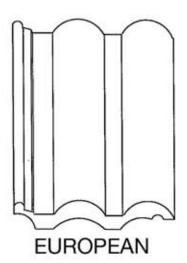
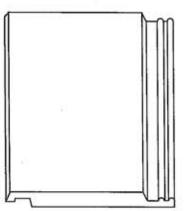
COMPLIES WITH 2006-IBC, 2006-IRC, 1997-UBC CODES AND ICC EVALUATION REPORT ESR-2778 (JULY 2008)

## WORLD'S FINEST ROOFING TILE

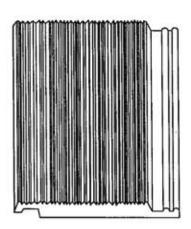
**ENDURES THROUGH GENERATIONS** 

BARTILE STANDARD PROFILE OPTIONS

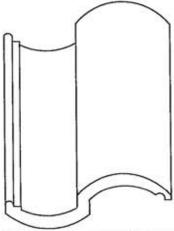








SPLIT-TIMBER



SIERRA MISSION

This Installation Aid is Intended to Inform the Installer of Various Options, and Factory Recommendations. It is NOT INTENDED to Replace Local Codes and Practices, but Rather to Provide General Information. Consult Your Local Building Inspector for Specific Information Relative to a Local Code Question. The Installer Shall be Responsible for the Installation and Adhearence to the Code Requirements.

## IMPORTANT NOTICE TO USER

This installation specification and guide has been produced to aid the specifier, owner/installer, and roofer in the installation of BARTILE products. Every effort has been made herein to adhere to general code requirements. However, it must be explicitly understood by the user that it is his responsibility to understand and comply with the "then current" building codes, local jurisdiction requirements and climatic conditions applicable to this project.

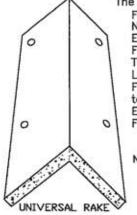
Within these pages are various alternative methods for the installation of BARTILE. The installer must choose which method is practical for each installation as he must be responsible for the performance of the system as a whole. Local practices vary and it should be understood that this booklet should not be interpreted to be the only "proper' way to install a BARTILE roof, but in fact contains various proven installation techniques. BARTILE does not certify nor warrant any particular installation method or process. The BARTILE product warranty is limited to the furnishing of replacement BARTILE shingles for those which in the course of normal use, decompose or wear out during a period of 75 years. Breakage, color variance, and acts of God and normal weathering are excluded. See the text of the printed BARTILE limited 75 year warranty for details.

This Installation Aid is Intended to Inform the Installer of Various Options, and Factory Recommendations. It is NOT INTENDED to Replace Local Codes and Practices, but Rather to Provide General Information. Consult Your Local Building Inspector for Specific Information Relative to a Local Code Question. The Installer Shall be Responsible for the Installation and Adhearence to the Code Requirements.

### Installation Specifications and Guide

#### STANDARD TRIM UNITS

#### UNIVERSAL RAKE



SHAKE HIP AND RIDGE

The (UR) is the Standard Gable Finish for SPLIT-TIMBER. NEW ENGLAND SLATE, and EUROPEAN Profiles. Rakes Fasten on Either Side With Two Nails. The First and Last (UR) Must be Cut to Fit. Butt the Small End to Match Up With the Top Edge of Each Course of Field Tile.

#### NOTES

Use 16d Galv. Nails. Lap Rakes Approx. 3 in. Tab Laps For High Wind (Over 80 MPH)

The (SH) is Normally Used to Cover Both Ridges and

Hips, for SPLIT-TIMBER

Profiles. The Cut Field Tile, Beneath the Hip

Units, May either be Grouted, or be Covered

With Flashing Tape if

Desired. Use two Nails.

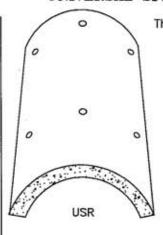
NOTES: Use 16d Galv. Nails.

Lap Trim Approx. 3 in. Tab Laps For High Wind (Over 80 MPH)

and NEW ENGLAND SLATE

SHAKE HIP AND RIDGE

### UNIVERSAL SPANISH RIDGE/RAKE/HIP

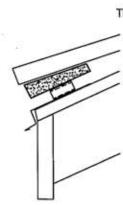


The (USR) is the Standard Gable and Ridge Finish for SIERRA MISSION Profile, and Ridge Finish for European Profile. Nail Through Top Holes When Used as a Ridge, and Through Side Holes When Used as a Rake. The First and Last Rake Must be Cut to Fit.

#### NOTES

Use 16d Galv. Nails. Lap Trim Approx 3 in. Tab Laps For High Wind (Over 80 MPH)

### EAVE TILE RISER

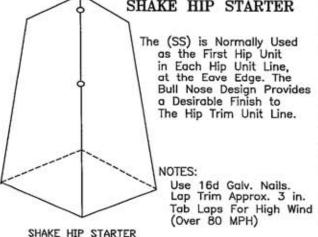


The Eave Tile Riser is the Premium Option to Properly Elevate the 1st (Starter) Course of any of Our Flat Tile Profiles. It Includes 12" of Ventilated Batten to Support the Tile. Each Tile Riser Covers 12" of Eave. Eave Tile Risers are made in Colors and Styles to Match the Field Tile and Trim Tile Ordered.

