



All Weather Siding Ceiling Installation Guide

12.30.25 US

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Important Note

Read All Sections Before You Start

Prior to installing any composite siding system, it is recommended that you check with local building codes for any special requirements or restrictions. The diagrams and instructions outlined in this guide are for illustration purposes only and are not intended or implied to replace a licensed professional. Any construction or use of this product must be in accordance with all local zoning and/or building codes. The consumer assumes all risks and liability associated with the construction and use of this product.

Safety

When dealing with any type of construction project, it is necessary to wear appropriate safety equipment to avoid the risk of injury. It is recommended to use, but not be limited to, the following safety equipment when handling, cutting, and installing the product: gloves, respiratory protection, long sleeves, pants, shoes, and safety glasses.

Tools

Standard woodworking tools may be used. It is recommended that all blades have a carbide tip. Standard stainless steel or acceptable coated screws are recommended.

Environment

A clean, smooth, flat, and strong surface is required for proper installation of the product. Always check local building codes before installing any type of product. If installation does not occur immediately, the product must be stored on a flat surface at all times. It should never be placed on a surface that is not flat.

Planning

Plan a layout for your siding before starting it to ensure the best possible looking siding for your project. Building codes and zoning ordinances generally apply to permanent structures, meaning anything that is anchored to the ground or attached to the house. So nearly every kind of siding requires permits and inspections from a local building department. We recommend drawing out a site plan of your proposed project that you intend to do to minimize errors and make your perfect siding.

Pressure wash on a scrap piece of composite material before using a pressure washer on the siding board to make sure that your pressure setting will not damage the UltraShield capped layer.

Construction

This product is NOT intended for use as columns, supporting posts, beams, joist stringers, support against a force, or other primary load-bearing members. The product must be supported by a code-compliant substructure. While this product is suitable for retrofit applications, it CANNOT be installed on existing siding boards.

Ventilation

The product CANNOT be directly installed onto a flat surface. It must be installed onto a substructure to provide adequate and unobstructed airflow beneath the cladding, helping to prevent excessive water absorption. A minimum of 25 mm of continuous net free area beneath the cladding surface is required to ensure adequate ventilation, allowing air to circulate between adjacent members and promote drainage and drying.

Heat and Fire

Excessive heat on the surface of the product from external sources, including but not limited to fire or reflected, concentrated sunlight from optical objects, may damage the product. Extreme surface temperatures beyond normal exposure may cause the product to melt, sag, warp, discolor, increase expansion and contraction, or accelerate weathering.

Fasteners

When fastening the product, all face-fastened screws should always be driven at a 90-degree angle to the cladding surface. Toe screwing is not recommended. If a 90-degree angle cannot be achieved, an additional joist should be installed. All fasteners should be secured to their own independent joists. When two board ends meet, a sister joist must be provided. The end of each board must be supported by its own joist.

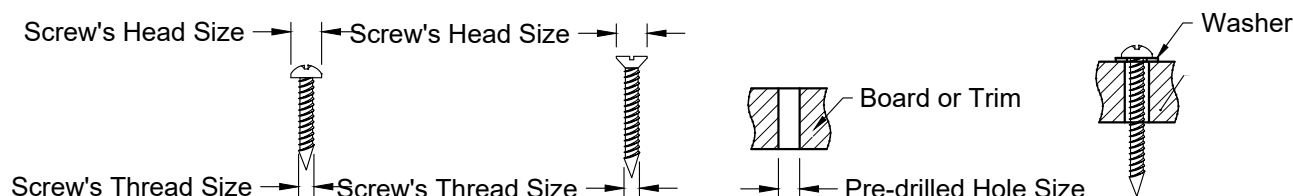
Use white chalk, straight boards, or string lines as templates for straight lines. NEVER USE COLORED CHALK. Colored chalk can permanently stain the product and is strongly discouraged.

When selecting proper fasteners for your project, it is essential to choose those specifically engineered for composite materials, as they are designed to provide the best performance and appearance for the product.

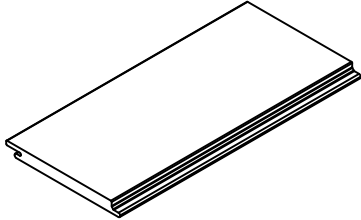
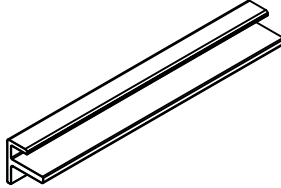
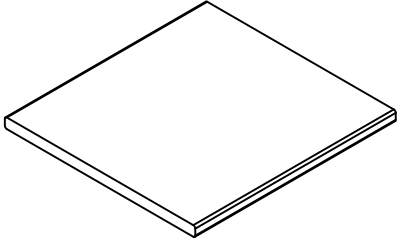
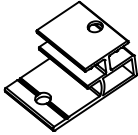
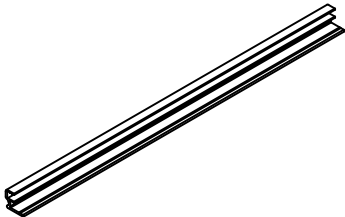
For most installations, stainless steel screws are recommended to ensure durability and corrosion resistance. In specific scenarios, such as face-fixing the last board, composite decking screws with color-matched heads may be used to blend seamlessly with the material. For a cleaner, more professional finish, ensure the screws are installed flush with the surface and avoid over-tightening. Using screws that are not recommended for composite materials may damage or compromise the integrity of the cladding. For guidance, refer to page 7 for a list of recommended fasteners suitable for your substrate.

Pre-drill

When fastening into composite material, pre-drilling is strongly recommended to avoid potential bulging or mushrooming around the screw head. Pre-drilled holes should be slightly larger than the screw thread ($1/16''$ to $5/64''$) to allow for secure fastening, but smaller than the screw head for a snug fit. A washer can be applied if the pre-drilled hole size is smaller than the screw head size below $1/16''$.

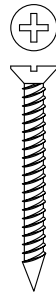
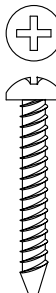


Siding Parts

Code no.	Description	Diagram
US09	All Weather Siding Board	
US44	F-Trim, used for the trimming on the sides	
US05	Fascia board, used for the trimming on the sides	
AW08	Used at every furring strip to fix each board onto the furring strip.	
T-7	Used on the last siding board	
AW02	Used for the installation of the first siding board	

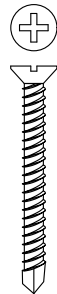
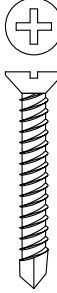
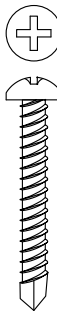
Siding Screws (For Wood Furring Strips)

The table below shows the screws recommended to use for the installation, but not included.

Code no.	Description	Diagram
#6 x 1-1/4" Stainless Steel SS304 (Bugle Head)	Locking the board into the Clip (AW08)	
#8 x 1-1/4" Stainless Steel SS304 (Bugle Head)	Used when installing the Clip (AW08) onto the wood furring strip. Or used when face screwing the boards and the trims onto the wood furring strips.	
#8 x 1-1/4" Stainless Steel SS304 (Pan Head)	Used for securing the Rubber Stopper (T-7) onto the wood furring strips.	

Siding Screws (For Metal Furring Strips)

The table below shows the screws recommended to use for the installation, but not included.

Code no.	Description	Diagram
#6 x 1-1/4" Stainless Steel SS304 (Bugle Head Self Tapping)	Locking the board into the Clip (AW08)	
#8 x 1-1/4" Stainless Steel SS304 (Bugle Head Self Tapping)	Used when installing the Clip (AW08) onto the aluminum furring strip. Or used when face screwing the boards and the trims onto the aluminum furring strips.	
#8 x 1-1/4" Stainless Steel SS304 (Pan Head Self Tapping)	Used for securing the Rubber Stopper (T-7) onto the aluminum furring strips.	

* Note: All screws are based on our recommendation and if the installation requires something different than what is shown, a professional should be consulted before installing.
The following installation guide will use the above screw sizes.

