



European Siding System Window Reveal Installation Guide

06.12.25 US



CONTENTS

Important Note	3 - 5
European Siding Parts	6 - 8
Under Construction	9
Furring Strips Installation	10
Expansion and Contraction Values	11
Locking the Siding Board	12 - 15
Window Reveal Installation	
- Install the furring strips	16 - 19
- Install the trims around the window frame	20 - 22
- Install the boards	23 - 39

IMPORTANT NOTE:
Read All Sections Before You Start

For the most up to date information, please visit our website @ www.newtechwood.com

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 meant or implied to replace a licensed professional. Any construction or use of NewTechWood 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 any risk of injuries. NewTechWood recommends, but is not limited to the following safety equipment, when handling, cutting, and installing NewTechWood: gloves, a respiratory protection, long sleeves, pants, 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 deck screws are recommended.

Environment

A clean, smooth, flat, and strong surface is needed to install NewTechWood's products correctly. Please check with local building codes before ever installing any type of siding. If installation does not occur immediately, NewTechWood's products need to be put on a flat surface at all times. It should NEVER be put 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 material before using a pressure washer on the profiles to make sure that your settings will not damage the Ultrashield coating.

Construction

NewTechWood UltraShield is NOT intended for use as columns, support posts, beams, joist stringers, support against a force, or other primary load-bearing members. NewTechWood must be supported by a code-compliant substructure. While NewTechWood products are great for retrofits, NewTechWood's products CANNOT be installed on existing siding boards.

Ventilation

NewTechWood products CANNOT be directly installed onto a flat surface. It must be installed onto a substructure, so there is adequate and unobstructed air flow under the cladding to prevent excessive water absorption. A minimum of 1" (25mm) of continuous net free area under the siding surface is required for adequate ventilation on all siding, so air can circulate between adjacent members to promote drainage and drying.

Heat and Fire

Excessive heat on the surface of NewTechWood products from external sources such as but not limited to fire or reflection of focussing sunlight from some optical objects can potentially harm NewTechWood products. This extreme elevation of surface temperatures, which exceeds that of normal exposure, can possibly cause NewTechWood products to melt, sag, warp, discolor, increase expansion/contraction, and accelerate weathering.

Fasteners

When fastening NewTechWood's products all screws that are face fastened should always be driven in at a 90 degree angle to the siding surface. Toe screwing should never be done to the products. An extra furring strip should be added if a 90 degree angle cannot be driven into the board. All fasteners should be on their own independent furring strips, when two boards ends meet each other there must be a sister furring strip. The end of each board must sit on its own furring strip.

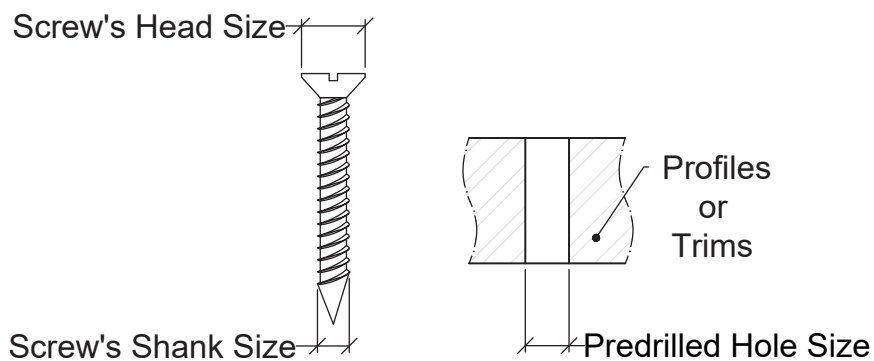
Use white chalk, straight boards, or string lines as templates for straight lines. NEVER USE COLORED CHALK. Colored chalk will permanently stain NewTechWood's products and are highly not recommended.

All screws that are face fixed should always be stainless steel. Depending on the screws that you use when face fixing, there could be potential bulging or mushrooming. It is recommended to take care of these mushrooms/bulges by taking a rubber mallet and patting them down to give your siding a better look.

When choosing which screws to use, always check first with your local home centers and hardware stores to see if they have screws that are engineered specifically for composite wood. These screws will always work and give NewTechWood's products the best looking outcome, using other screws that are not recommended for composite could potentially damage/harm the siding. If you are unsure which screw to use, contact your manufacturer for more information.



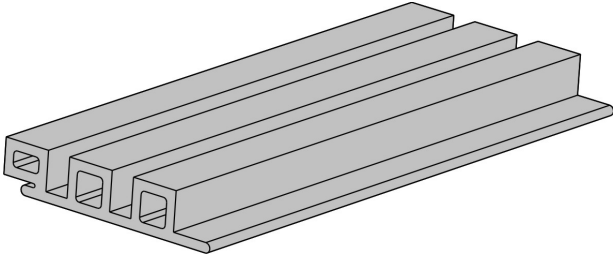
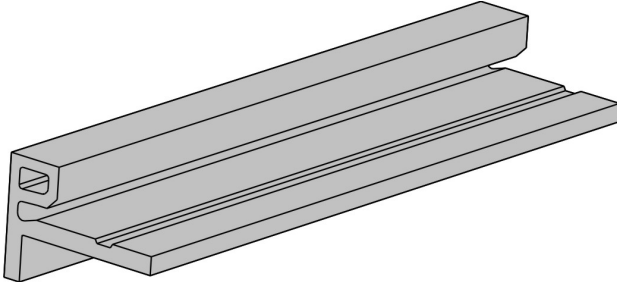
Predrill

It is recommended to use the #8 bugle head screw for face fixing the profiles and the trims onto the furring strip. When face fixing, it is recommended to predrill the holes slightly larger on the profiles and the trims to allow for expansion and contraction response to temperature change, as shown in below diagram,



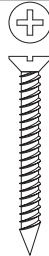


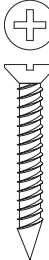

The predrilled hole size should be larger than the screw thread size, from 1/16" (1.5 mm) to 5/64" (2 mm). Moreover, the predrilled hole size should also be smaller than the screw head size, at least 5/64" (2 mm). A washer can be applied if the predrilled hole size is smaller than the screw head size below 5/64" (2 mm).

European Siding Parts

Product	Purpose	Part
AW-08	Used at every furring strip to fix each board onto the furring strip	
T-7	Used on the supporting for the last board	
UH46	European Siding Board	
UH50	End-Trim, used for the UH46 flushing installation on the outermost edge	

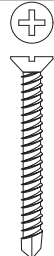




European Siding Screws (For Wood Furring Strip)

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

Product	Application	Part
#6 x 1-1/4" Stainless Steel SS304 (Bugle Head)	Used when locking the board into the Clip (AW08)	
#8 x 3" Stainless Steel SS304 **depends on the thickness of your furring strips (Bugle Head)	Used when installing the furring strips onto the wall	
#8 x 1" Stainless Steel SS304 (Bugle Head)	Used when installing the Clip (AW08) onto the wood furring strips	
#8 x 1-1/4" Stainless Steel SS304 (Bugle Head)	Use when face fixing the boards and the trims onto the wood furring strips	
#8 x 1-1/4" Stainless Steel SS304 (Pan Head)	Used when installing the Rubber Stopper (T-7) onto the wood furring strips	

European Siding Screws (For Aluminum Furring Strip)

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

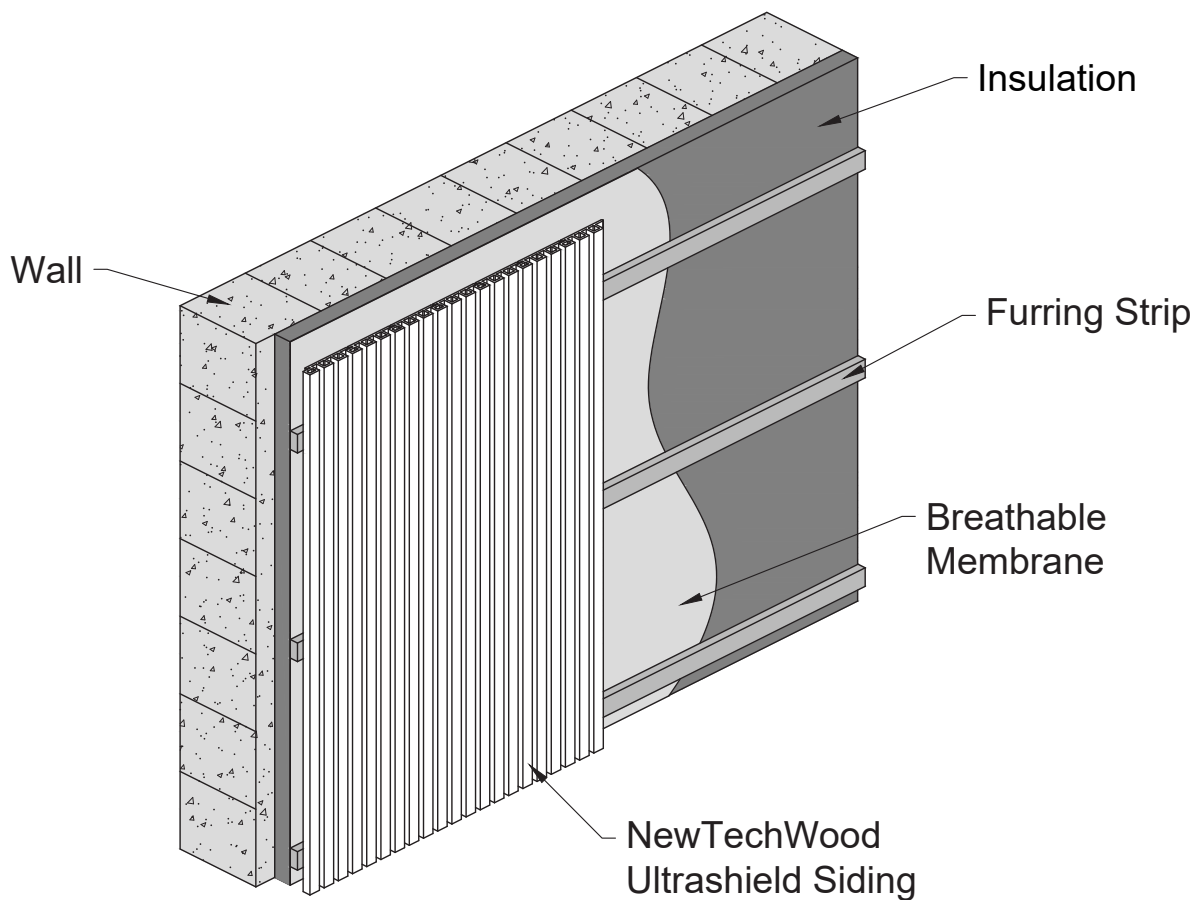
Product	Application	Part
#6 x 1-1/4" Stainless Steel SS304 (Bugle Head Self Tapping)	Used when locking the board into the Clip (AW08)	
#8 x 3" Stainless Steel SS304 **depends on the thickness of your furring strips (Bugle Head Self Tapping)	Used when installing the furring strips onto the wall	
#8 x 1" Stainless Steel SS410 (Bugle Head Self Tapping)	Used when installing the Clip (AW08) onto the aluminum furring strips	
#8 x 1-1/4" Stainless Steel SS410 (Bugle Head Self Tapping)	Use when face fixing the boards and the trims onto the aluminum furring strips	
#8 x 1-1/4" Stainless Steel SS304 (Pan Head Self Tapping)	Used when installing 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.

Under Construction

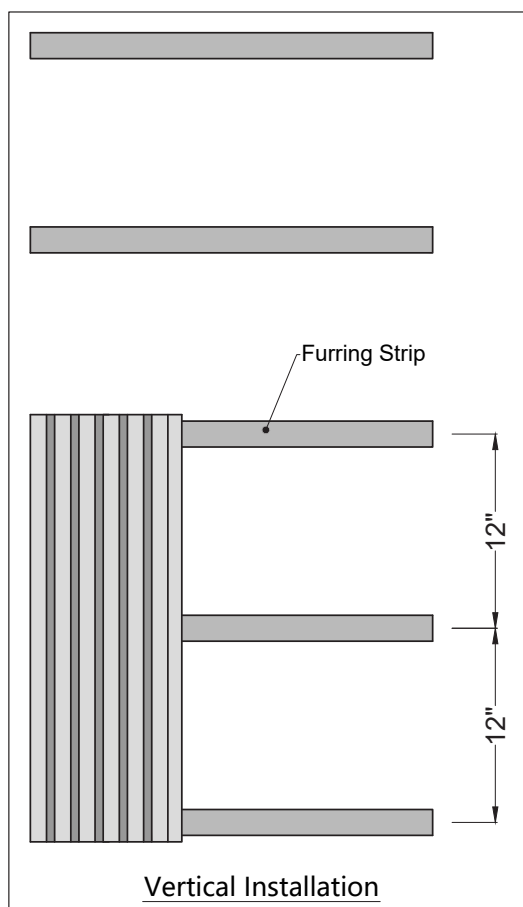
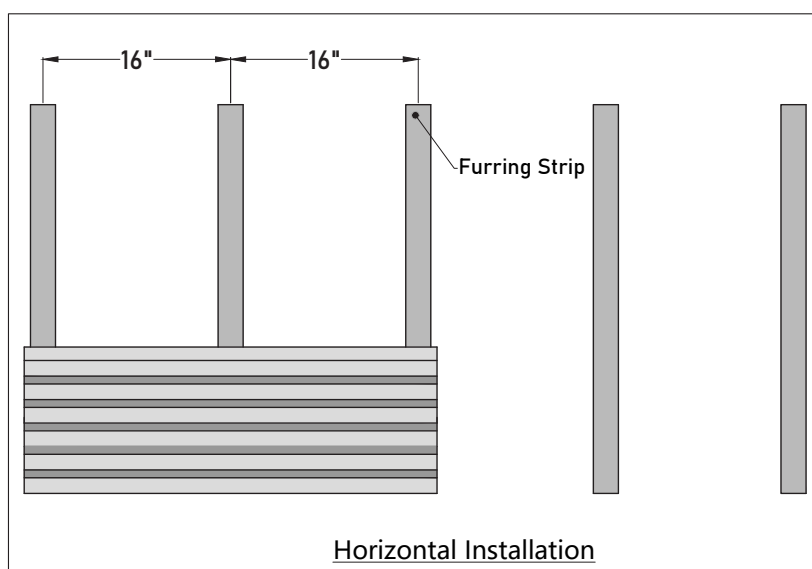
We recommend for the under construction aluminum or pressure treated wood furring strips. Each siding board needs to be supported by a furring strip NO MORE than 16" on centers for horizontal installation and 12" on centers for vertical installation. Extra care is required in order to provide sufficient joisting in and around obstacles such as windows, fascia's, soffits, guttering, ventilation points etc. Below is an example of the layers that would occur in a typical installation, but a licensed professional should always be consulted prior to any installation.



