

fiberon[®]

**INSTALLATION INSTRUCTIONS
FOR VERTICAL APPLICATIONS**

**HORIZON AND SYMMETRY DECKING
12 FT., 16 FT., AND 20 FT. SQUARE EDGE BOARDS**

1-800-573-8841 | FIBERONDECKING.COM

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Safety Information

Read and understand this entire manual before you begin the installation of your cladding.

 **WARNING:** Use extreme caution when using power tools.

Warranty

The following warranties are offered for this product:

- Commercial - 10 year Performance Warranty and 10 Year Stain and Fade Warranty
- Residential - 25 Year Performance Warranty and 25 Year Stain and Fade Warranty

For more information, visit www.fiberondecking.com or call Customer Service at 1-800-573-8841.

Pre-Installation

The following includes specific requirements for installation of approved Fiberon boards for use in rain screen cladding applications, along with best practices. When used in a siding application, Fiberon products are the cladding component of a siding or rainscreen system.

For more information, refer to the Resources section at fiberondecking.com, call 1-800-573-8841 or email info@fiberondecking.com.

BEFORE YOU BEGIN THIS INSTALLATION

These instructions must comply with both the requirements of the specific siding systems as noted, as well as with all of the manufacturer's requirements.

- If it is not possible to meet the installation requirements for the approved Fiberon product within the siding or rainscreen system, do not use the Fiberon product for this application.
- Consult local building code officials for applicable requirements for rain screen assemblies.
- Where required, check with local officials for wind load testing requirements.
- Neighborhood associations and/or historic districts may regulate size, placement, and type of siding. Apply for permits if required by local authorities and codes.
- Remember to check local building codes for additional restrictions and requirements.
- Ensure attention is paid to:
 - Support - Structural support behind the Fiberon boards
 - Attachment - Proper attachment to the structural support
 - Fastener - Size, geometry and proper location
 - Gapping - End-to-end and side-to-side
 - Ventilation - Ventilation for heat and moisture management

RACKING

Racking, or laying out a dozen or so boards in a shaded area in advance of installation, is recommended to achieve optimal aesthetic outcomes. Racking also allows boards to acclimate and to achieve similar temperatures, which will result in consistent and proper gapping.

STORAGE

Prior to installation, Fiberon products must be stored in a level manner, properly supported by 2x4's every 2 ft. on-center. Storing the product in a location with a temperature comparable to the installation environment will reduce temperature acclimation time. Not storing the product properly may result in distortions visible after installation.

AESTHETICS

Frequently check that the courses remain level, and adjust for slight fluctuations in board width as you go. When laying out the installation, take appropriate steps to avoid having to rip boards into very narrow profiles, such as when cutting around windows and doors.

STRUCTURE

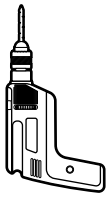
Never exceed maximum spans between furring strips (or engineered equal). Inconsistencies in the construction of the structural wall may telegraph through to the surface of the cladding. Take care to ensure the fastening surfaces are flat and true prior to starting board installation.



WARNING: Never use Fiberon boards as structural elements.

Pre-Installation (continued)