Expansion and Contraction Values

The cladding boards will expand and contract with changes in temperature. Expansion and contraction are most significant where extreme temperature changes occur. Fastening the cladding boards according to the gapping requirements shown in the following table will accommodate this movement.

Expansion and Contraction Values Table

Installation Temperature (Farhenheit)	Length (Feet)								Gap (in)
	3	8	9	10	12	13	16	18	
	32	1/16	1/8	1/8	3/16	3/16	1/4	1/4	5/16
	41	1/16	1/8	1/8	1/8	3/16	3/16	1/4	1/4
	50	1/16	1/8	1/8	1/8	1/8	3/16	3/16	3/16
	59	1/16	1/16	1/16	1/8	1/8	1/8	1/8	3/16
	68	3/64	1/16	1/16	1/16	1/16	1/8	1/8	1/8
	77	3/64	1/16	1/16	1/16	1/16	1/16	1/16	1/16
	86	3/64	3/64	3/64	3/64	3/64	1/16	1/16	1/16

Option #1 Trimming with F-Trim (US44)

Step 1: Framing

- Measure and Chalk lines for the furring strips
- Install the furring strips

Step 2: Install the F-Trim (US44)

Step 3: Install the ceiling with All Weather Siding board (US09)

Step 4: Install the last ceiling board

Step 1: Framing

- 1.1** Measure and chalk lines for the furring strips, and fix them with screws onto the ceiling, as shown in the [Diagram 1.1](#), [Detail 1.1.1](#) and [Detail 1.1.2](#).

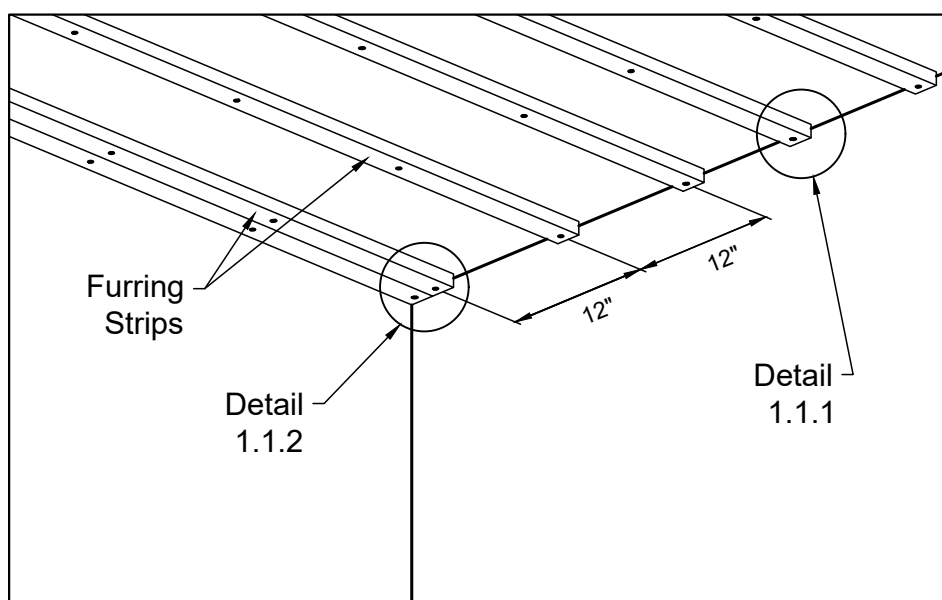
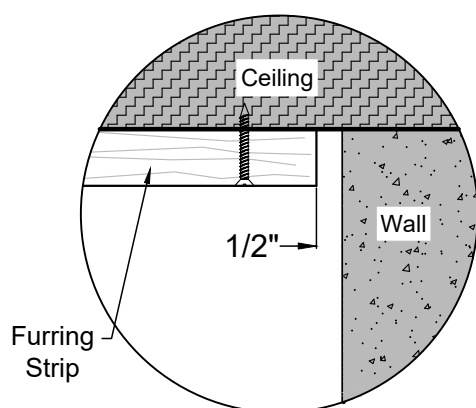
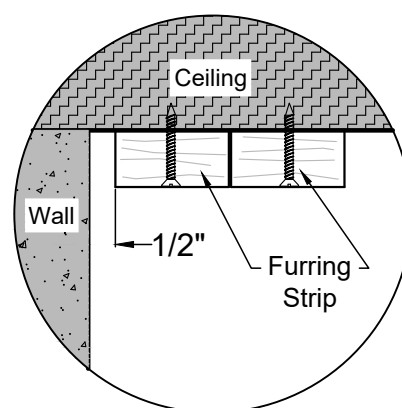


Diagram 1.1



Detail 1.1.1



Detail 1.1.2

Step 2: Install the F-Trims (US44)

- 2.1** Install the starting F-Trim (US44).
Mitre cut and secure it onto the furring strip with screws, as shown in the [Diagram 2.1](#) ,
[Detail 2.1.1](#) and [Detail 2.1.2](#)

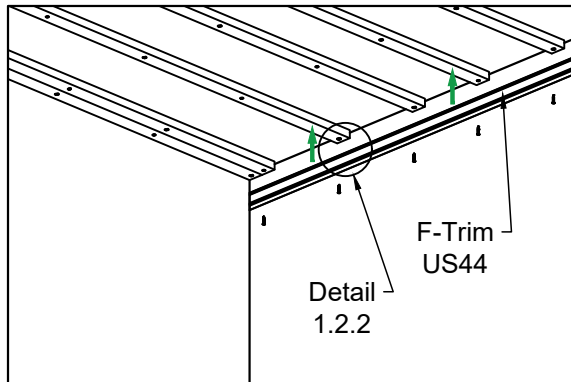
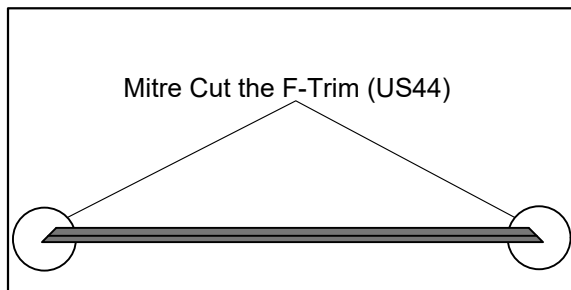
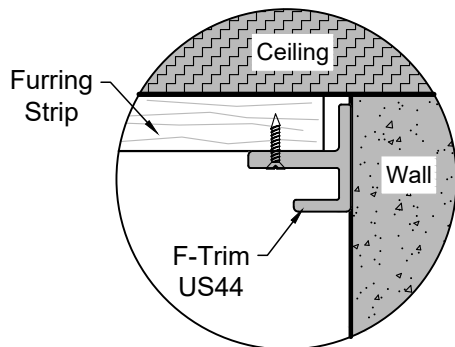


Diagram 2.1



Detail 2.1.1



Detail 2.1.2

- 2.2** Install the side F-Trims (US44).
Mitre cut and secure it onto the furring strip with screws, as shown in the [Diagram 2.2](#) ,
[Detail 2.2.1](#)

