



INSTALLATION GUIDE

Exterior Cladding

Handling

Carbon Smart Wood™ products should be stored in the environment they will be installed, on flat, level surface, elevated off the floor or ground, with adequate support to prevent sagging, stacked uniformly, and remain under cover or covered with a waterproof tarp until ready for installation. Tarp should be loose to enable air flow and acclimation. Direct UV exposure can cause the boards to become lighter in tone. It is good practice to ensure the wood has properly acclimated to local site conditions before installation. We recommend all products to sit on site for 1-2 weeks prior to installation to acclimatize to the moisture of the environment.

Color & Finishing

Thermal modification changes the naturally occurring sugars in the wood resulting in beautiful, rich tones which extend through the full thickness of the material. Since Carbon Smart Wood™ is a natural product and is subject to variations in weight, density, color, and grain. In an exterior environment, unfinished Carbon Smart Wood™ products will fade to gray. This does not impact the performance characteristics of the wood itself. The speed of this graying process depends on the intensity of exposure to environmental elements like the sun and rain combined with the type of application.

For optimal protection, it is advisable to apply an exterior oil-based decking finish. We recommend CUTEK® EXTREME, a high-performance, oil-based wood stabilizer with a unique self-healing effect. Penetrating deeply into wood, CUTEK® Extreme highlights the natural grain and beauty of wood while providing robust and long-lasting protection. Applied as a clear oil will allow wood to naturally silver over time. Mixing in one of the 18 CUTEK® Colortones will help enhance and maintain the natural look of your wood or alter your wood color to meet preferred hues.

Grade, Character, Checks, and Cracks

As Carbon Smart Wood™ is a natural wood product, there may be a variance in grain appearance from board to board. Especially since Carbon Smart Wood™ is salvaged material, there may be more variability than traditional material. All Carbon Smart Wood™ products map to industry grade standards for hardwoods and softwoods. It is also possible to observe some small surface checking and/or hairline cracks in the wood. These instances are a natural occurrence and are not a reason for a claim. Regular application of Cutek Extreme® can help minimize the occurrence of surface hairline cracks.

Care & Maintenance

It is important to ensure the surface of your wood remains clean. Black surface stains can be caused by dirt, debris, pollen and other airborne and microscopic elements resting on the surface of the material. Certain environments provide exceptional growing conditions for mold and fungus, conditions that often fall within, but are not limited to shaded decks or siding. A light sanding or application of a deck cleaner can be used to remove the surface silvering and restore the original wood tones. We do not recommend power washing as it has the potential to damage the wood fibers. The use of a deck brightener product can also help revive and prepare the wood for application of finish. Allow the wood to completely dry before applying a finish with a UV inhibitor (see above).

WUI Compliance

Please consult the local building code in your area for a full list of requirements when installing Carbon Smart Wood™ siding in a WUI (Wildland Urban Interface) zone to ensure your project is WUI compliant. For more information on WUI and requirements please visit [fire.ca.gov](https://www.fire.ca.gov)

Disclaimer

Consult your local building code to ensure your project is installed in accordance with local requirements and consult your local building office to understand permitting requirements. Drawings and schematics used to show where to place screws and nails are for reference purposes only. Safety glasses and a dust mask should always be worn when drilling, sawing, sanding or machining wood that generates wood dust.

Tongue & Groove Installation

All Carbon Smart Wood™ siding products should be installed with proper furring strips and rain screen to allow for necessary airflow. NOTE: Carbon Smart Wood™ tongue & groove siding not secured to proper furring will void the warranty.

We recommend Quarrix ProTect Furring Strips on all Carbon Smart Wood™ siding products. See installation guide below for detailed instructions. The furring should be installed so that the siding can be fastened every 16" OC and the seams break on furring. Seams may require a double furring to ensure there is enough to fasten both pieces of siding properly. If not using Quarrix, marine grade plywood is recommended.

Thermally Modified Siding will expand slightly in the width as it adapts to your specific climate and location. This is a one-time event. Once adapted, the boards will remain stable, but care must be taken during installation to allow for this expansion.

A minimum 2-½" #8 stainless steel trim head screw is recommended to be driven at an angle at the base of the tongue so that it passes through the full thickness of the siding. This is not a completely blind fastening; the head of the screw may be slightly visible in the 1/8" groove of the board. This is a very subtle detail. If installing siding wider than nominal 6" a face fastened screw should be added to the bottom of installed board in addition to the tongue. NOTE: Even if using self tapping screws, Carbon Smart Wood™ recommends pre-drilling to greatly reduce the chance of splitting.

