



INSTALLATION GUIDELINES CUT SHEET FOR NATURA SHAKE AND NATURA SLATE BY PARAGON ROOF SYSTEMS

General Information: The information provided is a guideline and does not imply responsibility for the final installation. All applications should be done in accordance with local building codes in your area.

Product Description

Natura Field Shake/slate: Length: 16.75 inches \pm 1/8"; Width: 14.8125 \pm 1/8" (Imaging widths. There are 9 different widths and length of shingle imaging combining for 21 unique shingles. Bundles come preblended for sizes in bundles of 10. **Maximum exposure 12 inch**

Starter Piece: Length: 6 inches \pm 1/8"; (356 mm); Width: 14 inches \pm 1/8"; Install with **3/8 inch gap between starters.**

Hip & Ridge: Length: 14 inches; Width: 6 inches to 5.375 inches taper. **Max exposure 10 inches**

Solid Accessory: Length: 16.75 inches \pm 1/8"; Width: 14.8125 \pm 1/8" Optional for Valley and Gable installation

Storage

Natura Shake/slate needs to be stored on a flat surface. Shake/slates can become twisted or bent if stored on an uneven surface and could cause a concern; therefore, shake/slates should not be installed if bent or twisted.

Color Blending

It is recommended for both solid and multi-colored Natura Shake/slate that the installer load the roof out of three (3) pallets minimum rather than a single pallet.

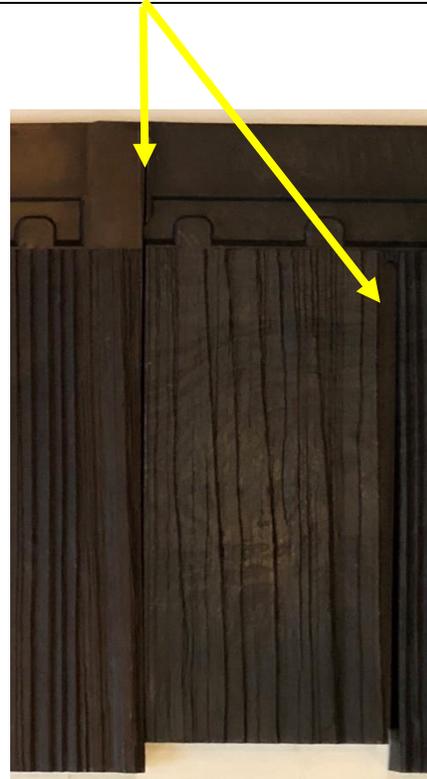
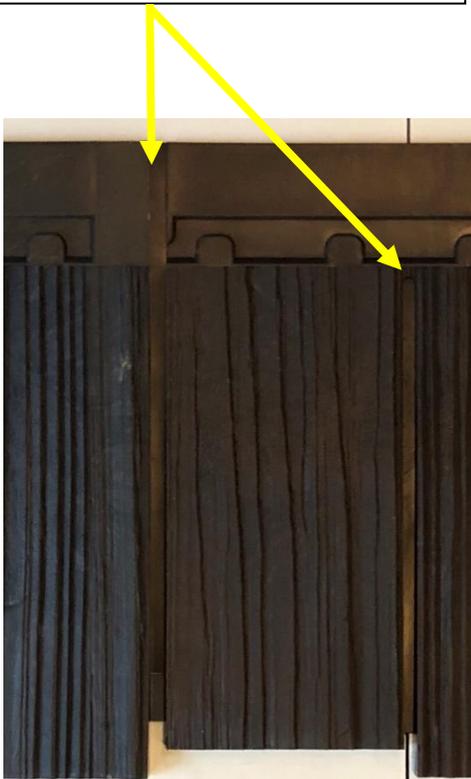
Although we blend at the factory, **good blending is the responsibility of the installer.**

Spacing Requirements

The required spacing for Natura Shake/slate is 3/8 inch where the shingles overlap side to side. To achieve this, after you insert the tab under the already nailed down shake/slate panel to the right, you lay the shingle flat and then slide the shingle to the left until it stops by contacting the waterlock lip of the nailed down shingle. Visually this will make the adjustable gap the same as the fixed gap on a panel and allows for expansion, and gives a more natural appearance of cedar shake/slate. Do not install pieces that are damaged or lifted. **DO NOT INSTALL WITH THE ADJUSTABLE GAP TIGHT TO THE NAILED DOWN SHINGLE.**

Correct gap matches fixed gap on shingle

Incorrect gap too tight does not match fixed gap on shingle



Fastener Requirements

Natura Shake/slate should be installed with three corrosion resistant fasteners such as stainless steel type (304 or 316), hot dipped zinc coated, copper, aluminum or corrosion resistant pneumatic **ring shank roofing nails** with a $\frac{3}{8}$ " diameter head and shank length sufficient to penetrate through the decking $\frac{3}{16}$ " minimum. Use caution to insure against over/under penetration. All Shake/slate will be fastened with three fasteners in the below designated locations. For eave heights 40' or higher, use three screws in lieu of nails.

Field product fastener lengths are **1.5 inch** minimum for up to $\frac{5}{8}$ inch decking and **1.75 inch** for up to $\frac{3}{4}$ inch decking. Sometimes solid shingles are cut for valleys or gables where a hidden screw is needed. **Stainless or coated for exterior use Tiny head/Trim Head finishing screws** may be used for these pieces and allow for "hidden" exposed fasteners as the head will be pulled down just below the surface of the solid shingle cut piece.