TOOLS REQUIRED



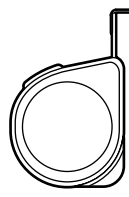
Power drill



1/8 in. Countersinking drill bit



Safety goggles



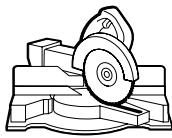
Tape measure



Torpedo level



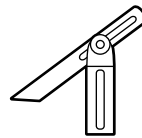
Speed square



Miter saw



Pencil



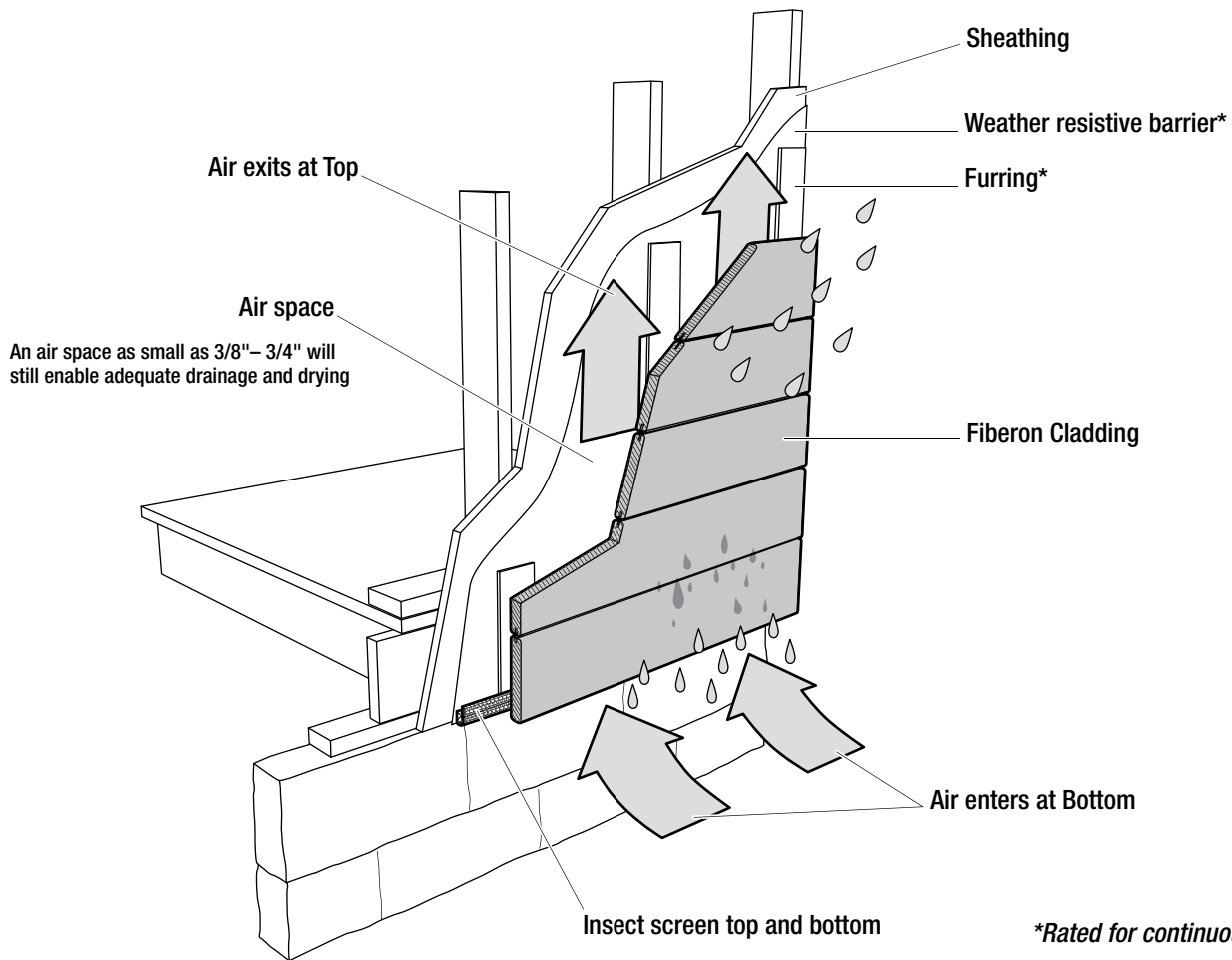
Adjustable square



Minimum 4 ft. level

TYPICAL INSTALLATION APPLICATION

This diagram illustrates a typical rainscreen system application:



Pre-Installation (continued)

FURRING REQUIREMENTS AND SPECIFICATIONS

Drainage Plane and Ventilation

As part of a rain screen application, Fiberon Composite Cladding requires a drainage plane that will ensure adequate ventilation and uninterrupted air flow. The drainage plane can be achieved using a suitable furring material or appropriate weather-resistive barrier (WRB) with engineered drainage plane matting.

Minimum ventilation of 3/8 in. (10 mm) is required behind the entire assembly and air intake (bottom) and exit (top) no less than 3/8 in. (10 mm) is required.

	Minimum	Recommended	Ventilation	Ground Clearance
Drainage Plane	3/8 in. (10 mm)	3/4 in. (20 mm)	Unobstructed	Min. 6 in. above grade

Structural Attachment

Fiberon Composite Cladding must be securely fastened to an approved structural substrate.