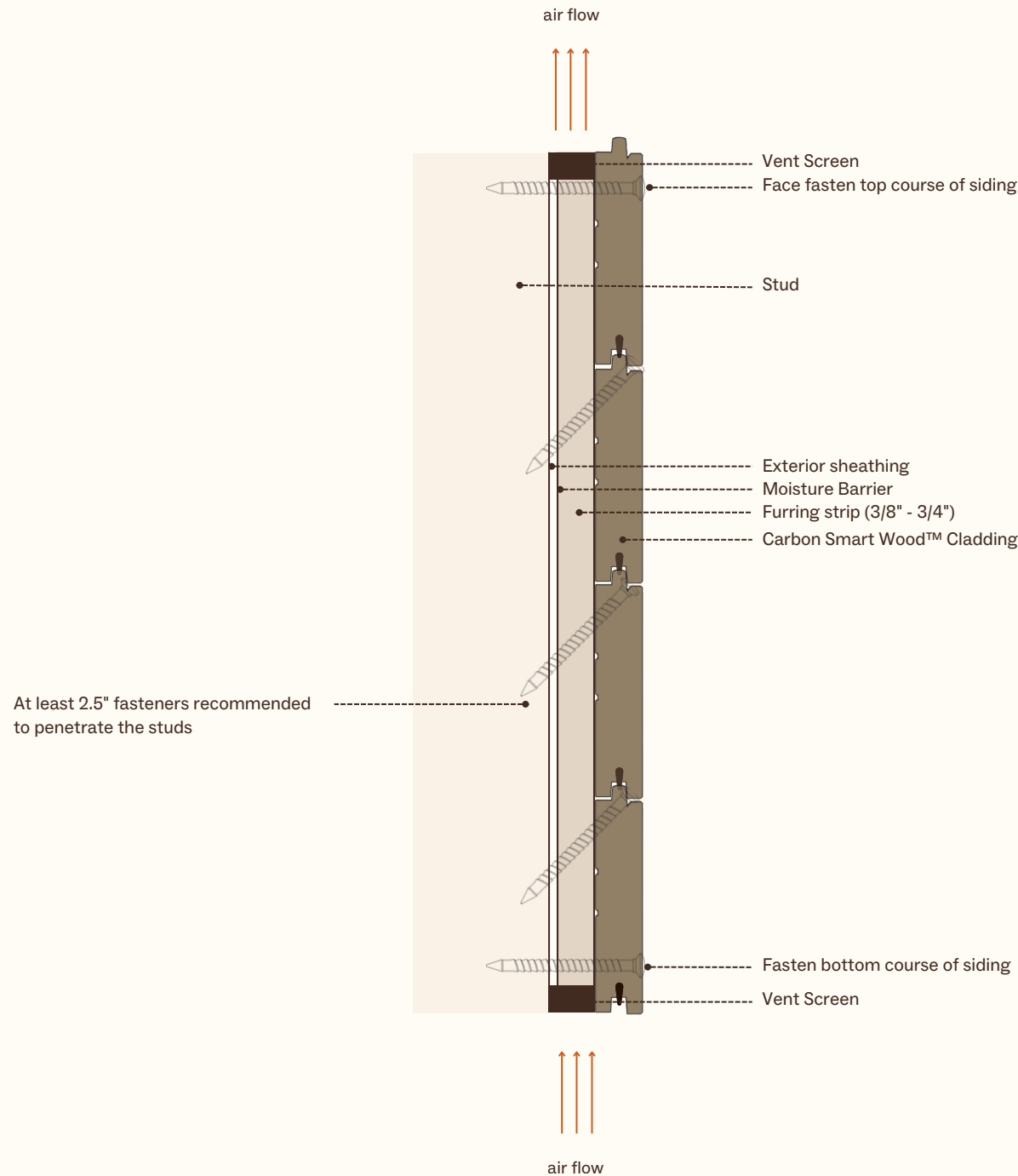
Vertical installation calls for a counter-batten furring method OR Quarrix ProTect Furring Strips. This allows for convection airflow and water drainage to occur behind the siding. Carbon Smart Wood™ ground clearance of at least 12" for all cladding projects. The ventilation gap behind the cladding must at least stay open from below to ensure air circulation. Top and bottom must not be obstructed, leave at least 1/4" of gap from soffit on top or water table on bottom. To avoid splitting, secure fastener a minimum of 3/4" of space from edge of the board.

SIDE VIEW

Standard Tongue & Groove

Horizontal Installation

SIDE VIEW



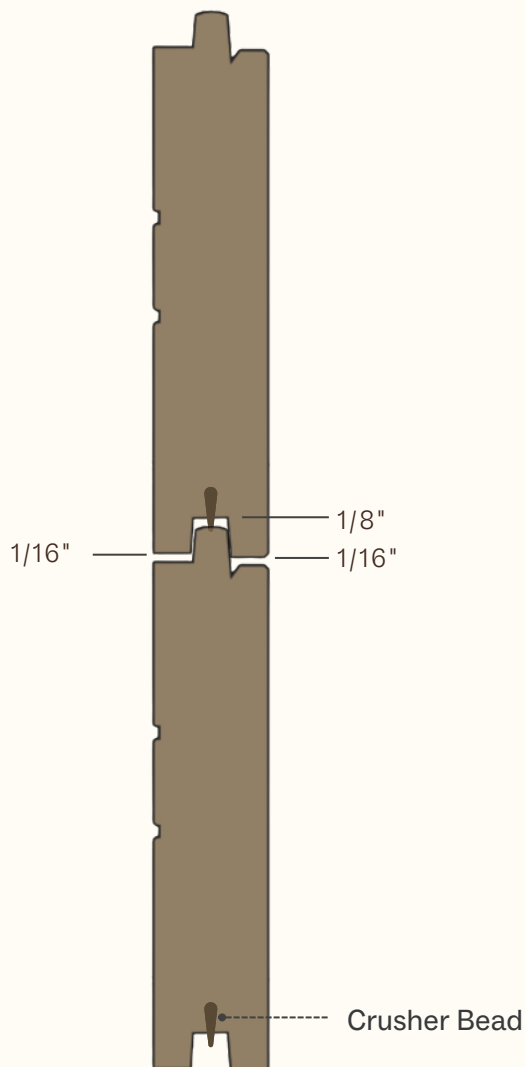
Cladding Spacing

Thermally Modified Siding will expand slightly in the width as it adapts to your specific climate and location. This is a one-time event. Once adapted, the boards will remain stable, but care must be taken during installation to allow for this expansion. Do not use a mallet or hammer to force boards into place. Failure to install with proper gaps may cause siding to buckle during expansion. All Tongue and Groove (with and without gaps) include a crusher bead to provide this gap for expansion.