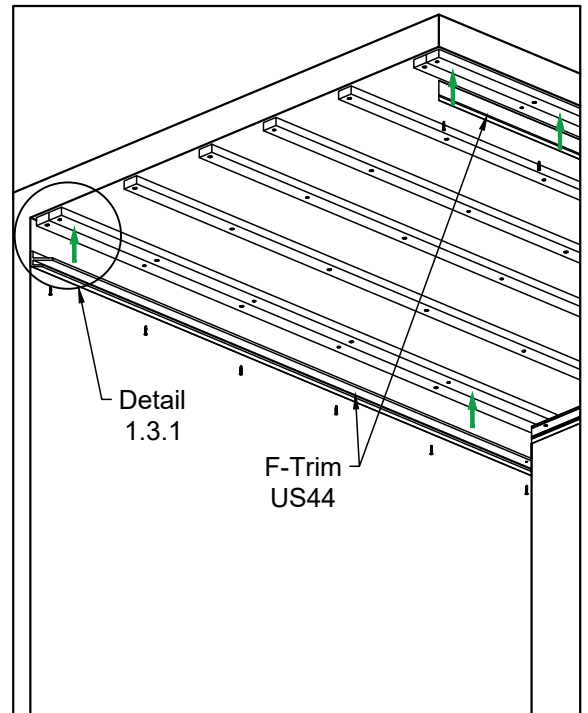
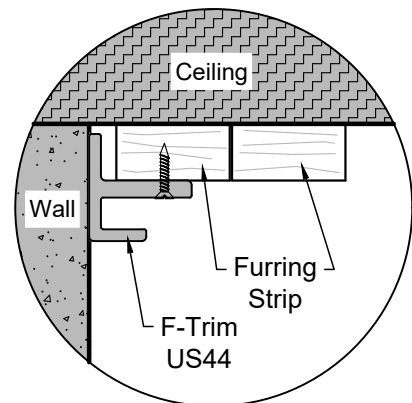


Diagram 2.2



Detail 2.2.1

Step 3: Install the ceiling with All Weather Siding board (US09)

- 3.1** Slot the first Siding Board (US09) into the starting F-Trim (US44), as shown in the [Diagram 3.1](#), [Detail 3.1.1](#) and [Detail 3.1.2](#)

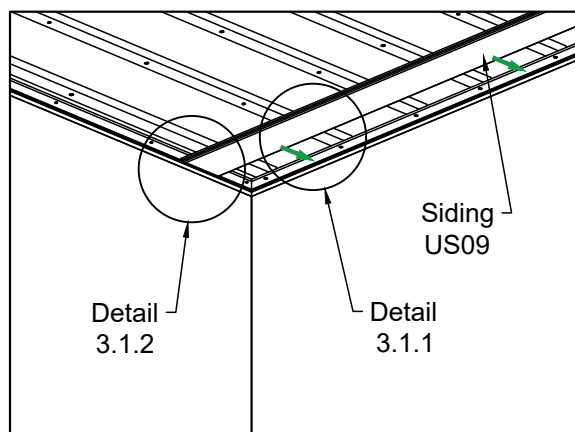
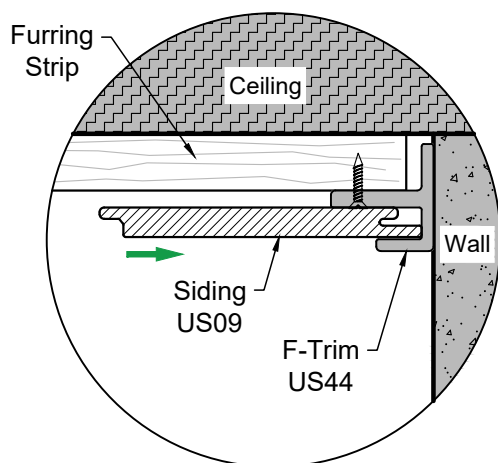
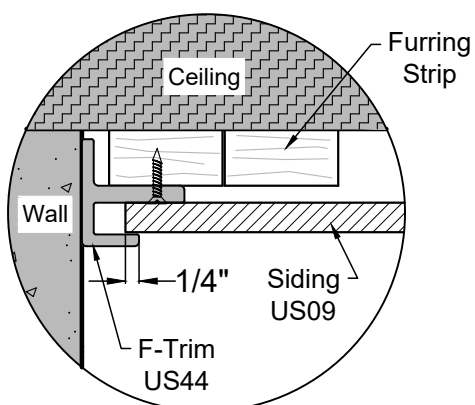


Diagram 3.1



Detail 3.1.1



Detail 3.1.2

- 3.2** Fix it with clip (AW08) onto the furring strip, as shown in the [Diagram 3.2](#) and [Detail 3.2.1](#)

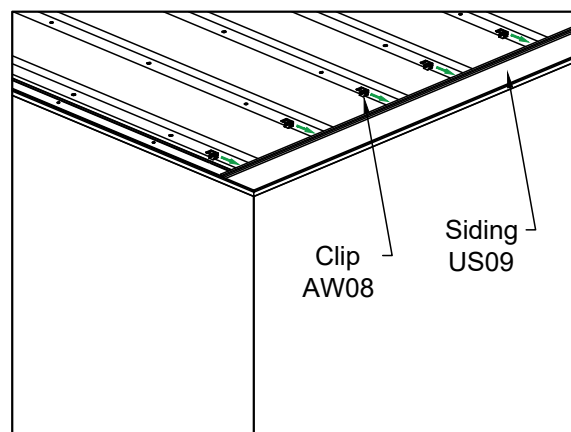
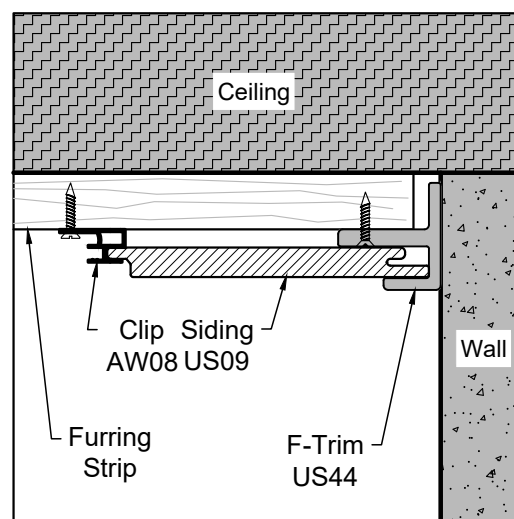


Diagram 3.2



Detail 3.2.1

- 3.3** Face screwing the first Siding Board (US09) onto the furring strips with screws, as shown in the [Diagram 3.3](#) and [Detail 3.3.1](#).

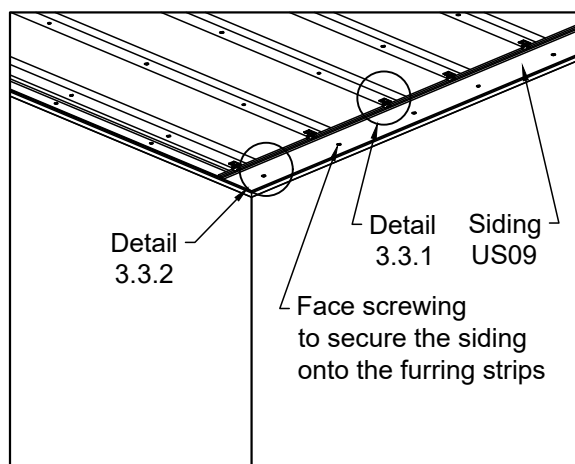
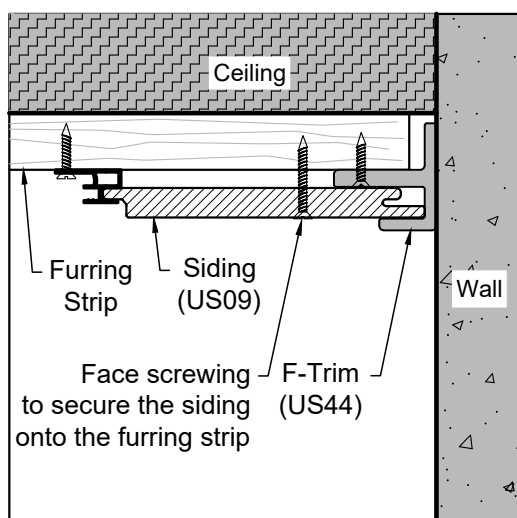


Diagram 3.3



Detail 3.3.1

Please Note:

Pre-drill the face screwing holes first before installation to allow for expansion and contraction. Please review [page 4](#), "Pre-drill" of this installation guide for further information.

- 3.4** Install the rest Siding Board (US09) onto the furring strips, as shown in the [Diagram 3.4](#) and [Detail 3.4.1](#).