Furring Strips Installation

A building professional should be consulted regarding vapor barriers and insulation for your project. Where a vapor barrier is to be used, it should be a breathable type and must be positioned behind the furring strips. The furring strip should be 1" nominal or 3/4" actual in thickness.

Wood furring strips should be fixed into position at a maximum of 16" on centers for horizontal installation and 12" on centers for vertical installation using a suitable #8 Stainless Steel Countersunk Wood/Masonry screw. All furring strips needs to be flat and leveled against the wall surface use shims if necessary.



Expansion and Contraction Values

NewTechWood siding boards will experience expansion and contraction with changes in temperature. Expansion and contraction are most significant where extreme temperature changes occur. Fastening the deck planks according to the gapping requirements noted in the following table accommodates for this movement.

Expansion and Contraction table of values for North America

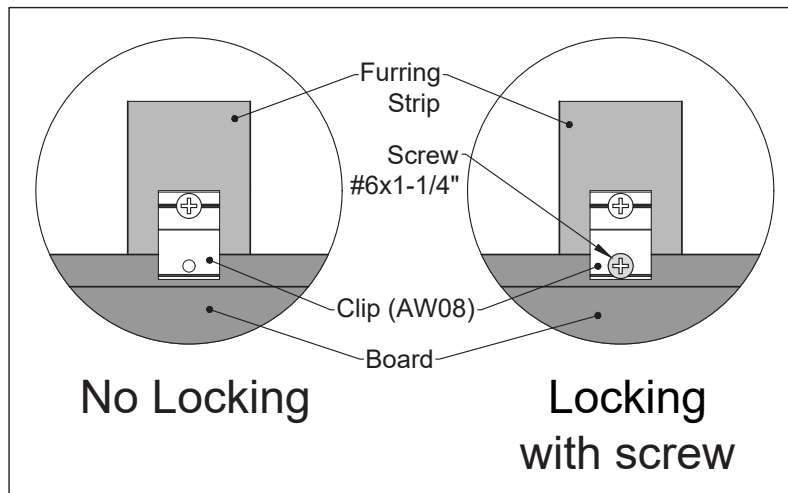
Installation Temperature (Farhenheit)	Length (Feet)									
		3	8	9	10	12	13	16	18	
	32	1/16	1/8	1/8	3/16	3/16	1/4	1/4	5/16	Gap (in)
	41	1/16	1/8	1/8	1/8	3/16	3/16	1/4	1/4	
	50	1/16	1/8	1/8	1/8	1/8	3/16	3/16	3/16	
	59	1/16	1/16	1/16	1/8	1/8	1/8	1/8	3/16	
	68	3/64	1/16	1/16	1/16	1/16	1/8	1/8	1/8	
	77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

Note: If you are still unsure of what gapping to use, contact the manufacturer and they will give you the correct gapping requirements based on your environment and area.

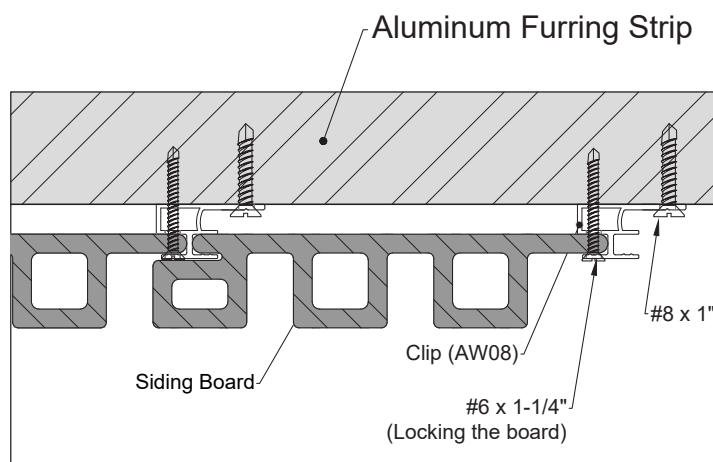
Locking the Siding Board

Since the composite wood must allow for expansion and contraction due to temperature change, the board must be locked at one or two adjacent fixed points to allow the remaining board to expand and contract freely. In the case there is a need to lock the board, Clip (AW08) comes with a separate hole.

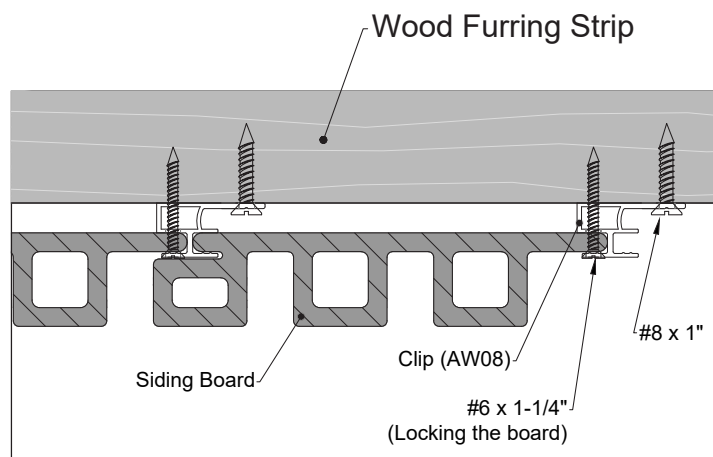
It is important that **DO NOT LOCK** any other clips for the same board.



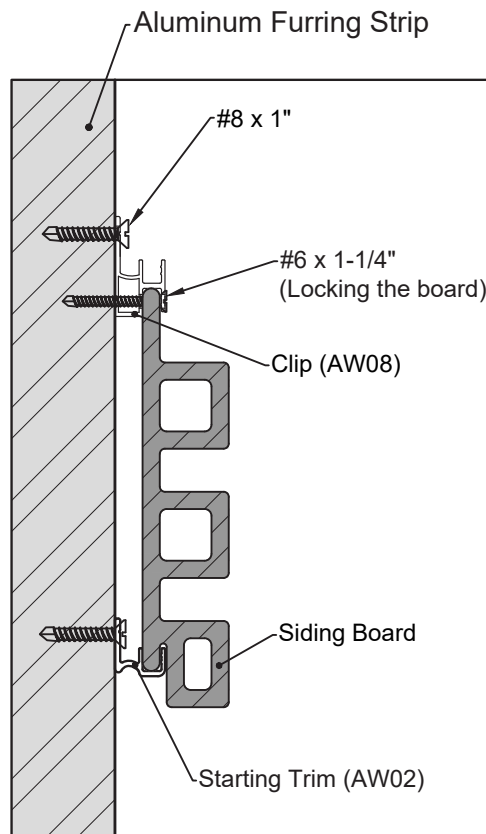
- Vertical Installation - Aluminum Furring Strip



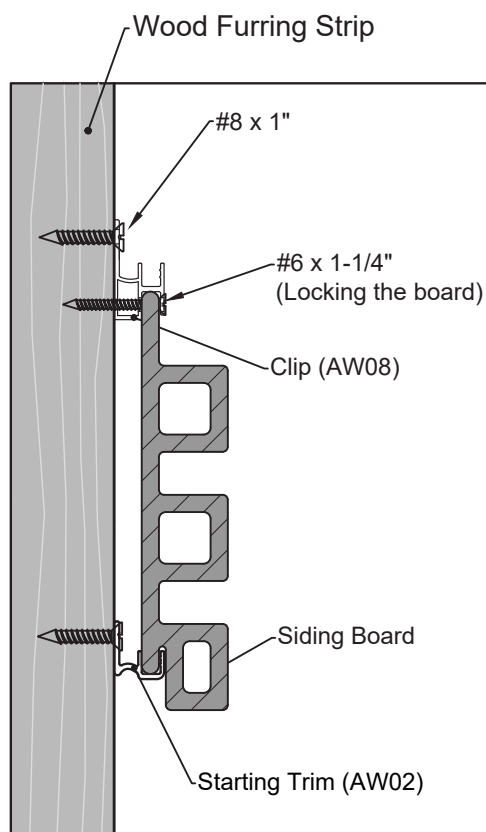
- Vertical Installation - Wood Furring Strip



- Horizontal Installation - Aluminum Furring Strips



- Horizontal Installation - Wood Furring Strips



When installing vertically, it is required to lock the Clip (AW08) at the bottom of the board to allow the remaining board to expand and contract freely.

Note:

It is required to lock the first and second clip (AW08) counted from the bottom of the board, as shown in **Diagram A1**

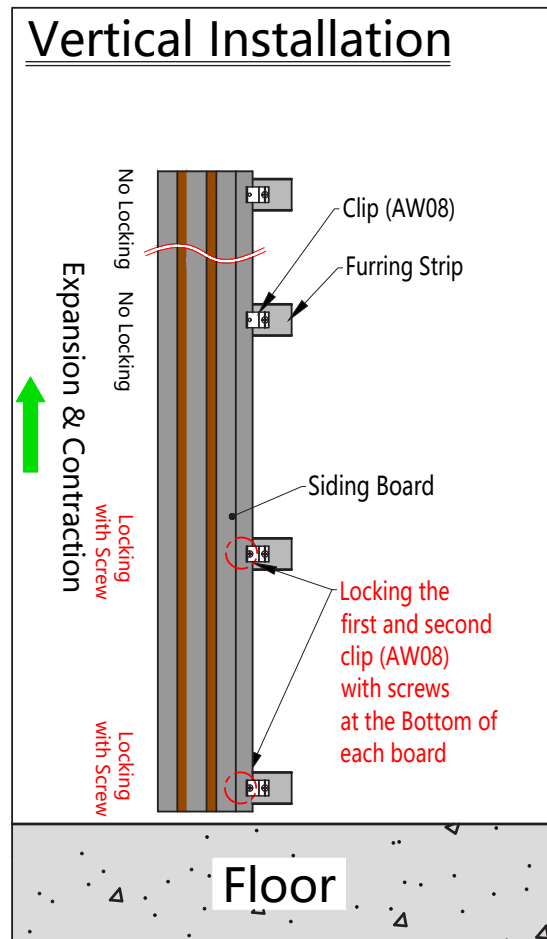
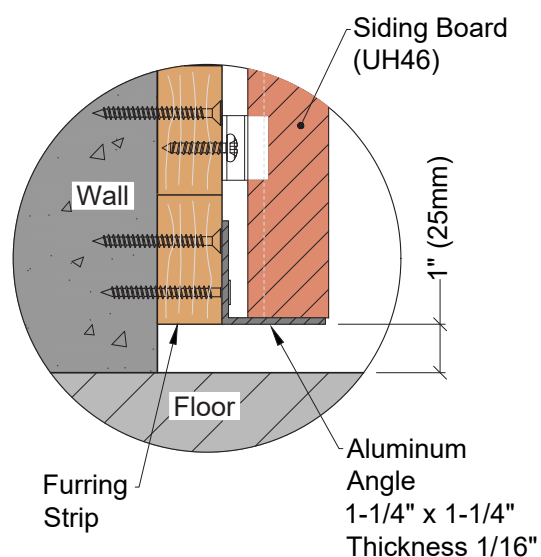


Diagram A1

Please Note:

Use aluminum angle or equivalent at the bottom of the siding is a must to hold the boards when installing vertically, as shown in the diagram right.



When installing horizontally, it is required to lock the Clip (AW08) at the middle of the board, as shown in **Diagram A2**.

