



Lamboo® Titan™ Clip Rain Screen System™

Vertical Wood Siding Installation Guidelines using Titan™ Rain Screen Clip on Plywood or OSB

Before starting your Lamboo Rain Screen installation, check that these important items have been done properly:

Pre-Check 1 – Make sure your structural sheathing has been attached properly to the framed wall system per manufacturer’s instructions and local building codes. Plywood or Oriented Strand Board (OSB) may be used. The panel thickness should be rated for structural application and must be a minimum of 7/16” thick. Plywood is typically stiffer and stronger than OSB. Thicker plywood or OSB makes a stronger wall and has greater holding strength of the Lamboo® Titan™ screw.

Note Foam and gypsum boards are not structural panels. (Installation of the Climate-Shield Rain Screen System over non-structural panels is possible – refer to Lamboo Attachment Channels and alternate installation techniques)*

Pre-Check 2 – Make sure the drainage plane material has been properly installed. Use the appropriate AWB (Air and Water Barrier) or WRB (Weather Resistant Barriers) as specified by the architect or designer. There are many products available to address requirements of the exterior wall in your climate zone.

Pre-Check 3 – All windows and exterior doors should now be installed properly. Check to ensure that the installation (and flashing) instructions from the door and window manufacturers were properly followed.

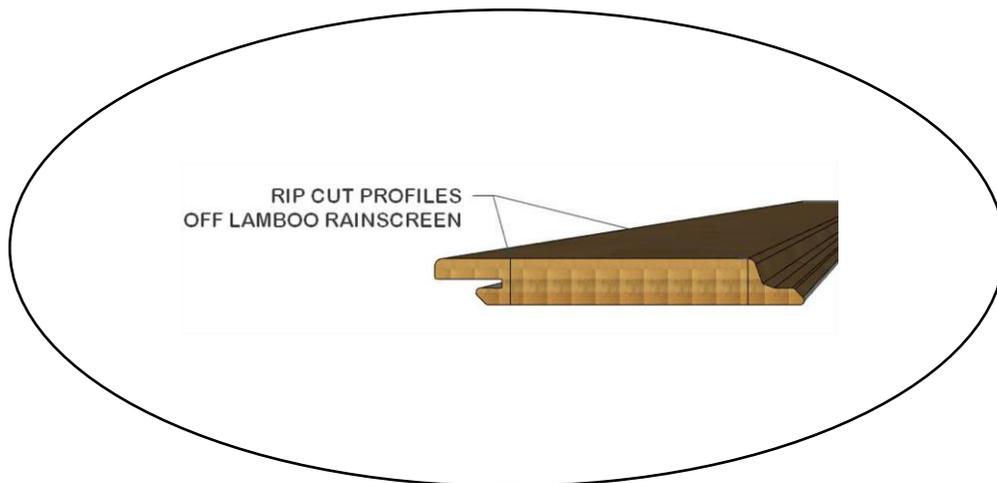
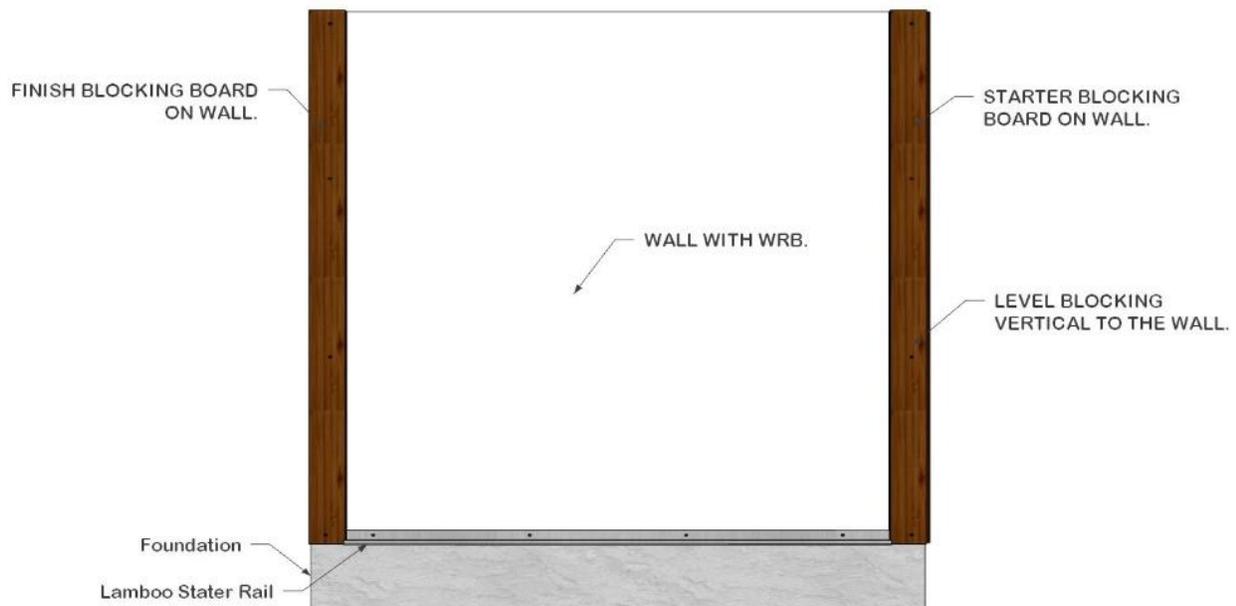
Note Window and door manufacturer’s installation instructions always take precedent over these guidelines.*