Crusher Bead

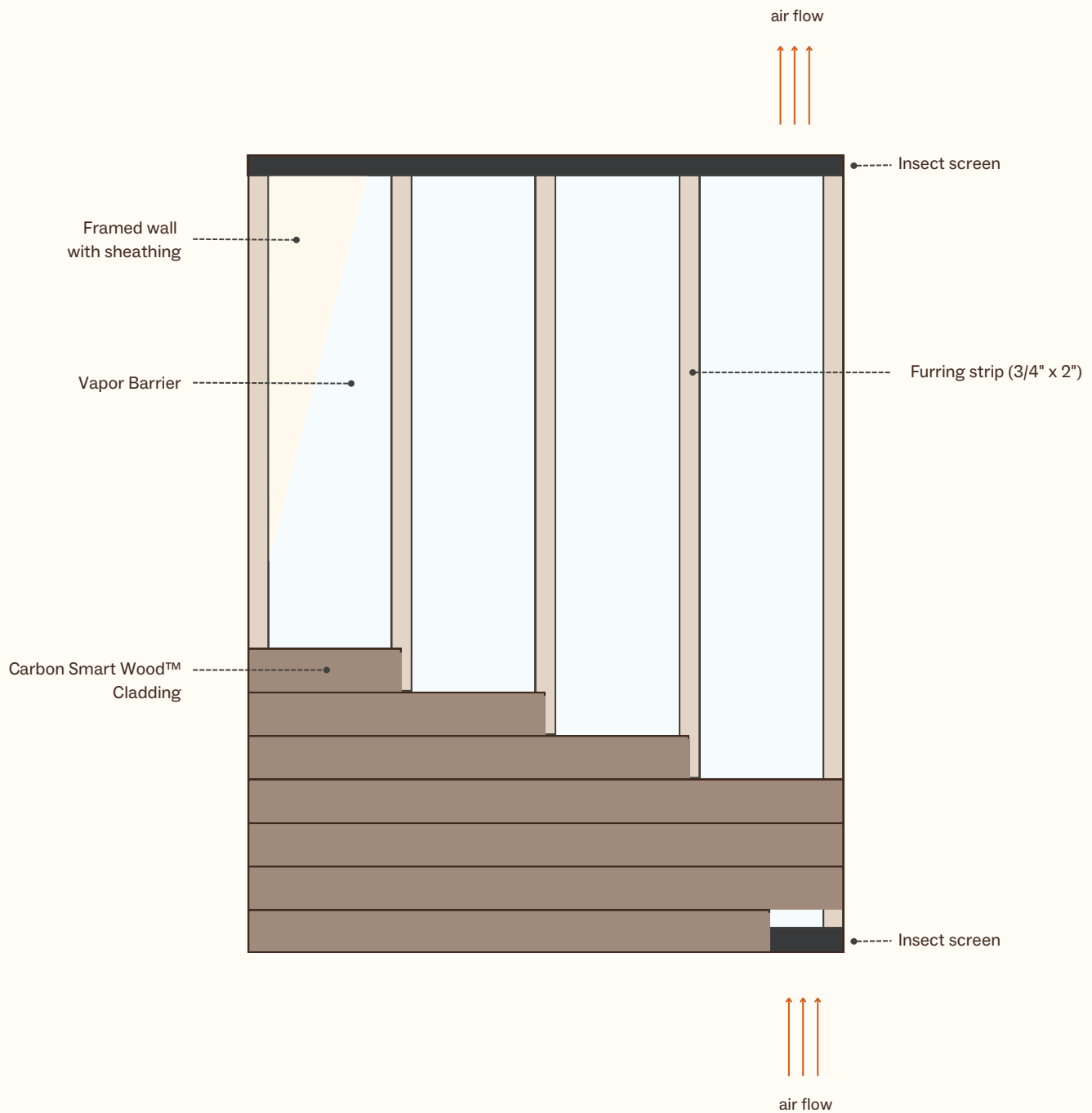
FACE



WOOD FURRING, FRONT VIEW

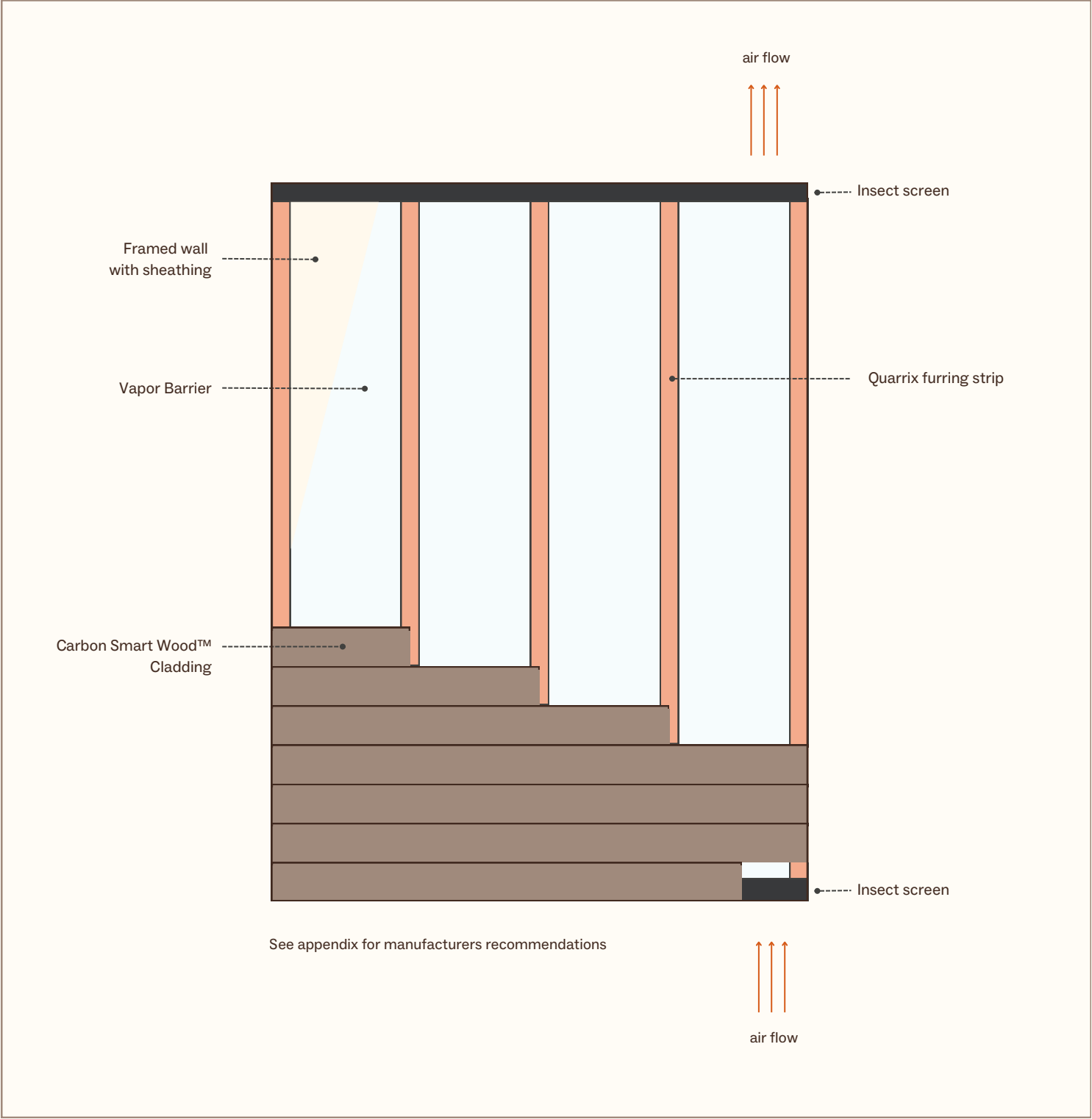
Standard Tongue & Groove

Horizontal Installation



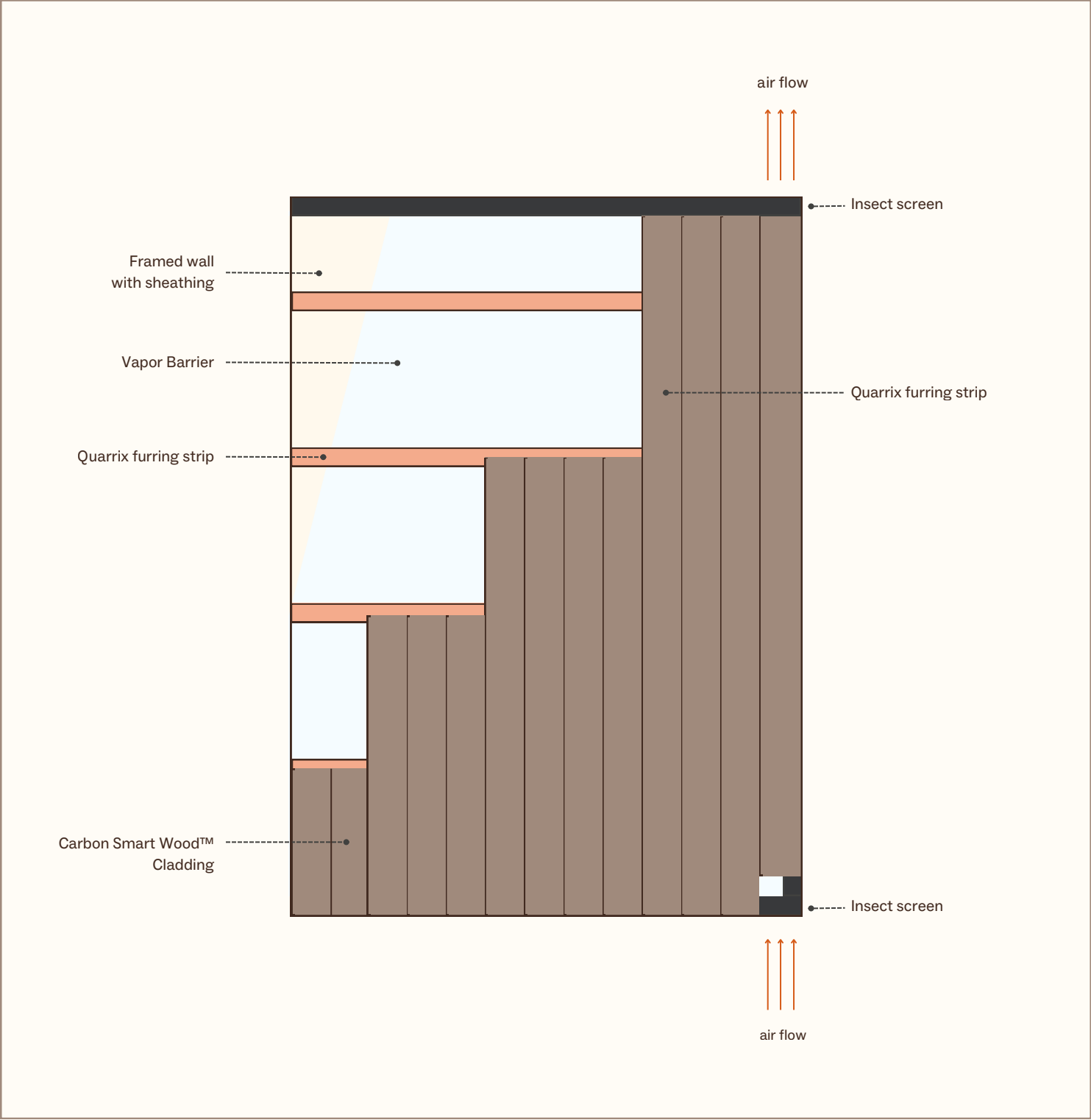
