



# Installation Guide Aluminum Siding



## Architectural Aluminum

From Nature to Architecture

# Installation Guide Aluminum Siding

Read this entire guide before installing your siding. For proper installation, you must understand and follow all requirements and steps correctly. **DOWNLOAD THE LATEST VERSION ONLINE AT [ALU.MAIBEC.COM](http://ALU.MAIBEC.COM).** For any questions, please contact Maibec's technical service 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.**

## IMPORTANT NOTES

- To avoid any damage to your product, it must be stored flat and dry. Do not store in a humid environment.
- Use stainless steel screws #8 every 16". [FIGURE 1]
- Aluminum undergoes expansion and contraction due to temperature variation. Do not over tighten the screw, leave 1/16" of space between the fastener head and the plank and screw in the center of the slot. [FIGURE 1]
- Always use a piece of wood to "snap" the cap on the base of the accessories. You must never directly hammer the aluminum, as you may damage the trim or its finish. [FIGURE 2]
- When installing the siding on steel bars (Z-Bar), there must be a membrane on the Z-Bar so that the aluminum is not in contact with the steel.
- A high quality waterproofing membrane must be installed on the wall to insure a complete waterproof installation. [FIGURE 3]
- When cutting siding and accessories, always use a compound miter saw or small table saw equipped with 80T - 100T non-ferrous metal cutting blade.\*
  - \* 96T blades are recommended for end-to-end board cutting (step 11).
- Use appropriate eye and ear protection when cutting metal siding.

FIGURE 1

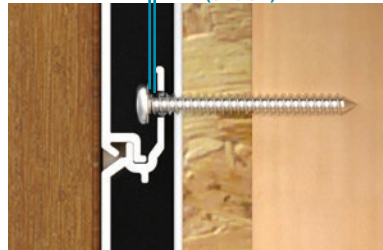


FIGURE 2



FIGURE 3



FIGURE 4



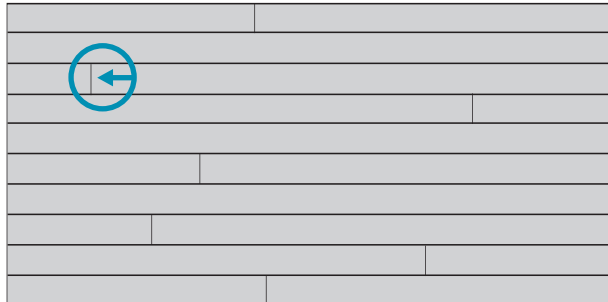
## BEFORE YOU BEGIN INSTALLATION



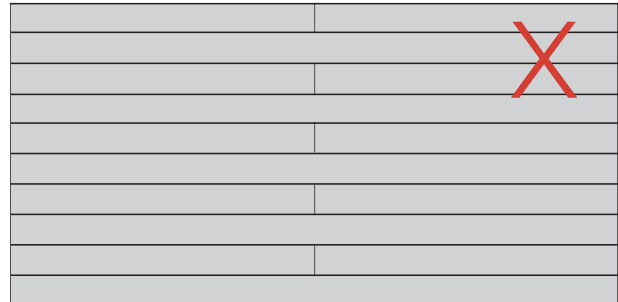
**SPECIAL INSTRUCTIONS.** TO ACHIEVE THE BEST POSSIBLE RESULT AND KEEP THE NATURAL LOOK OF THE PRINTED PATTERN, PLEASE FOLLOW THE BELOW RECOMMANDATIONS.

### STAGGERING

Planks must be staggered randomly in order to prevent repeating printed features from forming unwanted patterns throughout the installation.



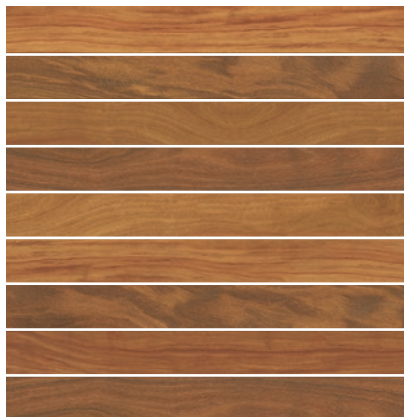
For optimal look and final result, spread the butt joints along the wall or use a trim to harmonize the design.



Avoid lining up seams to ensure a proper random and natural look of the printed pattern.