Lamboo® Rainscreen™ Vertical Wood Rain Screen Siding Installation Guidelines Titan™ Rain Screen Clip over Plywood or OSB

Step 1 – Proper wood acclimation is imperative. Before starting any exterior wood installation, *always* make sure your Lamboo® has properly acclimated to local site conditions. Failure to properly acclimate Lamboo® on site is a recipe for poor results and dissatisfaction. Typical acclimation time for Lamboo products are a minimum of 48 to 72 hours prior to installation.

Step 2 – Pre-finishing all siding boards prior to assembly is the only way to ensure that all 4 sides are coated evenly. It is highly recommended to coat all Lamboo® siding with a UV inhibiting sealer prior to installation. A UV inhibiting sealer helps the Lamboo® acclimate more slowly and minimizes surface checking and Lamboo® movement. Lamboo typically provides materials pre-finished but if you the customer decides to finish the materials onsite, it is important that all surfaces (edges, faces, slots, etc...) are properly coated. Be sure to follow your stain supplier’s surface prep and coating recommendations.

Step 3 – Install Starter and Finish Vertical Blocking.



DETAIL A:

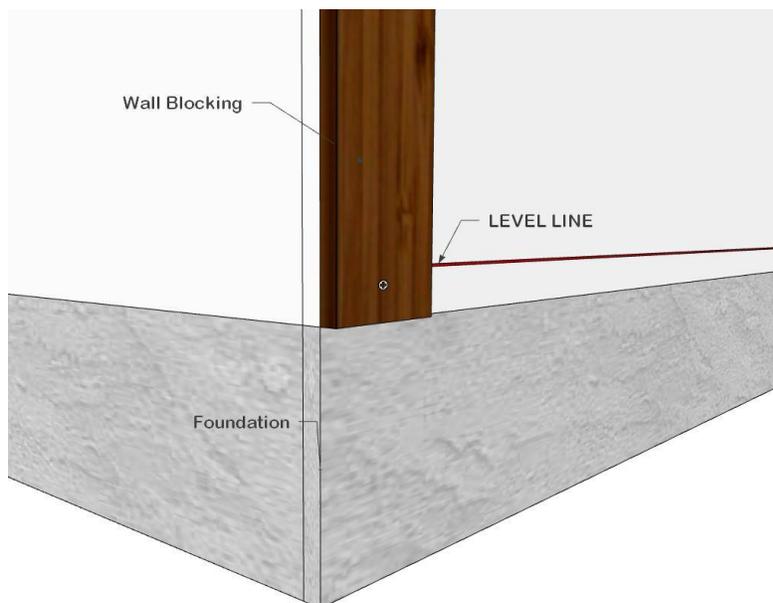
The starter and finish blocking can be made by ripping off the top and bottom profiles on a Lamboo Rainscreen profiled member (See Detail A). The finished width of the board will be approximately 1-1/4" wide but the width can be cut to a desired width in order to fit the rainscreen system properly. One (1) 5" facing rainscreen board should provide you with enough starter block to do one face of a wall. The boards should be leveled vertically to the wall and then fastened with stainless steel fasteners:

IMPORTANT: BE SURE TO FINISH THE CUT EDGES OF THE BOARDS WITH AN END SEALER OR STAIN PROVIDED BY LAMBOO IF LAMBOO PROVIDED PRE-FINISHED MATERIALS.

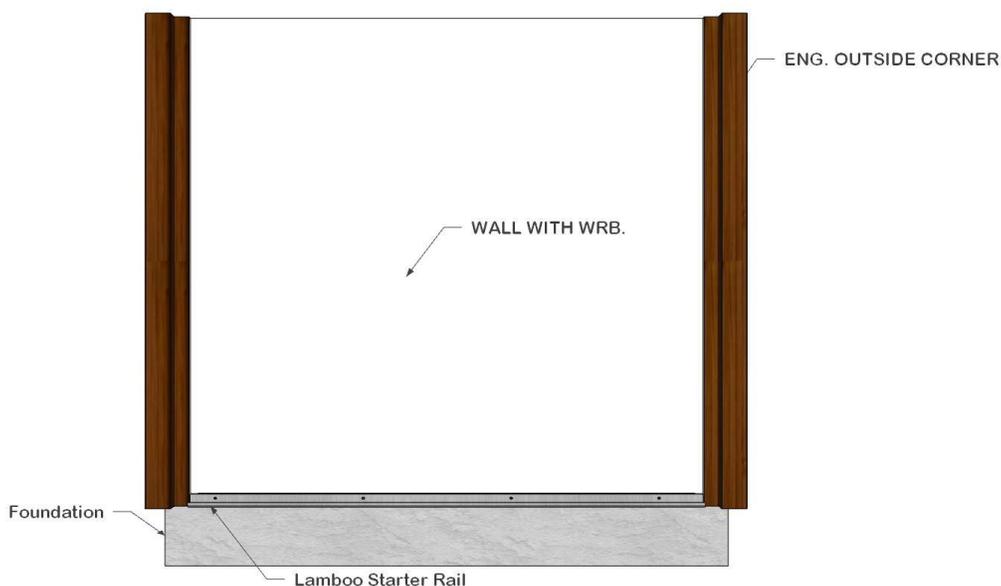


Step 4 – Create a level line for the starter rail on all walls. This can be done with laser lines, or a snapped chalk line. We recommend that you complete this on all walls, to ensure the starter rail level line will be consistent on all sides of the building. This step is critical to a successful siding installation and should be done with accuracy. The level line should be positioned approximately 1-1/2" above the top of the foundation sill.

****Take the time to do this step well, and all your next rows of siding will be properly aligned as you build.***



Step 4 - Install Engineered Corners (Outside or Inside) you have selected (OPTIONAL). Engineered Outside or Inside Corners can be supplied if desired by the customer.