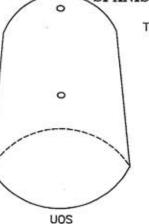
#### NOTES:

Use Two 8d Galv. Nails, Fastened Through Tile Riser and Ventilated Batten to Roof Sheathing.

### SHAKE HIP STARTER



### SPANISH OVAL HIP STARTER

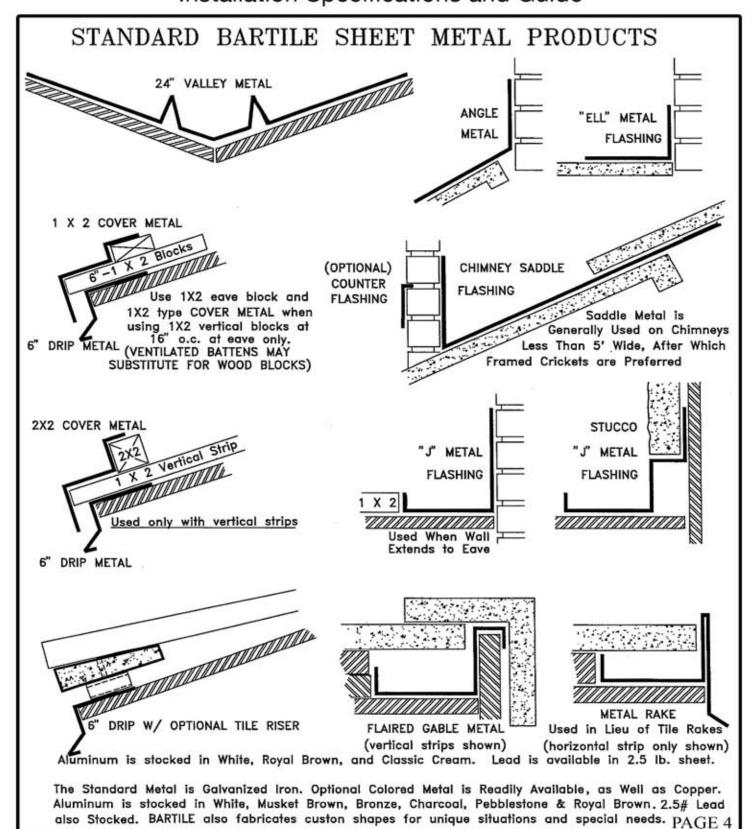


The (UOS) is Designed to be Used as the First Hip Unit in Each Hip Line, at the Eave Edge Starting Point. The Bull Nose Design Provides a Desirable Finish to the Hip Trim Unit Line.

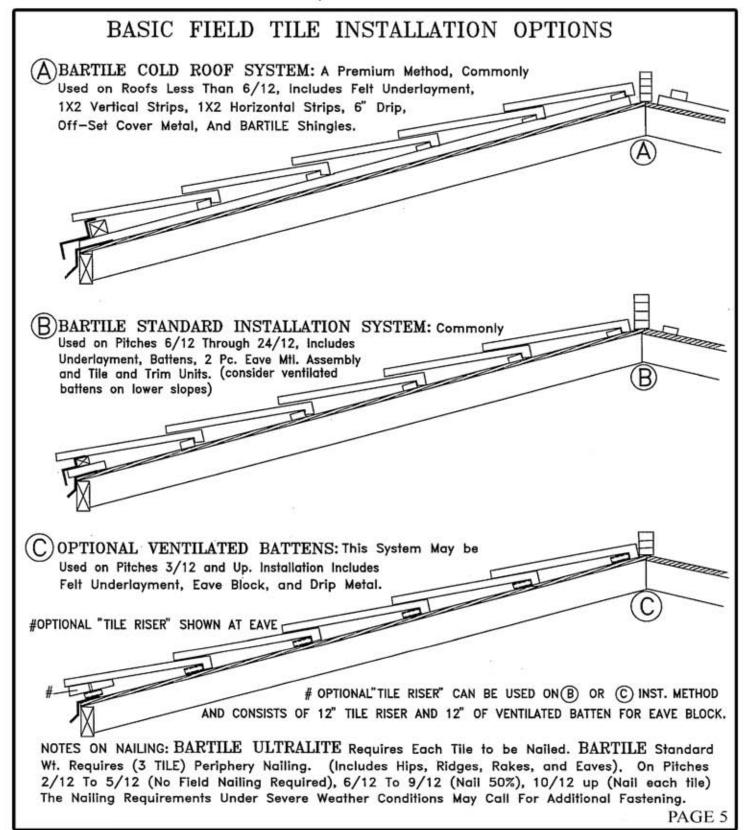
#### NOTES:

