

CCBP, LLC

Contractor's Choice Building Products, LLC



[APPLICATION MANUAL]

Installation Manual for Certified CCBP Shingle Installers



CCBP® Shingle Installation

IMPORTANT: THE STATEMENTS EXPRESSED ON THIS PAGE ARE THE RECOMMENDATIONS FOR THE APPLICATION OF THE ROOFING PRODUCTS AS OUTLINED AND ILLUSTRATED. ANY DEVIATION FROM THESE RECOMMENDED PROCEDURES SHALL BE AT THE SOLE RISK OF THE INSTALLERS. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN SERIOUS DAMAGE TO THE APPLICATION AND LIFE OF THIS ROOFING PRODUCT, RESULTING IN THE TERMINATION OF ANY WARRANTY, EXPRESSED OR IMPLIED.

1.) GENERAL INSTRUCTIONS

These shingles are warranted against manufacturing defects and wind gusts up to 72 MPH. The CONTRACTOR'S CHOICE Limited Warranty can be obtained from your supplier, or applicator, or by writing to: CCBP, LLC, Attn: Customer Service, 849 FM 161 South, Hughes Springs, TX 75656. The following instructions must be followed to qualify for protection under the CONTRACTOR'S CHOICE® Limited Warranty. Important: See special instructions below for Low Slope Applications. See special instructions below for Steep Slope/Mansard/High Wind application. To obtain stated area coverage and to achieve design performance and appearance, the directions on this package must be followed. Sealing of the adhesive strips on each shingle to the shingle beneath is created by heat from sunlight. CCBP, LLC also endorses the Asphalt Roofing Manufacturers Association's (ARMA) recommendations for application details not specified within this text.

2.) ROOF DECK VENTILATION

Adequate ventilation under the roof deck must be provided to prevent harmful condensation in winter and heat build-up in summer. These conditions can cause: A.) Accelerated roof weathering; B.) Deck rot and attic fungus; C.) Shingle distortion/cracking due to deck movement; D.) Blisters. CCBP will not be responsible for damage to shingles as a result of inadequate ventilation. Ventilation provisions must meet or exceed current FHA Minimum Property Standards and conform to all building codes and regulations. To best ensure adequate ventilation and circulation of air, a combination of vents at ridge and eaves should be used. All roof structures, especially mansard and cathedral type ceilings, must have complete through ventilation from bottom to top. FHA Minimum Property Standards require 1 square foot of net free attic vent area for every 150 feet of attic floor area; or one square foot per every 300 square feet, if vapor barrier is installed on the warm side of the ceiling, or at least one half the ventilation area is provided near the ridge.

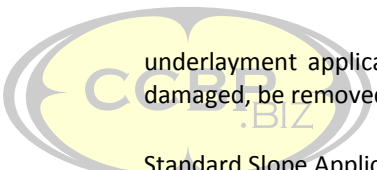
3.) ROOF DECK

These instructions are for the application of shingles to nominal 7/16" thick, code approved OSB or minimum 1" thick (nominal) wood decks. The wood decking must be well seasoned, not over 6" (nominal) width, and fastened securely to each rafter. Do not use green or unseasoned sheathing. CONTRACTOR'S CHOICE® shingles must not be applied to any surface, other than roof deck types described.

CCBP will not be responsible for the performance of its shingles if applied directly to decks composed of perlite board, plastic foam, fiberboard, gypsum plank, lightweight concrete, cementitious wood fiber, or similar materials or to any decks directly installed over insulation with the exception of CCBP approved insulation.

4.) UNDERLAYMENT

Underlayment must be applied. Comply with local building codes or shingle manufacturer's requirements, whichever is stricter. Shingles should be applied as soon as possible after the application of the underlayment felt, which is not intended for prolonged exposure. CCBP recommends that the shingles be applied the same day as the



underlayment application. If underlayment is used for prolonged dry-in, it should be visually inspected and if damaged, be removed and replaced with new approved underlayment.

Standard Slope Application: Proper application requires that a single layer of felt underlayment be applied to decks with slopes of 4" per ft. or greater and consistent with all applicable building codes. This felt underlayment is required to achieve a Class A fire rating on the deck assembly. Lay felt over entire deck parallel to eaves, flush to d-edge as possible with fasteners placed every 12" across the lower edge and with 2" overlap parallel to eaves and with 4" end lap parallel to rake. End laps shall be staggered 6 feet apart. Corrosion-resistant drip edge should be placed over the underlayment at the rake and beneath the underlayment at the eaves.