### PATTERN DISTRIBUTION

All textures are printed using a minimum of 9 scanned images of various wood planks. Our exclusive digital printing process offers stunning images of different planks in order to avoid repetition.



Note the 9 repeating faces of Maibec Architectural Aluminum cladding.

Frequently step back to verify that there is no repetition of 2 boards close to one another.

Unique elements like knots and wood grain pattern should not line up between rows.



Above, a random assembly of 9 different planks with a 16-foot section.

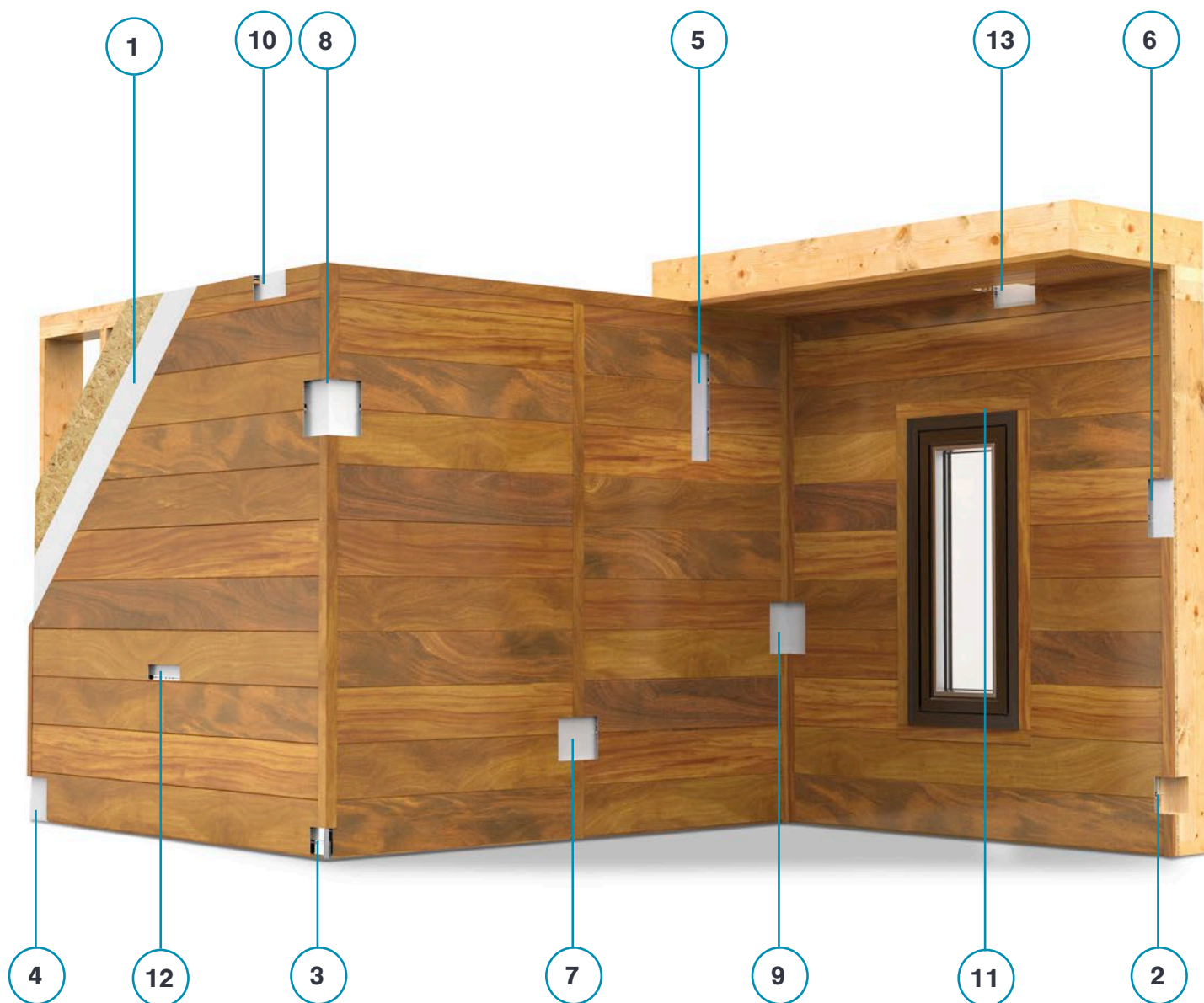
Note that the staggering of the planks prevents features such as knots from aligning.