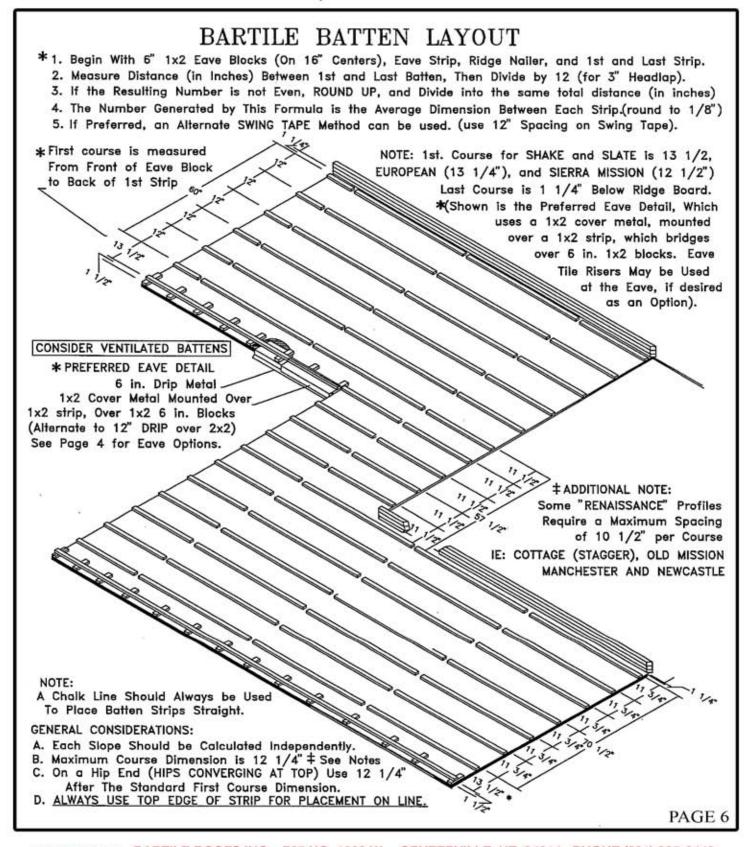
Use 16d Galv. Nails. Lap Trim Approx. 3 in. Tab Laps For High Wind (Over 80 MPH)

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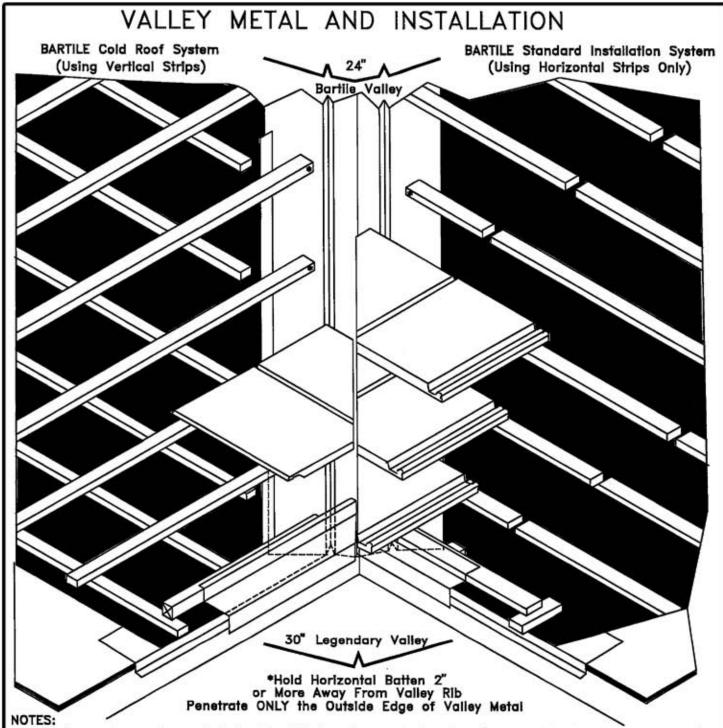


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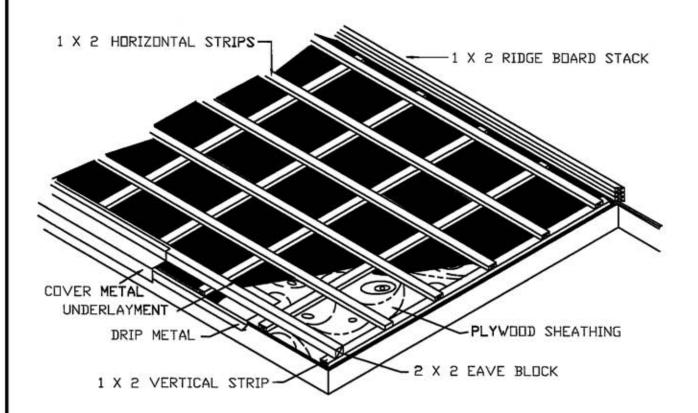