16 in. OC is the maximum spacing between the fasteners that secure the cladding to the structural members.

	Max Spacing	Recommended Spacing	Caution
Structural Attachment	16 in. OC	16 in. OC	NEVER > 16 in. OC

Gapping



IMPORTANT: Failure to gap properly will create consequences that may not be easily remedied. Always follow the gapping requirements.

Spacing between board edges must be at least 3/16 in. Spacing at end of boards is temperature dependent.

Fiberon Composite Cladding must be gapped in accordance with the information in this table:

	If <30°F	If >31°F and <50°F	If >51°F and <70°F	If >71°F and <90°F	If >91°
Gapping: Butt	1/4 in.	3/16 in.	1/8 in.	1/16 in.	1/32 in.
Gapping Edge to Edge	3/16 in.	3/16 in.	3/16 in.	3/16 in.	3/16 in.
Against Wall or Post	1/4 in.	1/4 in.	1/4 in.	1/4 in.	1/4 in.
From Roof Surface	1 in.	1 in.	1 in.	1 in.	1 in.

Fasteners

Different face fasteners produce varying aesthetics. Testing fasteners for desired appearance is recommended. Because of their unique engineering, fasteners specifically designed for composite decking should be used whenever possible. If a composite deck screw is not used, pre-drilling is required. Please note that pre-drilling will always produce the best results, regardless of the type of screw used.

When installing in an area in which salt water or salt spray could result in rust, the use of 316 stainless steel-grade fasteners is recommended. Note that rust stains resulting from fasteners are not covered by stain and fade warranty.

	Qty.	Min. Distance from Edge	Min. Distance from End
Fasteners (minimum #9)	Two every 16 in. OC	Not Less Than 1 in.	Not Less Than 1-1/2 in.

Pre-Installation (continued)

FASTENER REQUIREMENTS AND SPECIFICATIONS



IMPORTANT: Never use less than the minimum-sized fastener. Always use a fastener that is suitable for the job, especially in salt water and spray environments.

Fastener Type	2 face fasteners, installed no more than 16 in. O.C.
Minimum Size	Minimum size face fasteners is minimum #9 x 2 1/2 in. In areas under high wind restrictions, such as Miami-Dade County Florida, the minimum screw allowed is #9 x 2 1/2 in.
Min. Distance From Board Edge	1 in.
Min. Distance from Board End	1-1/2 in.
Installation Method	Perpendicular to board surface (toeing not permitted)

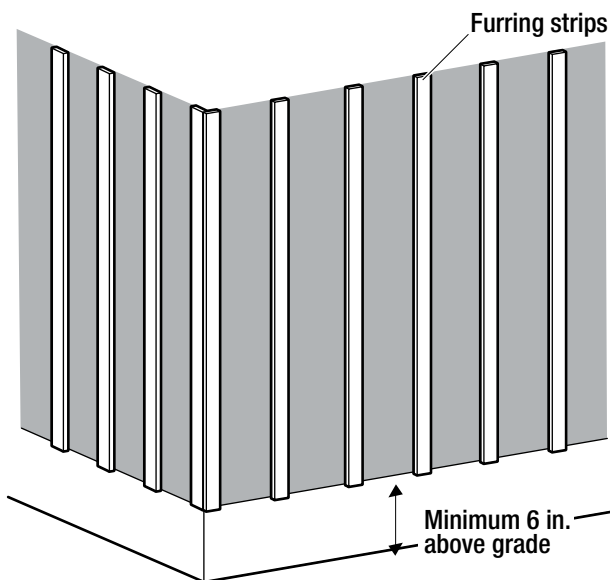
Additional Notes:

- Test fasteners for desired appearance (recommended).
- You must use fasteners specifically designed for composite decking.
- When installing in an area in which salt water or salt spray could result in rust, the use of specially coated fasteners, or minimum 316 SS grade fasteners, is recommended. Rust stains from fasteners are not covered by stain and fade warranty.