Low Slope Application: 2:12-4:12 (51mm/305mm) On slopes 2" to 4" per foot apply a double layer of felt underlayment over the entire deck surface. Starting with 19" wide strip at eaves, flush to d-edge as possible, cover with full 36" strip providing a 17" exposure. Continue with 36" strips lapping each course 19" over the preceding course. End laps for low slopes shall be 12" and staggered 6 feet apart. Install drip edge over the felt underlayment at the rake and beneath the underlayment at the eaves.

5.) FLASHING

All flashing should be in place before shingles are installed. Cap flashings of sheet metal and base flashings of metal or mineral surfaced roll roofing should be used at vertical surfaces such as chimneys, skylights, vents, walls, etc. All flashings should be sealed with asphalt plastic cement. Consult the Residential Asphalt Roofing Manual published by the Asphalt Roofing Manufacturers Association (ARMA) for details concerning specific methods and types of flashing installation.

6.) ICE DAM PROTECTION

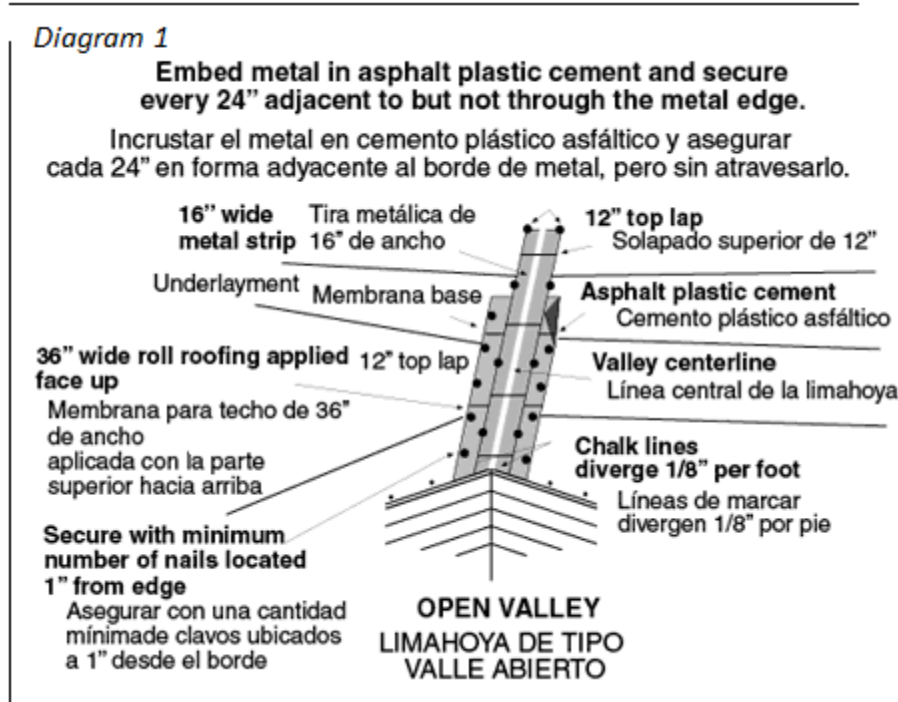
Eave flashings must be installed where there is a possibility of icing along the eaves causing a backup of water. CCBP mineral surface roll roofing, smooth roll roofing (or equivalent) must be applied directly to the deck and according to application instructions provided with the product. The roll roofing must extend up the roof at least 24" beyond the interior wall line, and in areas of severe icing, at least up to the highest water level expected to occur from ice dams. If overhang requires flashing wider than 36", the necessary 6" (minimum) horizontal lap must be located on the overhang and cemented. End-laps must be 12" (minimum) and cemented. CCBP® Ice & Water Protection, as supplied by CCBP, is recommended as the first layer of Ice Dam Protection.

