

# Individual Shingles Installation Guide

U.S. VERSION

Read this entire guide before installing Maibec individual shingles. For proper installation, you must understand and follow all requirements and steps correctly. **DOWNLOAD THE LATEST VERSION ONLINE AT MAIBEC.COM.** For any questions, please contact Maibec's technical service at [info@maibec.com](mailto:info@maibec.com) or toll-free at 1-800-363-1930, Monday to Friday from 8:30 a.m. to 4:30 p.m. (Eastern Time).

**IMPORTANT: COMPLIANCE WITH MAIBEC'S INSTALLATION, STORAGE, AND MAINTENANCE REQUIREMENTS, AND WITH ALL APPLICABLE BUILDING CODES IS MANDATORY. PROBLEMS CAUSED BY FAILURE TO COMPLY WITH THESE REQUIREMENTS AND CODES MAY NOT BE COVERED BY THE APPLICABLE WARRANTIES.**

**Factory-stained Maibec Stave Lake™ Western Red and Alaskan Yellow individual shingles can only be installed to exterior wall surfaces.**

Shingles have one side that is smoother and more uniform than the other. Be sure to install them with this side facing outward.

This guide applies to 18" long shingles only. Contact Maibec for details about 24" long shingle installation.

*All dimensions in this document are given in inches.*

## 1. STORAGE

- Store the shingle siding in an unheated, dry, and ventilated area.
- Leave shingle boxes on the pallet. Do not store the material in direct contact with the ground or a cement floor.
- Always cover uninstalled material after a day's work.

## 2. BEFORE YOU BEGIN INSTALLATION

### CHECK YOUR ORDER

- Make sure the product delivered matches your order (color, quantity etc.).
- Have touch-up stain on hand.
- Never install a product that appears to be or that you think may be defective. Installed defective products are not covered by the warranty. Contact Maibec at 1-800-363-1930.

### PREPARATION

Be sure that the walls are smooth, without protuberances. Nail ends or points should be removed or pounded flush.

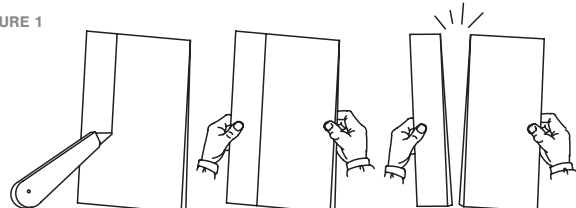
### CONSULT APPLICABLE BUILDING CODES

Make sure you are familiar with specific requirements of all applicable federal, state, and local building codes.

## 3. CUTTING SHINGLES

Since cedar is a soft wood, shingles can be easily cut with a utility knife. Cutting a shingle lengthwise is simple: make a straight cut into its surface, then snap the shingle cleanly along the scored line or use a power saw.

FIGURE 1



## 4. TOUCH-UP STAIN

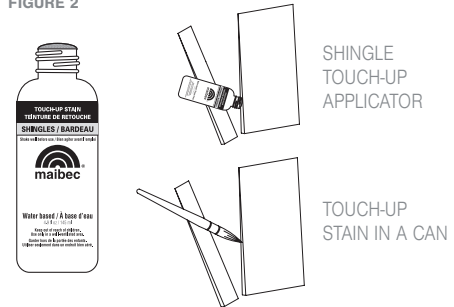
**Apply touch-up stain on all cuts, planed edges, and small damaged areas.** All bare wood must be touched up, regardless of whether it is visible once installed. Touch-up on cuts must be performed prior to shingle installation.

For shingle touch-ups, use the Maibec touch-up applicator. For shingle touch-ups with touch-up stain in a can, use a polyester, nylon, or any synthetic applicator with firm bristles approved for water-based coatings. Do not use wide brushes that could cause drips and give poor results. Carefully dab, do not spill over or overbrush.

**Touch-up stain is only meant to be used in areas that need it. It must not, under any circumstance, be applied over non-damaged factory-coated material.**

For more information, see the touch-up guide that comes with the touch-up stain cans or kits, or go to [maibec.com/us/support](http://maibec.com/us/support).