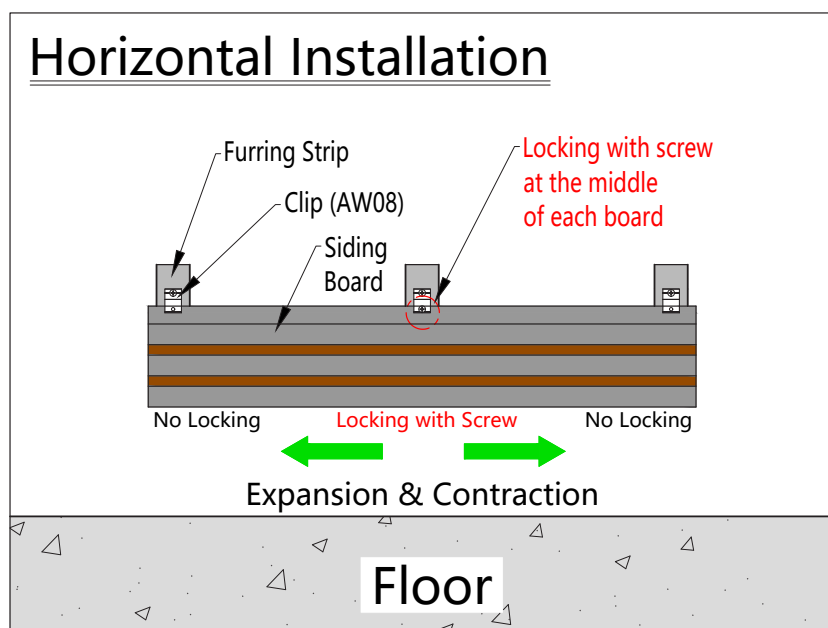
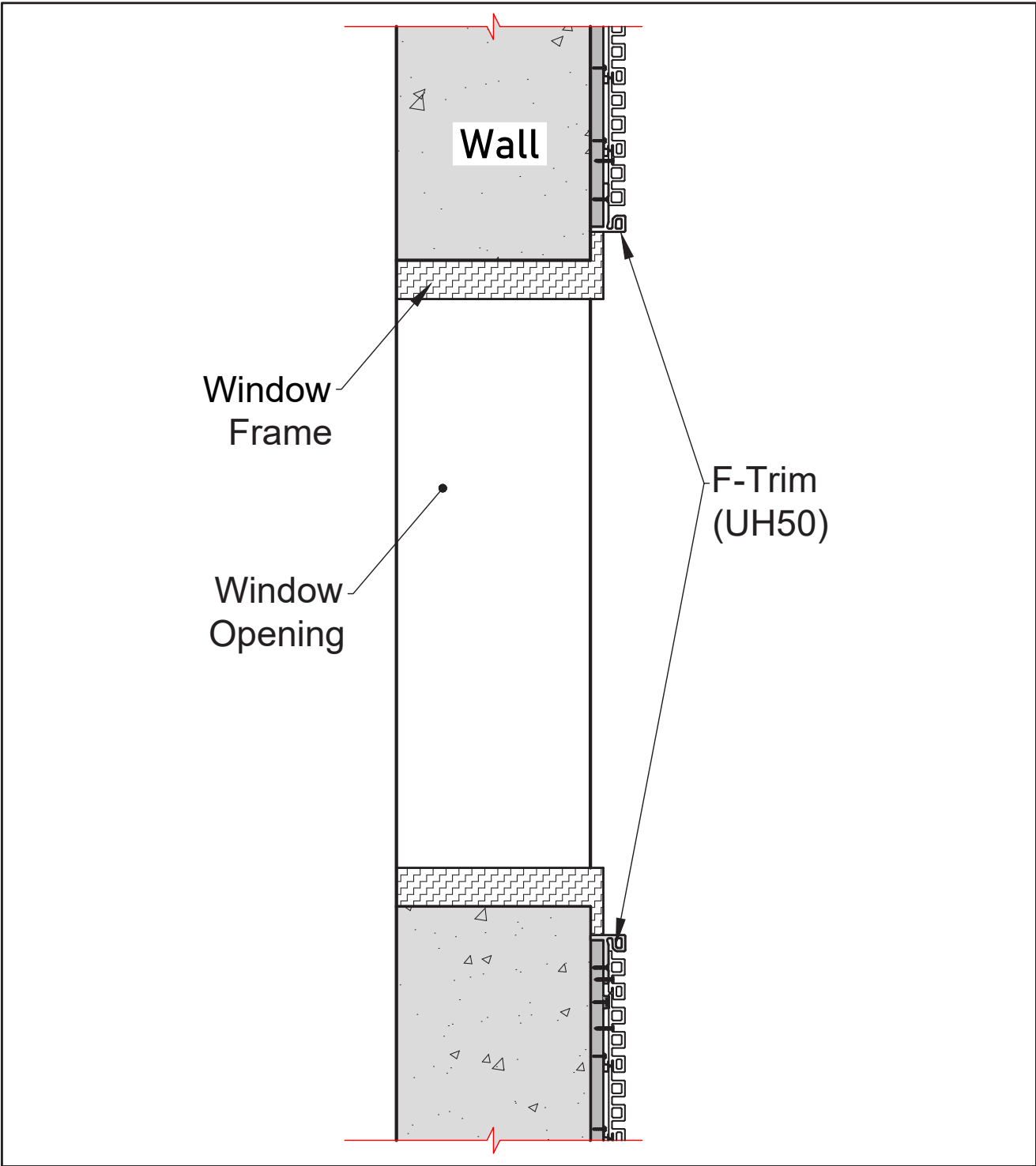


Diagram A2

Window Reveals Installation

Use the F-Trim UH50, picture framing the the window, as shown below,



- 1 Fix the furring strips onto the wall according to the span data specified on page 10 "Furring Strips Installation" of this installation guide.

It is necessary to install two furring strips width of at least 4" next to the sides of the window frame for the horizontal installation or against the window head and the windowsill for the vertical installation. And the length should be longer than the window frame in a min of 3-1/8", as shown in Diagram 1-1 (Horizontal Installation) and Diagram 1-2 (Vertical Installation).

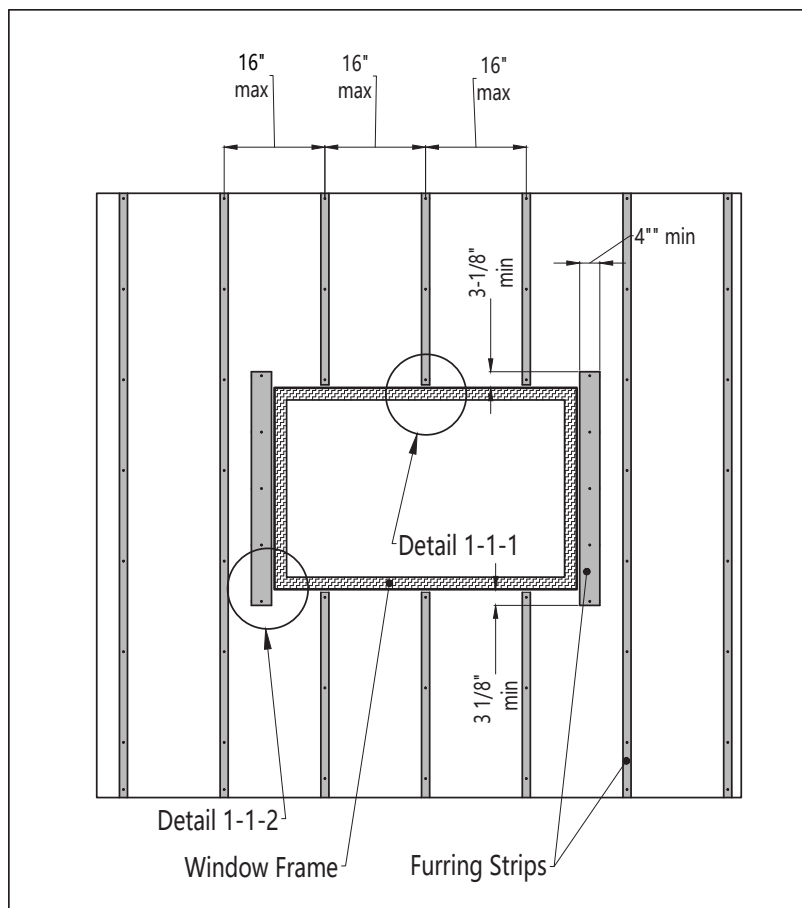
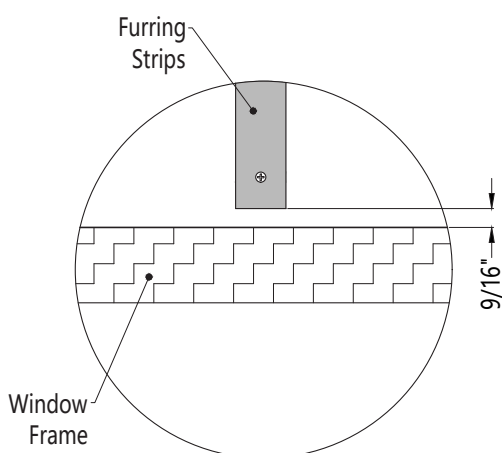
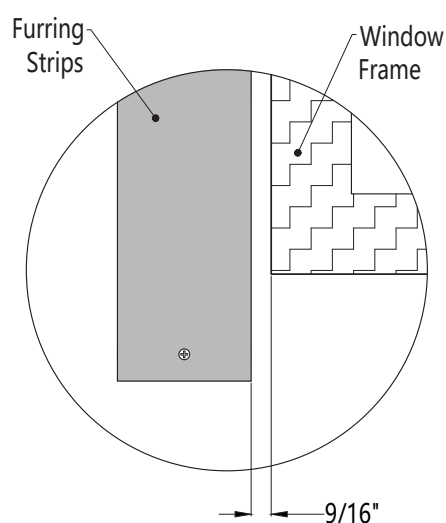


Diagram 1-1

For Siding Horizontal Installation



Detail 1-1-1



Detail 1-1-2

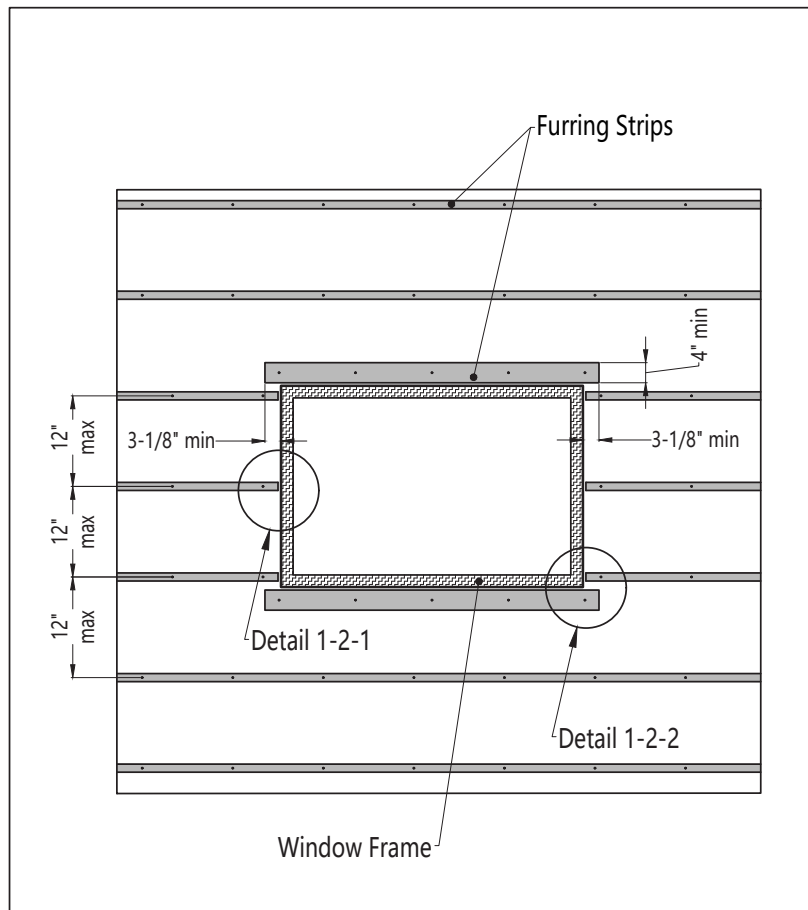
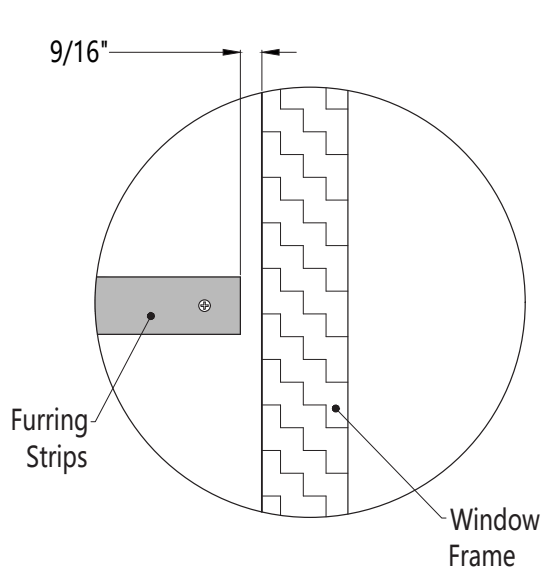
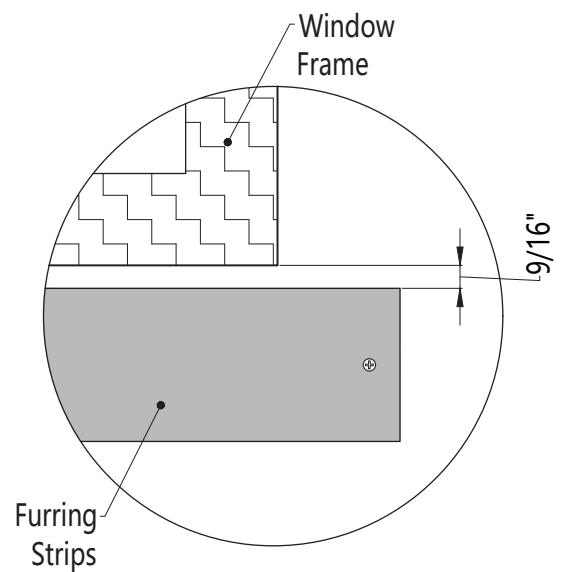


Diagram 1-2

For Siding Vertical Installation



Detail 1-2-1



Detail 1-2-2

- 2 measure the width and the height of the window frame, as shown in **Diagram 2-1** (Horizontal Installation) and **Diagram 2-2** (Vertical Installation).