7.) VALLEYS

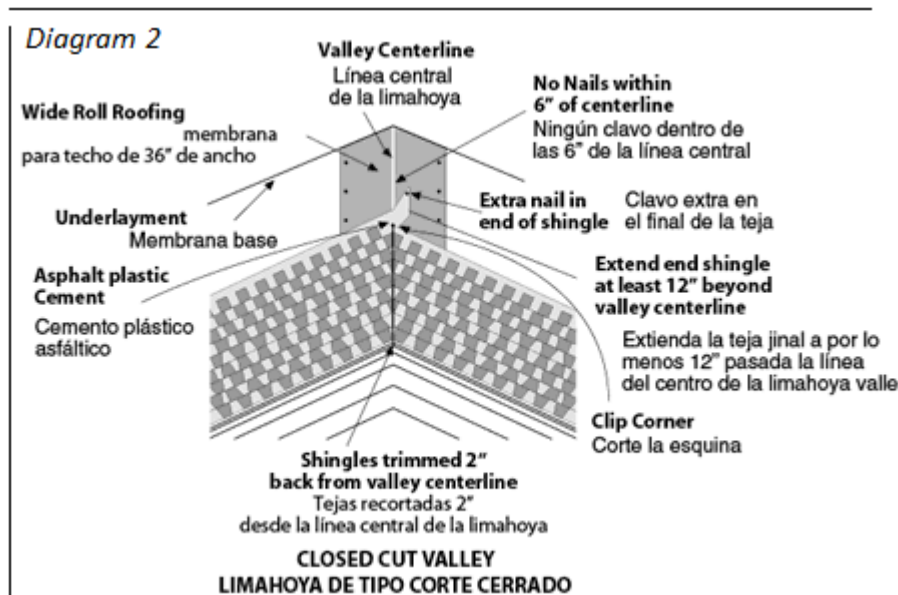
Valleys must be installed before CONTRACTOR'S CHOICE® shingles are applied.

Open Valley: Apply a 36" wide mineral surface roll roofing (with granular side up) or smooth roll roofing centered in the valley. Install 16" wide minimum flashing also centered in valley. Secure the flashing every 24" along both edges either with cleats or large head nails with the shanks immediately adjacent to the edge. Overlaps in the metal must be a minimum of 12".

Strike chalk lines on each side of the metal valley 3" from the center line. As shingles are applied, trim them to chalk lines and, to direct water into valley, cut 2" diagonally off upper corner of shingles adjacent to chalk line. Set valley edge of each shingle in a 3" wide band of asphalt plastic cement meeting ASTM D-4586 and nail no closer than 6" from valley center line. See Diagram #1.



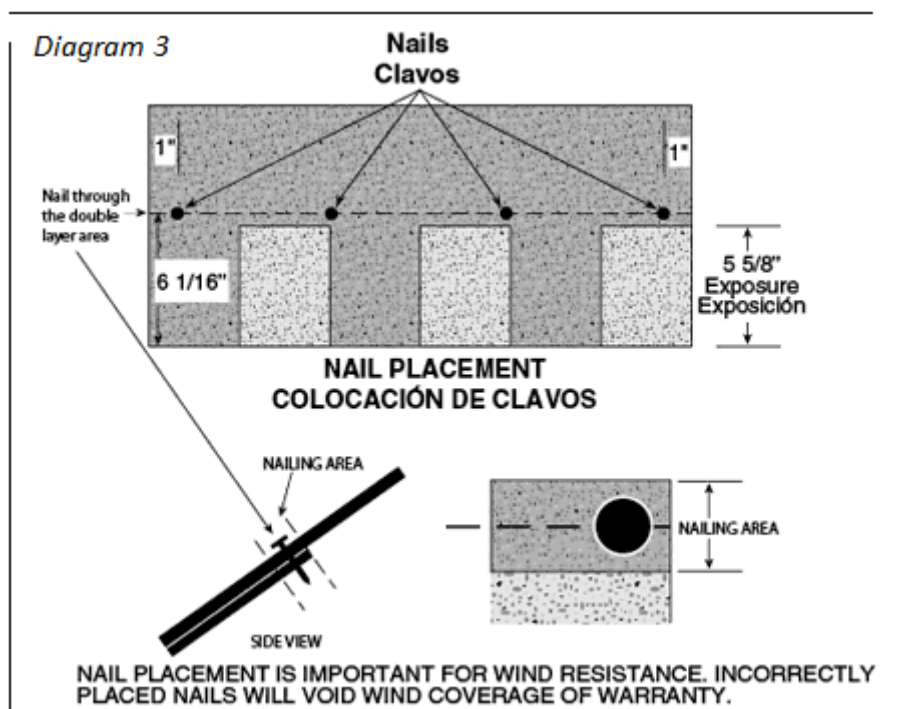
Closed Cut Valley: Apply a 36" wide mineral surface roll roofing (with granule side up) or smooth roll roofing centered in the valley, nailing 2" from outer edges only. Apply all shingles on one side of valley and across center of valley, a minimum of 12". Nail a minimum of 6" away from the center line of the valley on the un-shingled side and strike a chalk line 2" from the center line on the un-shingled side. Apply shingles on the un-shingled side up to the chalk line and trim. Do not cut the underlying shingle. Cut upper corners of the shingle, cement and nail. See Diagram #2.