FIGURE 2



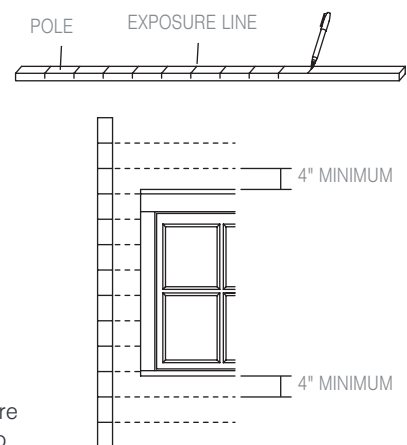
## 5. DETERMINING EXPOSURE

The exposure refers to the visible part of the shingle once it's installed. A number 1, 18" Western Red and Alaskan Yellow Cedar shingle, offers a maximum exposure of 8", but you can opt for a smaller exposure if preferred, with 7" being the most commonly used dimension.

To determine the number of courses needed and the exposure, measure the height of the wall from its lowest point (above the foundations). The butt edge of the first course of shingles must extend at least 1" beyond the foundation, so add 1" to the height of the wall. To determine the number of courses, divide the height of the wall by the exposure (7"). Then calculate back by dividing the height of the wall by the number of courses previously obtained (rounded off) to determine the exact exposure.

Use a wooden pole that is long enough to measure the exposure over several courses. A straight furring strip should do the job. Once marked, place the pole against the wall to check the alignment of the courses with the windows. If possible, the shingle courses should be aligned with window tops and bottoms, or the exposure should be at least 4" in these areas. The last course at the top of the wall should also have at least 4" of exposure. If not, recalculate to get enough exposure, then mark the pole once again. Using the pole, mark the exposure lines on the wall. Keep the pole as a reference while installing the shingles.

FIGURE 3



## 6. FASTENERS

The exposed Maibec Stave Lake Western Cedar Shingle should be face-nailed with two nails, driven 1" above the butt line of the succeeding course and 3/4" from each edge. Shingles wider than 10" require one additional nail driven near the center of the shingle. Alternatively, you can split the shingle into two smaller-width shingles.

### NAILS:

- stainless steel or hot dipped galvanized
- ring shank blunt tip nail with minimum 7/32" head

### STAPLES:

- stainless steel with minimum 7/16" and 3/4" maximum crown, minimum 16 gauge

**Do not use electrogalvanized fasteners.**

**The fasteners must penetrate a solid, nailable substrate, a minimum of 1/2" (example: plywood).**

FIGURE 4

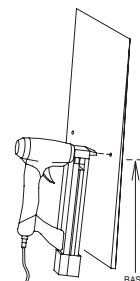
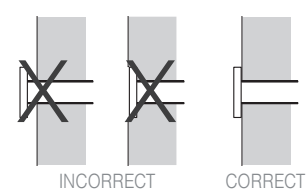


FIGURE 5



## 7. KEYWAY SPACING

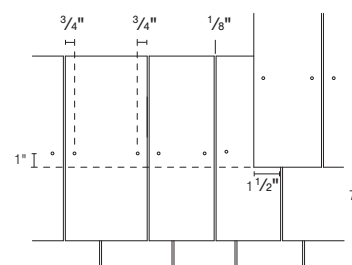
**Leave a keyway space of 1/8" to 1/4" between shingles, creating a distinct individual effect for each course. Ensure consistent spacing between each shingle. The edges should not touch.** The keyway spacing on consecutive rows must be offset a minimum 1 1/2".

### SPACING DETAIL

- For Number 1 Western Red Cedar shingles, apply with a 1/8" to 1/4" keyway space.
- For Number 1 Alaskan Yellow Cedar shingles, apply with a 3/16" to 5/16" keyway space.
- For Number 2 Western Red Cedar shingles, apply with a minimum of 1/4" to 3/8" keyway space.

These joints allow for expansion and prevent blocking. For each 4" shingle width, the product will expand by approximately 1/8". Consequently, a 12" shingle should expand by about 3/8".