The boards marked with an X should be swapped for other faces.



## HORIZONTAL INSTALLATION STEPS



# Horizontal installation steps

## 1. WATERPROOFING MEMBRANE

A properly installed high quality waterproofing membrane is essential for keeping the building dry.



## 2. TO START

Install the base of the J-Trim, base of the H-Trim and base of the outside corner first.

Screw through the base every 16".

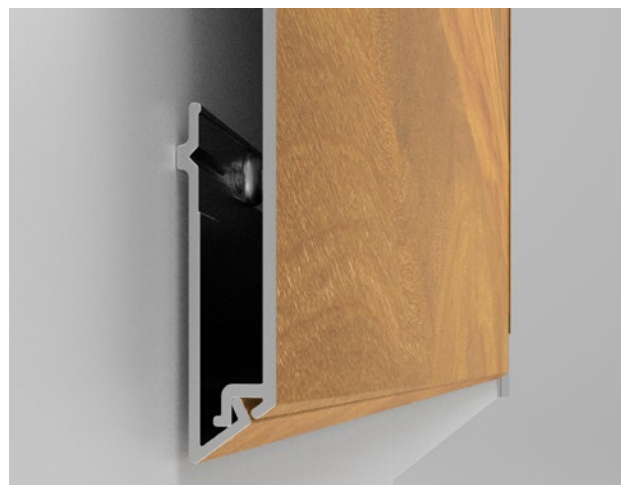


## 3. STARTER STRIP

Install the starter strip as shown and keep 3/16" on both ends for expansion and contraction (see image above).

Make sure the starter strip is leveled.

A minimum 1" stand-off from the ground must be maintained at all times.



Horizontal installation steps (cont'd)

## 4. PLANKS

The planks must be inserted all the way into the previously installed plank before screwing. Remove any debris present in the the lower plank if necessary.



## 5. J-TRIM

Keep 3/16" between the trim and the plank to allow expansion and contraction.

During installation of trim J-Trim Cap, the installer must cut 1/4" (6.3 mm) off each end of the piece and cover any raw aluminum finish with a color-matching touch-up pen. Refer to page 2 for appropriate blade to use with aluminum.



## 6. H-TRIM

Keep 3/16" between the trim and the plank to allow expansion and contraction.

During installation of trim H-Trim Cap, the installer must cut 1/4" (6.3 mm) off each end of the piece and cover any raw aluminum finish with a color-matching touch-up pen. Refer to page 3 for appropriate blade to use with aluminum.





Horizontal installation steps (cont'd)

## 7. OUTSIDE CORNER (OSC)

Keep 3/16" between the outside corner and the plank to allow expansion and contraction.

During installation of Outside Corner Cap, the installer must cut 1/4" (6.3 mm) off each end of the piece and cover any raw aluminum finish with a color-matching touch-up pen. Refer to page 2 for appropriate blade to use with aluminum.



## 8. INSIDE CORNER

To make an inside corner, finish the first wall with J-Trim 1 3/4" and start the adjacent wall with J-Trim 1".

Keep 3/16" between the trims and the planks to allow expansion and contraction.

During installation of trim J-Trim Cap, the installer must cut 1/4" (6.3 mm) off each end of the piece and cover any raw aluminum finish with a color-matching touch-up pen. Refer to page 3 for appropriate blade to use with aluminum.



### INSIDE CORNER (ALTERNATE FINISH)

Inside corners can also be finished with planks running up to the adjacent wall and cut 3/16" short to allow for expansion and contraction.

Start the adjacent wall with J-Trim 1".



Horizontal installation steps (cont'd)

## 9. LAST ROW

On the last row use J-Trim 1" or J-Trim 1 3/4" as shown.

Install a small 1/2" thick spacer between J-Trim base and plank to avoid movement on the last row.

Leave a 3/16" gap between the molding in the last row and those at both ends of the wall to allow for expansion and contraction.



## 10. WINDOW

For a window or a door, simply use J-Trim 1" or J-Trim 1 3/4" as shown.





Horizontal installation steps (cont'd)

## 11. ADJACENT PLANKS

It is possible to install two planks without using an H-Trim. In that case, start by cutting 1/4" (6.3 mm) off both planks to assure a clean 90° cut. Lock both ends at the junction by screwing tightly through the aluminum. Screw remaining of plank every 16" using the slots.