Placement of nails is critical to overall performance. High nail placement will result in separation of components and will cause delamination of shingles after application. All nails must be driven straight with the heads flush to the shingle surface, never cutting into the shingle. Nails must not be exposed (visible) on the finished roof.

FASTENERS: Nails must be corrosion-resistance roofing nails with 3/8" minimum head. Nails must be long enough to penetrate the roof deck, the nails should be long enough to penetrate fully and extend at least 1/8" through the roof deck.

NEW ROOFING APPLICATION (first shingle layer): 4 nails are required per shingle. The nails are to be located 6 1/16" up from the bottom edge of the shingle, with one nail placed approximately 1" from each side of the shingle, and the remaining two equally spaced between the two outer nails as illustrated in the diagram. **NAILS MUST BE MINIMUM OF 1-1/4" LONG.** See Diagram #3.

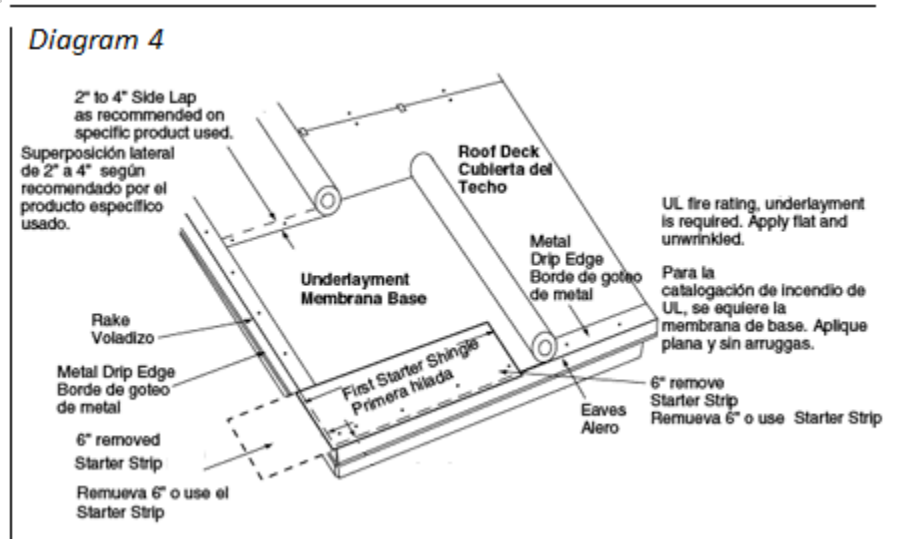


NAIL PLACEMENT IS IMPORTANT FOR WIND RESISTANCE. INCORRECTLY PLACED NAILS WILL VOID WIND COVERAGE OF WARRANTY.

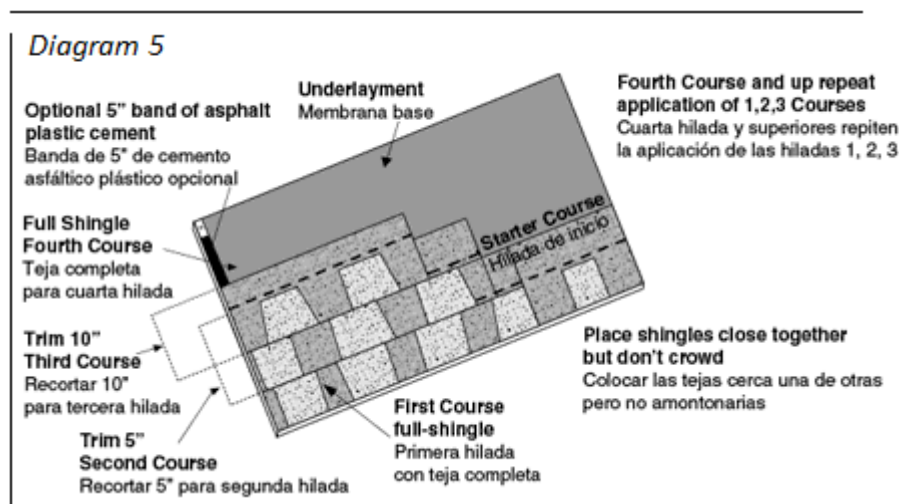
9.) APPLICATION

Prepare deck with saturated felt underlayment, drip edges and flashings as recommended. Horizontal and vertical chalk lines should be utilized to ensure proper shingle alignment from eave to ridge.