FIGURE 6



## 8. THE STARTER COURSE

The starter course has two layers of shingles. The easiest method consists of installing 2 courses of full-length shingles one on top of the other, making sure that joints aren't aligned over subsequent courses. [FIGURE 7]

Another method consists of installing the first course using shingles trimmed 7" from the base, then continuing the second course with full-length shingles, making sure that joints aren't aligned over subsequent courses. With this method, all the courses will have the same thickness on the wall. [FIGURE 8]

The starter course must extend at least 1" beyond the foundation to keep water off the wall. The second course extends slightly below (1/2") the starter course to allow water to drip at the base of the shingles by gravity. [FIGURE 9]

**The butt line of the starter course must have a minimum clearance of 6" with the ground surrounding the building.**

### ALLOW A MINIMUM CLEARANCE OF:

- 1" from adjacent horizontal structures (example: deck)
- 1/2" from roof shingles and flashing or according to building code

FIGURE 7

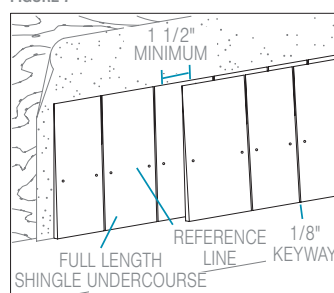


FIGURE 8

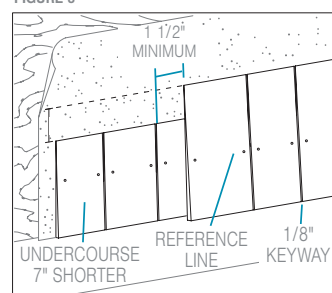
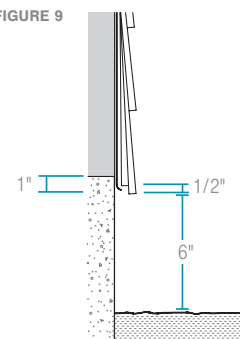


FIGURE 9



## 9. SUBSEQUENT COURSES

Shingles come in random widths, so you must make sure that the joints are not aligned over subsequent courses. Leave a keyway space of at least 1 1/2" from the shingles in the previous course. Ideally, no joints should be aligned over three subsequent courses. [FIGURE 10]

Install subsequent courses in a single layer on the rest of the wall according to the determined exposure. Keep your courses straight and level. To make shingle alignment easier, tack a furring strip beneath the exposure line or make a chalk line. [FIGURE 11]

FIGURE 10

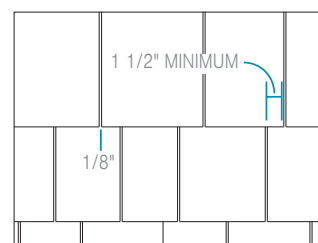
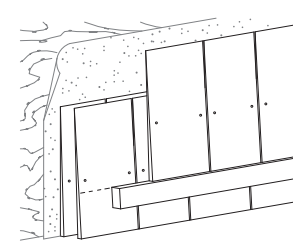


FIGURE 11



## 10. CORNER FINISH DETAILS

The most common and traditional outside corner trim is made by overlapping shingles so that the joints alternate successively on each side of the corner. Nail the lower corner of the shingle with a ring shank blunt tip nail. [FIGURE 12]

- Choose a corner shingle that is wide enough to extend beyond the wall. Trim excess cleanly with a utility knife. You can trim it in place using the corner of the wall as a guideline, but for greater precision, you can mark a pencil line on the back of the shingle and cut it flat. [FIGURE 13]
- Tack the shingle in place while you install a second shingle that also extends beyond the wall on the other side. Trim the shingle, using the first shingle as a guideline. For a smooth finish, use a plane. [FIGURE 14]
- Apply touch-up stain to the cut edges, then nail the shingles in place according to the nailing recommendations. [FIGURE 15]