Installation Specifications and Guide



Underlayment may be sealed to drip Metal and woven at valley. (or run bleeder sheet at valley) in ice and snow climates, valley metal should be set in mastic. Lap valley metal sections 6" min. Use code approved underlayment, according to the climatic conditions applicable to the job. Avoid penetrating valley metal while nailing tile. (use mastic instead) Avoid using small pieces. BARTILE recommends a closed valley (as shown), but an open valley is acceptable. (where deamed appropriate). Do not block valley metal channel, nor drainage next to ribs in any way. PAGE 7

### BARTILE Exclusive Cold Roof System

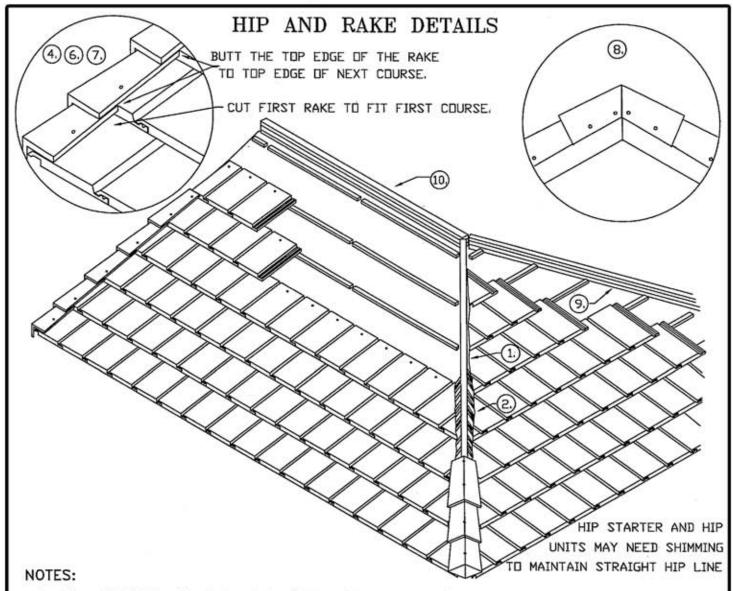


The BARTILE COLD ROOF SYSTEM Incorporates Both Vertical and Horizontal Strips, an Eave Cold Air Intake, and a Ridge (Warm Air) Exhaust. The Underlayment Area Stays Cooler in the Summer, and Reduces Ice Buildup at the Eave Area in the Winter by Disipating Attic Heat Below the Tile, and Exhausting it Through The Ridge Vent. The Tile Surface Therefore Remains Cooler, Which Reduces Snow Melt and Eave Ice Buildup Below the Heated Zone. The Vertical Strip System also Prevents Potential Underlayment Moisture From Collecting Behind the Horizontal Strips. The BARTILE COLD ROOF SYSTEM is Recommended for Slopes Under 6/12 and in Areas of Heavy Snow Buildup, and is Considered the Highest Functional Achievement in Tile Roofing.

\*NOTE\* The use of Ventilated Horizontal Battens will provide similar benefits. Use 1X2 Cover Mtl,6" blocks W/bridging 1X2 @ eave, not 2X2 as shown

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- 1. The Field Tile Must be Cut, (Mitered) to Fit Against the Hip Nailer Board.
- 2. Hip Cuts may be Grouted (Shown), or Covered With Flashing Tape, if Desired.
- 3. Hip Units are Nailed With Two 16d Galv. Nails. (One Nail is Exposed)
- 4. For Flat Tile, Every Other Course Must Start With a Cut Half Tile. (Half Bond)
- 5. Universal Rake Units Cover Either Side, Nail Through Either Side. (Not Top Hole)
- 6. First Rake Must be Cut to Fit the First Course of Tile. (Drill as Required)
- 7. Each Rake Covers One Course of Tile. Butt into Top Edge of Next Course.
- 8. The Last Rake Units at Crown Must be Mitered Together. (Drill as Required)
  9. Hip Nailer Boards are Usually a Stack of 1x2 Strips 4 or 5 High, as Required.
- 10. Ridge Nailer Boards are Usually 3 to 5 Strips High, as Required.
- \*\*\*\*EUROPEAN AND SIERRA MISSION TILE ARE LAID STRAIGHT BOND, NOT OFF-SET.\*\*\*\*

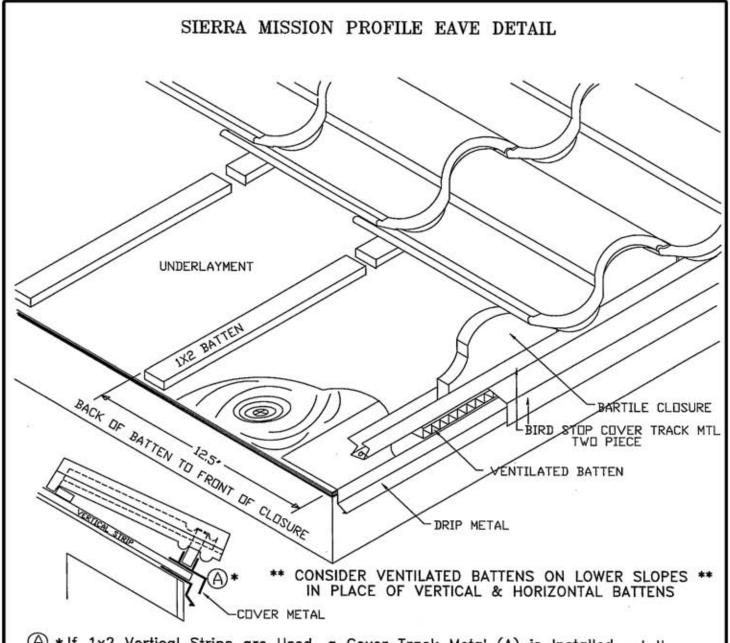
  (Lay 5 Tile Wide, From Eave to Ridge, Verify Straight, Then Repeat)