To achieve a perfect butt-joint, use the touch-up pen supplied by Maibec directly on the aluminum of each plank.

Installing more than two consecutive planks requires an H-Trim (Step 6), in order to allow for the expansion and contraction of the aluminum.

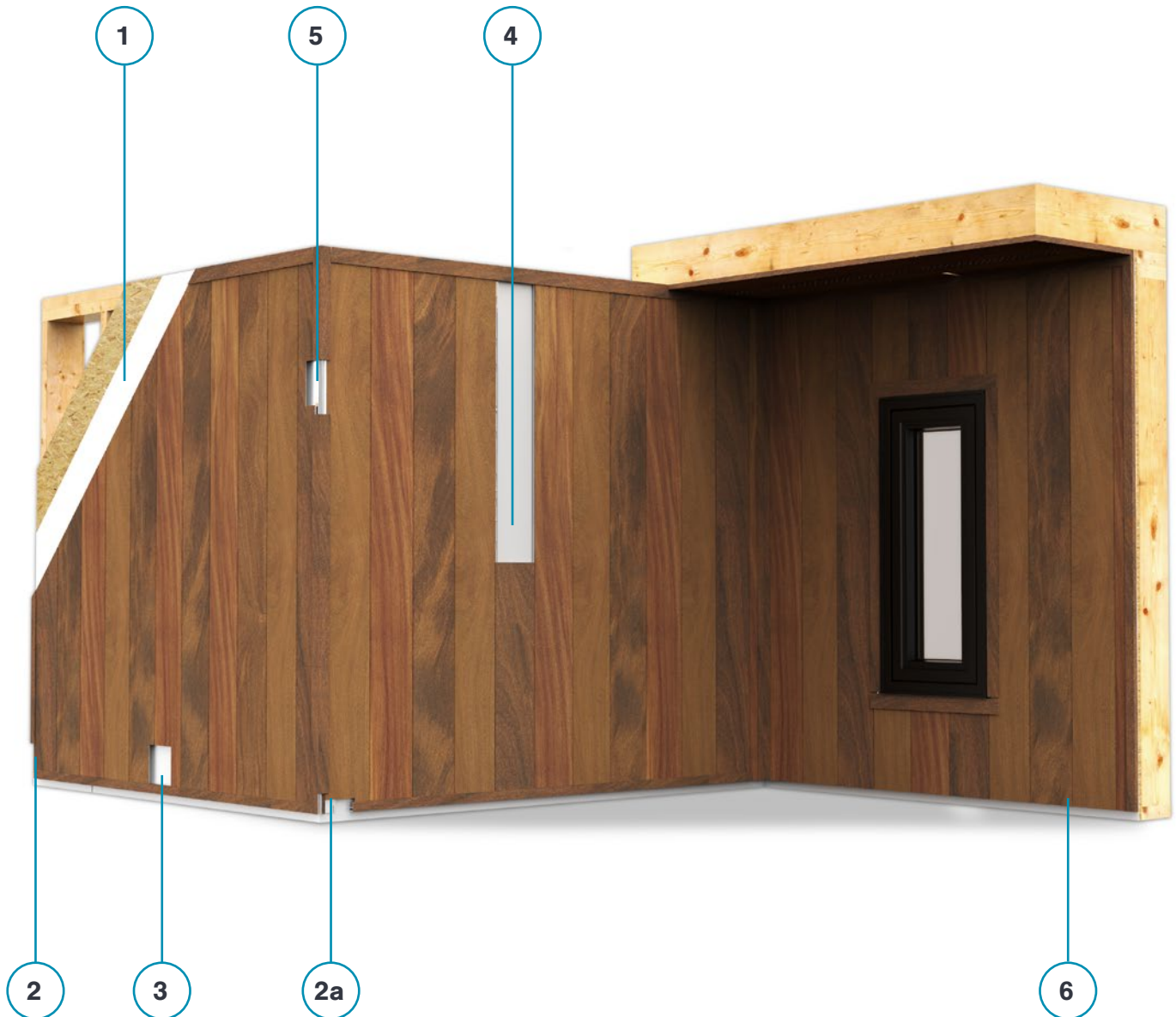


## 12. SOFFIT

The plank can be used as a soffit. The junction from the wall to the soffit is done as an inside corner. (Step 8.)