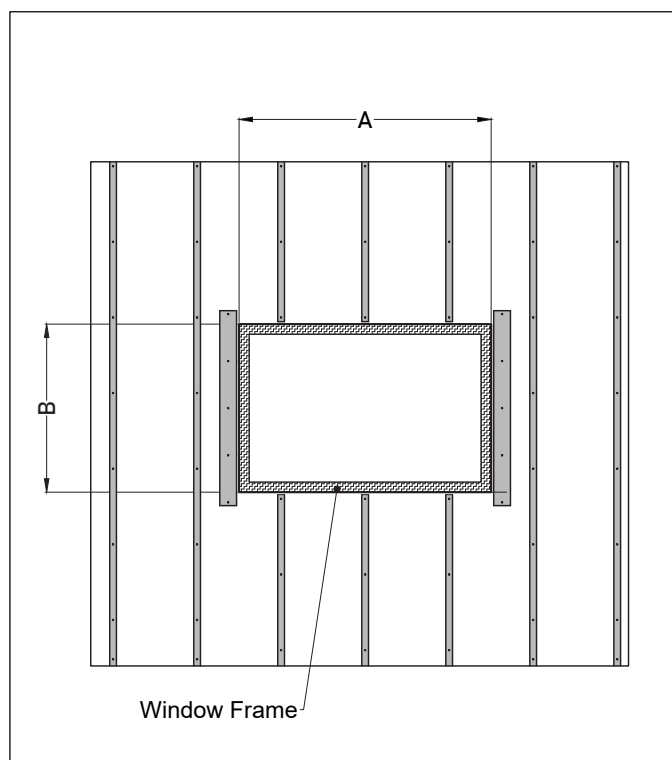


Diagram 2-1
For Siding Horizontal Installation

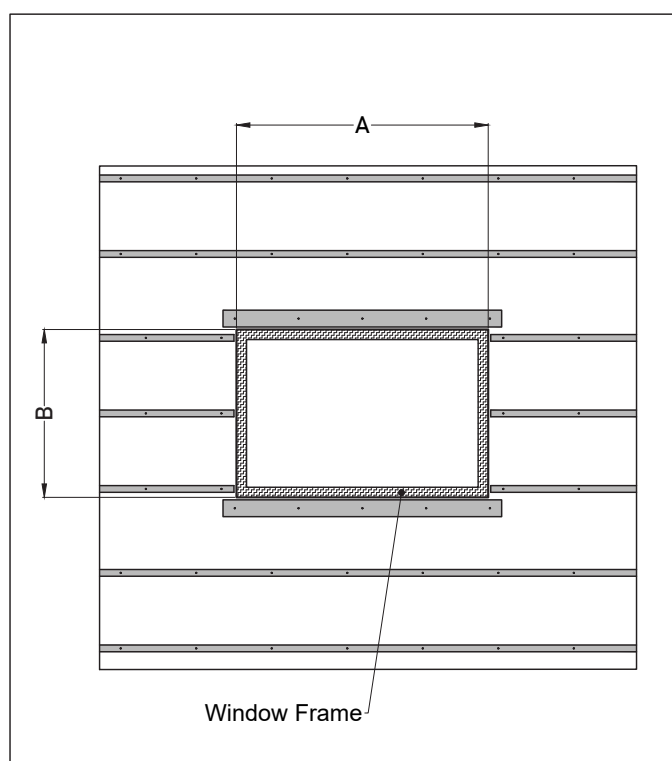


Diagram 2-2
For Siding Vertical Installation

- 3 Mitre cut the F-Trim (UH50) according to the measurement, as shown in **Diagram 3**.

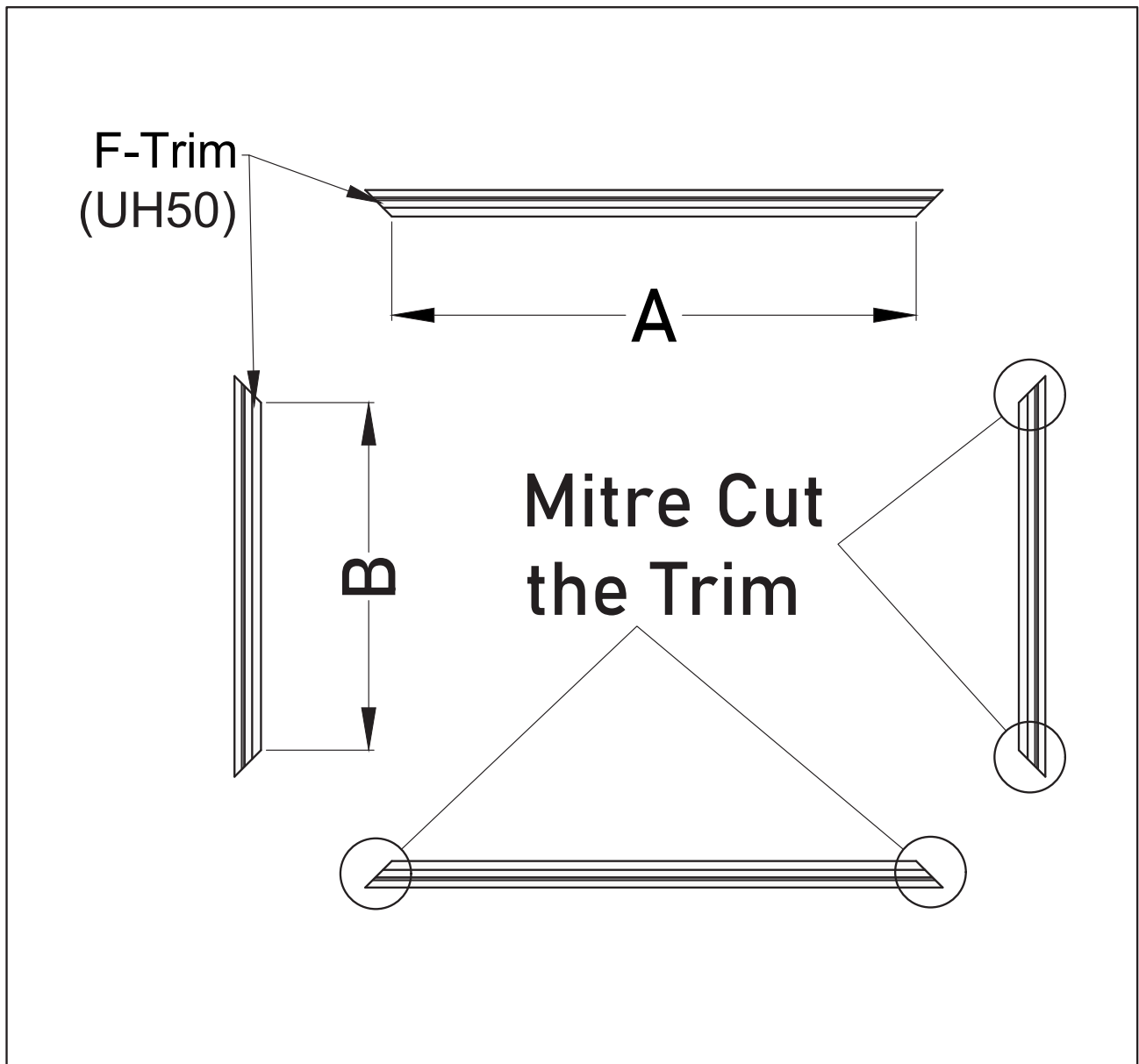


Diagram 3

- 4 Secure the mitre cut End-trims onto the furring strips with screws in the max distance of 19-11/16" on center, picture framing the window.

Siding Horizontal Installation, as shown in **Diagram 4-1**, **Detail 4-1-1**, and **Detail 4-1-2**.

Siding Vertical Installation, as shown in **Diagram 4-2**, **Detail 4-2-1**, and **Detail 4-2-2**.

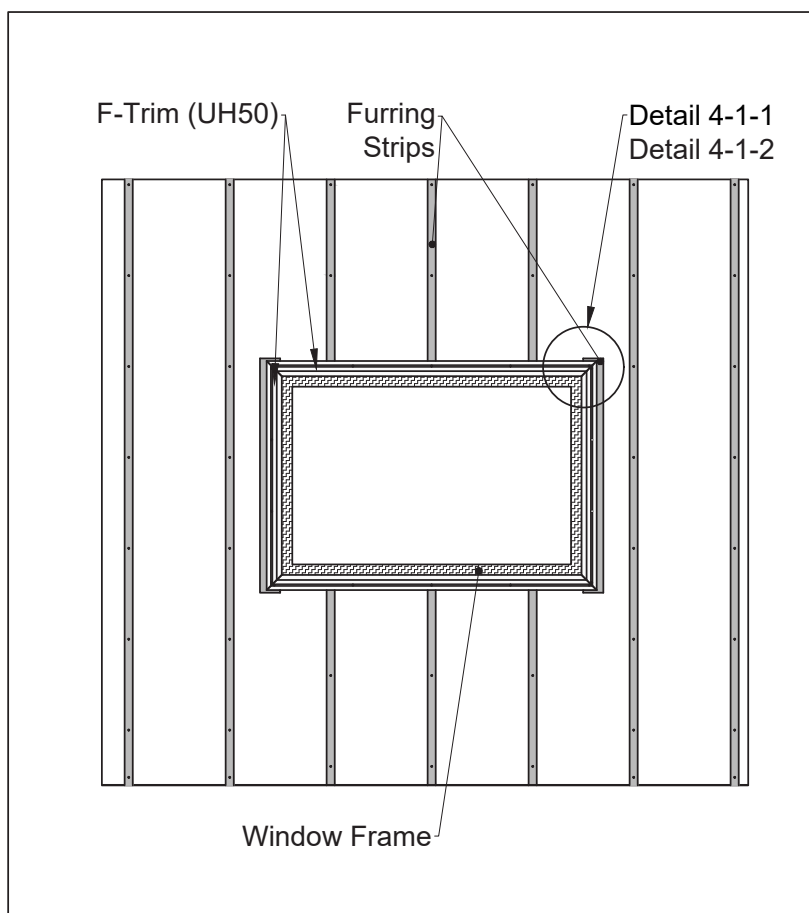
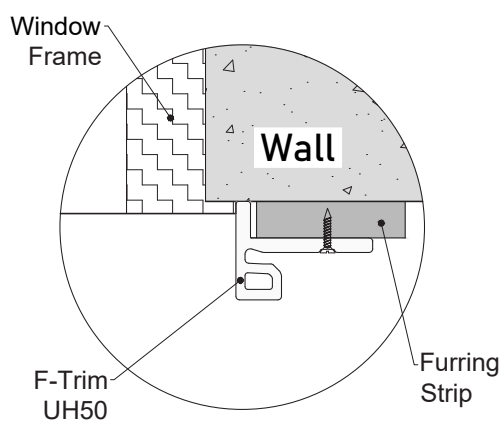


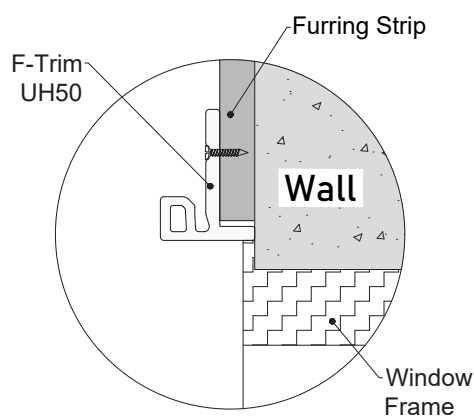
Diagram 4-1

For Siding Horizontal Installation



View from the Top

Detail 4-1-1



View from the Side

Detail 4-1-2

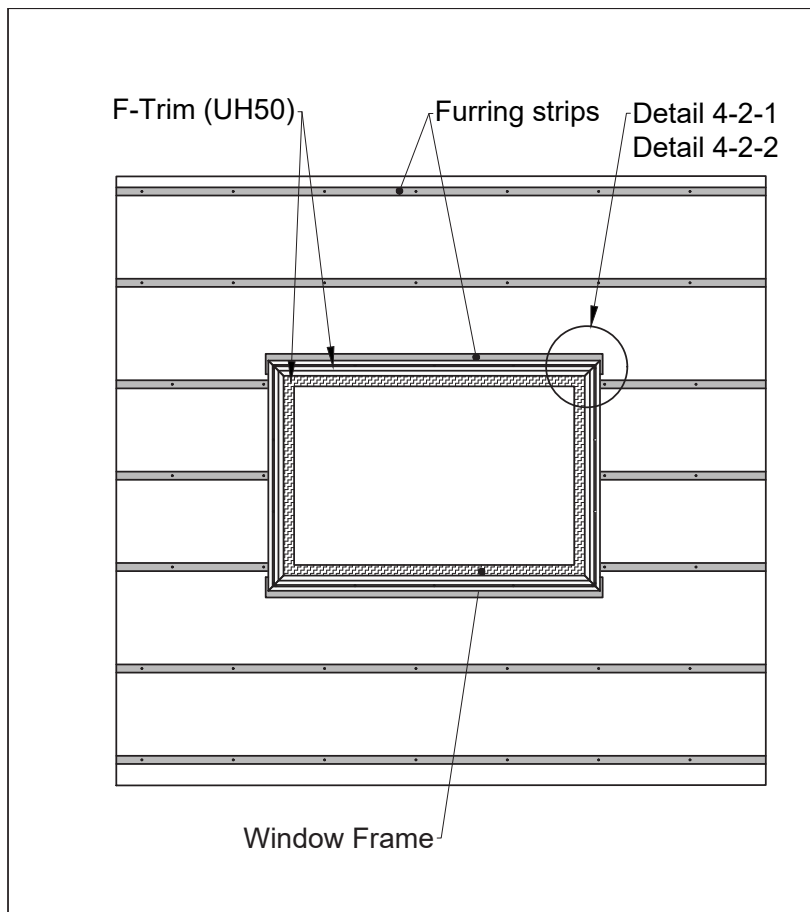
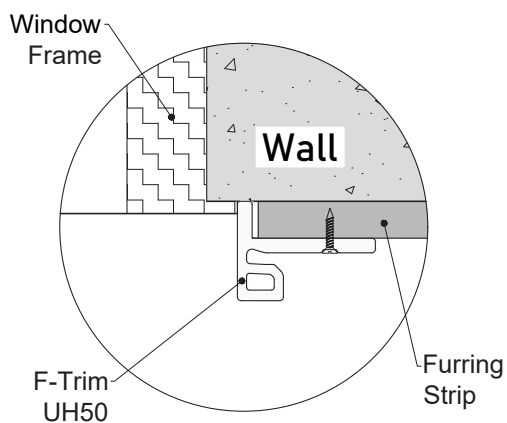


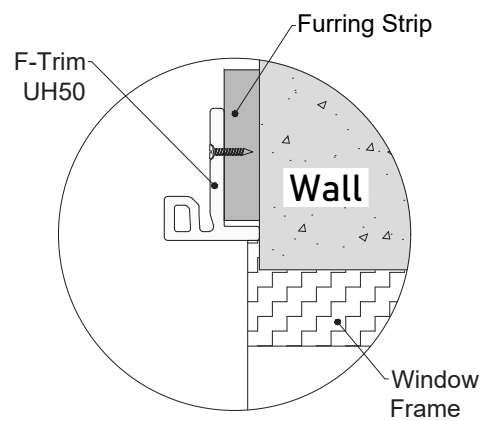
Diagram 4-2

For Siding Vertical Installation



View from the Top

Detail 4-2-1



View from the Side

Detail 4-2-2

- 5** Install the boards against the Clips (AW08), and lock the boards according to the instruction on page 12 "**Locking the Siding Board**" of this installation guide.