FIGURE 12

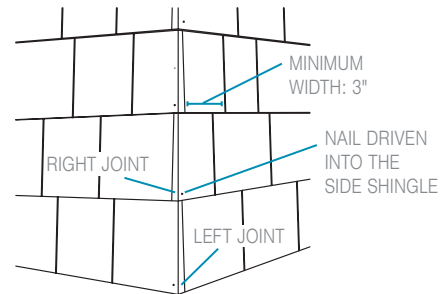


FIGURE 13

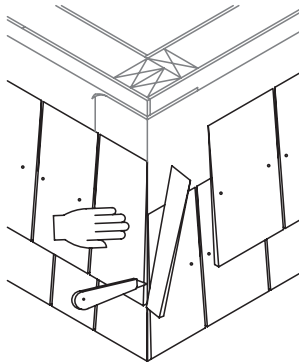


FIGURE 14

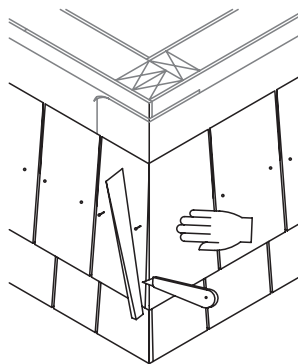
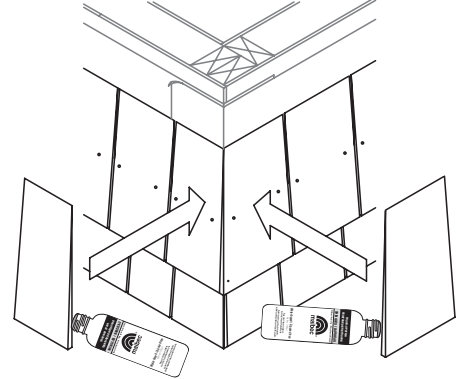
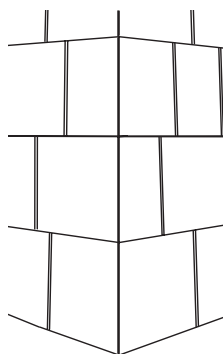


FIGURE 15



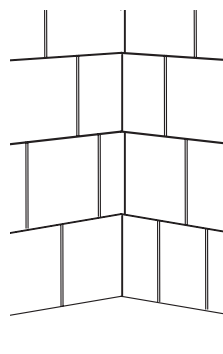
Well-fitted inside or outside angles can be easily achieved. Outside corners require the use of small nails near the ends of the cedar shingles to tighten and secure the angles. For these corners, use only corrosion-resistant nails as described in section 6 of this document. In the case of a double row, the shingle must be nailed facewise using two nails driven 2 inches above the butt line and 3/4" from each edge. [FIGURES 16, 17, AND 18]