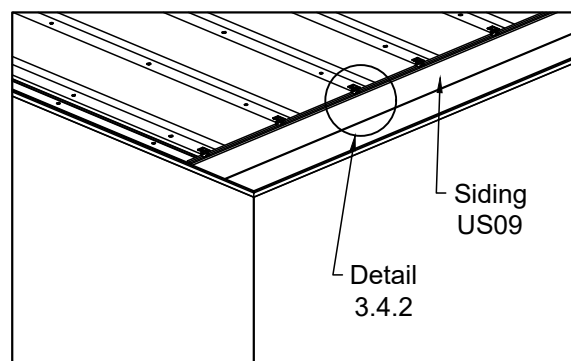
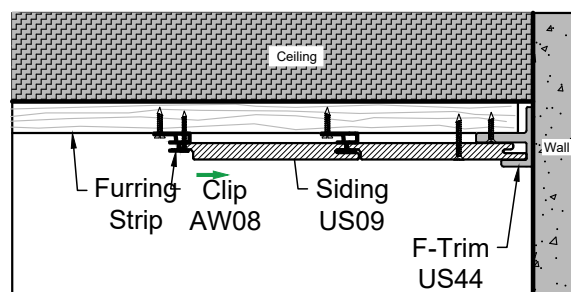


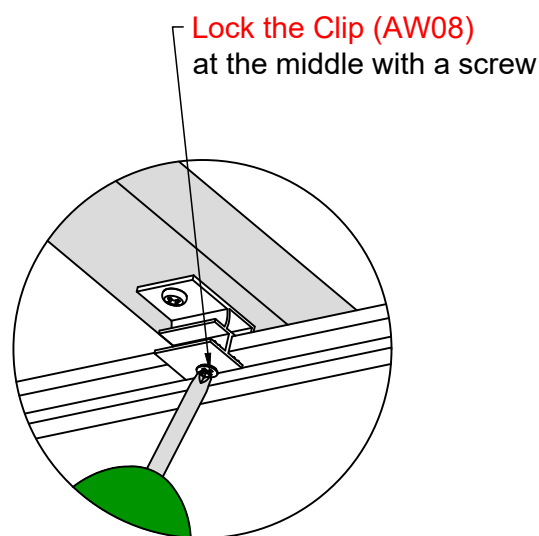
Diagram 3.4



Detail 3.4.1

Please Note:

Since the composite wood must allow for expansion and contraction due to temperature change, lock the siding board at one point at the middle to enable the remaining board to move freely, as shown in the [Detail 3.4.2](#).



Detail 3.4.2

Step 4: Install the last ceiling board

- 4.1** When you are at the last siding board, measure the distance between the wall surface and the Clip (AW08), and cut it according the measurement, as shown in the Diagram 4.1 and Detail 4.1.1.

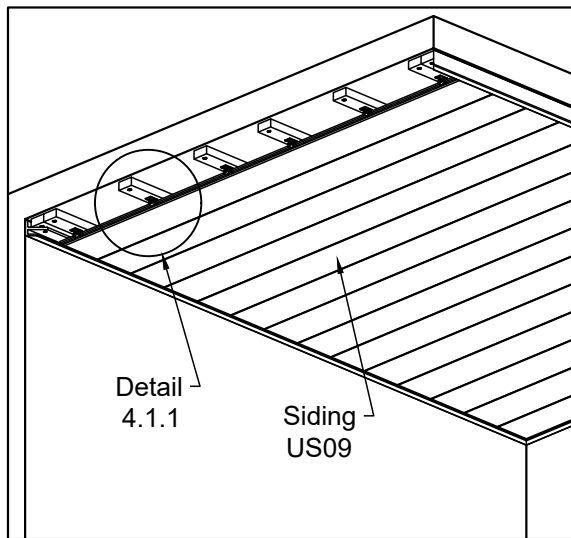
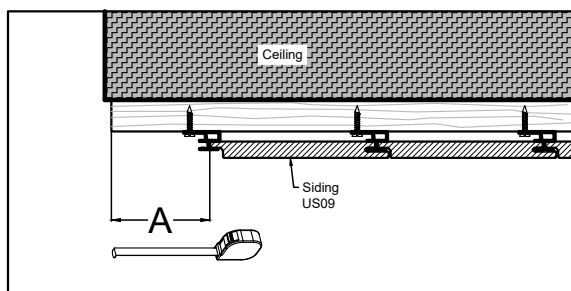
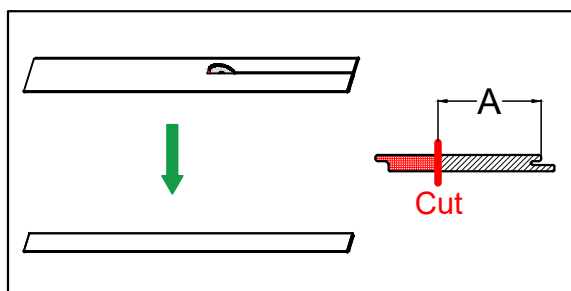


Diagram 4.1



Detail 4.1.1



Detail 4.1.2

- 4.2** Put the cut siding board and the ending F-Trim in place and face screwing to secure them onto the furring strips with screws, as shown in the Diagram 4.2 and Detail 4.2 on page 14.

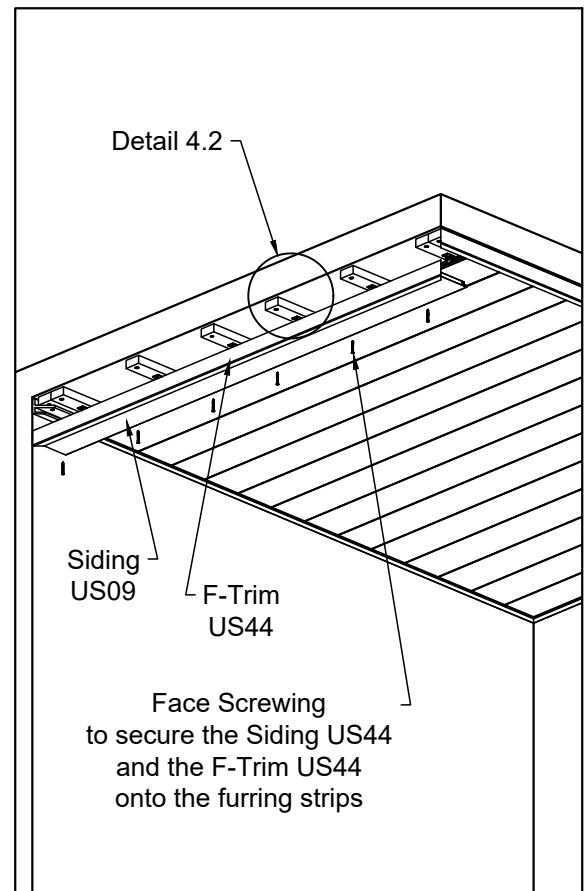
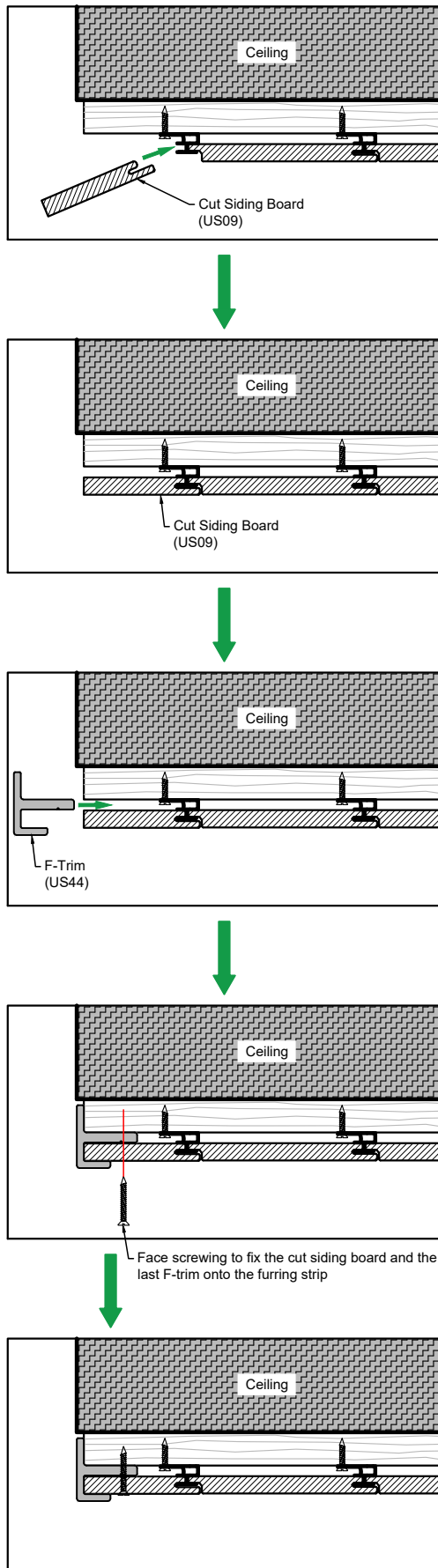


Diagram 4.2



Detail 4.2

4.3

The finished ceiling installation, as shown in the Diagram 4.3.