Siding Horizontal Installation, as shown in **Diagram 5-1**, **Detail 5-1-1**, and **Detail 5-1-2**.
Siding Vertical Installation, as shown in **Diagram 5-2**, **Detail 5-2-1**, and **Detail 5-2-2**.

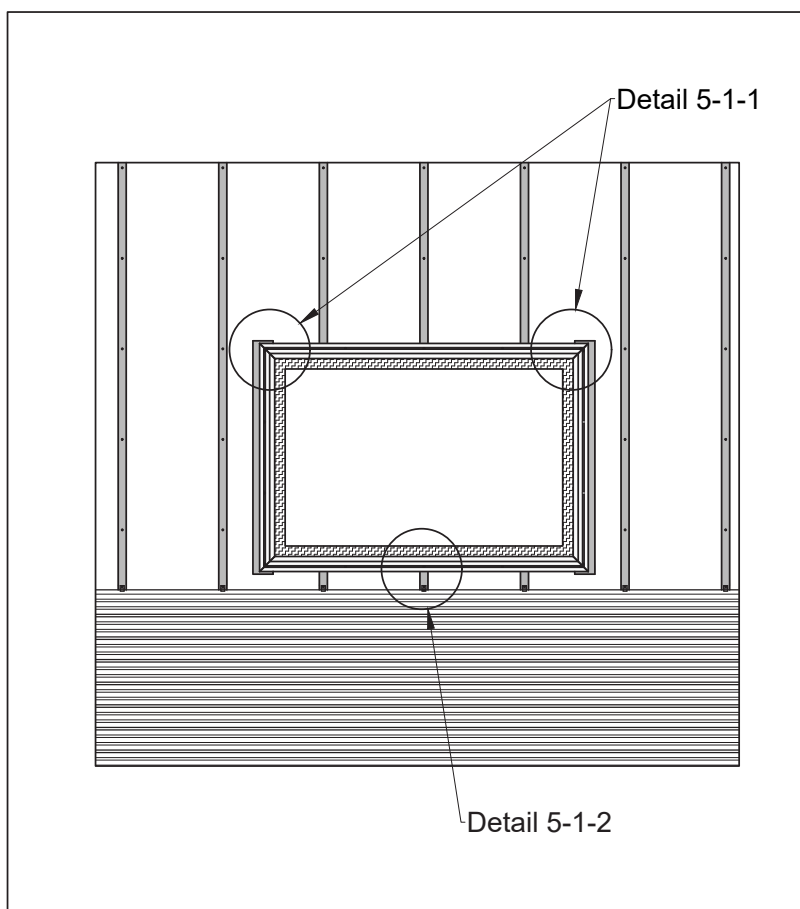
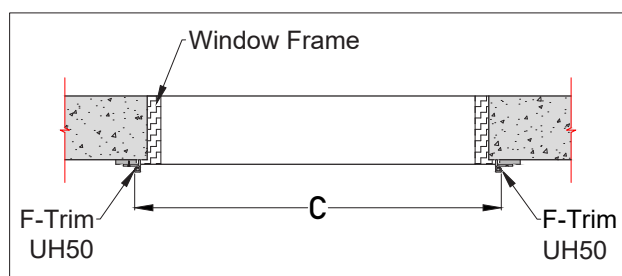
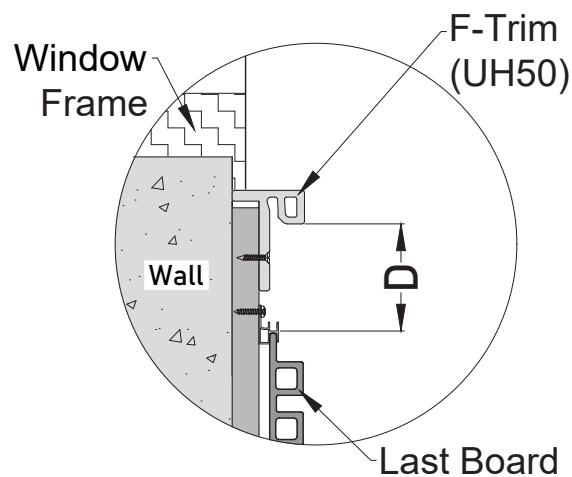


Diagram 5-1



Detail 5-1-1



Detail 5-1-2

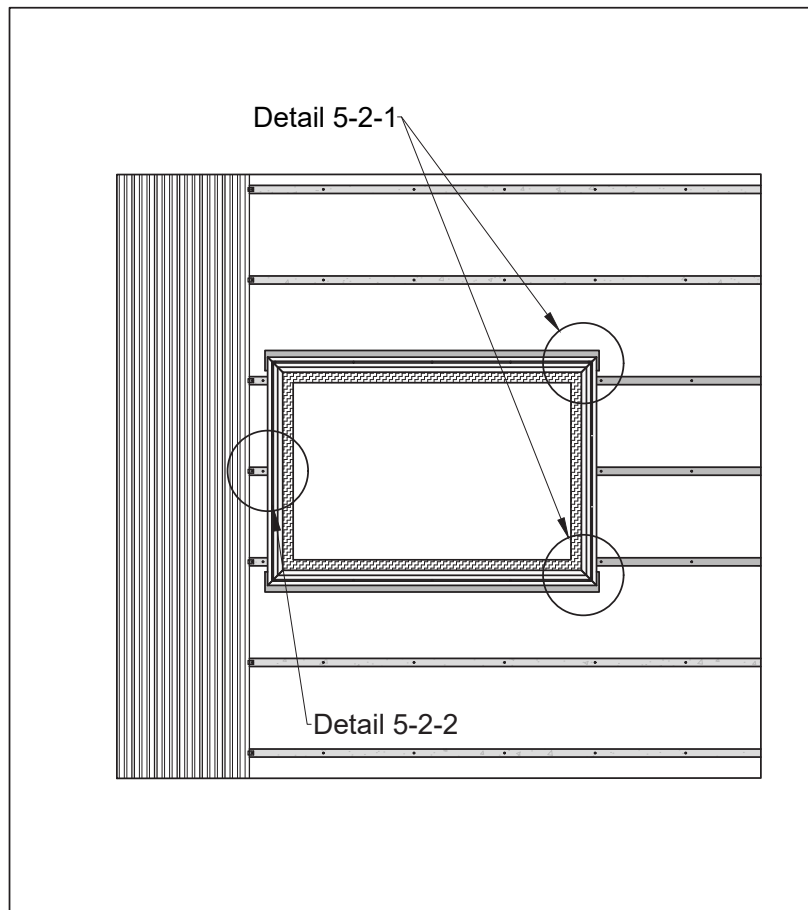
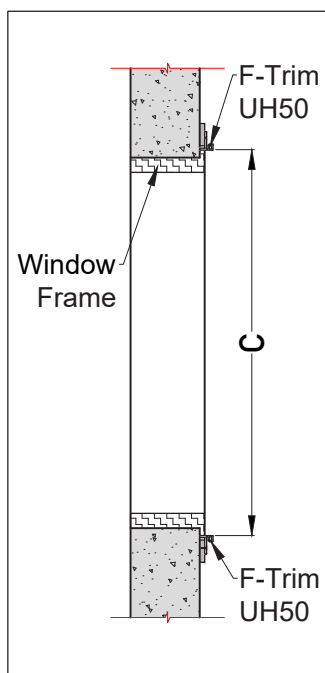
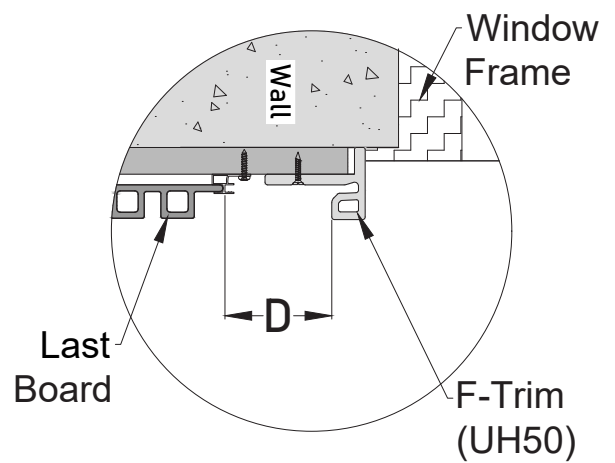


Diagram 5-2



Detail 5-2-1



Detail 5-2-2

- 6 Refer to the measurement to determine how to cut the notch on the board to get the appropriate gap between the trim.

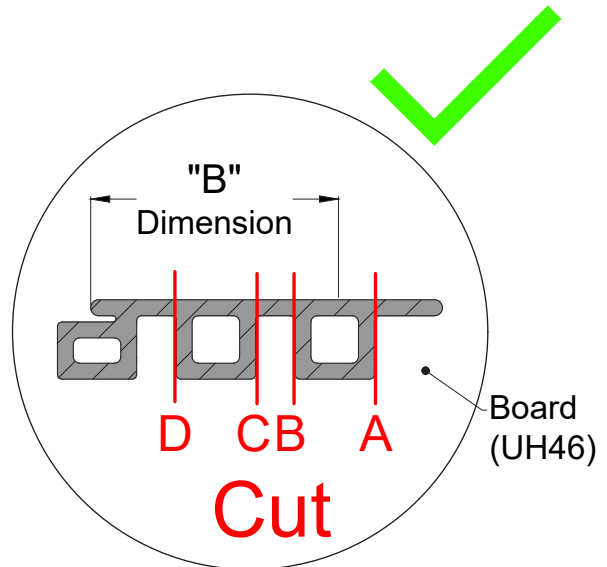
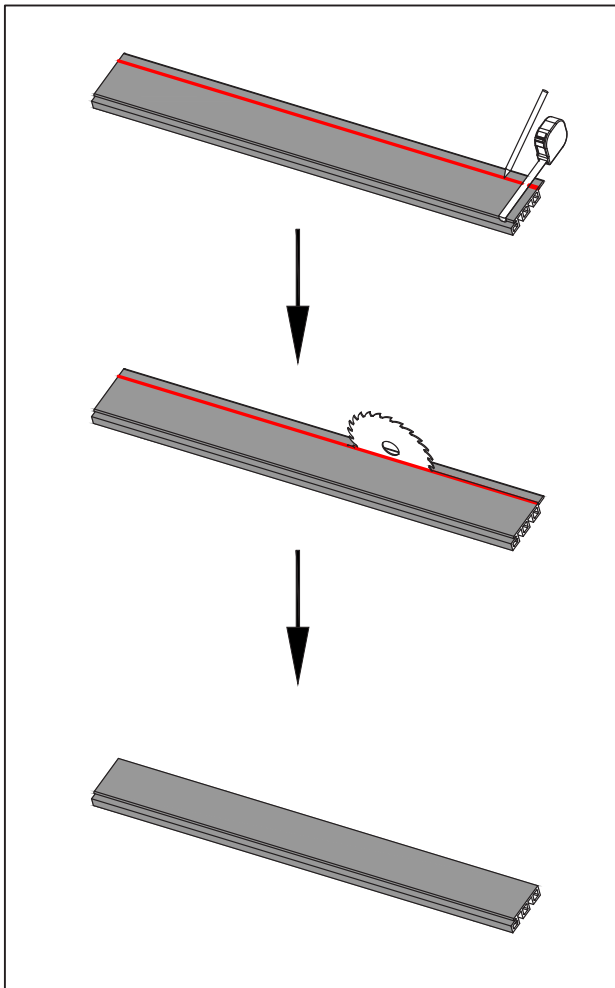
Siding Horizontal Installation, as shown in Diagram 6-1.

Siding Vertical Installation, as shown in Diagram 6-2.

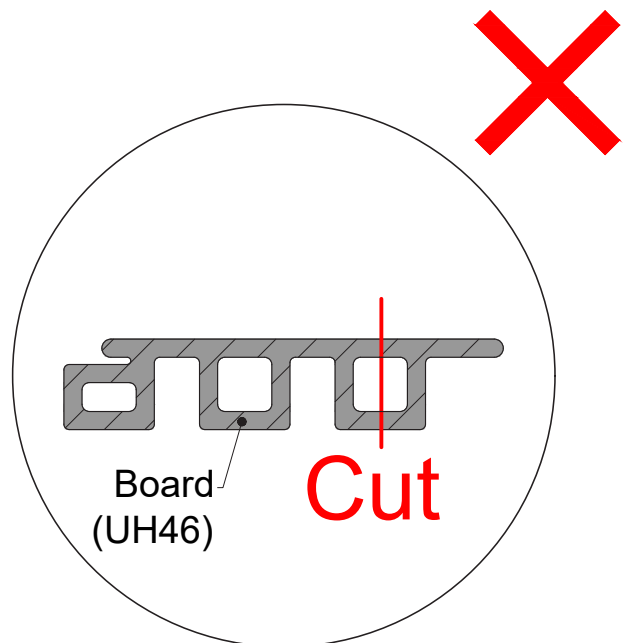
Please Note:

it is recommended to cut the board, as shown in Detail 6-1.

Don't cut the board on the raised portion, as shown in Detail 6-2.