Starter Course: Use CCBP Shingle Starter Strip or you may use a CCBP 25 Year 3-tab shingle for starter course. Trim off tabs and apply flush with overhang on the eaves. Note the seal-down feature should be in line with the eave. In order to offset seams, cut 6" off the left end of the first shingle. Begin application at lower left rake of roof, and then continue across with full-length shingle, nailed with 4 nails equally spaced across the shingle and nailed 3" up from the eave. See Diagram #4.



First Course: Begin first full shingle at lower left rake of roof or right of vertical chalk line and continue course across roof with full shingles laid flush with starter course and fastened with 4 nails, placed as specified. Note: an optional band of asphalt plastic cement meeting ASTM D-4586 may be applied to the rake of the roof with each shingle course to enhance wind resistance and to resist wind driven rain infiltration. See Diagram #5.



Second Course: Cut 5" off the left end of a shingle and apply the remaining larger piece over the first course shingle, flush with the left edge and exposing the first course 5 5/8". Proceed with full shingle across roof maintaining 5 5/8" exposure. See Diagram #5.

Third Course: Cut 10" off the left edge of a shingle and apply the remaining larger piece over the second course shingle, flush with the left edge and exposing the second course 5 5/8". Proceed with full shingle across roof maintaining 5 5/8" exposure. See Diagram #5.

Course Completion: Begin Fourth course application cycle, with full shingle (same as First Course method) and continue with full shingle across roof. Continuation of this staggered course cycle must be followed to achieve correct pattern appearance.

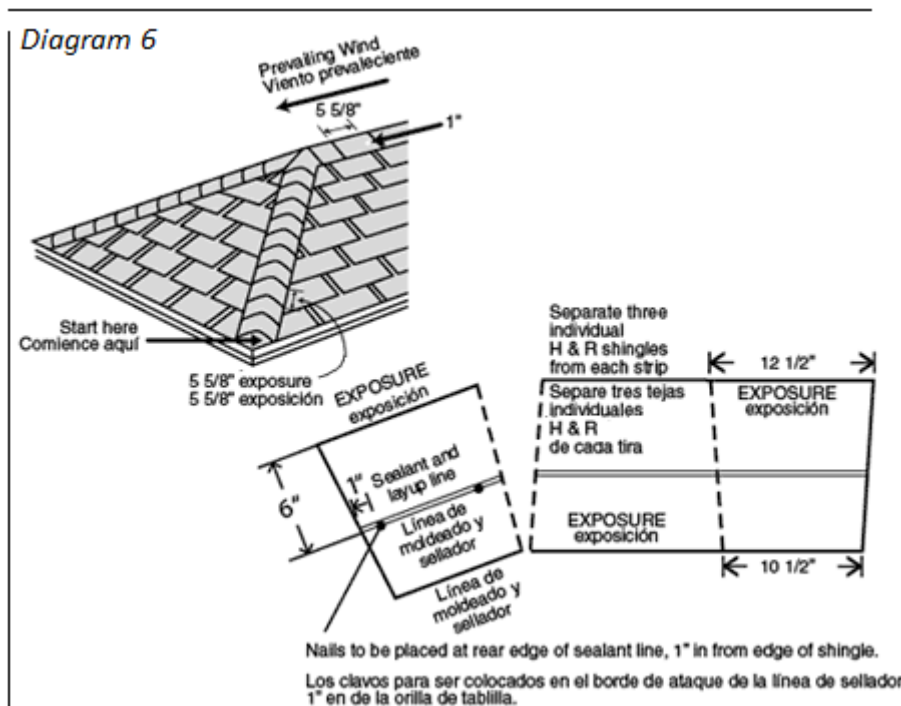
10.) STEEP SLOPE/MANSARD/HIGH WIND APPLICATION

Immediately upon application to slopes exceeding 15 pitch (or 15" per 1 ft.), apply six (6) quarter size spots of asphalt plastic cement under each shingle. All six spots are to be approximately 1" up from the bottom edge of the shingle and spaced equally across the shingle with the two outer spots located 1" in from each outer edge. The cement should not be exposed when shingles are pressed into position. Excessive use of roofing cement can cause shingles to blister.