FIGURE 16



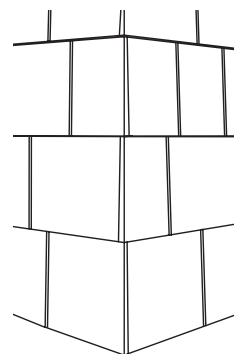
OUTSIDE CORNER

FIGURE 17



LACED INSIDE CORNER  
WITH FLASHING BEHIND  
STRIP ON CORNER

FIGURE 18

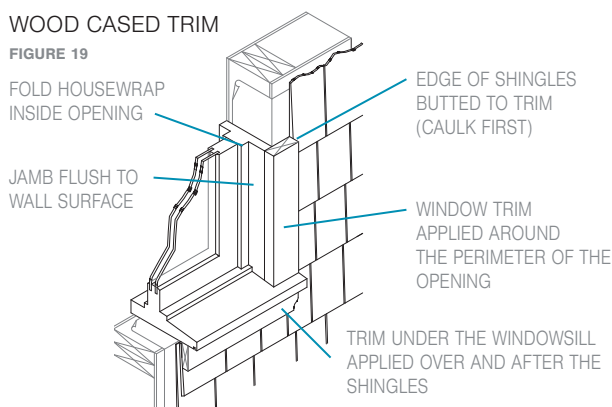


ALTERNATED LACED  
OUTSIDE CORNER

## 11. WINDOW FINISH DETAILS

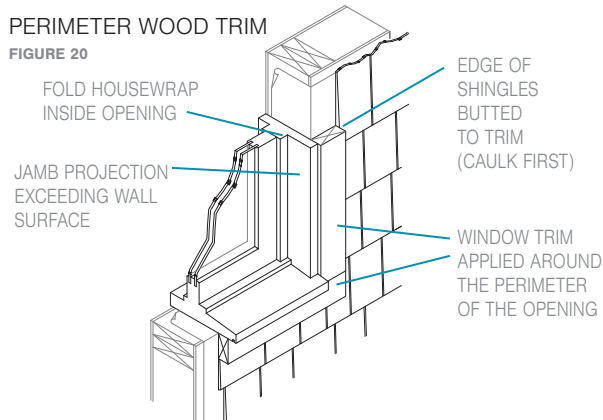
### WOOD CASED TRIM

FIGURE 19



### PERIMETER WOOD TRIM

FIGURE 20



When a shingle is installed against the lower corner of the window opening, the joint must be aligned with the edge of the opening. For greater stability of shingles below openings, apply glue to the back and nail the bottom corners. Pre-drilling of the shingles may be required. [FIGURE 21]

### THE WINDOW HEADER

The window header is a crucial element where water could accumulate and seep behind shingles, which could affect the structural integrity of the window frame. [FIGURE 22]

Metal flashing is essential to keep moisture away from the window header. The flashing should extend beyond the trim that will be installed. [FIGURE 23]

**Shingles installed above window and door headers must be spaced 1/2". [FIGURE 26]**

FIGURE 22

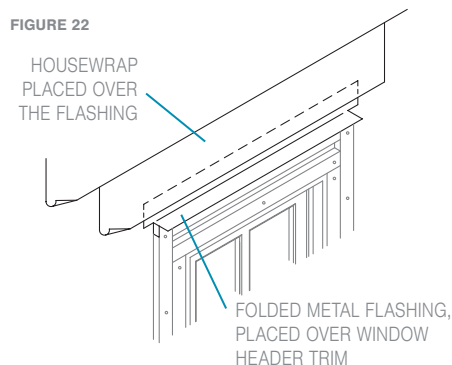


FIGURE 23

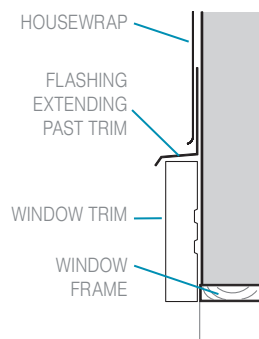
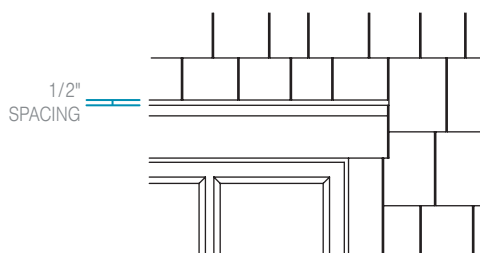


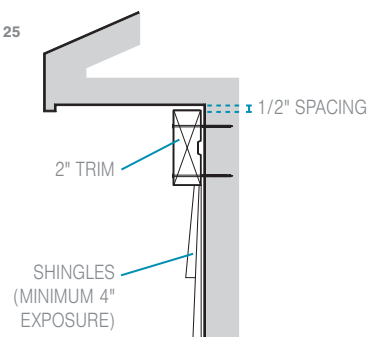
FIGURE 24



## 12. TOP OF THE WALL FINISH DETAILS

The typical way to finish the top of a wall is to install a trim and have the shingles butt directly to it. This is traditionally done when the shingle course is wide enough, and a minimum 4" long shingle is the norm for this type of application. To facilitate airflow at the top of the wall, it is important to leave a 1/2" gap between the trim and the soffit.

FIGURE 25



**IMPORTANT: COMPLIANCE WITH MAIBEC'S INSTALLATION, STORAGE, AND MAINTENANCE REQUIREMENTS, AND WITH ALL APPLICABLE BUILDING CODES IS MANDATORY. PROBLEMS CAUSED BY FAILURE TO COMPLY WITH THESE REQUIREMENTS AND CODES MAY NOT BE COVERED BY THE APPLICABLE WARRANTIES.**

## 13. GABLES

Finishing under sloping soffits such as gables calls for special attention because the remaining triangular shingles have visible nails. These shingles are often narrower and more fragile. You must glue the back, cover with a trim, and in some cases nail the lower corner for greater stability and to keep them from curling. There are several ways this can be done.