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Installation Specifications and Guide



(A) \* If 1x2 Vertical Strips are Used, a Cover Track Metal (A) is Installed, at the NOTES: Eave, on Top of the Verticals, With a Space as Shown.

The Eave Closure Will Lock Between The Tile and Closure Track.

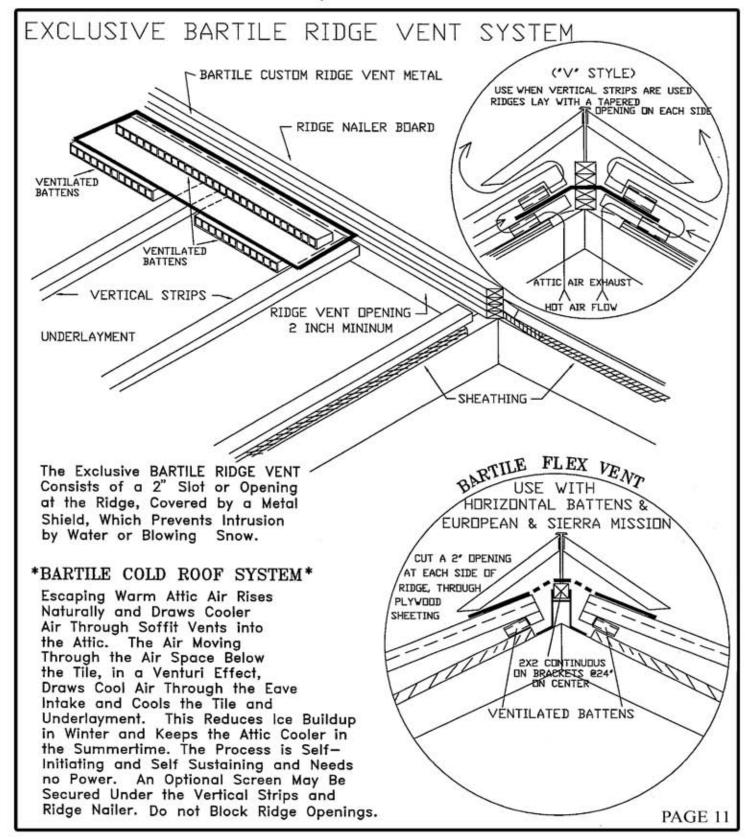
On Steeper Pitches, Cement the Closure into the Track With Adhesive.

DO NOT Block the Valley Drainage with the Closure Assembly, Leave Open.

The Closures are Furnished to Match The Tile Color, The Track is Galvanized or Optional Colored Metal, Copper, etc to Match Eave Metal.

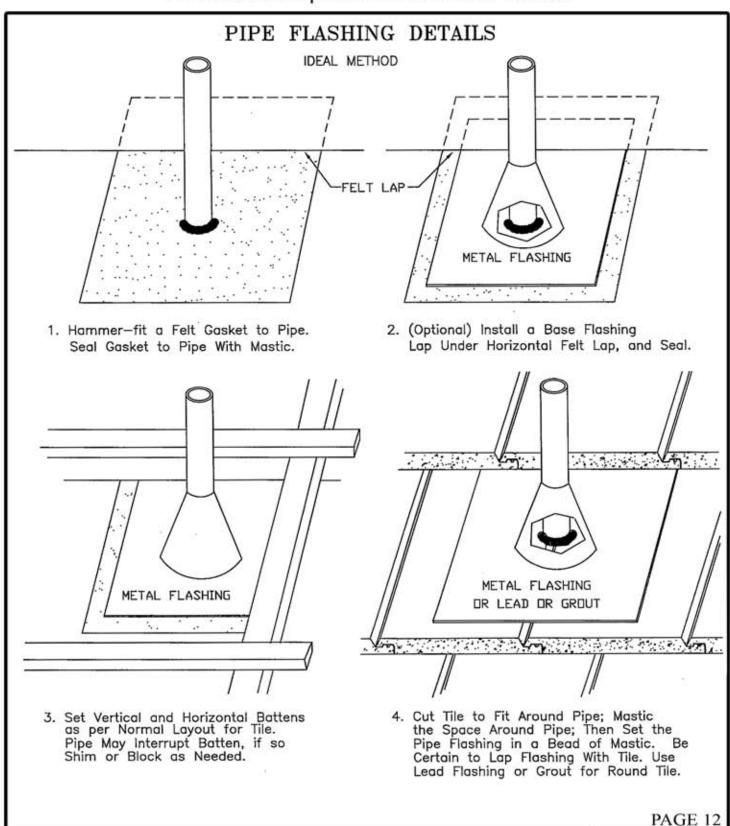
or Optional Colored Metal, Copper, etc to Match Eave Metal.