Standard Tongue & Groove

Horizontal Installation



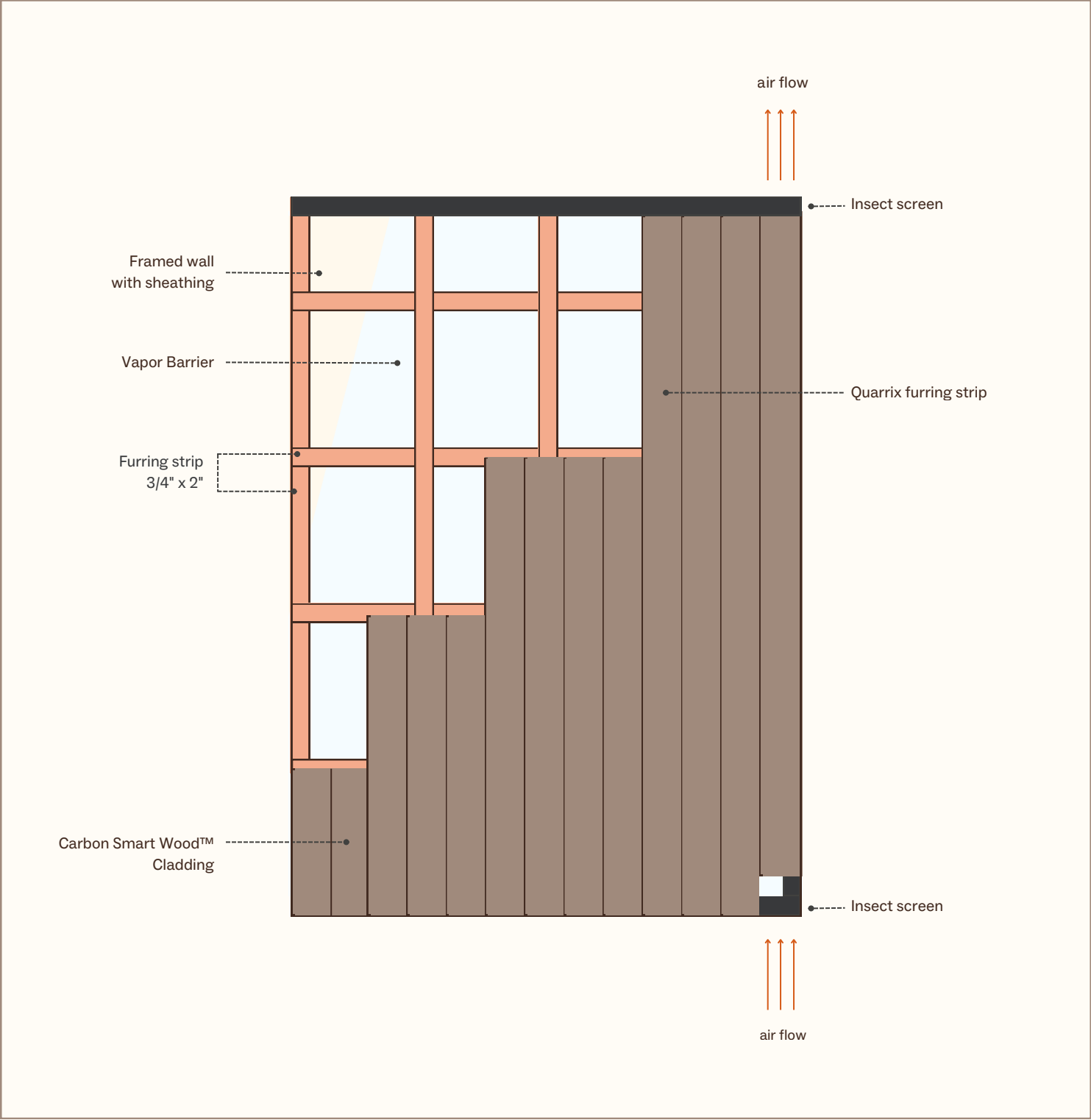
Standard Tongue & Groove

Vertical Installation

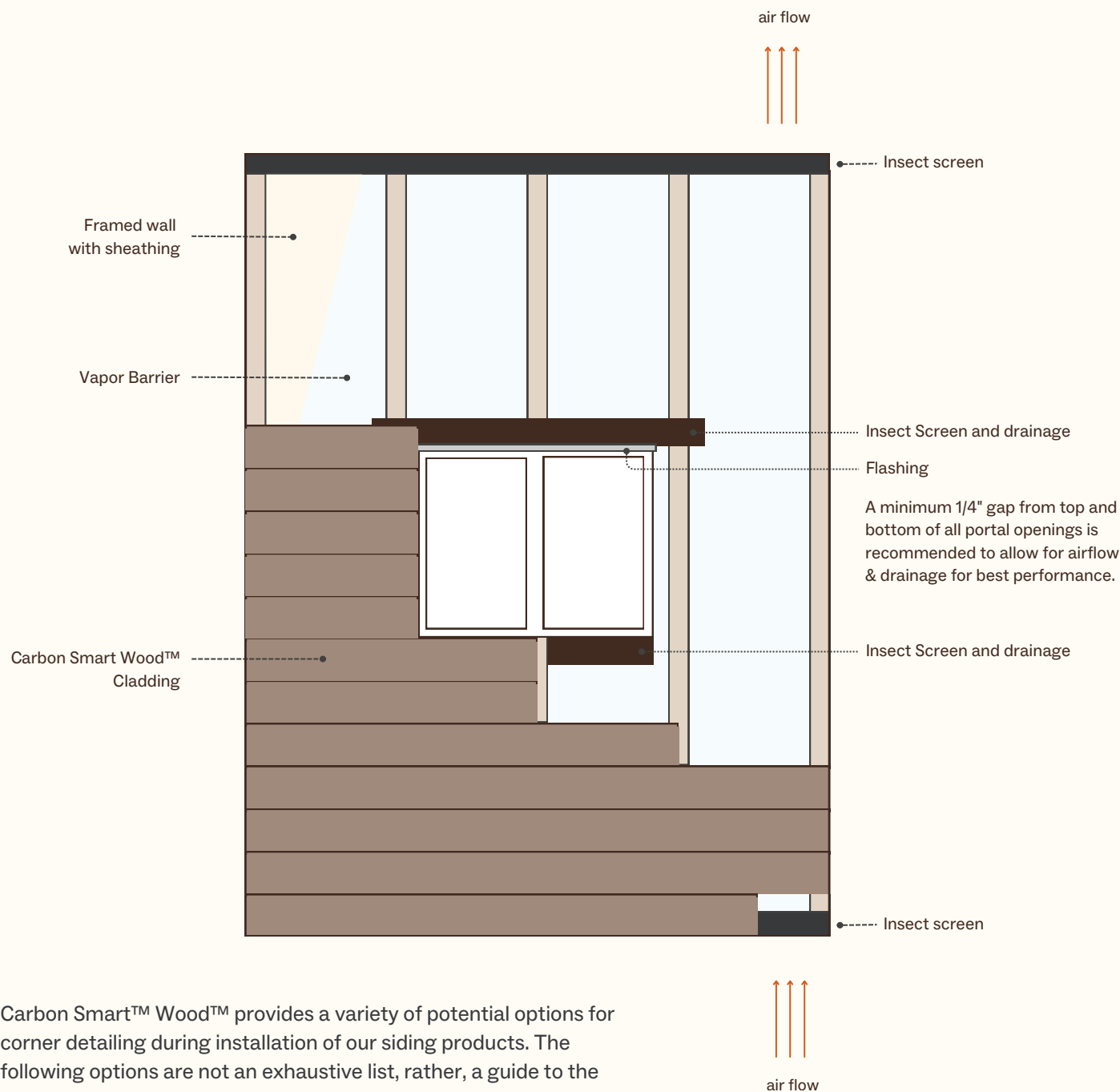