Horizontal Installation

1 Chalking a level line

- Chalk a level line based on the lowest corner of the structure, or lowest point where siding will be installed, particularly in regard to remodels.
- The line must be a minimum of 6 in. above grade. Where boards are installed above a roof system (as in a turn gable), allow a minimum of 1 in. space between the roof surface and the bottom of the board. Refer to the Gapping Requirements and Specifications table.
- Secure the furring strips with the bottom of the furring strip starting at the chalk line, and secured no more than 16 in. OC.



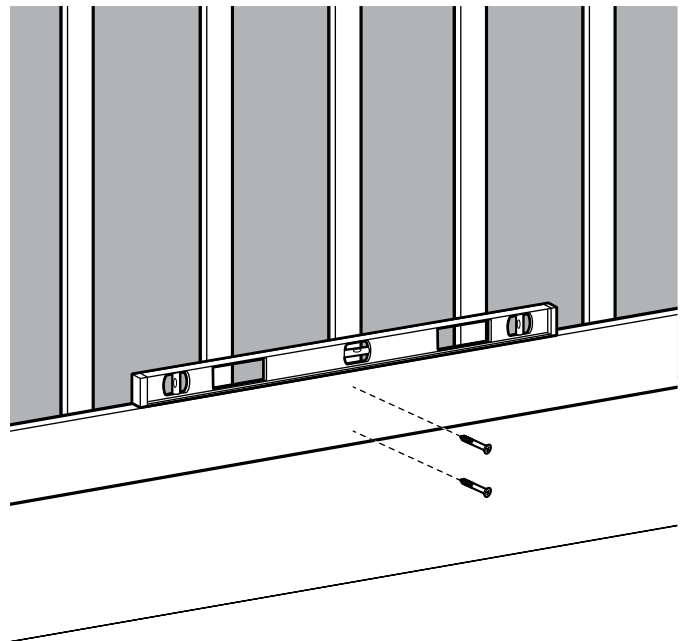
2 Installing the first course

- Measure and cut board to length, allowing for butt joints on shared 1x3 minimum furring strips.



NOTE: With 1x3 furring strips (2-1/2 in. actual width), and a 1-1/2 in. standoff from board ends, butt joints can only be done using sistered furring strips, which effects illustrations to follow.

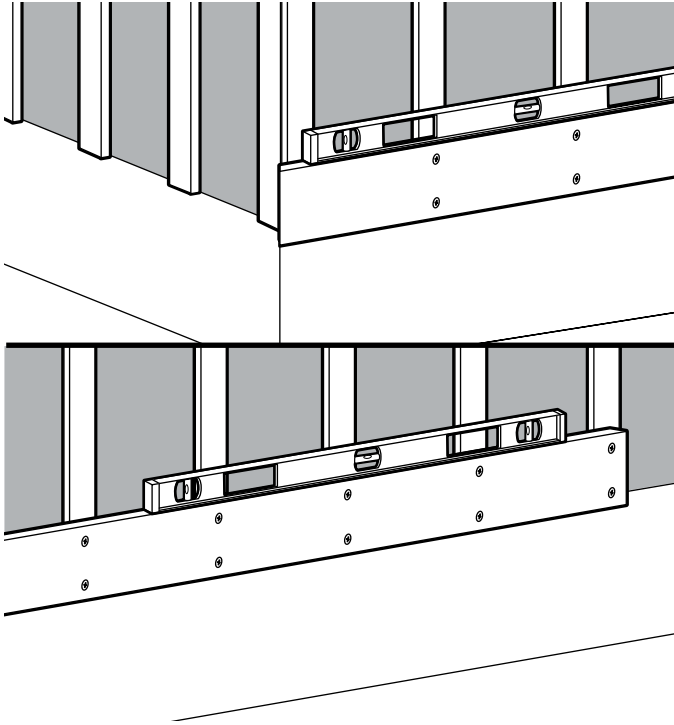
- Ensure the board is level and secure it to the approximate middle furring strip using two #9 gauge x 2-1/2 in. composite decking screws and allowing 1 in. clearance from board edges. Refer the Furring, Fastener, and Gapping specifications sections.