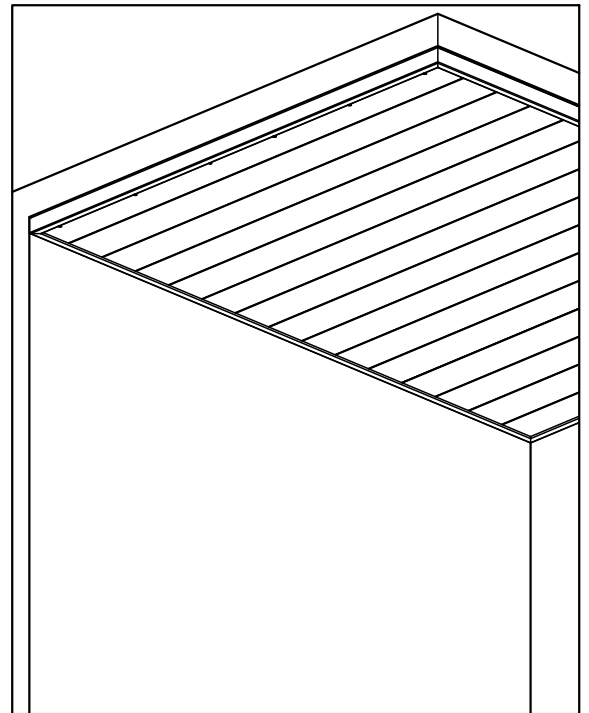


Diagram 4.3

Option #2 Trimming with solid Fascia Board (US05)

1 Framing

Fix the furring strips onto the ceiling where you intend to install the board. It is recommended to apply the span of not more than 12", as shown in [Diagram 1](#).

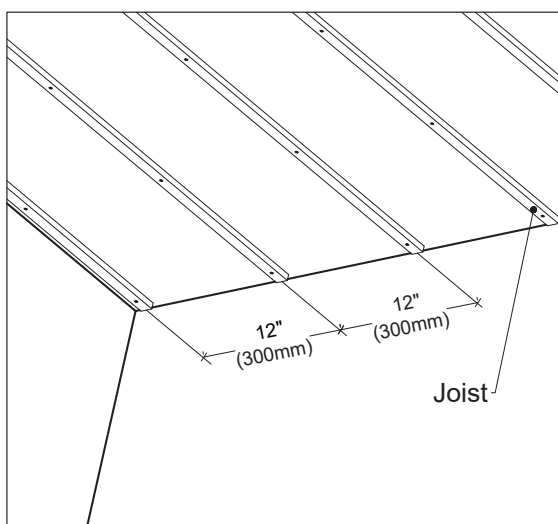


Diagram 1

2 Fasten the Starting Trim (AW02) onto the end of the furring strips with screws, as shown in [Diagram 2](#).

Note:

1. Pre-drill the screw holes for the Starting Trim (AW02) before installation.

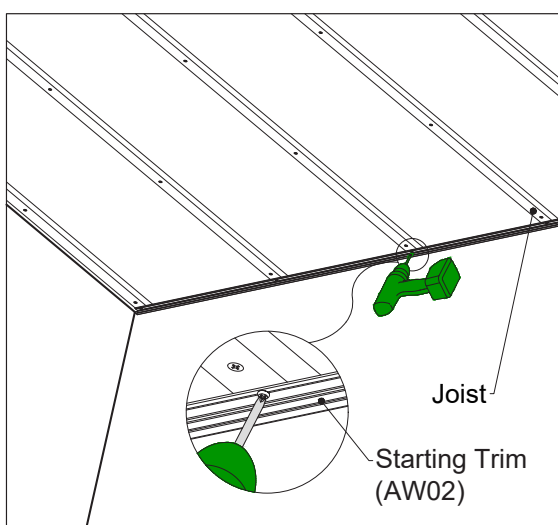


Diagram 2

3 Ceiling board installation

Put the Siding Board (US09) over the Starting Trim (AW02) and fasten it to the furring strips with Clip (AW08), as shown in [Diagram 3.1](#) and [Diagram 3.2](#).

Note:

1. Since the composite wood must allow for expansion and contraction due to temperature change, the board must be locked at one fixed point but only one point to allow the remaining board to move freely. When installing horizontally, it is required to lock the Clip (AW08) at the middle of each board, as shown in [Detail 95-1](#).

DO NOT LOCK any other Clip (AW08) for the same board.

Please review [page 10](#), "[Locking the Siding Board](#)" of this installation guide for further information.

2. The gap between the Siding Board (US09) and the adjacent walls is vital to avoid warping or buckling, as shown in [Detail 95-2](#). Please select the appropriate gap value according to the [Expansion and Contraction Values Table](#) on [page 9](#) of this installation guide.

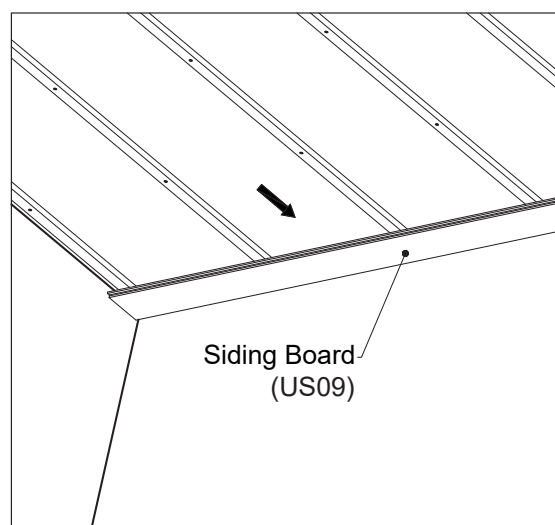


Diagram 3.1

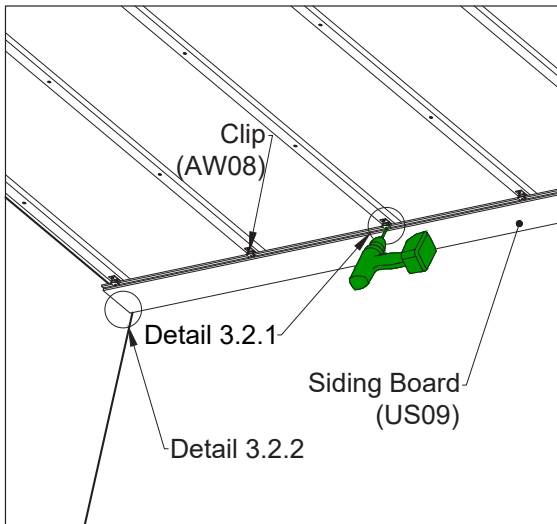
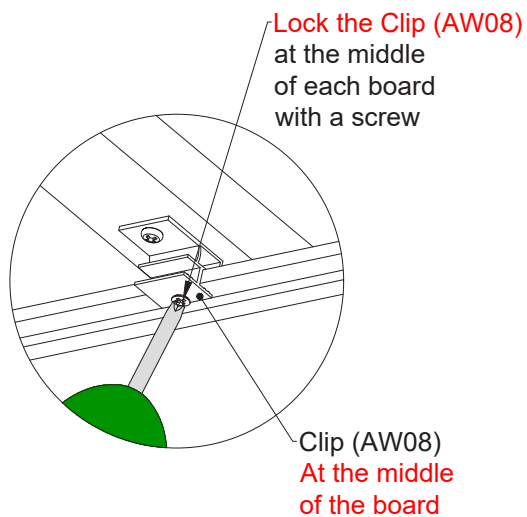
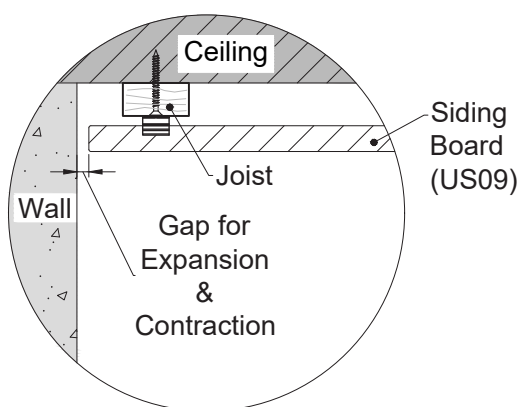