Standard Tongue & Groove

Vertical Installation



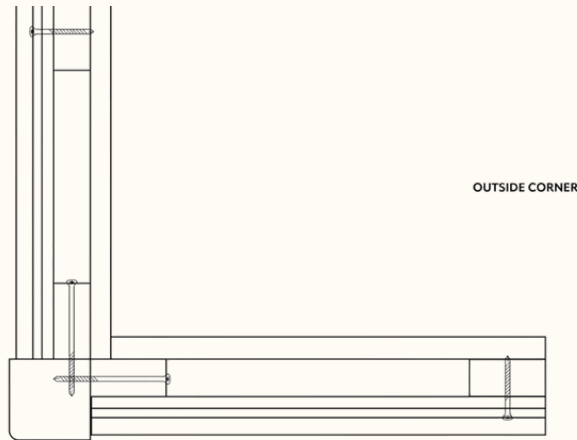
Portal Opening Recommendations



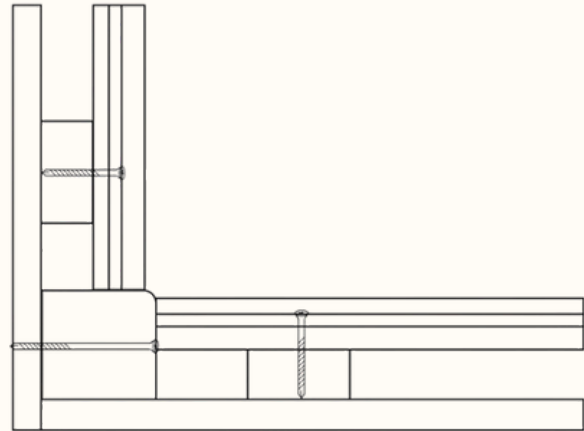
Carbon Smart™ Wood™ provides a variety of potential options for corner detailing during installation of our siding products. The following options are not an exhaustive list, rather, a guide to the potential options available for your consideration