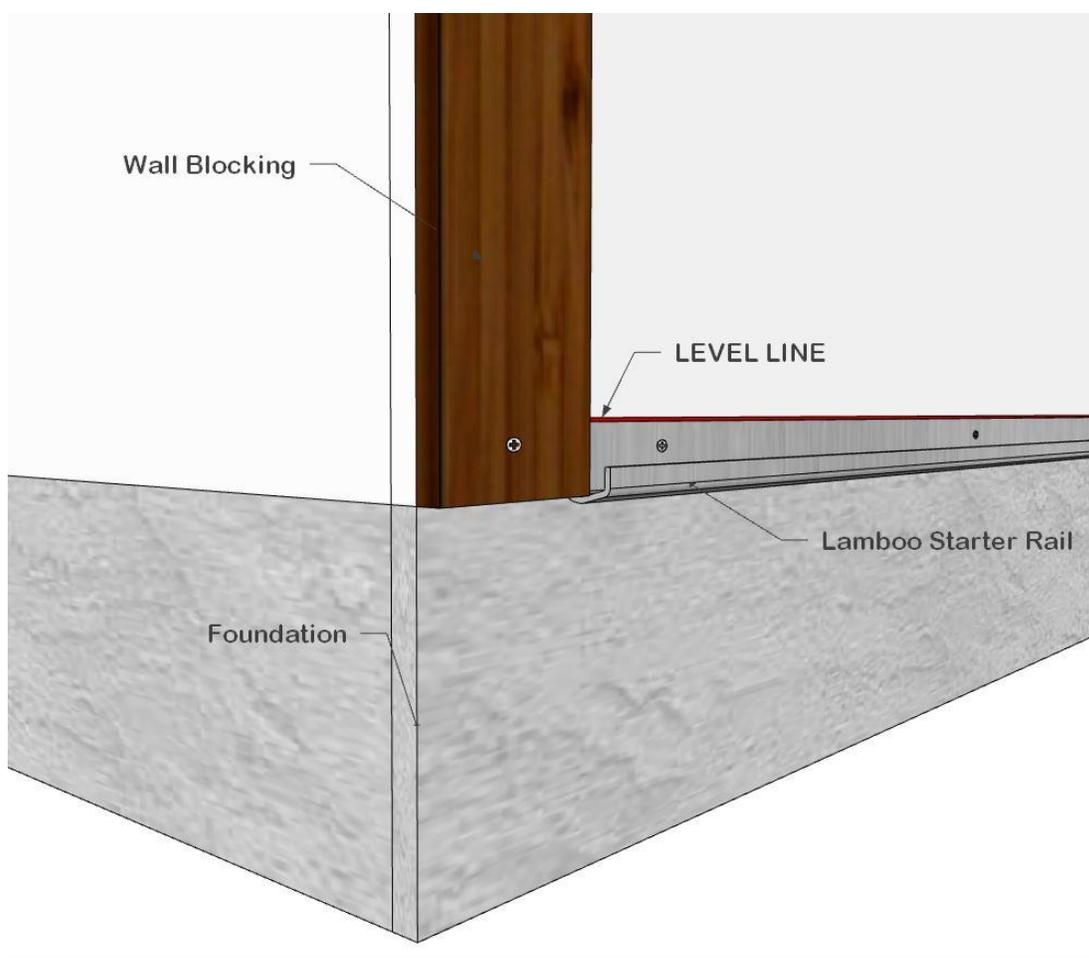
****NOTE: Bottom of Rainscreen should be flush with bottom of Engineered Corners***



**** NOTE: If Engineered Corners are used, starter and finish wall blocking will not be necessary.**

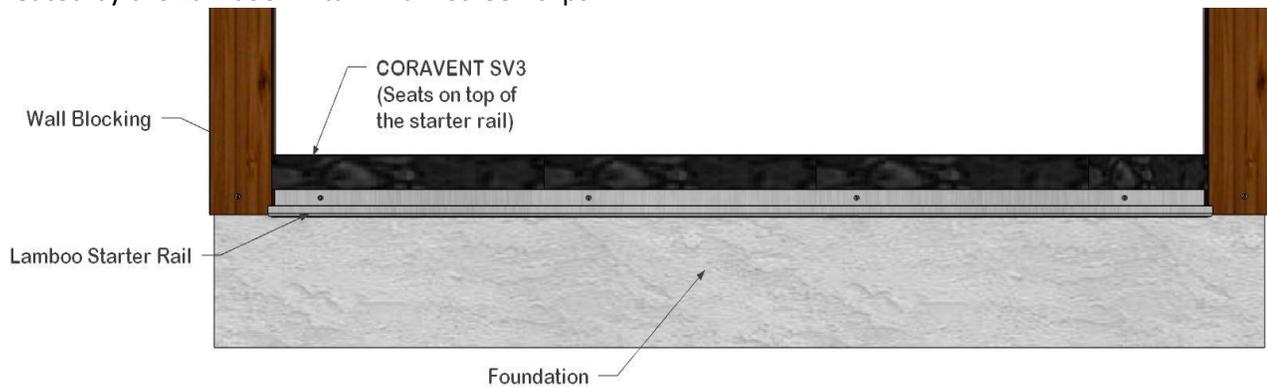
Step 5 – Install your window and door trim. Lamboo offers window and door trim pieces if desired by the customer. Now is the time to install them and put proper flashing in place. Always follow the window and door manufacturer's installation and flashing instructions.