Diagram 3.2



Detail 3.2.1



Detail 3.2.2

- 4 Put the next Siding Board (US09) in place and slide it inside the Clip (AW08), as shown in **Diagram 4**. Then fasten it to the furring strips with Clip (AW08), repeat the same procedure as installation Step 3.

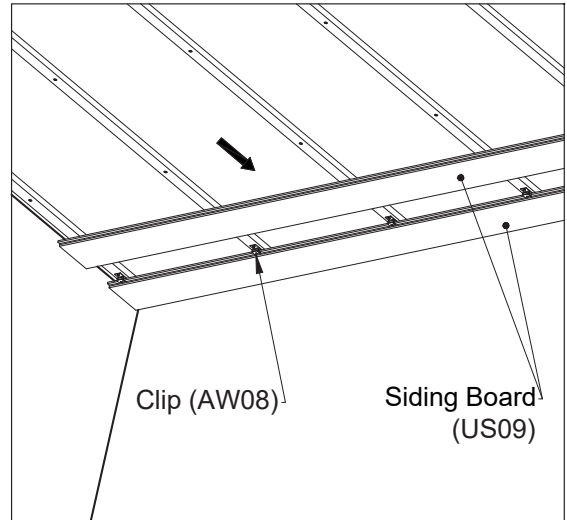


Diagram 4

- 5 When you are at the Siding's last board, measure the distance between the end of the furring strips and the Clip (AW08), as shown in **Diagram 5** and **Detail 5**.

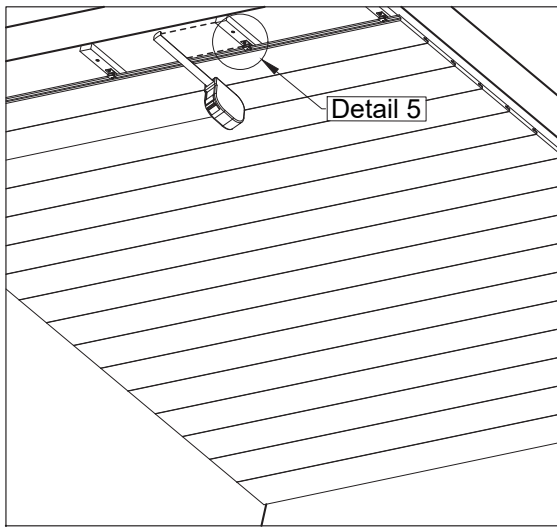
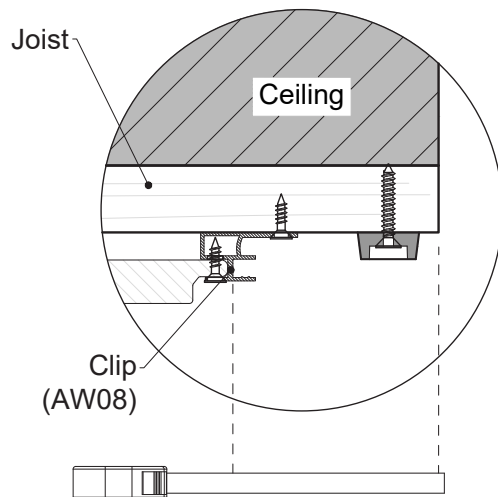


Diagram 5



Detail 5

- 6 Cut the Siding Board (US09) according to the measured length, as shown in **Diagram 6** and **Detail 6**.

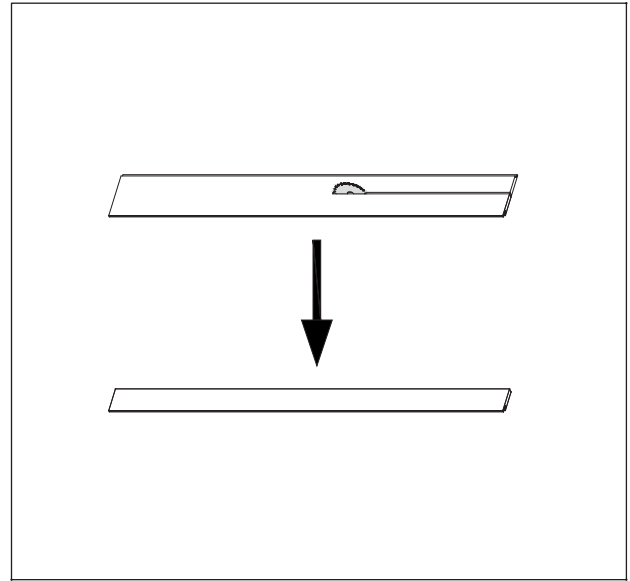
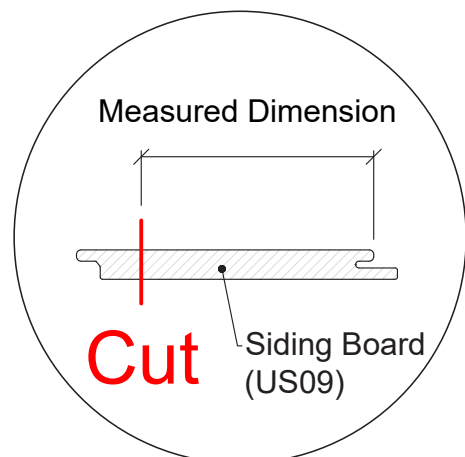


Diagram 6



Detail 6

- 7** Then install the Rubber Stopper (T-7) onto the furring strips with screws, as shown in **Diagram 7** and **Detail 7**.

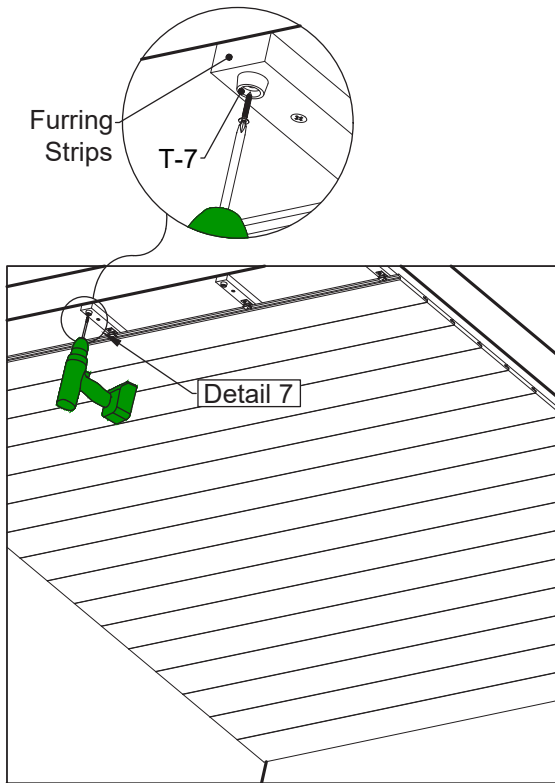
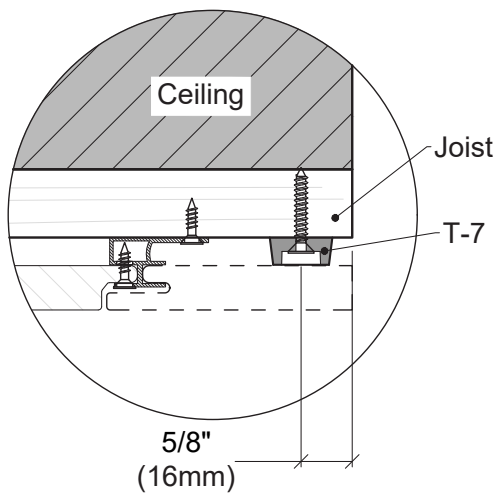


Diagram 7



Detail 7

- 8** Put the cut Siding Board (US09) over the Clip (AW08) in position and pre-drill the screw holes before installation, as shown in **Diagram 8** and **Detail 8**.