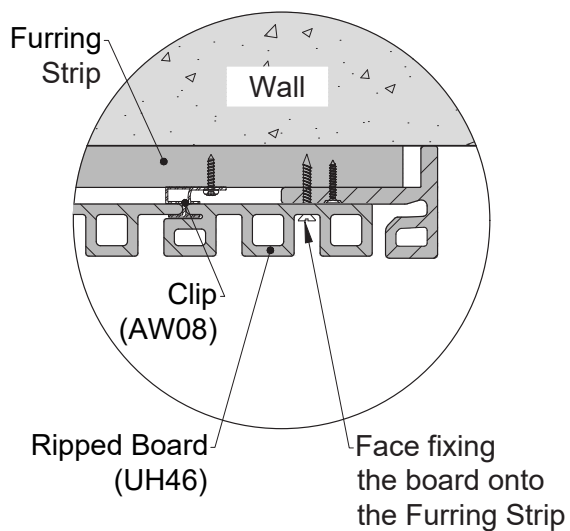


Detail 6-1

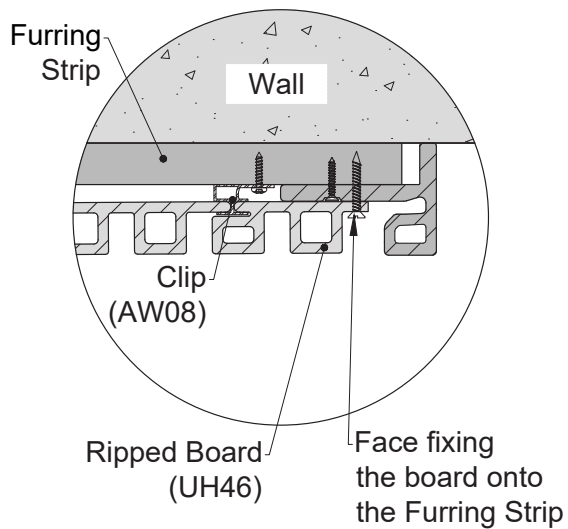


Detail 6-2

Detail 6-3 and **Detail 6-4** present the installation details when the rip point is at A or B.

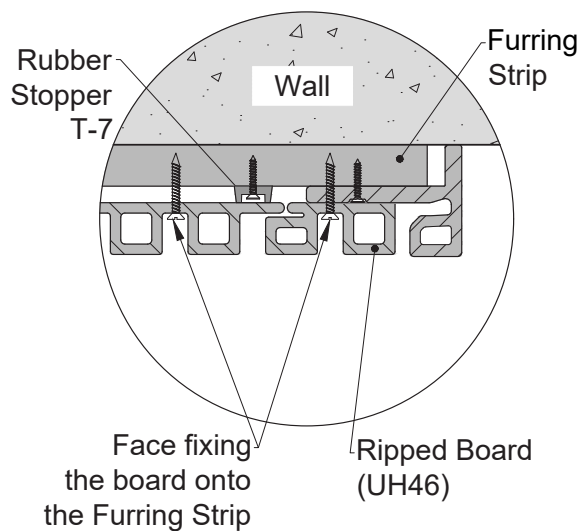


Detail 6-3

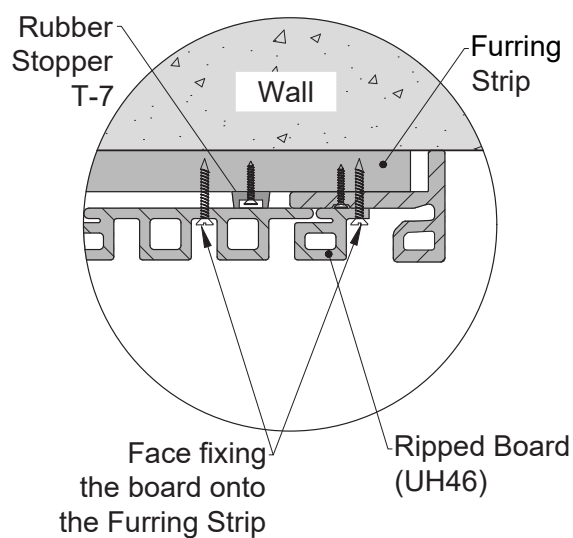


Detail 6-4

When the rip point occurs at C or D, use a rubber stopper T-7 instead the Clip AW08 and face fix the boards, as shown in **Detail 6-5** and **Detail 6-6**.



Detail 6-5



Detail 6-6

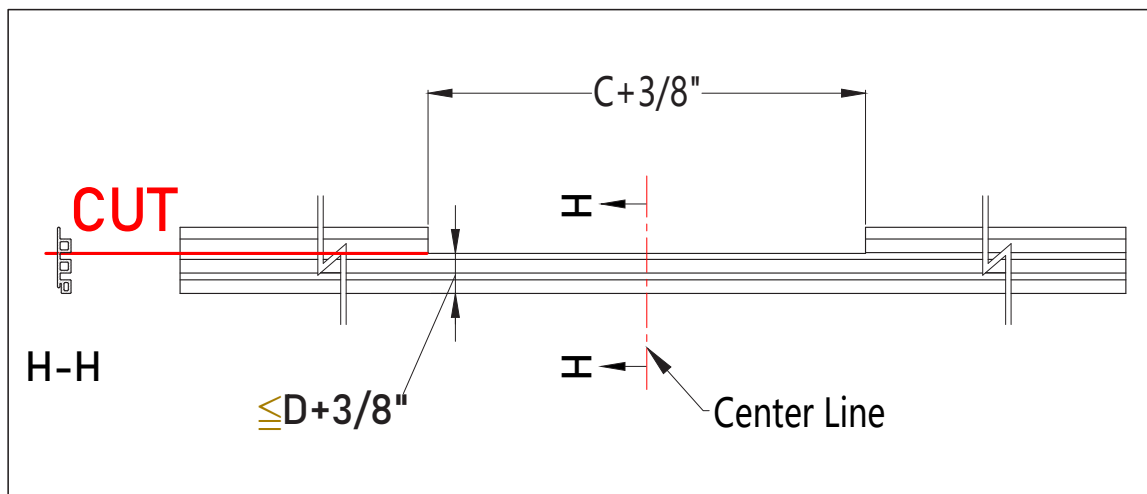


Diagram 6-1
For Siding Horizontal Installation

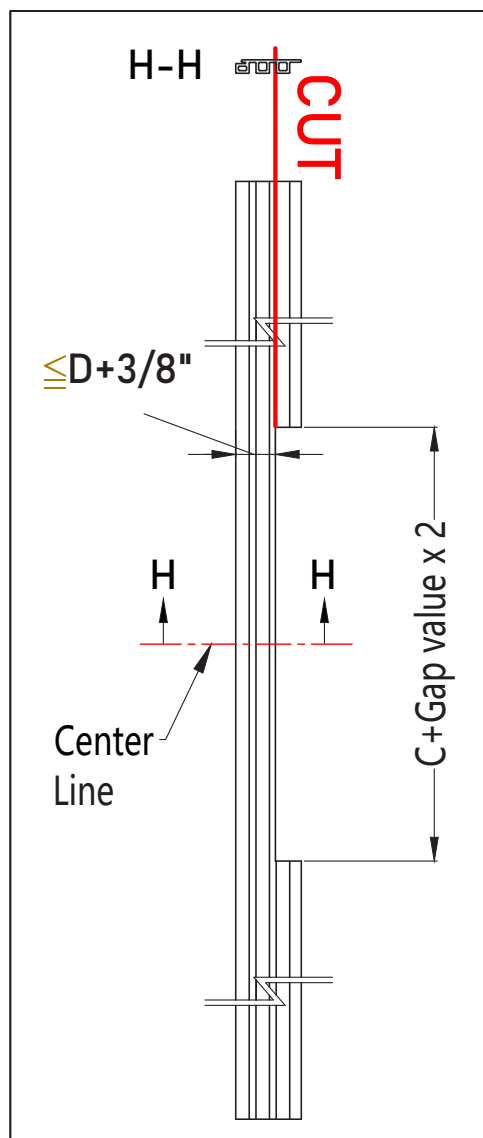


Diagram 6-2
For Siding Vertical Installation

- 7 Put the ripped board in place against the Clips (AW08);

Siding Horizontal Installation,

Face fix the section of the board underside the windowsill with screws onto the furring strips. Except for the middle screw, predrill the screw holes to allow the board for expansion and contraction. Then lock the board onto the furring strip with the middle screw, also do not lock any other Clip (AW08) for the same board, as shown in **Diagram 7-1**, and **Detail 7-1-1**.

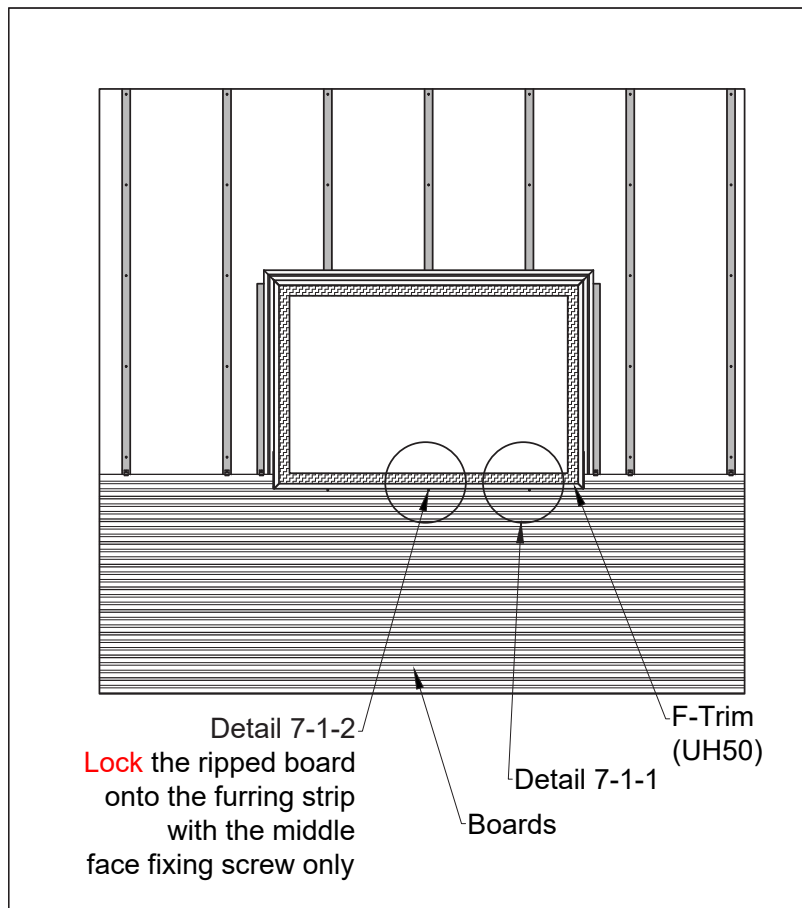
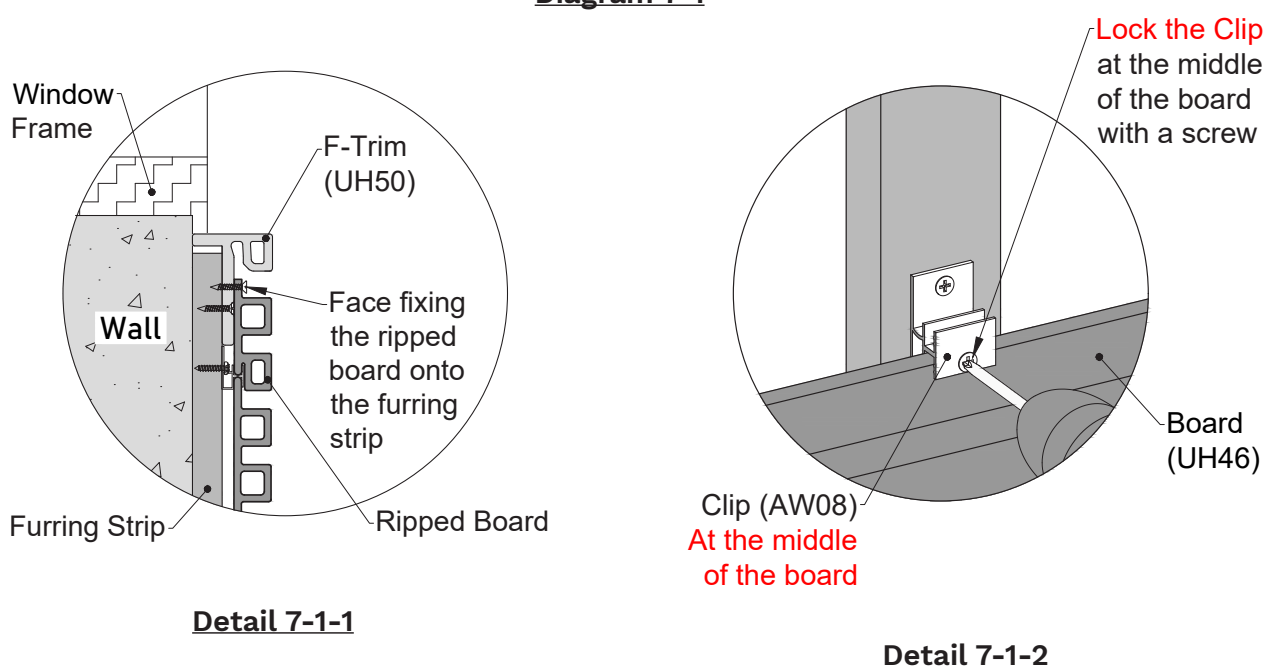


Diagram 7-1



Siding Vertical Installation,

Lock the Clip (AW08) at the bottom of the board only, do not lock any other Clips (AW08) for the same board, as shown in **Diagram 7-2**, and **Detail 7-2-1**.

Note:

Please review page 12, "*Locking the Siding Board*" of this installation guide for further information.