Butting with 5/4 & 2x Material

Corner Detail



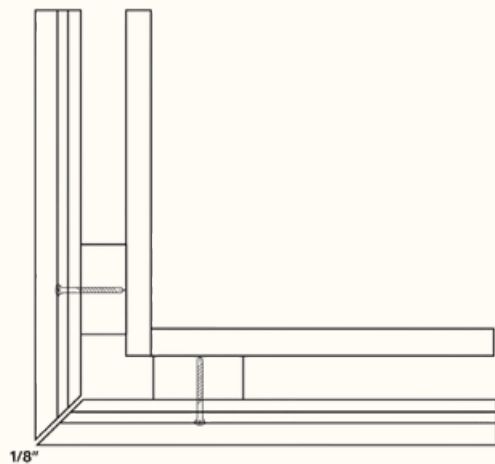
Outside Corner



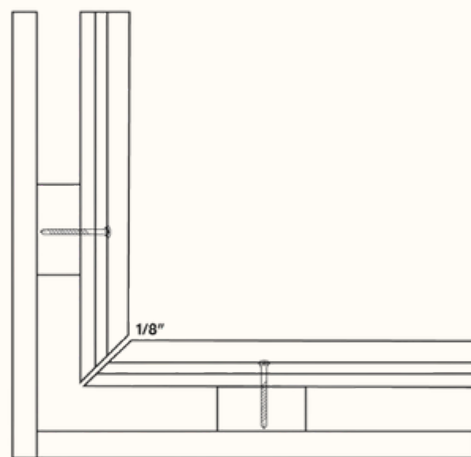
Inside Corner

Miter Gap

Corner Detail

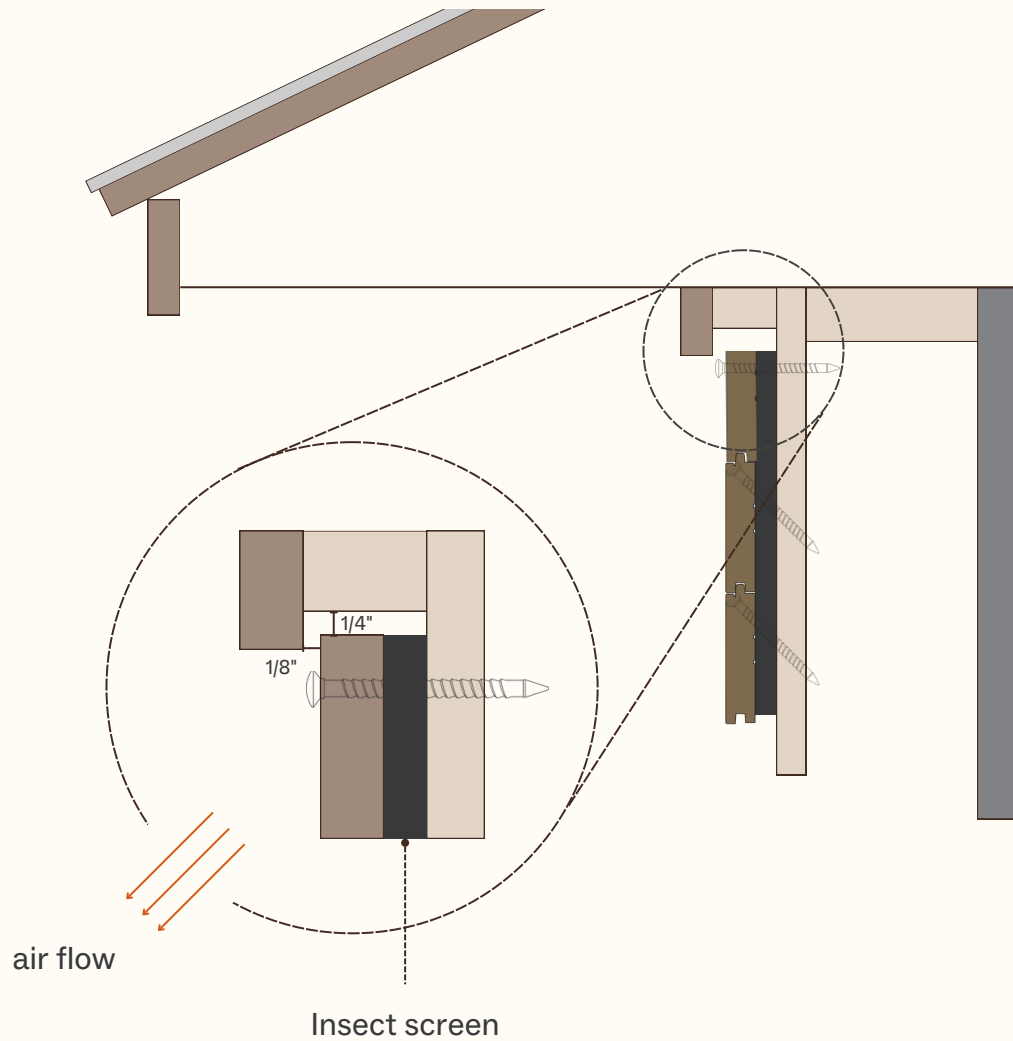


Outside Corner



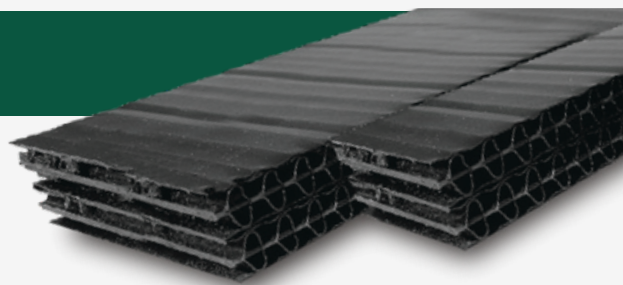
Inside Corner

Soffit Detail



Top & bottom should not be obstructed. Allow for a minimum 1/4" gap from soffit

ProTect FURRING STRIPS



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INSTALLATION INSTRUCTIONS

STEP 1

After installing the water-resistant barrier (WRB), ensure that surfaces are dry and devoid of ridges, warps, or voids. Then, horizontally position the Quarrix ProTect Furring Strip just below the soffit, at the uppermost part of the house wall.

STEP 2

Install furring strip horizontally over the weather barrier and even with the bottom of the sheathing. Install siding starter horizontally over the the bottom furring strip to kick out first course of siding.

STEP 3