\* OLD MISSION Profile Requires 11" 1st Course With Balance at 10.5" Maximum.
SIERRA MISSION, OLD MISSION & EUROPEAN are Laid in Straight Vertical Rows
Lay 5 Tile Wide, From Eave to Ridge, Verify Straight, Then Repeat

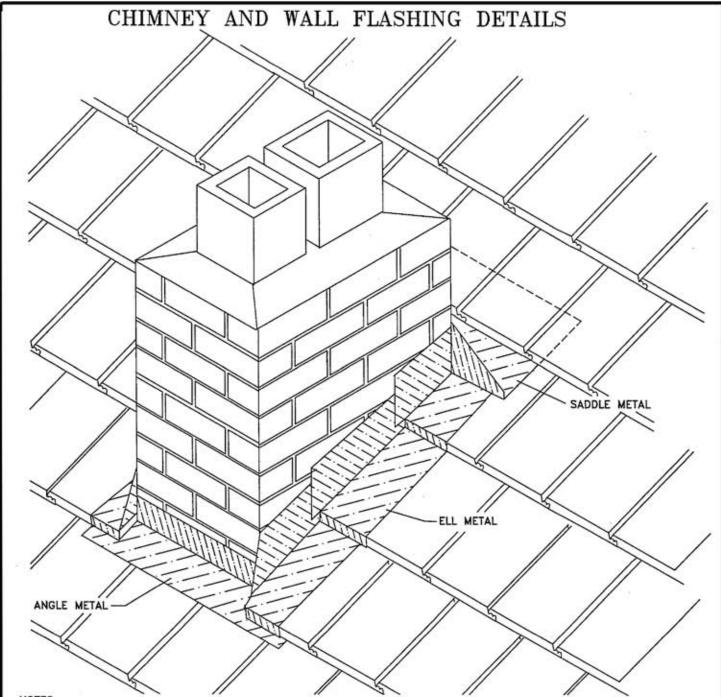


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Installation Specifications and Guide



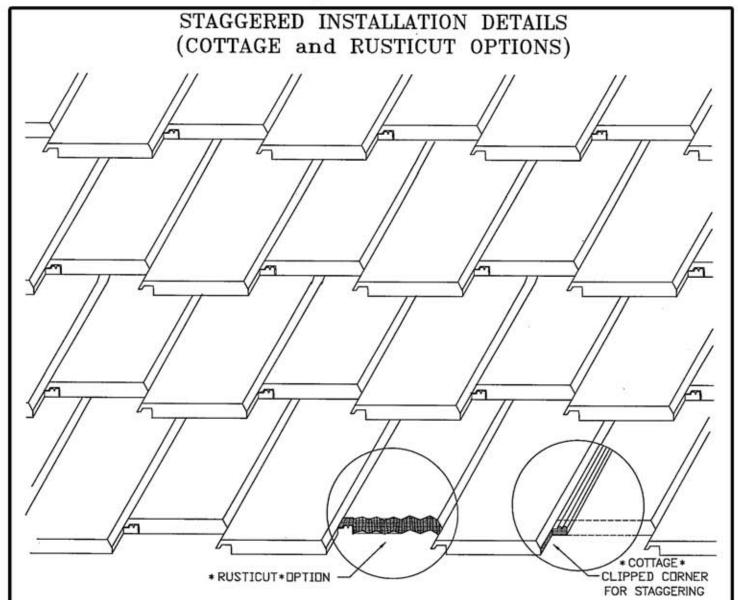
NOTES:

Roll the Underlayment up the wall about 6" on all sides. Seal water tight. Leave a 2"-4"space between Battens and walls, for drainage. Install metal as shown, attaching only to wall, and seal. Counterflashing may be used. When wall terminates at or near eave, "J" METAL may be the preferred side wall flashing. Cut the sidewall tile within 1/2" of wall and seal with mastic. The EUROPEAN and SIERRA MISSION Profiles may require lead or grout flashings at the tile level, with metal underneath the tile. It is recommended that the "L" METAL be cut into 16" lengths, and the bottom 1" be cut and bent to cover the bottom edge of the tile.(as shown) Note how ANGLE METAL extends 3" beyond wall and SADDLE METAL extends 6" beyond wall on each side, then is bent over at flange. PAGE 13 See page 4 for metal details and options.

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Installation Specifications and Guide



BARTILE "OLD WORLD VINTAGE", "SPLIT—TIMBER", & "NEW ENGLAND SLATE" are Available With Modifications of Holes and Corners (COTTAGE) Option, and an Irregular Edge (RUSTICUT) or "RUFF—CUT" Option. These Options Simplify the Installation for a Uniquely Beautiful Roof.