All shingles are laid right to left. After sliding the tab on the right side of the shingle under the already fastened shingle, you pull the shingle to the left to match the gap referenced above. Align the top edge for the shingle with your chalk line and install **nail 1, then 2, then 3 in order.**

Unused nail locations are for when a shingle is cut and installed as a partial. This nail pattern along with the tab anchors down all 4 corners of the shingle.



Roof Slope

A roof slope of 4:12 and above is recommended. For roof slopes of less than 4:12, special consideration should be taken for the sub roof installation. An adhesive back underlayment or rubber roof system may be needed. A 50 year warranted adhesive back underlay is suggested in order to match the life cycle of Paragon. But is not a requirement for warranty.

Decking

Solid deck: minimum of 15/32" CDX plywood deck or equal

Check with your local building official for plywood thickness and dimensions.

Underlayment

Ice and Water Shield: Single layer of 36 mil rubberized asphalt on 4 mil polyethylene carrier sheet; 36" wide sheet in all valleys recommended. Install one row 36" wide along all eaves (extended 3' inside plate line), around dormers, skylights and roof projections. Lap end joints 6" and side joints 3". Always refer to local building codes. *Note: Ice and Water Shield should not be installed over felt.* **Felt**: Minimum requirement on a solid deck is one layer Type II, #30 felt which meets ASTM D226. Overlap Ice and Water Shield no less than 2" or install beginning at the eave and overlapping fascia board or metal roof edging, if installed. Lay parallel to eave. Cover the roof deck with felt maintaining 2" head laps and 6" end laps. Hips and ridges should be lapped 6".

A 50 year warranted adhesive back underlay is suggested in order to match the life cycle of Paragon. But is not a requirement for warranty.

Metals

Valleys- minimum recommendations, 16 oz copper, 26 ga. Corrosion resistant metal such as stainless steel, color clad steel or color clad aluminum. Standard eave drip starter strips and gable edge strips.

Venting

Follow local codes for venting as Paragon materials do not require venting, but your attic may need venting. Check with your contractor.

Cold Weather Installation

It is recommended that Natura Shake/slate not be installed in temperatures below 20° F (-7° C).

Roof Preparation-surface area should be uniform, smooth, sound, clean and free of irregularities.

- Metal Flashings and other specialty flashings as well as work by other trades, which penetrate the roof plane must be in place prior to installation of shake/slate.
- Underlayment. Install Ice and Water if applicable at eaves, in valleys, and around all roof protrusions. Install minimum Type II, #30 felt over rest of roof. Use Felt Interlay if applicable. If Ice and Water shield is the primary underlayment instead of felt, installed directly to the deck.

Starters

Starters should project 1/4" beyond the fascia board at the eaves. **A chalk line 5.75 inches from the eave edge will help guide your starter installation.** Starter pieces should be installed with the tapered edge (thin edge) at the top of the starter course. Each starter should be nailed 1.5" in from each side and centered top to bottom. A 3/8" spacing is required between each starter. If a starter needs to be cut to complete the starter course, place the factory edge to the outside.

After the starter course is installed, begin the **first course** of Natura Shake/slate. **Snap a chalk line 15.5 inches from the bottom edge of the starter for aligning your first row.** If a cut piece is needed at the gable end, use a solid tile if available or a flashing to enclose the cut end. **All remaining courses will be installed at a maximum of 12 inches.** Rows can be shortened to account for rafter length, but not stretched over 12 inches.

Valleys

Either open or closed valley designs can be used. In all valley applications, the solid tile accessory piece is suggested. In a closed valley system, regular shake/slate can be used at the installer's discretion, but the use of solid tile is still suggested. Install the shake/slate along the valley and trim as needed

- A. With an **open valley design**, leave a minimum 4" opening at the top of the valley, graduating $\frac{1}{8}$ " per 10 linear feet down slope. For roof slopes of 4:12 or greater, "w" valley flashing should have 1" center in painted, galvanized steel, aluminum, copper or stainless steel and extend a minimum of 10" on each side of the valley centerline. For roof slopes less than 4:12, valley flashing should extend no less than 14" each side.
- B. **Closed valley** flashings are 2 $\frac{1}{2}$ " center crimped, extending 10" out from centerline.

Flashings

Flashings should be used around all roof projections, such as walls, chimneys, dormers, parapets, vent pipes, skylights etc. Proven durable flashing materials are copper, tin, lead, galvanized iron and stainless steel. A lead stack vent for plumbing pipes is recommended.

NOTE: When dissimilar metals are placed in contact with one another, galvanic action will result which can cause electropositive metals to deteriorate. One way this can be avoided is by placing strips of sheet lead between the two metals.

Hip & Ridge Detail

Install an 8" wide strip of 30 lb. felt (minimum) over the center of the hip.

When pre-formed hip & ridge tiles are used, place nails at nail locator marks. Fasten hip trim with 3 inch long fasteners. Use 1 nail or screw on each side. Nails should penetrate the decking $\frac{1}{2}$ ". Maintain a 3" head lap. **Do not over fasten and deflect the hip trim.**

Warranty

Paragon warrants its products lifetime for residential installations and 50-year period for commercial applications and applies to the product only and not the workmanship of the installed product. The roofing contractors should provide a separate warranty of their own.