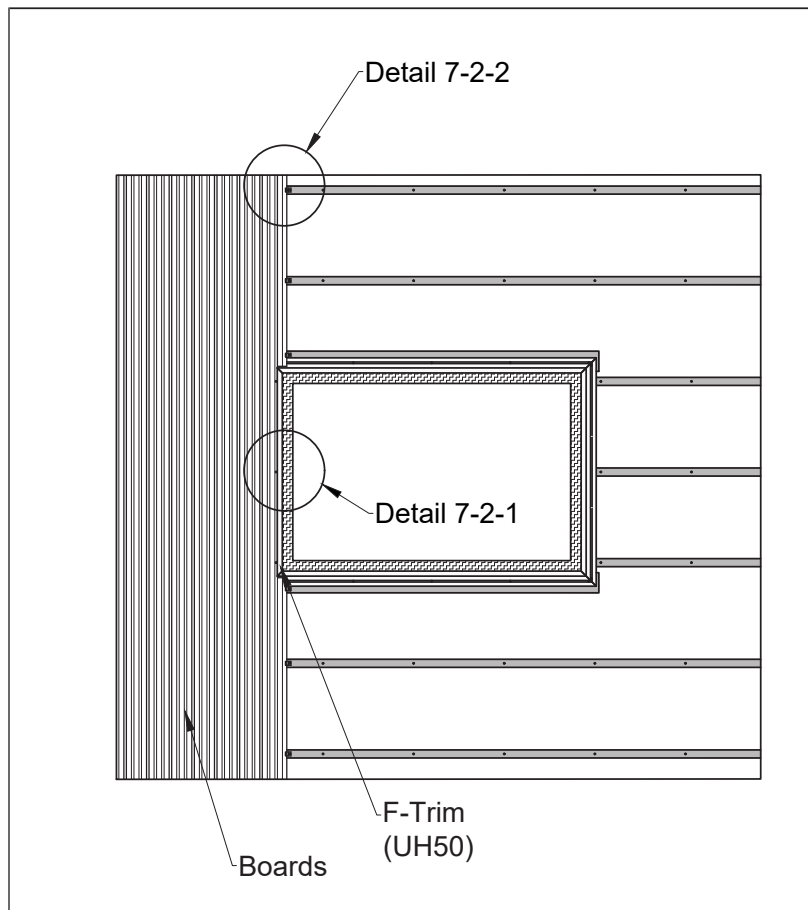
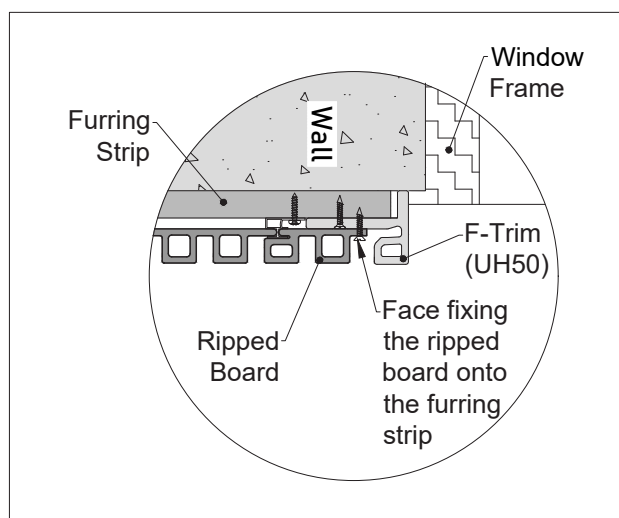
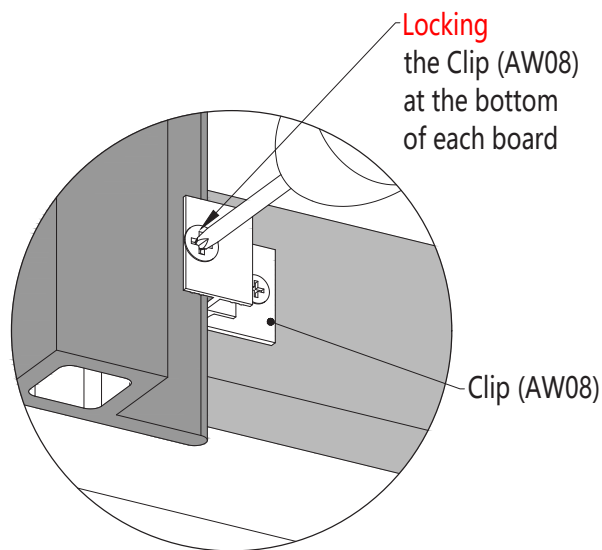


Diagram 7-2



Detail 7-2-1



Detail 7-2-2

- 8 Install the boards against the sides of the window or the window head and the windowsill.

Siding Horizontal Installation,

We recommend having a 3/16" clearance between the F-Trim (UH50) and the boards, as shown in **Diagram 8-1**, and **Detail 8-1-1**. Next, lock the Clip (AW08), which is next to the window frame, to allow the board for expansion and contraction outward the window frame in one direction, as shown in **Detail 8-1-2**.

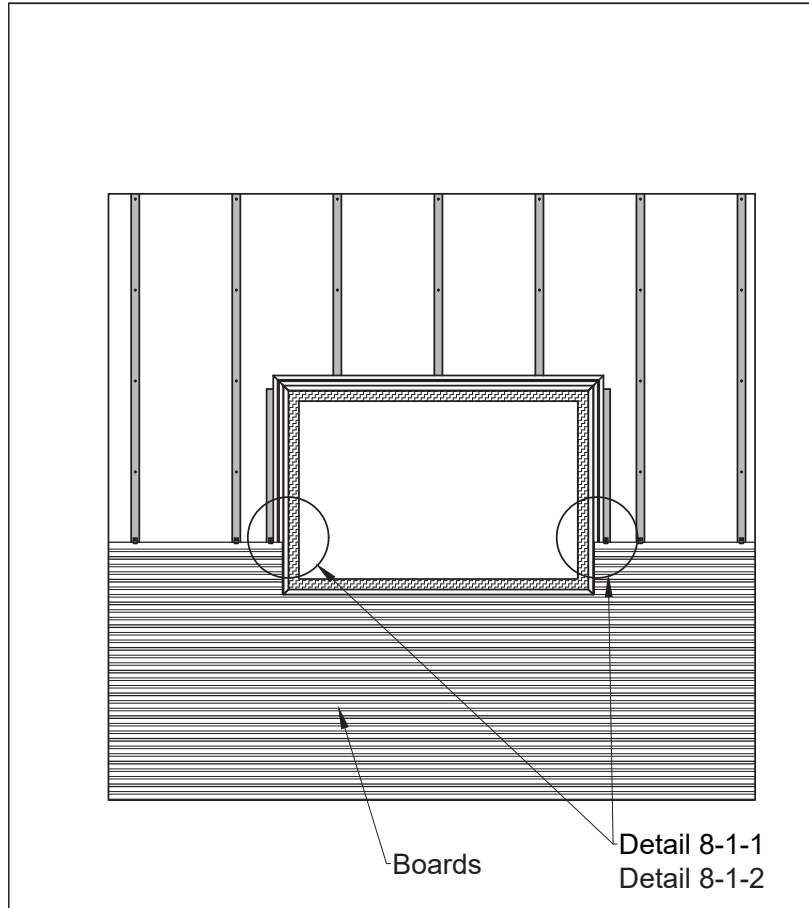
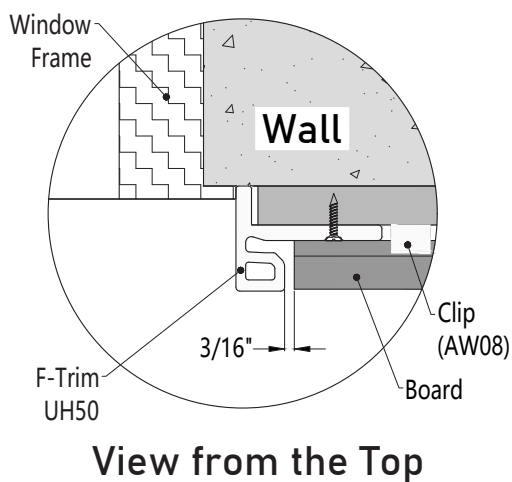
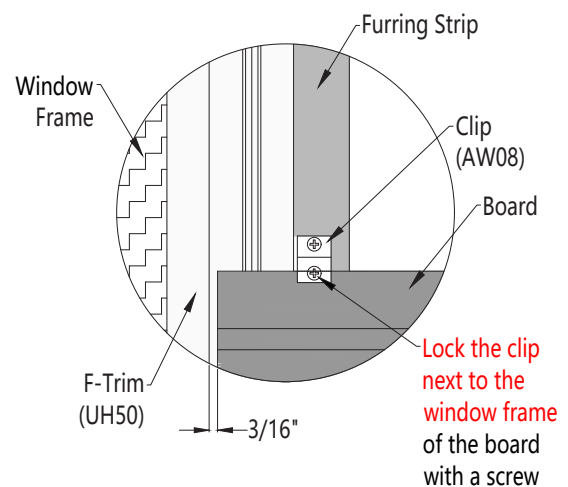


Diagram 8-1



Detail 8-1-1



Detail 8-1-2

Siding Vertical Installation,

It is vital to have a gap between the board and the F-Trim (UH50) to avoid warping or buckling, as shown in **Diagram 8-2**, and **Detail 8-2-1**. Next, lock the Clip (AW08) at the bottom of each board only, do not lock any other Clip (AW08) for the same board, as shown in **Detail 8-2-2**.

Please Note:

Please review [page 12](#), "[Locking the Siding Board](#)" of this installation guide for further information.

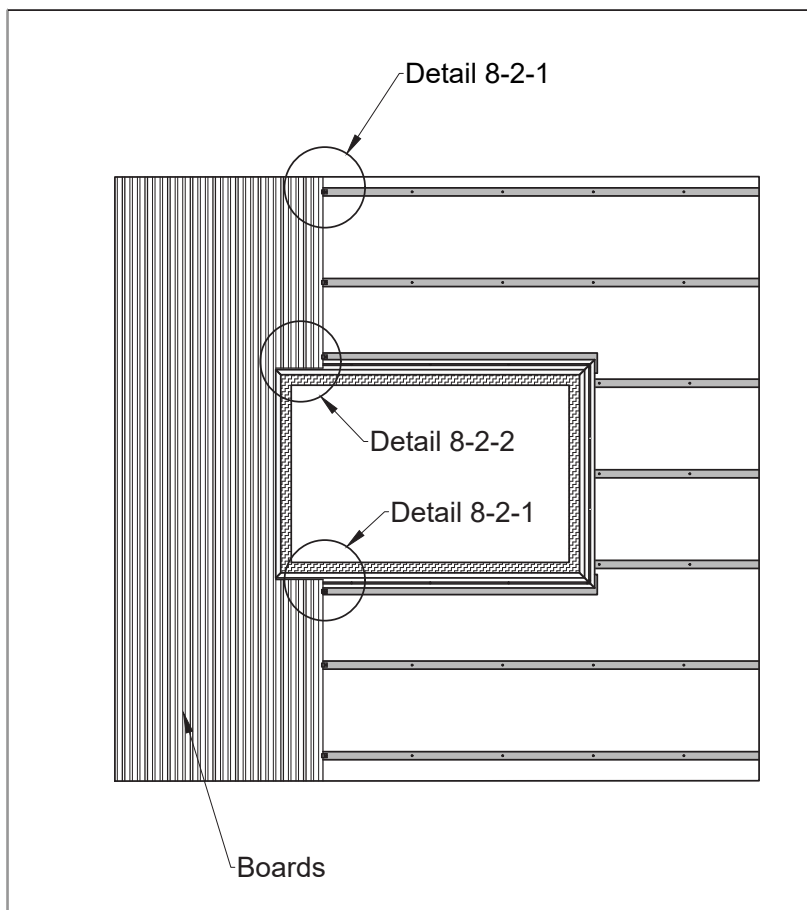
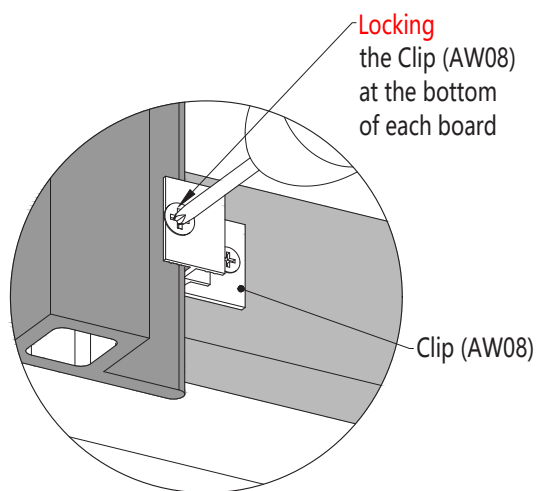
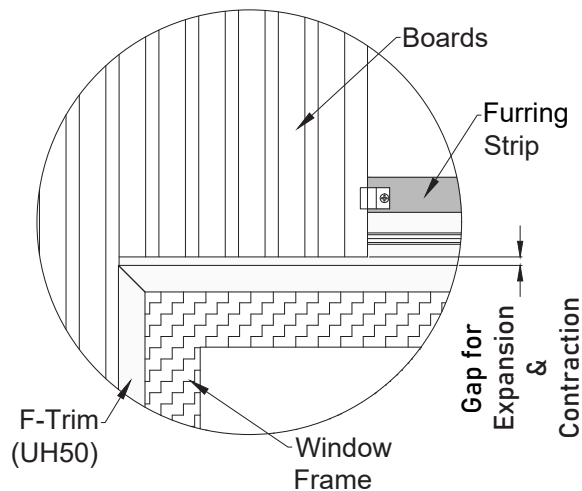


Diagram 8-2



Detail 8-2-1



Detail 8-2-2

- 9 When you are at the window head or the window side, measure the distance between the two F-Trims (UH50) and the distance between the F-Trim (UH50) and the Clip (AW08) to have the measurement for the notch cutting.

Siding Horizontal Installation, as shown in **Diagram 9-1**, **Detail 9-1-1**, and **Detail 9-1-2**.
Siding Vertical Installation, as shown in **Diagram 9-2**, **Detail 9-2-1**, and **Detail 9-2-2**.