## VERTICAL INSTALLATION STEPS



Refer to page 6 for J-Trim and H-Trim, page 7 for Outside corner and Inside corner and page 8 for Windows.

# Vertical installation steps

## 1. WATERPROOFING MEMBRANE

A properly installed high quality waterproofing membrane is essential for keeping the building dry.



## 2. STARTER - BASE SECTION

The first plank can be inserted into a J-Trim running vertically. Alternatively, a starter-strip can be installed into the J-Trim for the first plank to be securely fastened. (See step 5)

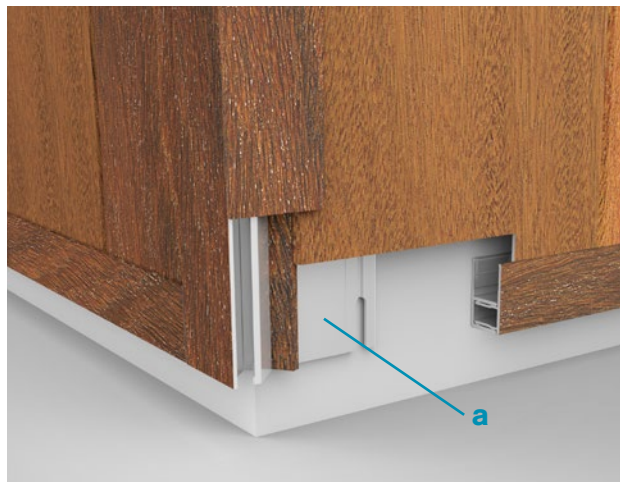
The base section is comprised of another J-Trim running horizontally. Install both base and cap before planks for easier drainage preparation.

Always keep 3/16" at both ends of planks and the J-Trims to allow for expansion and contraction.



### STARTER - ALTERNATE INSTALLATION

A starter-strip (a) can be inserted into a vertical J-Trim or Outside Corner (as shown). This installation will provide a securely fastened starter plank.





Vertical installation steps (cont'd)

### 3. WATER DRAINAGE HOLES

To allow for proper water drainage, 1/4" wide holes must be pierced into the bottom J-Trim base and cap at 16" intervals.

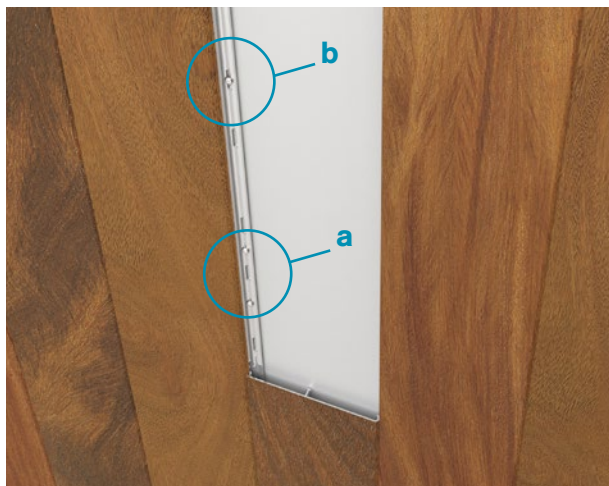
Holes should be pierced with J-Trim base and cap tightly fitted together, but not completely snapped, before installing on the wall. After piercing holes, separate the two J-Trim pieces and install the base on the wall. After installing planks, the J-Trim cap will be snapped onto the base, aligning holes previously pierced.



### 4. SET SCREWS

When fastening planks, use two (2) set screws around the middle of a plank to avoid planks sliding down (a).

Set screws must be inserted directly in the aluminum. Other screws must be inserted into the oblong holes (b).



### 5. PANEL END - LAST PLANK

The last plank installed will likely need to be ripped before installation. Install a small 1/2" thick spacer between Trim base and plank to avoid movement on the last row.

Structural adhesive can be used between spacer and aluminum plank to secure installation and limit movement.



Vertical installation steps (cont'd)

## 6. BASE - ALTERNATIVE INSTALLATION

The base of walls can be installed without an additional J-Trim. Great care must be taken to assure an aesthetic finish, with planks neatly cut and installed at the same height. A minimum 1" stand-off from the ground must be maintained at all times.

Install a ventilated antirodent trim underneath the cladding to prevent any intrusion.