Step 6 – Installing the Starter Rail. To speed up your installation and help provide *the critical level line* to start your vertical siding installation, use the Lamboo Titan™ 8' Starter Rail. The vertical starter rail speeds up installation and provides a continuous strip at the bottom edge of each siding board. The marine grade aluminum starter rail has pre-drilled holes for mounting to the plywood walls and weep holes on the bottom of the rail to allow water drainage.





Step 7 – Install your siding vent system. We suggest installing a siding vent screen system to prevent insects and other unwanted creatures from entering behind the wall cavity from the ground and also allow for proper water drainage of water that may penetrate behind the rainscreen system. Lamboo currently recommends Cor-A-Vent SV3 siding vent system which is 7/16" thick and fills the rain screen wall cavity between the drainage plane created by the Lamboo® Titan™ rain screen clips.

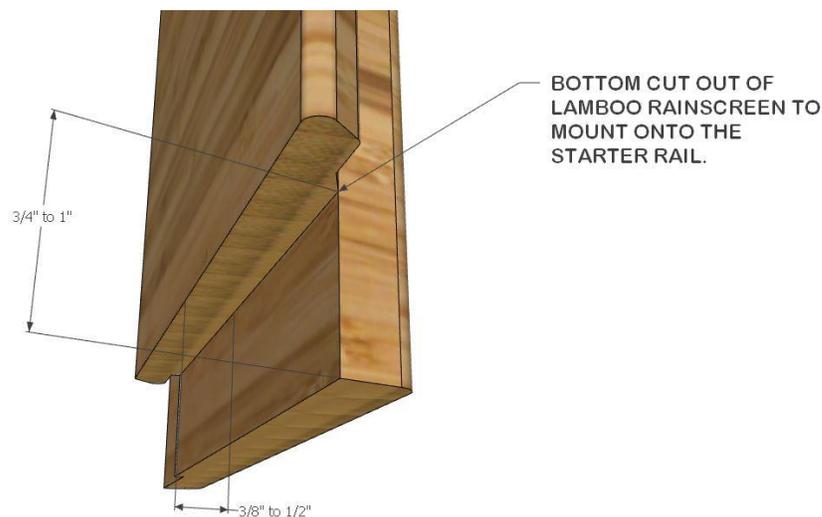


**Note It is also suggested to install the siding vent at the soffit, above door openings and above and below window openings.*

Step 8- Determine where your vertical siding joints will align before installing your first siding board. To avoid ending up with extremely narrow vertical siding boards around doors and windows or at the end of your siding run, you will want to determine the correct width to rip your first siding board.