Cut the shingles at the end of the course on the same angle as the gable. This way the end shingles need fewer nails.  
[FIGURES 26 and 27]

**OR** Leave the section open at the end of the course. [FIGURE 28]

FIGURE 26

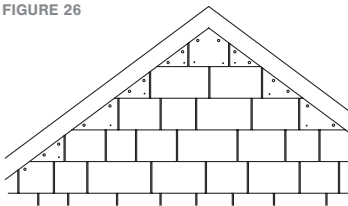


FIGURE 27

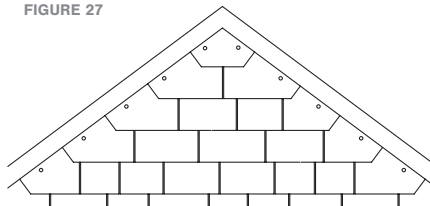
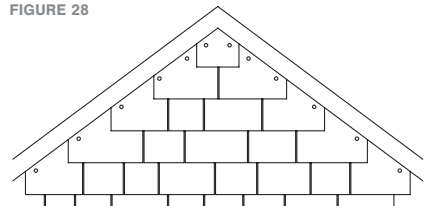


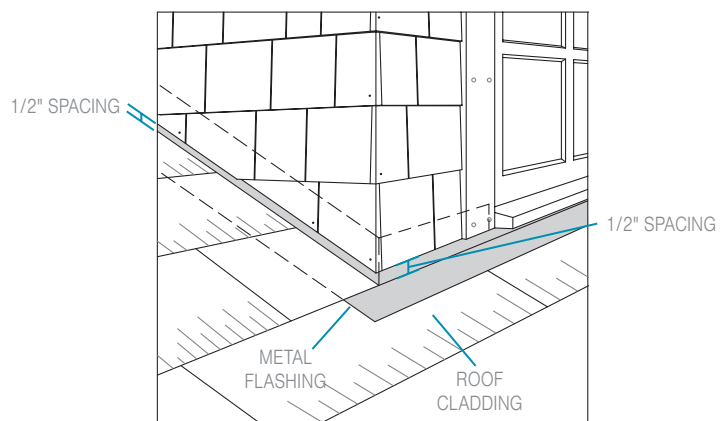
FIGURE 28



## 14. DORMER/ROOF JUNCTION FINISH DETAILS

The shingle must be spaced at least 1/2" when it ends adjacent to the roof surface (or according to the building code). The spacing is necessary to properly drain water and prevent the build-up of ice against the shingle siding.

FIGURE 29



## 15. MAINTENANCE

As with all sidings, dirt build-up can occur; this can be due to a number of factors such as surrounding vegetation, dust, or air pollution. Periodic cleaning may be required. Clean the dirt off of the siding using a gentle water spray from a standard low-pressure garden hose (under 100 psi). In rare instances where the dirt is not removed with a simple spray of water, you can gently scrub the surface using a soft brush and non-abrasive laundry detergent, or dishwasher detergent diluted as follows: 1/3 cup detergent

to 0.8 gallons of water. Because they produce suds, dish detergents are not recommended.

Rinse gently with a low-pressure garden hose (less than 100 psi). **Do not use a pressure washer.**

See the [Maibec Sidings Maintenance Guide](https://maibec.com/us/support) for more details at [maibec.com/us/support](https://maibec.com/us/support).

 Drawings not to scale.

**IMPORTANT: COMPLIANCE WITH MAIBEC'S INSTALLATION, STORAGE, AND MAINTENANCE REQUIREMENTS, AND WITH ALL APPLICABLE BUILDING CODES IS MANDATORY. PROBLEMS CAUSED BY FAILURE TO COMPLY WITH THESE REQUIREMENTS AND CODES MAY NOT BE COVERED BY THE APPLICABLE WARRANTIES.**