# DAMAGED PLANK REPLACEMENT

## 1. CUTTING DAMAGED PLANK

Cut damaged plank with a circular saw equipped with metal cutting blade. Cut approximately 1" from the joint.

Use precaution as to avoid damaging superior plank when cutting.



## 2. REMOVING DAMAGED PLANK

Remove the lower part of the damaged plank by pulling outwards and upwards.



## 3. CUTTING SCREWS

The top part of the damaged plank is still fastened to the wall with screws. Using a cutting tool, cut the screws between the plank and the wall.

If the weather barrier is damaged by the cutting blade, make sure to properly repair it before moving on to the next steps.

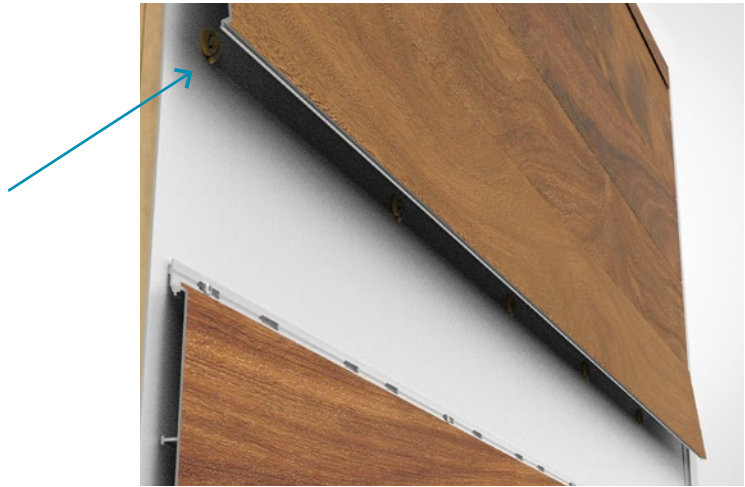




Plank replacement (cont'd)

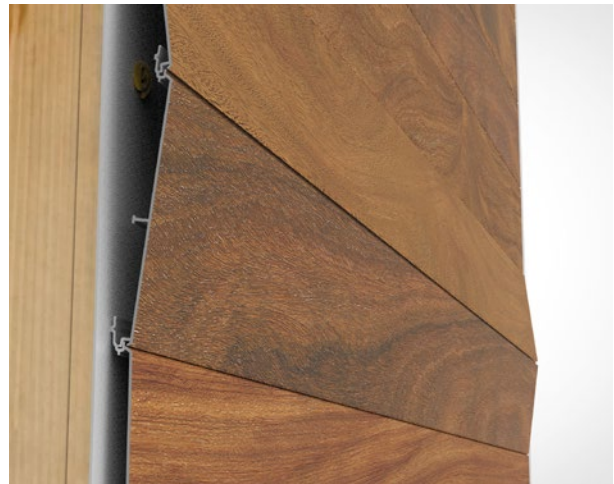
#### 4. FASTENING NEW PLANK

The new replacement plank will be fastened to the wall with structural adhesive. Pull the top plank outward and apply adhesive at approximately 12-16 inches on center.



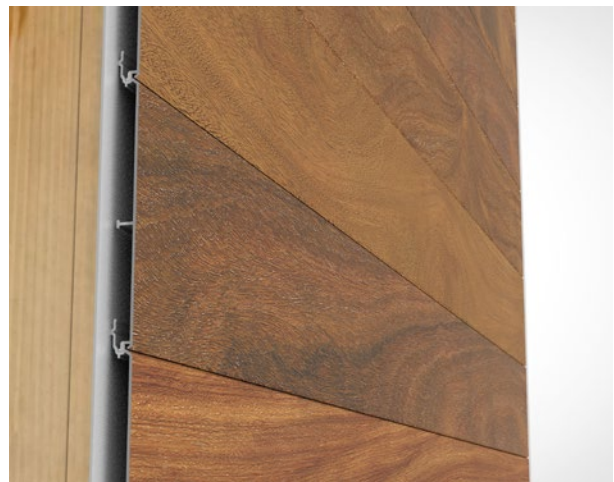
#### 5. INSERTING NEW PLANK

Insert the replacement plank into the top plank first. Then, by pulling both planks outwards, insert the lower-part of the replacement plank into the bottom plank.



#### 6. FINISHING INSTALLATION

Finish the replacement by pushing both planks up against the wall. The new plank will be embedded into structural adhesive for a permanent installation.



## This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