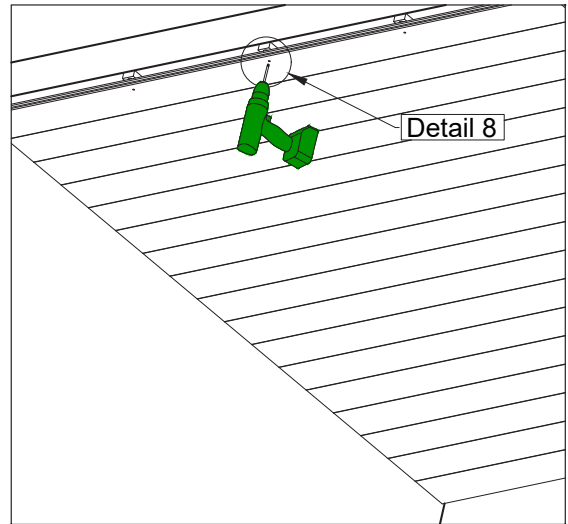
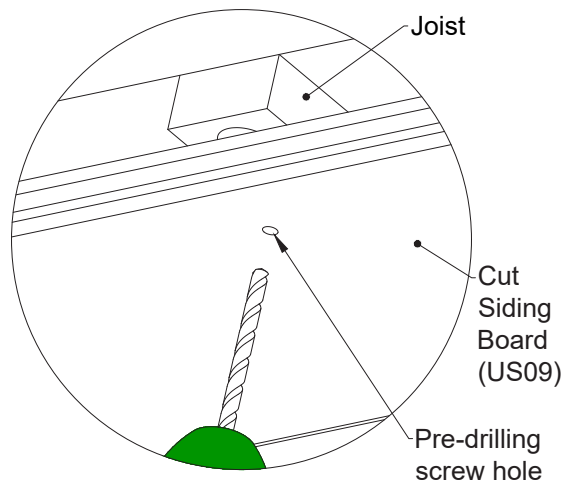


Diagram 8



Detail 8

- 9** Face fix the cut Siding Board (US09) onto each furring strip along the length of the board over the Rubber Stopper (T-7), as shown in **Diagram 9** and **Detail 9**.

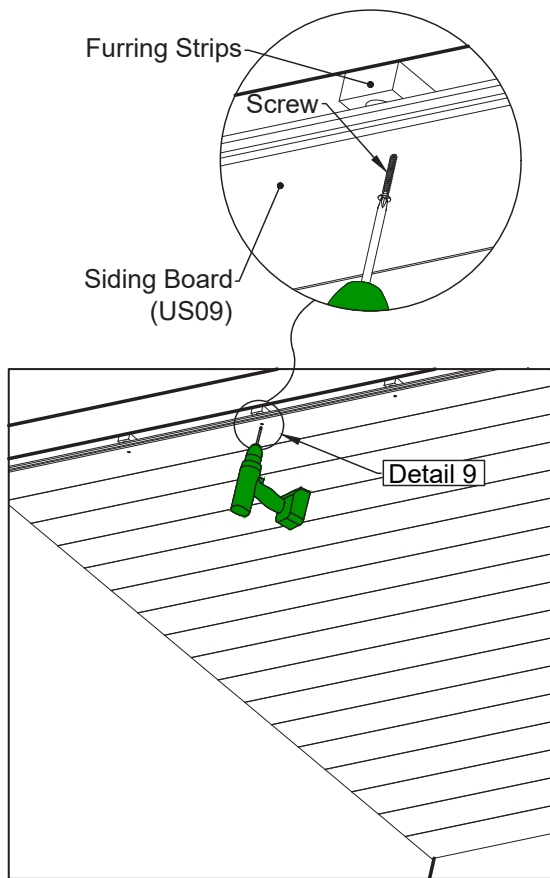
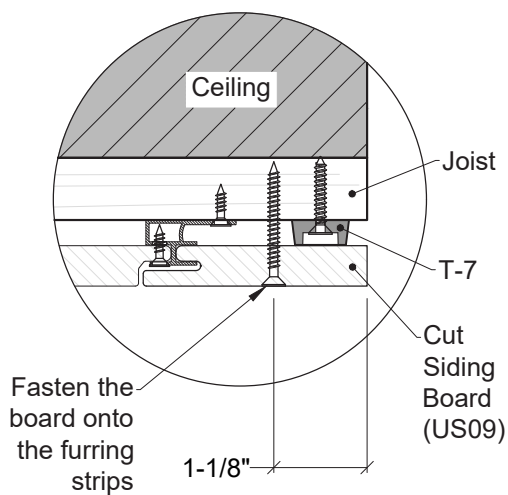


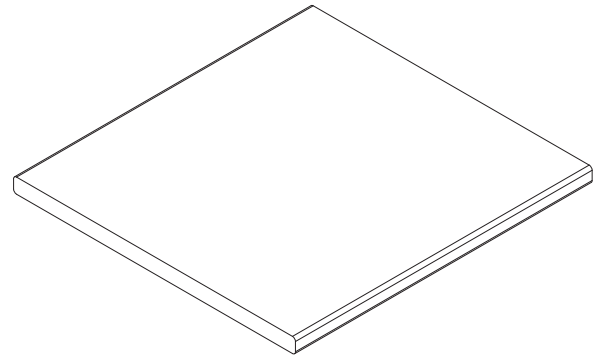
Diagram 9



Detail 9

10 Trimming

Cut the Fascia (US05) into the desired width, as shown in **Diagram 10**.



Fascia (US05)

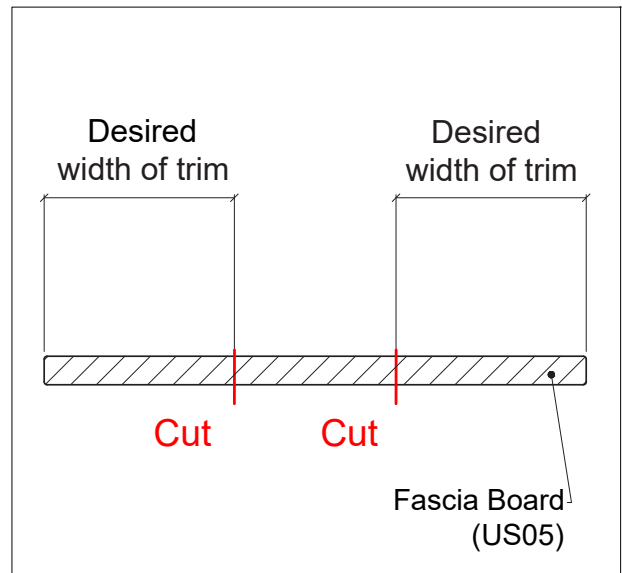


Diagram 10

- 11** Put the board's cut edge toward the ceiling board (US09) underside, then face fix it onto the wall with screws at least 19 11/16" on center, as shown in **Diagram 11** and **Detail 11**.