Horizontal Installation (continued)

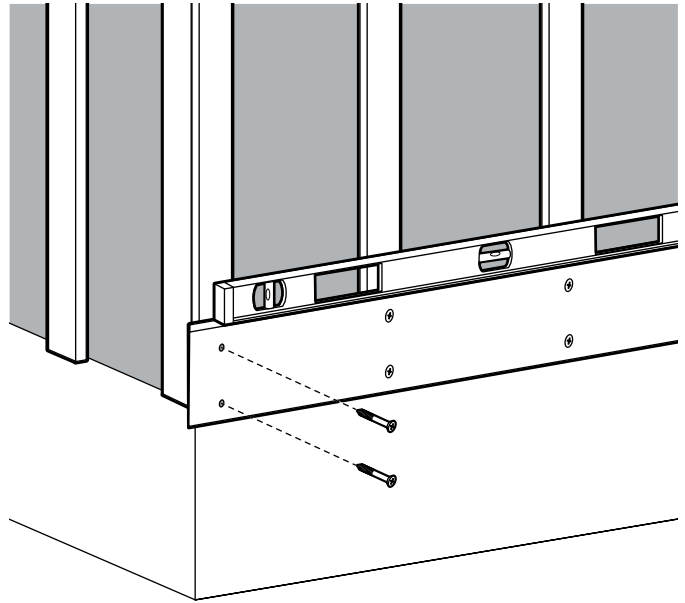
3 Securing the first boards

- Secure the boards outward toward the board ends using two screws per furring strip. Check often to ensure the boards remain level.



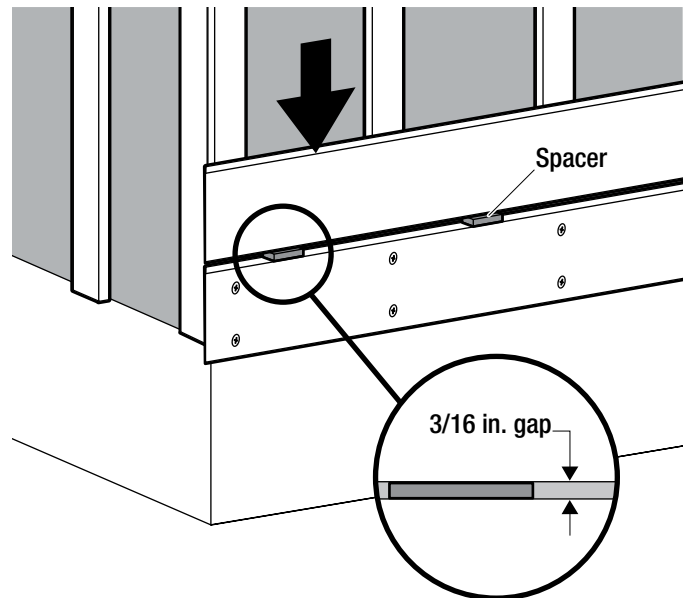
4 Securing the board ends

- Secure the end of the board using two #9 gauge x 2-1/2 in. composite decking screws, not closer than 1-1/2 in. from the board end and 1 in. from the board edge. Pre-drill end fasteners to prevent stress cracking.
- In courses requiring more than one board, butt the next board to the previous, using the table in the Gapping Requirements and Specifications section.



5 Installing the second course

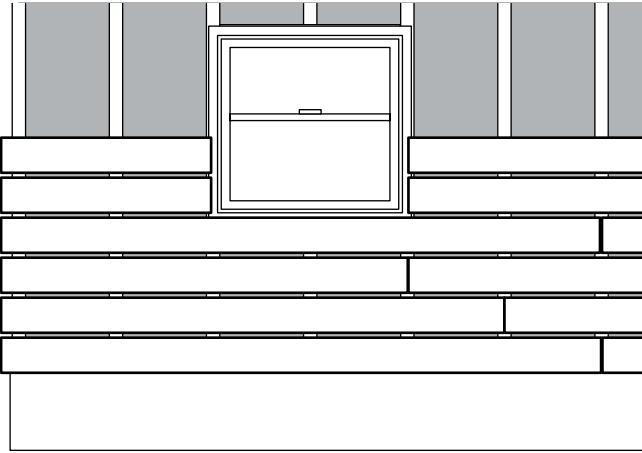
- Using 3/16 in. spacers, secure the next course starting from the approximate center of the board and working outward.
- Continue checking to ensure courses are level. Adjustments may be necessary to accommodate board width variation.



