KAYU INTERNATIONAL, INC.

KAYU ®-SIDING MATERIAL™

KAU®-Batu™ I KAU®-Ipe™ I KAU®-Golden™ I KAU®-Borneo Mahogany™

100% Clear Grade, Kiln Dried

Kayu® Vented Rain-Screen System™

Priming & Pre-finishing

Pre-Oiling or Priming on all 4 sides is strongly recommended in all circumstances and confirm the pre-finish is compatible with the final coat.

Installation

Kayu® 100% Natural Wood Siding must be installed over felt / tar paper or house wrap regardless of the sheathing material used. Building paper is a water barrier rather than a moisture barrier and necessary to prevent water from entering the wall cavity. The building felt I tar paper or house wrap must be dry before the wood siding is nailed into position. Mount a vapor barrier on the inside of the wall insulation to reduce moisture movement.

The majority of profiles may be installed with either a horizontal or vertical orientation - direction. However, Board-and-Batten profiles must be installed vertically. Bevel and Dolly Varden must be installed horizontally only.

In vertical applications, bevel cut the ends of boards and install the siding so water is directed to the outside. Theoretically, any profile which can be installed in either direction, such as channel or tongue-and-groove, can also be installed diagonally. Be careful through diagonal installation, which can channel water directly into door jambs, window casings or other joinery details on a structure. If siding is to be installed diagonally, the application must be designed from the outset to accommodate the direction of run-off.

When wood siding is installed over metal studs, concrete or masonry, provide 2x nails of sufficient spacing and size to meet the nailing requirements. This procedure can also be used when wood siding is installed over foam sheathing.

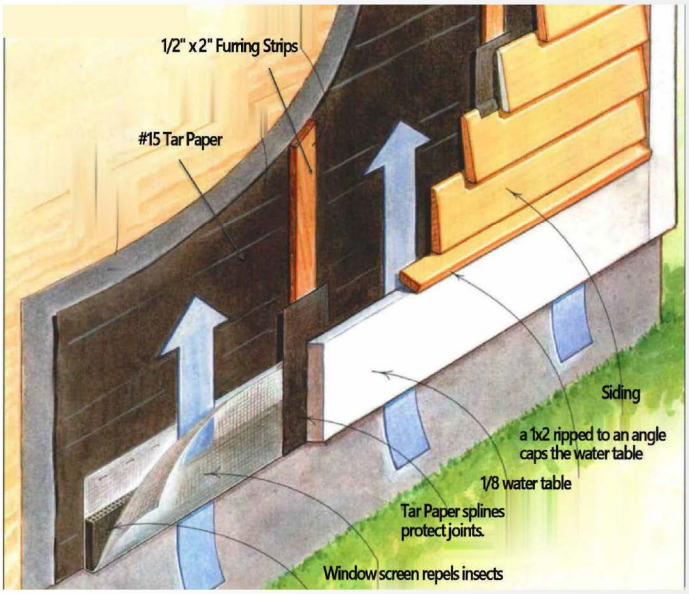
Nails & Nailing

The Kayu® Vented Rain-Screen System™ is recommended as the best for all siding installation (refer to diagram).

We believe that it is wise to assume all Siding Materials & Profiles of wood or other material will be likely to leak at least sometimes. The felt I tar paper or house wrap is the most critical water barrier. An air space vented on both the top and bottom, between the siding and house wrap, facilitates the water exiting optimally.

Kayu® Vented Rain-Screen System™

Furring strips that are a minimum 3/8" thick, space the siding away from the wall; creating a vent space that helps to dry the back of the siding. Layered Felt of Tar paper behind the furring strips create what is called a drainage plane, which alone would protect the house from water, even if there were no siding. This system will contribute to the longevity of both the house and finish.



Indonesian LEGAL Wood mtcc

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Kayu® Vented Rain-Screen System™

Recommended Nails

Nails must be corrosion resistant and rust proof. Do not use staples.

1. Stainless Steel. Is by far the best choice. Our Kayu® woods nail nicely with SS Ring Shanked, both with air guns and by hand.

2. Hot-dipped Galvanized. This nail is the least expensive. Make certain the nails are of top quality, as the degree of protective coating varies with the hot-dip galvanization process.

3. Other Fasteners. Other types of corrosion-resistant fasteners may perform satisfactorily. Before selecting an alternative fastener, check with the fastener manufacturer to determine whether or not it is suitable with wood. Avoid fasteners that may stain as a result of them weathering. Do not use staples or electro-plated nails. These fasteners often result in black iron stains which can be permanent. None of our Kayu® woods contain Tannins that often create unsightly black streaks on the siding face.

While budgets are always a consideration, high quality stainless steel nails for solid clear grade real wood siding are a wise investment. the discoloration streaking or staining that can occur with cheap nails ruins the appearance of the project, and is very difficult to remove. Remember you are using the Very Best Siding, Please don't skimp on your fasteners. Your product when properly installed and maintained should last 100+ years.

Nail Shanks

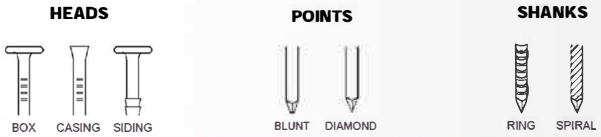
Even though Kayu® siding holds nails very well, nails that have smooth shanks can loosen as any siding expands and contracts, under the extremes of seasonal changes in temperature and humidity. Ring or threaded nail shanks will increase the holding power.