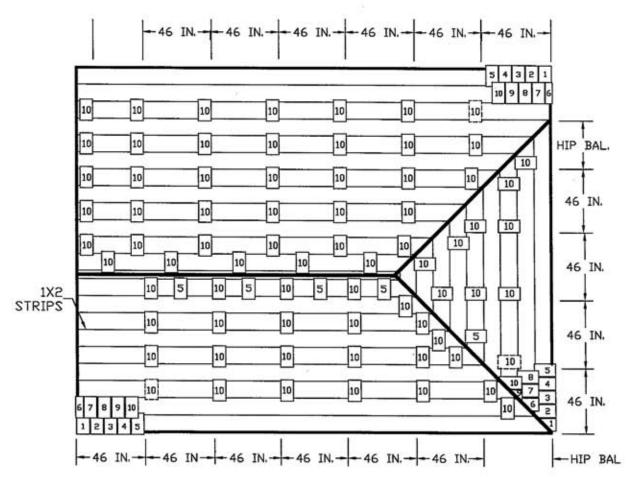
#### NOTES:

- A. For COTTAGE Installation, 1st Batten is 12.5", Balance are 10.5" Maximum.
- B. Every Other Field Tile is Raised 1.75" Above the Batten and Nailed to the Batten. (Unnotched)
- C. The COTTAGE SERIES Tile are Ready to Install Without Further Modification.
- D. The COTTAGE SERIES Requires 12% addl. Tile & Horiz. Battens & Adds Aprox. 12% Weight.
- E. The RUSTICUT Option Does Not Alter the Spacing or Weight.
- F. The RENAISSANCE SERIES Offers a Virtually Unlimited Range of Colors, Blends, and Textures.
- G. Trim Units, Underlayment, and Metal are Generally Unaffected by Staggering of Field Tile.

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Installation Specifications and Guide

## RECOMMENDED ROOF STOCKING LAYOUT



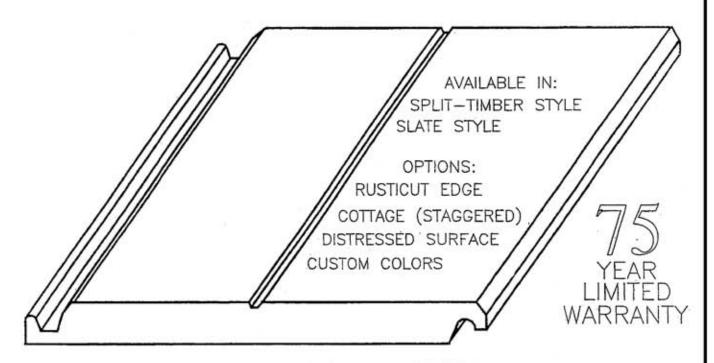
\*SAFETY\* BARTILE IS SHIPPED STRETCH WRAPPED, ON SINGLE SIDED PALLETS \* \*NOTICE\* NEVER STAND ON ELEVATED SHIPPING PALLET \* NEVER LIFT PALLET ABOVE PEOPLE \* NEVER UNLOAD A SUSPENDED PALLET \* ALWAYS UNLOAD OUTSIDE AND TOP ROWS FIRST, KEEP PALLET LOAD BALANCED AND IN CENTER \* NEVER STACK TILE IN AN UNSECURE MANNER ON THE ROOF \* THE CUSTOMER MUST ACCEPT RESPONSIBILITY FOR THE SAFE HANDLING OF PALLETS AND TILE

- Illustrated, is the SPLIT-TIMBER/NEW ENGLAND SLATE Stacking Procedure, the NOTES ON STACKING BARTILE:
  - The Tile are Generally Stocked in Stacks of 10 Pieces per Stack.
     Each Stack of 10 Tile Will Cover Two Courses, Five Tile Wide.

  - Skipping the First Strip, Place Each (10 Tile) Stack on Every Two Strips.
     Illustrated, is the "SPLIT-TIMBER"/"NEW ENGLAND SLATE" Stacking Procedure, the SIERRA MISSION and EUROPEAN Designs Lay in the Opposite Direction.
  - 5. Stack Extra Tile at Hips, Valleys, and Rakes to Allow For Cut Tile and Waste.
  - 6. Place the Stacks in Vertical Rows, Unless Interrupted by Pipes, Hips and Valleys.

U.S.PATENT NO. 6,233,895

The Strongest-Most Durable -Easiest to Install Flat Concrete Roof Tile on the Market. Excedes CODE Requirements by a Wide Margin



### LEGENDARY PROFILE

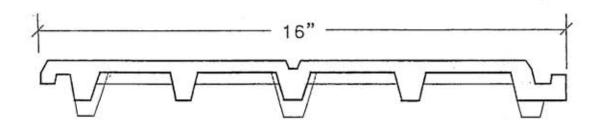
A Beautiful Roof Tile, so INNOVATIVE, so SIMPLE and INEXPENSIVE to Install, That Ordinary Roofing Products Pale by Comparison.