Horizontal Installation (continued)

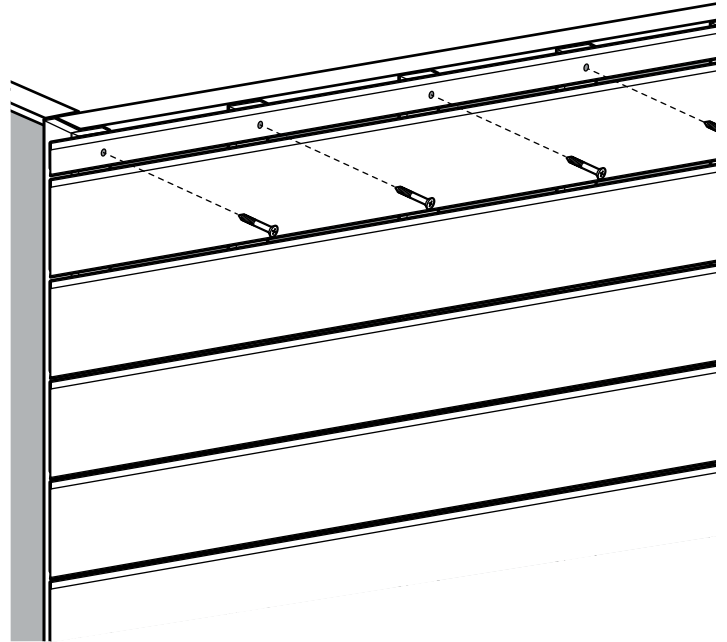
6 Installing the remaining courses

- As courses are added, stagger butt joints in a consistent “stair step” fashion for best results. **Never allow a butt joint directly over or under an opening in the wall.** Stacked butt joints are permitted, but require special care in gapping.
- At butt joints, you must install fasteners perpendicular to the board. Do not angle fasteners.
- If possible, do not use boards that do not span the length of three furring strips at a minimum (approximately 32 in.). Notch boards around openings in the wall. Always pre-drill holes in boards 3 in. wide or less.



7 Ensuring the top of the wall is proper width

- At the top of the wall, it may be necessary to rip the board to the required width. Always pre-drill boards 3 in. wide or less.



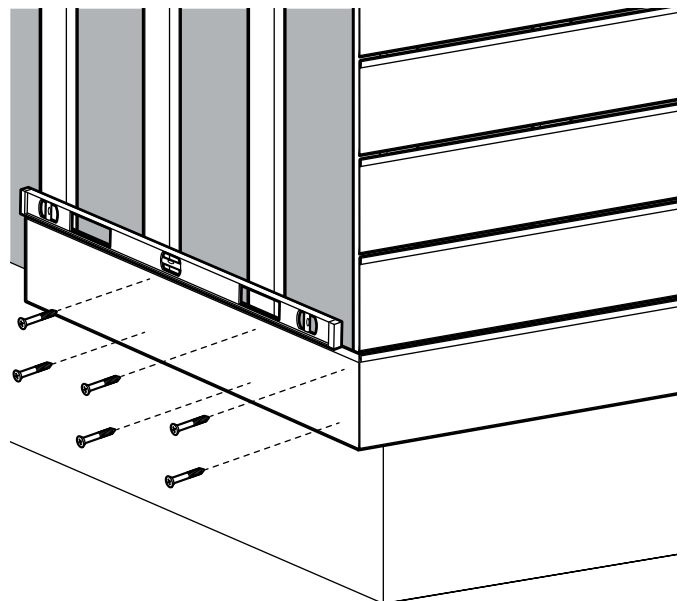
8 Continuing the installation to adjoining walls

- Move to adjoining walls, ensuring courses are level with the previous wall. Frequently ensure courses are level at the corners to ensure boards are all aligned.



NOTE: When installing corner boards and framing out windows, additional furring may be required to provide sufficient fastening surface. Build out the corner boards and window/door trim at least 1/4 in. beyond the cladding. Corner boards should extend 1/2 in. – 1 in. lower than the siding courses.

- At corners and all intersections with different planes or materials, ensure proper gapping, fasteners, and fastener placement. Refer the Furring, Fastener, and Gapping specifications sections.