Install ProTect Furring Strips every 16" on center vertically using fasteners that penetrate plywood 1/2" (furring strips can be installed horizontally if needed).

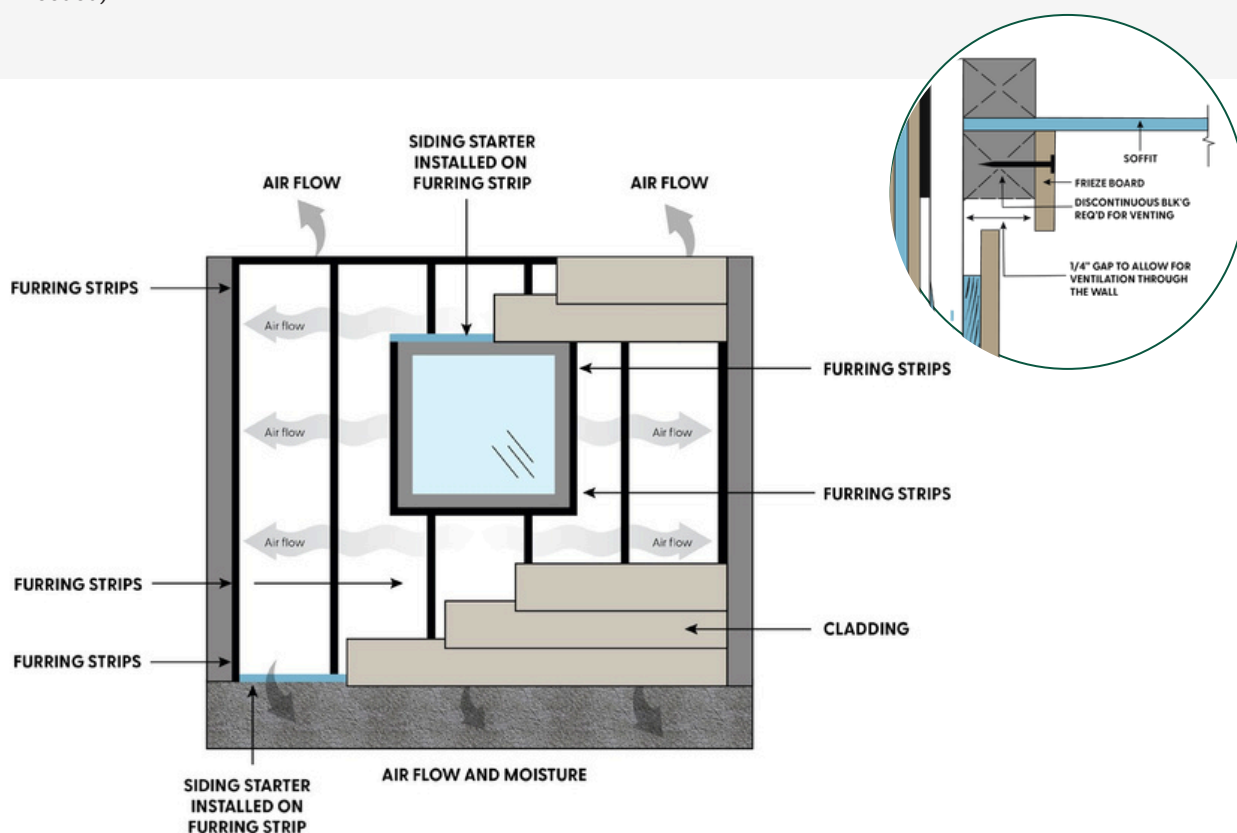
STEP 4

Quarrix ProTect Furring Strips should be installed approximately 1" from the edge of the wall. Furring Strips should also be used under trim, in corners and around windows. The Furring Strips should be installed to support the width of the trim.

STEP 5

Attach siding according to manufacturers' specifications and building codes using fasteners long enough to sufficiently penetrate into framing.

*If different wood or metal structural furring strips are required along the wall, ProTect Furring Strips can provide valuable wall system support at the top and bottom of the wall to allow proper ventilation of cavity to remove moisture and keep the wall protected and dry.



CARBON SMART WOOD™
BY CAMBIUM

cambium.com

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