CAUTION: STEEP SLOPE/MANSARD/HIGH WIND APPLICATIONS REQUIRE 6 NAILS EVENLY SPACED ALONG THE LENGTH OF EACH SHINGLE.

11.) HIP AND RIDGE

To prevent cracking in cold climates when applying to hips and ridges, shingles must be sufficiently warm and flexible. Apply CCBP pre-cut Hip & Ridge shingles with a 5 5/8" exposure, beginning at the bottom of the hip or from the end of the ridge in the direction opposite of prevailing winds. Use two nails per shingle, as specified under Section 8-Fastening, with one nail on each side, 6" back from the exposed end and 1" up from the edge so succeeding shingles conceal nail heads. Trim final shingle to fit and set in plastic cement. CCBP 25 Year Shingles (or equivalent) may also be used as the Hip and Ridge covering. Cut the strip in thirds. Taper the rear portion of each slightly so that it is narrower than the exposed portion. See Diagram #6. When installing ridge vents follow vent manufacturer's instructions.



Separate the pre-cut Hip & Ridge shingle into three equal pieces along the perforated lines provided. Bend each piece lengthwise to provide equal exposure on both sides of the ridge. Allow 5 5/8" of exposure and nail 6" from exposed butt edge with 2 nails 1" from each side. The direction of the exposed end should be away from the prevailing wind. One bundle of shingles will provide approximately 31 lineal feet of ridge coverage when applied in accordance with these instructions.



Special Design Instructions: For an enhanced appearance with pre-cut Hip & Ridge, use a double layer of shingles. Fasten in the same manner as the single layer application shown. Be sure to use fasteners of sufficient length to penetrate through the roofing material and at least 3/4" into a lumber deck or through a plywood deck (2" long). One bundle of shingles will provide approximately 16 lineal feet of the double layered enhanced ridge.

12.) RE-ROOFING OVER ASPHALT SHINGLES

Replace all missing shingles. Split and securely nail all buckles, raised tabs or curled shingles. Ensure attic ventilation complies with FHA Minimum Property Standards as stated previously. Install a layer of number 30 felt underlayment to maintain a Class A fire rating. Asphalt Felt is to be applied over the old shingles and then proceed with the new shingles as if applying a new roof.

IMPORTANT: CCBP recommends 2" nails for a roof over. See Section 8. CCBP, LLC DOES NOT RECOMMEND RE-ROOFING OVER EXISTING WOOD SHINGLES OR LAMINATED ASPHALT SHINGLES.

MINIMUM STANDARD SLOPE REQUIREMENT NOT LESS THAN 4 INCHES PER FOOT. LOW SLOPE REQUIREMENT NOT LESS THAN 2 INCHES PER FOOT.

DO NOT MIX WITH MATERIAL BEARING DIFFERENT COLOR NAME OR OTHER PRODUCT SIZES ON THE SAME ROOF.

WARNINGS & PRECAUTIONS

WARNING: Roofing application can be dangerous. All necessary precautions and safety guidelines should be observed in accordance with proper roofing trade practices. Every effort should be made to keep roof traffic to a minimum. Regular roof maintenance should be performed in the cooler parts of the day.

Important Precautions: Store on flat surface. Protect from weather during storage and on job site.

DISCOLORATION: Some shading or variations in the colors may occur due to positioning or embedment of the granule. When asphalt shingles are packaged, they are under a certain amount of pressure due to weight. Minor staining may occur. While in storage, they may also pick up varying amounts of backing material used to keep the shingles from sticking together. These discolorations are temporary and are removed by natural weathering.

MINIMUM STANDARD SLOPE REQUIREMENT NOT LESS THAN 4 INCHES PER FOOT. LOW SLOPE REQUIREMENT NOT LESS THAN 2 INCHES PER FOOT.

DO NOT MIX WITH MATERIAL BEARING DIFFERENT COLOR NAME ON THE SAME ROOF.

THIS IS FOR A METRIC SIZED SHINGLE WITH A 5 5/8" EXPOSURE. DO NOT ATTEMPT TO MIX WITH OTHER PRODUCT SIZES