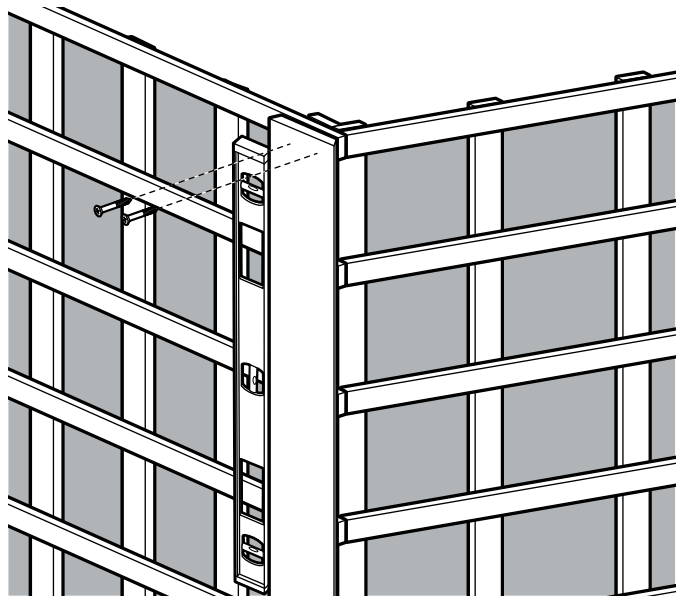
Vertical Installation

1 Installing the first course



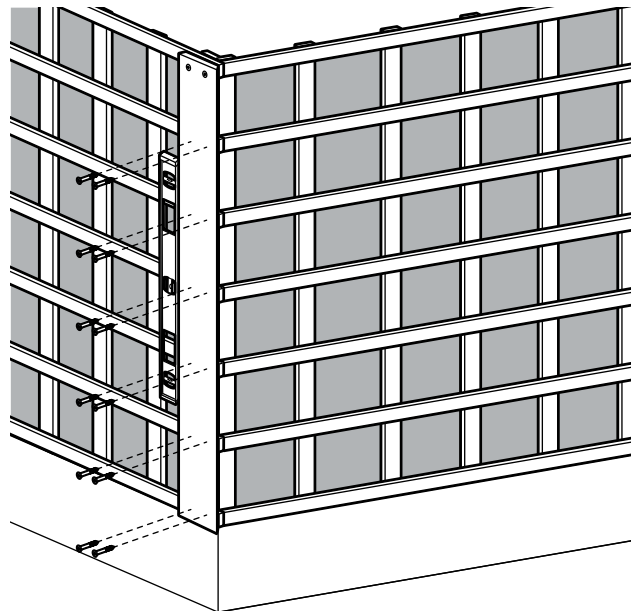
NOTE: For a centered appearance, you may need to rip two equal boards.

- Measure and cut the first board. The board should extend 1/2 in. – 1 in. below the furring/strapping, and be 1/4 in. clear from the soffit. Starting from the top and working downward, secure using two #9 gauge x 2-1/2 in. composite deck screws placed a maximum of 16 in. O.C. not closer than 1 in. from board edges, and 1-1/2 in. from board ends.



2 Securing the boards

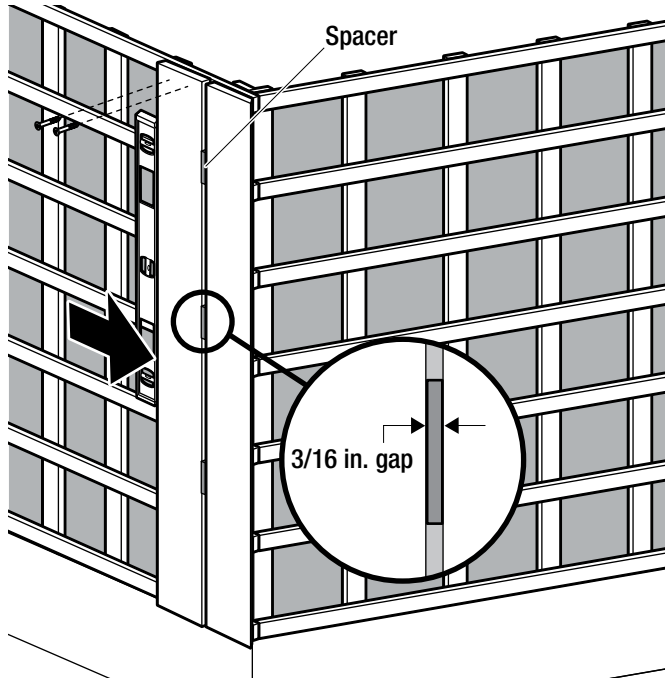
- Working downward, secure the board into each furring/strapping, using two #9 gauge x 2-1/2 in. composite decking screws. Do not exceed 16 in. O.C.. Ensure that you maintain plumb.