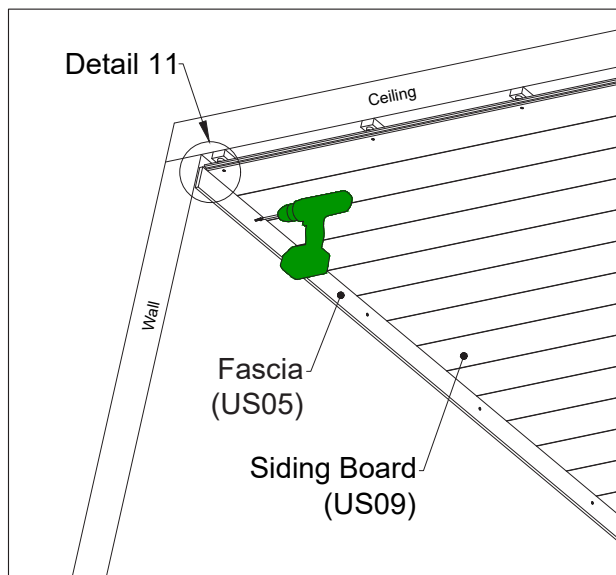
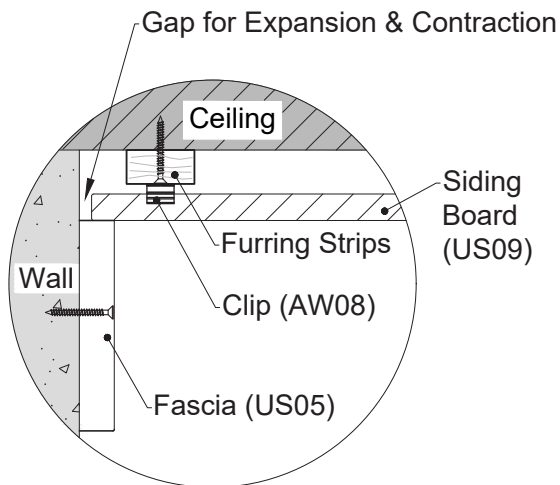


Diagram 11



Detail 11

- 12** Miter cut the trims according to the wall corner's angle for adjoining the trims in the wall corner, as shown in **Diagram 12** and **Detail 12**.

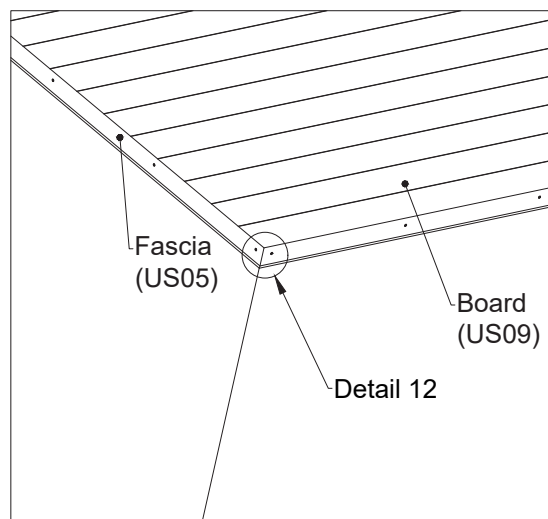
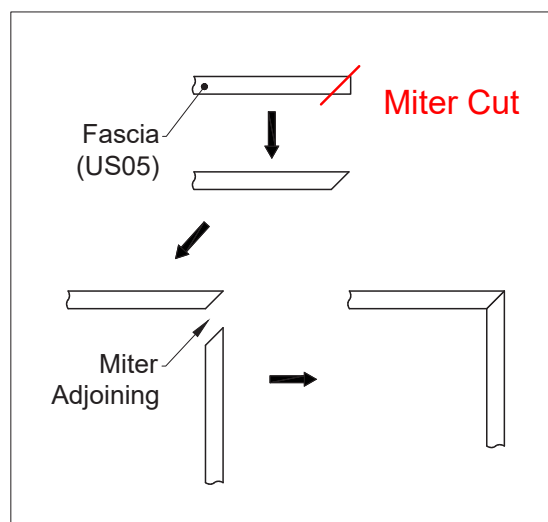
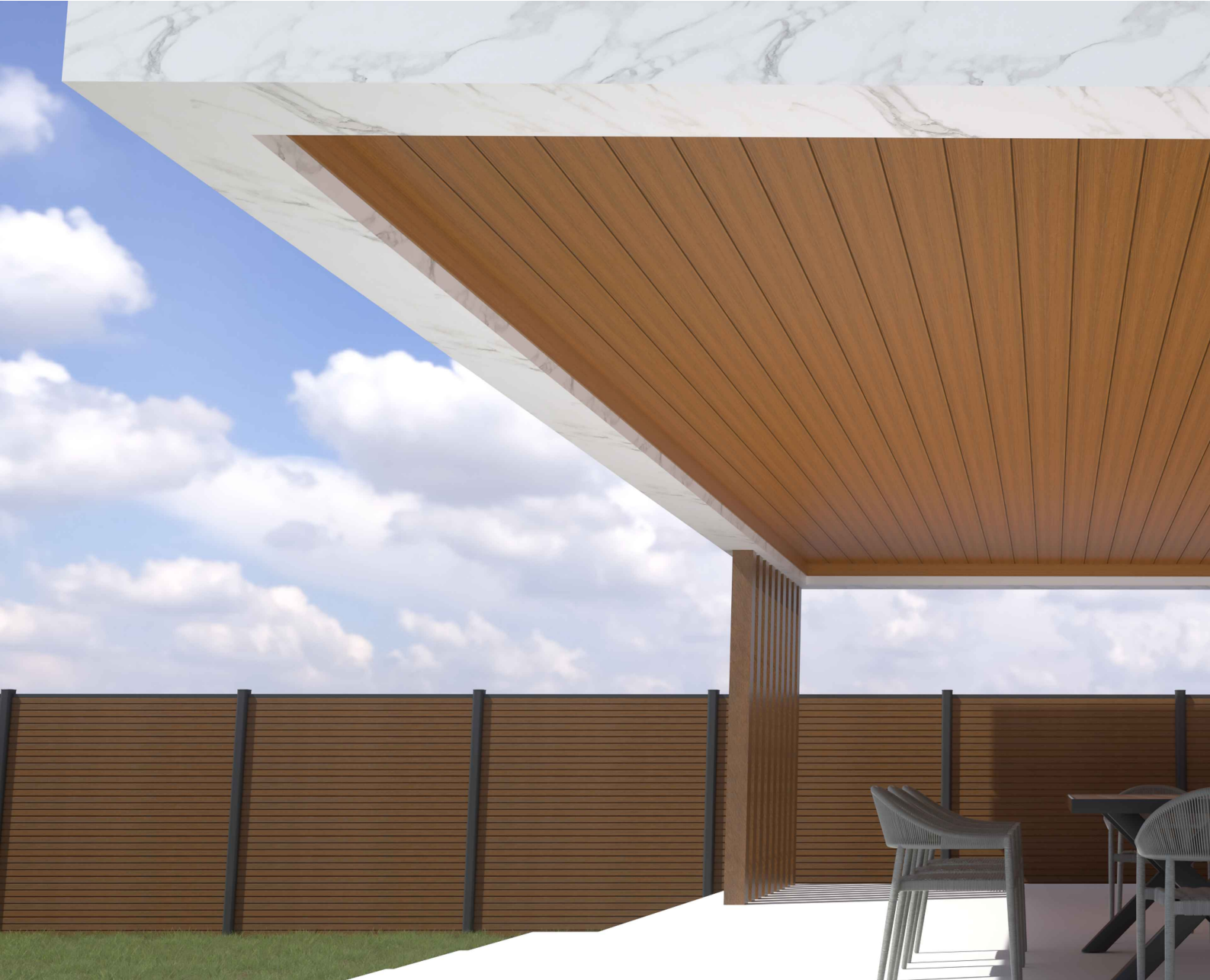


Diagram 12



Detail 12



All Weather Siding Ceiling Installation Guide

12.30.25 US