the defect to Trimline for settlement at Trimline Building Products, 7425 Laurel Ave., Minneapolis, MN 55426.

THIS WARRANTY SHALL NOT APPLY TO TRIMLINE PRODUCTS THAT HAVE NOT BEEN INSTALLED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND ALL APPLICABLE BUILDING OR SAFETY CODES OR HAVE NOT BEEN PAID IN FULL. This warranty shall not cover damages due to (i) natural disasters, hail over 1.0" in diameter, fire, smoke, chemicals, earthquakes, lightning or static electricity, (ii) causes external to the Trimline Products such as, but not limited to, falling, thrown or blown objects, (iii) the neglect, abuse, misuse (including faulty installation, repair or maintenance), improper transportation, handling or storage of the Trimline Products or other failure to comply with the instructions set forth in the documentation and/or manual accompanying the Trimline Products, (iv) a modification of the Trimline Products not provided by Trimline, (v) a malfunction of any product not provided by Trimline with which the Trimline Products are used or combined, (vi) use, modification or other treatment of the Trimline Products in a manner for which it was not designed or intended, (vii) defects due to inferior building practices, ventilation, snow and ice control, (viii) replacement under or subjection to abnormal use conditions, (ix) normal wear and tear including the natural effects of progressive aging on the color and surface of the tile, (x) foot traffic, (xi) vandalism or other malicious actions, or (xii) Trimline Products blown off by winds in excess of 80 mph. This warranty does not cover product defects on installed roofs where such defects were apparent at or prior to installation.

After fifteen (15) years from the original purchase date, however, if Trimline chooses to pay Reasonable Replacement Cost of the affected products, the amount Trimline may pay will be reduced by the amount of usage the Owner has received of affected products. Thus, Trimline will pay a percentage of the Original Purchase Price of the affected products. The percentage will be determined by dividing the number of months remaining in the warranty by 600 (the number of months in the original warranty period). This percentage will be multiplied times the ORIGINAL PURCHASE PRICE for the affected product. NOTE: Reasonable Replacement Costs covered by this Limited Warranty do not include costs to tear-off, dump fees, flashing, metal work, underlayment related work or related materials, or any labor associated with any replacement.

TRIMLINE'S WARRANTY SHALL APPLY ONLY TO THE TRIMLINE PRODUCTS. IN NO EVENT SHALL TRIMLINE BE LIABLE FOR TRANSPORTATION, LABOR OR OTHER EXPENSES INCURRED BY THE OWNER, OR SPECIAL, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES OF ANY KIND WHATSOEVER, WHETHER BASED UPON WARRANTY, CONTRACT, TORT, STRICT LIABILITY OR OTHERWISE. TRIMLINE'S LIABILITY ARISING OUT OF THE MANUFACTURE, SALE OR SUPPLY OF THE TRIMLINE PRODUCTS OR THEIR USE SHALL NOT EXCEED THE ACTUAL PURCHASE PRICE.

THIS WARRANTY MAY BE TRANSFERRED TO NEW OWNER OF THE STRUCTURE AT ANY TIME DURING THE LIFE OF THE WARRANTY. To do so, the original Owner must send a certified letter requesting the transfer, along with a photocopy of the original warranty or purchase contract, and provide the name, address and purchase date of the new Owner to Trimline Building Products, 7425 Laurel Ave., Minneapolis, MN 55426, who will return a warranty to the new Owner.

OWNER IS SOLELY RESPONSIBLE FOR DETERMINING THE SUITABILITY OF USE OR APPLICATION OF ANY TRIMLINE PRODUCT, OR WHETHER TRIMLINE PRODUCTS MEET REQUIREMENTS OF APPLICABLE BUILDING CODES OR SAFETY CODES FOR SPECIFIC APPLICATIONS.

No person or entity is authorized by Trimline to make, and Trimline shall not be bound by, any statement or representation as to the performance of Trimline Products other than what is contained in this warranty. This warranty shall not be amended or altered except in a written instrument signed by Trimline and Owner.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES WITH RESPECT TO TRIMLINE PRODUCTS, WHETHER ORAL OR WRITTEN, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT.

Laws from time to time in force in certain jurisdictions may imply warranties that cannot be excluded or can only be excluded to a limited extent. This warranty shall be read and constructed subject to any such statutory provisions. This warranty gives you specific legal rights. You may have other rights, which vary from state to state.