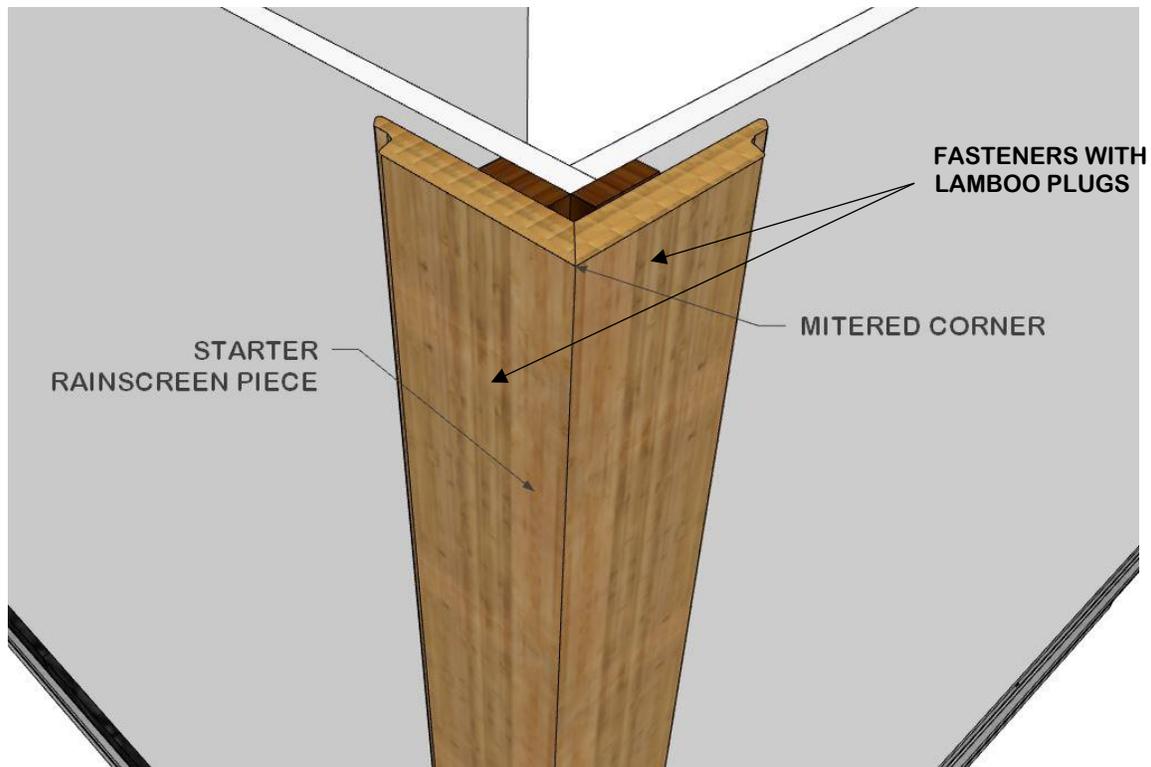
Step 9 - Router notch at the bottom back side of each siding board prior to installation. This will allow the bottom of each siding board to seat properly in the starter rail. You can make this notch anywhere from 3/4" to 1" deep into the board; depending on how much coverage you would like the bottom of the vertical siding board to conceal the starter rail. The slot depth can be anywhere from 3/8" to 1/2".

IMPORTANT: *Cut all slots the same! Cutting slots at different lengths and depths will create an uneven bottom layer.*



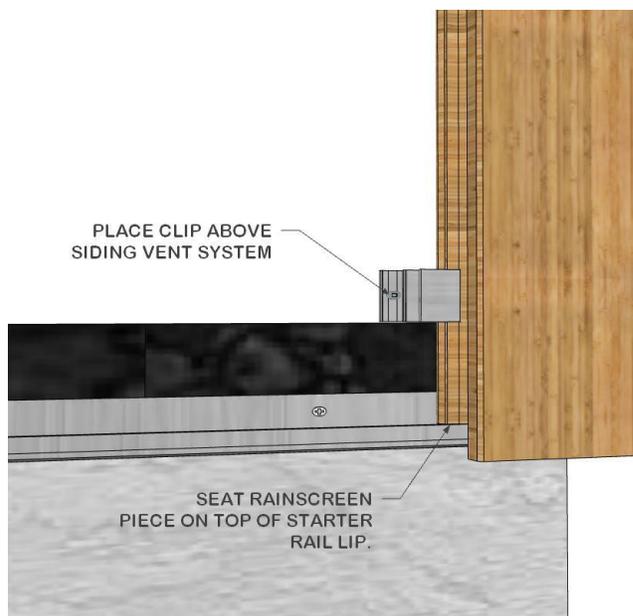


Step 10 – Install First Piece of Lamboo Rainscreen-Vertical Application. The vertical rainscreen system can start from left to right or vice versa. Per this installation guideline, the materials will be installed from the right to left. If the first piece is going to start an outside corner, the bottom profile will need to be mitered (see picture below). Once the rainscreen piece is in position, use stainless steel fasteners to fasten the rainscreen piece to the vertical blocking piece. Position Lamboo Titan Clips starting from top of the Coravent and space the clips vertically every 16" to 20". (NOTE: If the rainscreen system is installed in high wind or hurricane zones, spacing of the clips may need to be closer. Confirm design wind load requirements with local PE).