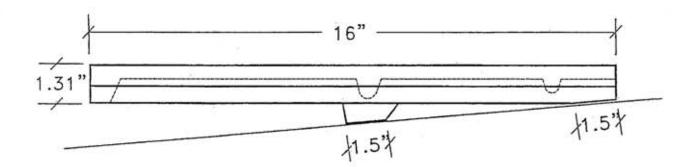
IDEAL FOR CHURCHES, HOTELS, RESTAURANTS, SHOPPING CENTERS, SKI RESORTS, APARTMENTS, COMMERCIAL BUILDINGS CONDOMINIUMS, HOMES, SEVERE CLIMATE INSTALLATIONS, ETC

APPROX. INSTALLED WT.: ULTRALITE 7.5 LBS/SQ.FT.-STD WT.10.5 LBS/SQ.FT.

### LEGENDARY ULTIMATE ROOF TILE

The HIGH-STRENGTH Tile With a COLD ROOF SYSTEM Built in.

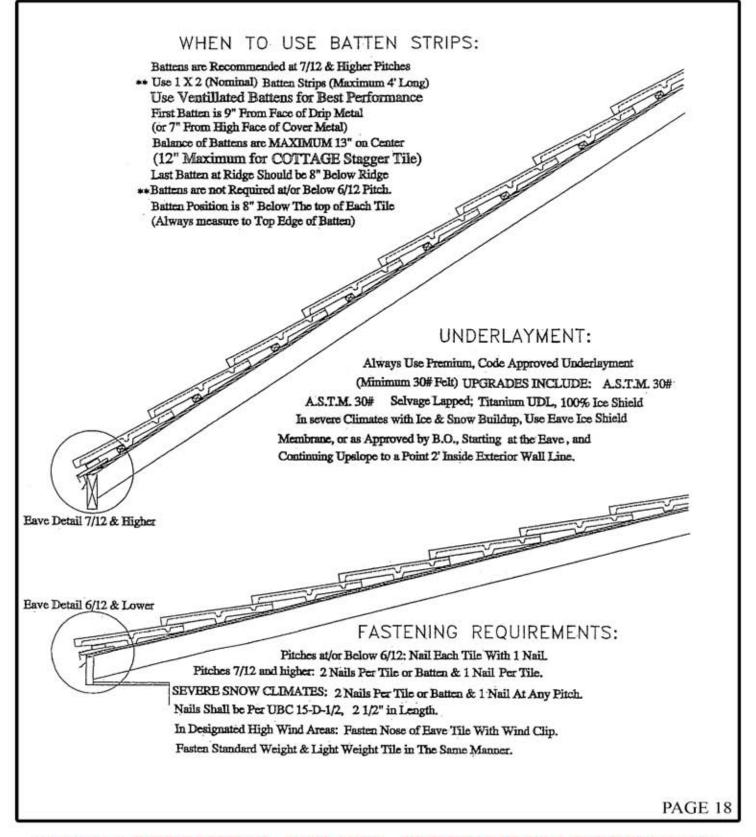




### LEGENDARY ULTIMATE ROOF TILE has FREE AIR FLOW, Eave

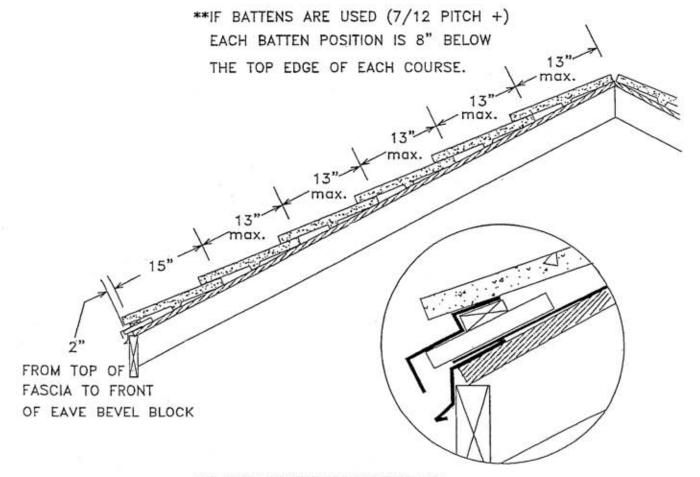
to Ridge, Between the Tile and Underlayment, to Remove HEAT BUILDUP Naturally, Through Convection Air Movement. This Important Innovation Reduces Ice Buildup in Winter, and Keeps the Building Cooler in the Summer.

Note that there are 8 Deck Bearing Points on each tile, to Distribute the Live Load, and Reduce Underlayment Scuffing.



### TILE COURSE LAYOUT

TILE SHOULD BE LAID IN STRAIGHT, UNIFORM COURSES (MAXIMUM 13") ON CENTER, LAID TO A CHALK LINE FOR EACH COURSE.



\*\* COTTAGE CUT TILE REQUIRE 12"

MAXIMUM PER COURSE LAYOUT TO

MAINTAIN MINIMUM 3" COURSE OVERLAP