Nail Points To Use:

- ✔ Blunt - Reduces splitting
- ✔ Diamond - Most commonly used

SIDING PATTERNS	NORMAL SIZES Thickness & Width	NAILING 6" & Narrower	NAILING 8" & Wider
Board-And-Batten Provide horizontal nailing members. Do not nail through overlapping pieces. Vertical applications only.	1 x 2 1 x 4 1 x 6 1 x 8 1 x 10 1 x 12 1 1/4 x 6 1 1/4 x 8 1 1/4 x 10 1 1/4 x 12	Board and Batten Minimum 1/2" overlap. One siding or box nail per bearing	Board and Batten Board on Board Increase overlap proportionately. Use two siding or box nails, 3"-4" apart.
Bevel 3/16 3/16 Can be used with the smooth or saw-faced surface exposed. Minimum 1" overlap. Do not nail through overlapping pieces. Horizontal applications only.	1/2 x 4 1/2 x 5 1/2 x 6 5/8 x 8 5/8 x 10 3/4 x 6 3/4 x 8 3/4 x 10	Plain 4" & Narrower Minimum 3/4" overlap Minimum 1" overlap. One siding or box nail per bearing. Just above the 1" overlap.	Plain Minimum 1"- 1 1/2" overlap. One siding or box nail per bearing. Just above the 1" overlap.
Dolly Varden 5/16 13/32 Dolly Varden is thicker than bevel and has a rabbeted edge. Surfaced smooth or rough textured. Provides Classic appearance. Allows for 1/2" overlap, including an Minimum 1/8" gap. Do not nail through overlapping pieces. Horizontal Applications only.	Standard Dolly Varden 3/4 x 6 3/4 x 8 3/4 x 10 Thick Dolly Varden 1 x 6 1 x 8 1 x 10 1 x 12	Rabbeted Edge 1/16" gap for 6" and narrower Allows for 1/2" overlap. One siding or box nail per bearing. 1" up from bottom edge.	Rabbeted Edge 1/8" gap for 8" and wider Allows for 1/2" overlap. One siding or box nail per bearing. 1" up from bottom edge.
Drop Drop siding is available in many smooth and rough surfaces in profiles of T&G and Shiplap. A variety of looks can be achieved with different patterns. Do not nail through overlapping pieces. Horizontal or vertical applications. Tongue edge up in horizontal applications.	3/4 x 6 3/4 x 8 3/4 x 10	T&G Shiplap Minimum 1/16" gap for 6" and narrower Use casing nails to blind nail T&G patterns, one nail per bearing. Use siding or box nails to face nail shiplap patterns, 1" up from bottom edge.	T&G Shiplap 1/2" = Full depth of rabbet Minimum 1/8" gap for 8" and wider Use 2 siding or box nails, 3-4" apart to face nail, 1" up from bottom edge.

Nail Types To Use:



SIDING PATTERNS	NORMAL SIZES Thickness & Width	NAILING 6" & Narrower	NAILING 8" & Wider
Tongue & Groove V-Back Tongue & Groove siding is available in a variety of profiles. Do not nail through overlapping pieces. Vertical or horizontal applications. Tongue up in horizontal applications. Tongue to weather in Vertical applications.	1 x 4 1 x 6 1 x 8 1 x 10	Plain Use one casing nail per bearing to blind nail.	Plain Use two siding or box nails 3-4" apart to face nail.
Channel Channel has 1/2" overlap (including a minimum 1/8" gap) and a 1" to 1 1/4" channel when installed. The profile allows for maximum dimensional change without adversely affecting the appearance in climates of highly variable moisture levels between seasons. Do not nail through overlapping pieces Horizontal or vertical applications	3/4 x 6 3/4 x 8 3/4 x 10	4" Minimum 1/32" gap for 4" & narrower 6" Minimum 1/16" gap for 6" material Use one siding or box nail to face nail once per bearing. 1" up from bottom edge.	8" Minimum 1/8" gap for 8" and wider Use 2 siding or box nails 3-4" apart per bearing.
Log Cabin Log cabin siding is 11/2" thick at the thickest point. Allow for 1/2" overlap, including a Minimum 1/8" gap. Do not nail through overlapping pieces. Horizontal or vertical applications.	1 1/2 x 6 1 1/2 x 8 1 1/2 x 10 1 1/2 x 12	4" 6" Minimum 1/32" gap for 4" & narrower Minimum 1/16" gap for 6" material Use siding or box nail to face nail once per bearing. 1 1/2" up from the bottom edge.	8" Minimum 1/8" gap for 8" and wider Use 2 siding or box nails, 3-4" apart, per bearing to face nail.

INSTALLATION REMINDERS

- ✔ Do not nail through overlapping pieces. Use stainless steel nails with ring or threaded shanks. Use casing nails to blind nail; siding or box nails to face nail. Space 1/8" for 8" and wider and 1/16" up to 6".
- ✔ Horizontal applications only for Bevel.
- ✔ Vertical applications only for Board-and Batten, bevel cut ends of pieces and install so water is directed outside.
- ✔ Horizontal or vertical applications for Tongue & Groove, Channel Rustic, Log Cabin or Drop patterns. Tongue edge up in horizontal applications of Drop and T&G patterns.
- ✔ Read the section on Nail Penetration & Spacing to determine nail size.
- ✔ Read the sections on pre-finishing before installing siding.

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