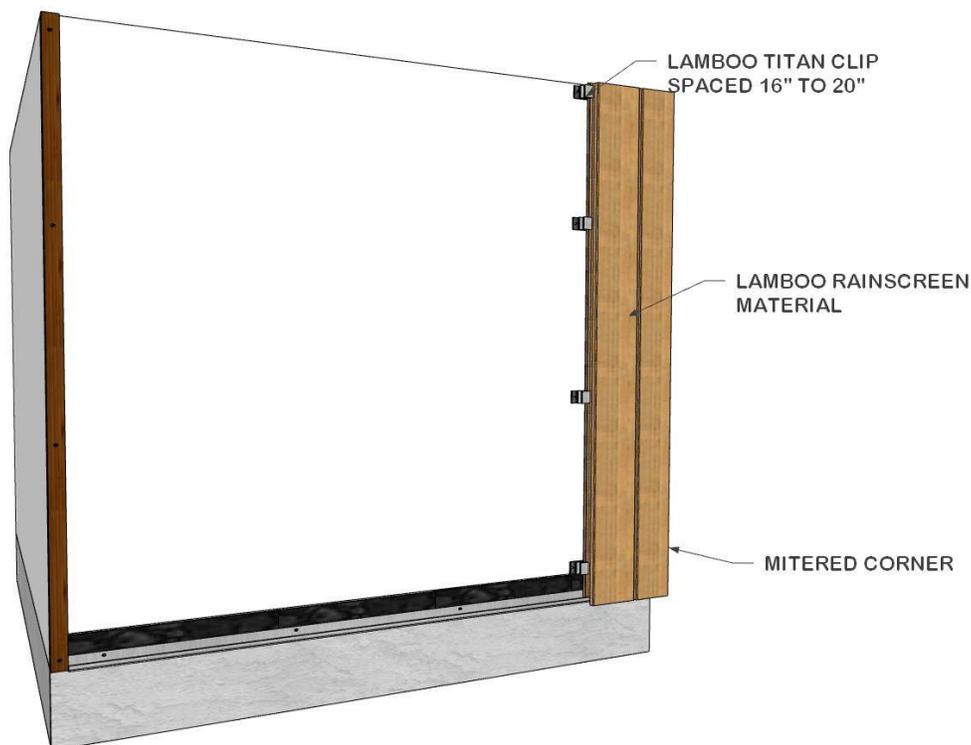
(Miter Detail:)

** NOTE: For typical outside corner conditions, the Lamboo Rainscreen materials are mitered onsite. An 18-gauge brad nail spaced every 24 inches can be used to help secure the corners to keep them stable and in place. It is also recommended that Lamboo Titan Clips are positioned as close to the outside or inside corner to help maintain closure and uniformity of the mitered corners.*



1st Piece Installation:

Step 11 - Repeat the assembly process for each vertical row of siding. Use the Lamboo Titan Clips spaced every 16" to 20" on center (O.C.). As you approach the top of the wall near the soffit, be sure to place the clips as close to the top of the wall as possible to help with stability. If the rainscreen materials are not the length of the vertical height of the wall and another piece needs to be added, simply butt-joint the materials together and use the Titan Clips in between each piece to provide support for the end conditions.





**Important Note – Always apply Anchor Seal or similar end sealer product immediately after cutting any Lamboo® boards. This will help minimize potential end-checking of your siding boards*

Step 12 - Installing the top end of siding. When you reach the soffit (or areas below window openings), it is necessary to trim the top end of the Lamboo® siding to the appropriate length. Always seal the cut ends of Lamboo® immediately with Anchor Seal to minimize end checking of the siding boards. For best results, the rain screen clips need to be installed at the top of the boards and the siding vent installed below the clips.

A trim piece can be used at the top of the rainscreen system if desired when rainscreen does not transition through the soffit.

Thank you again for purchasing the Lamboo® Rainscreen™ System for your project. If you have any further questions that this installation guideline may not answer, please feel free to contact Lamboo and speak to a product specialist. Please contact us via our website at www.lamboo.us or directly by phone at 866-966-2999.