Vertical Installation (continued)

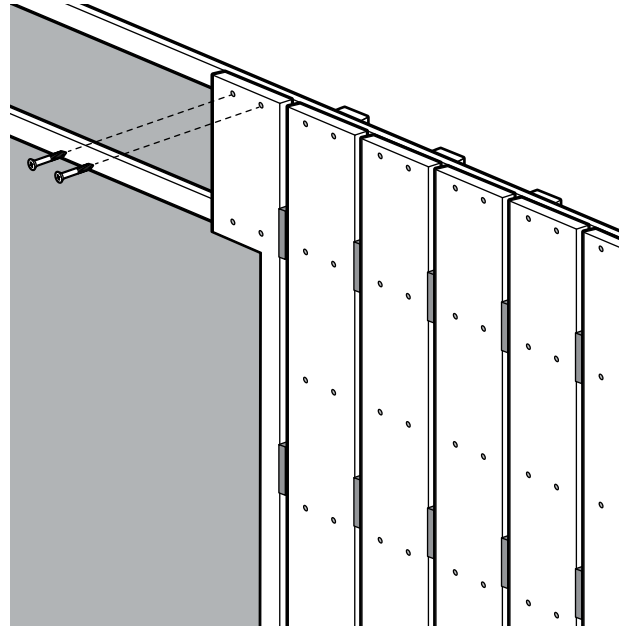
3 Installing the second course

- Using 3/16 in. spacers, secure the next course starting from the top and working downward.



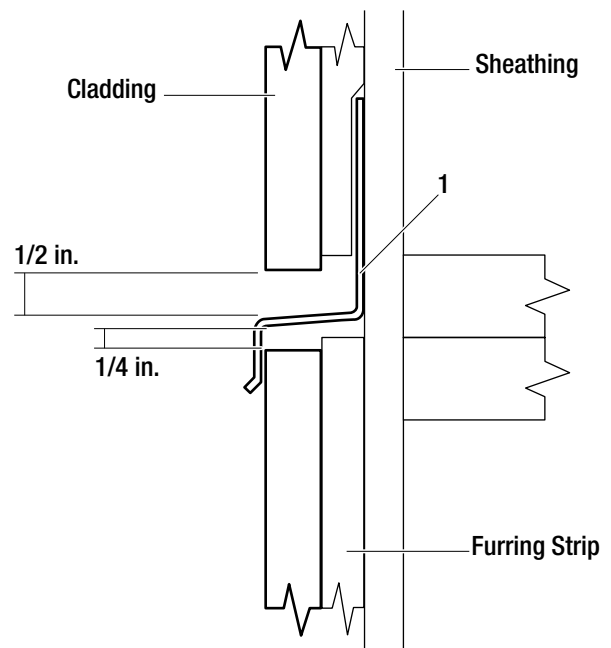
4 Continuing the installation

- Notch boards for openings in the wall. Always pre-drill holes in widths 3 in. or under, and secure with one #9 gauge x 2-1/2 in. composite deck screw.



5 Using Z-flashing

- For walls exceeding the available length of the boards, separate the lower wall from the upper with a z-flashing (1). Allow a 1/4 in. clearance between the top of the lower boards to the underside of the z-flashing. Maintain approximately 1/2 in. clearance between the z-flashing and the start of the upper boards.





1-800-573-8841

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Retain this manual for future use.

Charter Member Composite Lumber Manufacturer's Association (CLMA)

Charter Member North American Deck and Rail Association (NADRA)

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