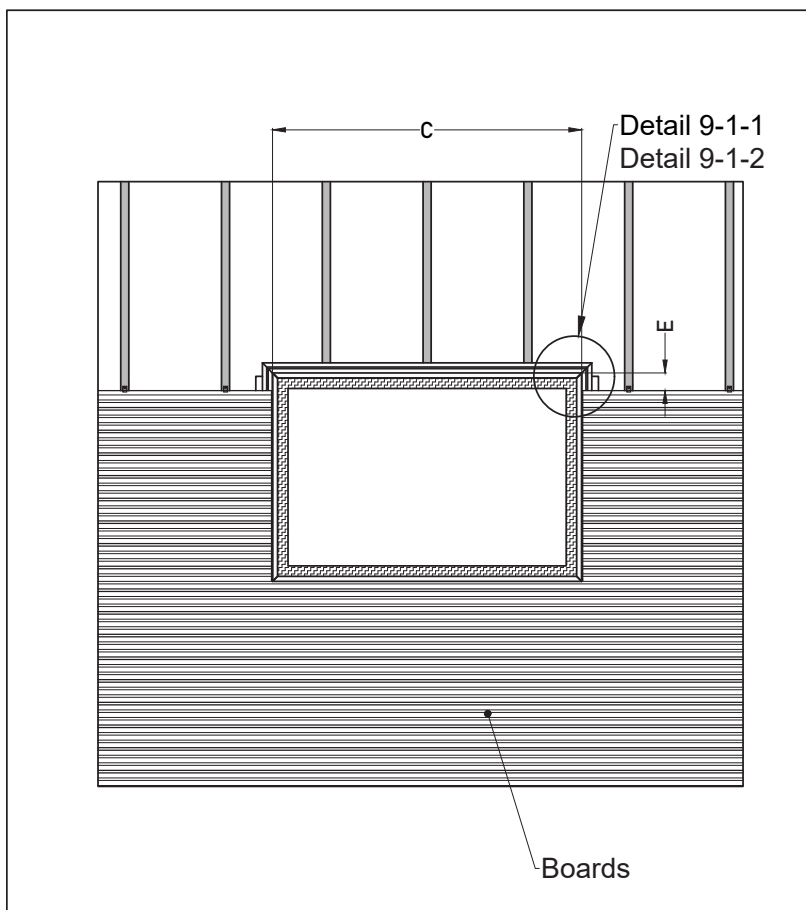
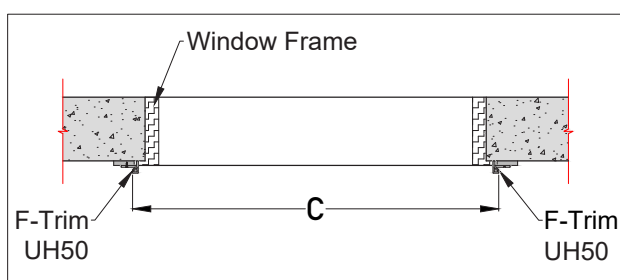
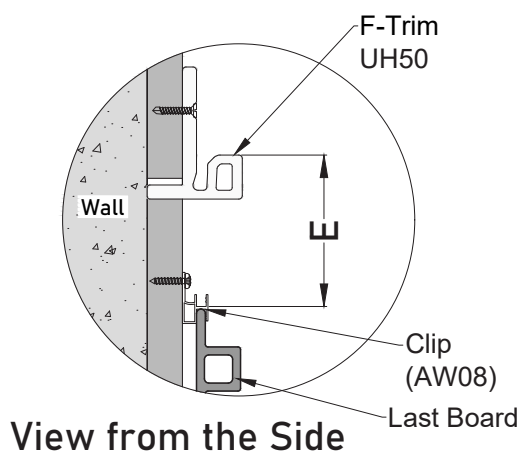


Diagram 9-1



Detail 9-1-1



View from the Side

Detail 9-1-1

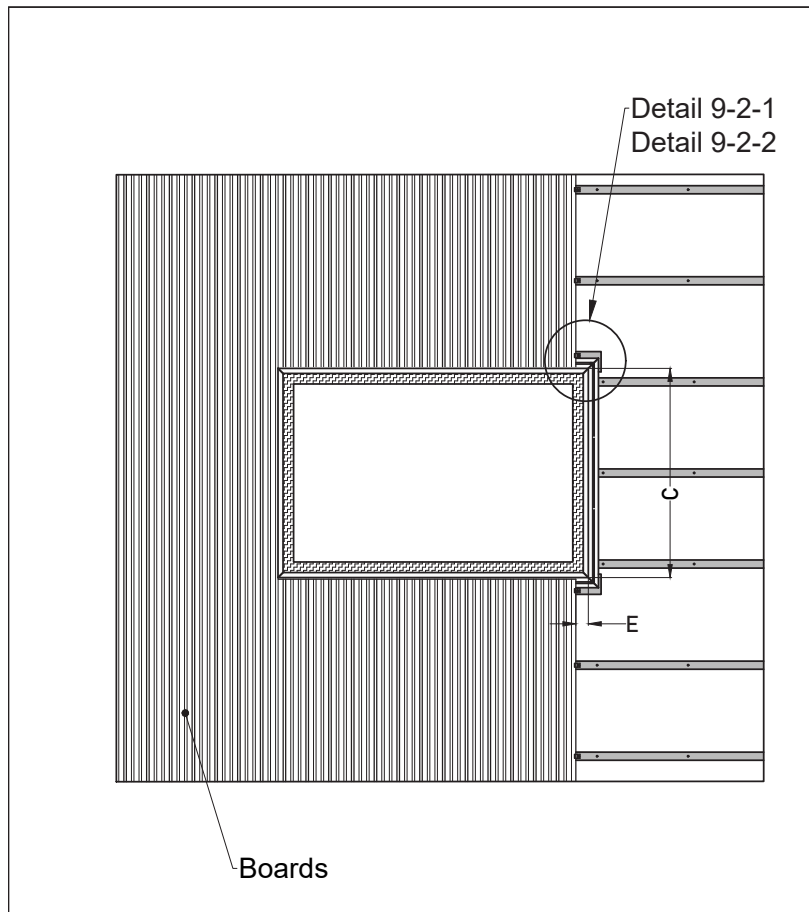
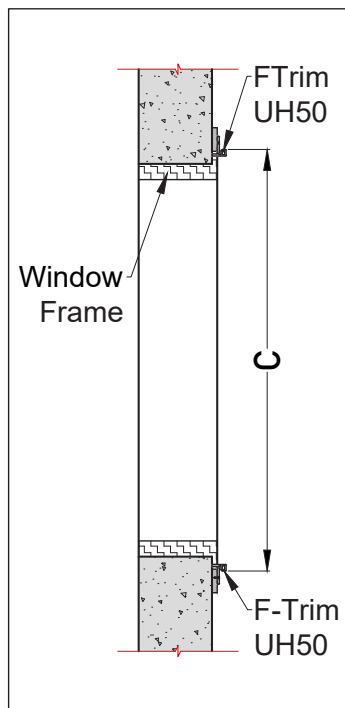
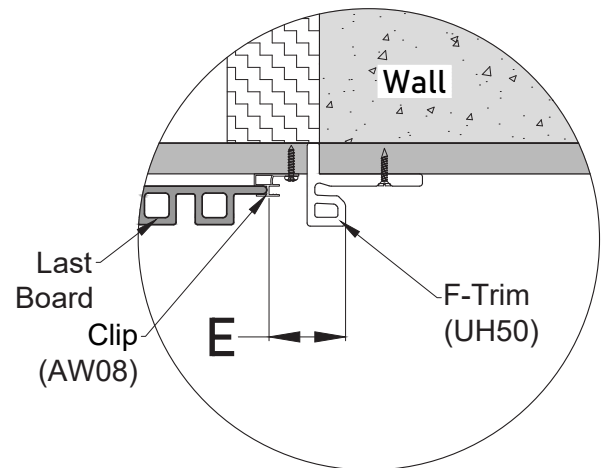


Diagram 9-2



Detail 9-2-1



View from the Top

Detail 9-2-2

- 10 Cut a notch on the board according to the measurement;

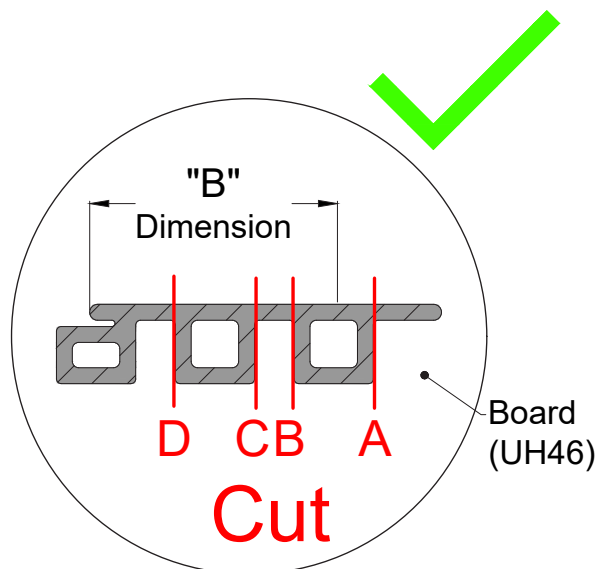
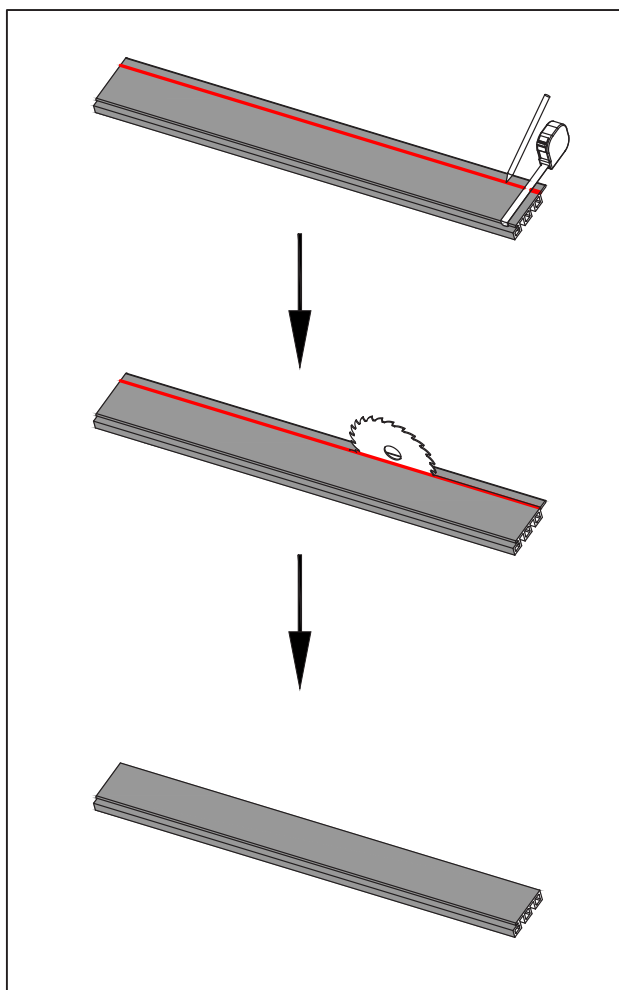
Siding Horizontal Installation, as shown in Diagram 10-1.

Siding Vertical Installation, as shown in Diagram 10-2.

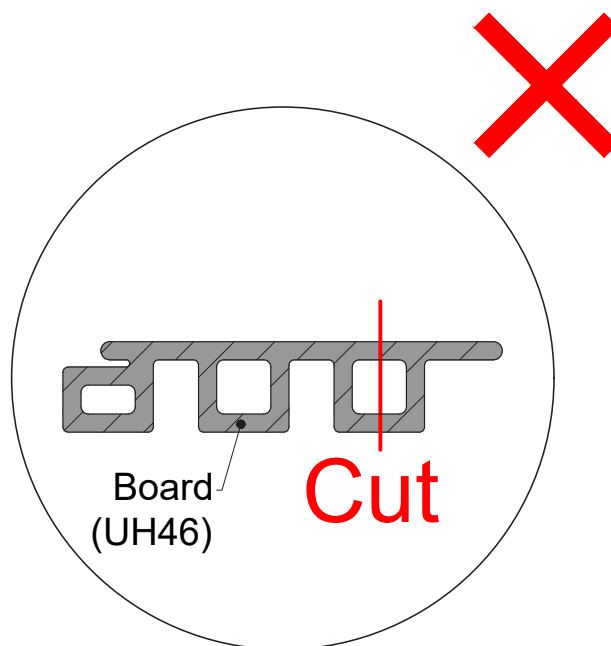
Please Note:

it is recommended to cut the board, as shown in Detail 10-1.

Don't cut the board on the raised portion, as shown in Detail 10-2.

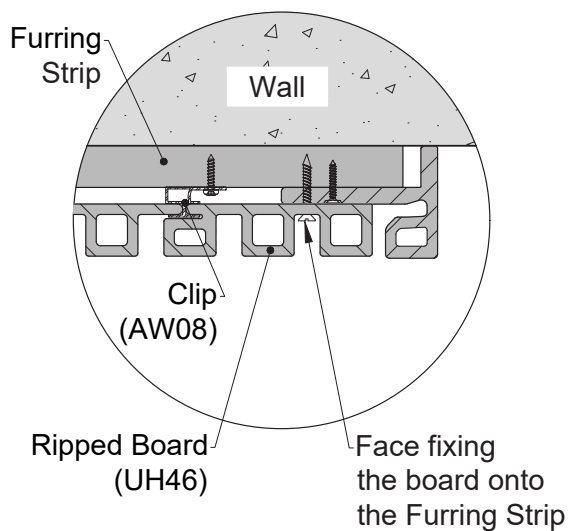


Detail 10-1

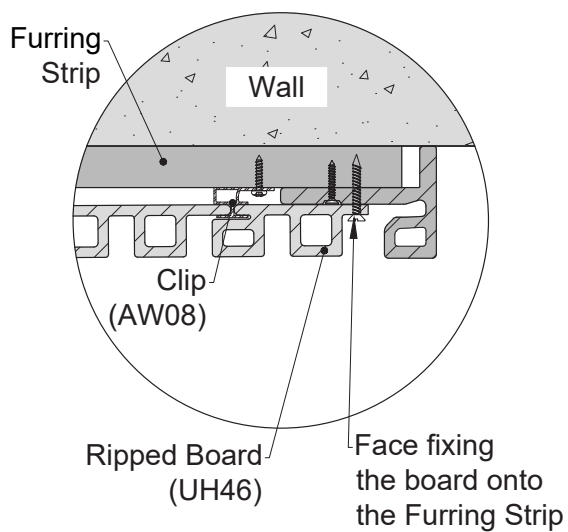


Detail 10-2

Detail 10-3 and **Detail 10-4** present the installation details when the rip point is at A or B.

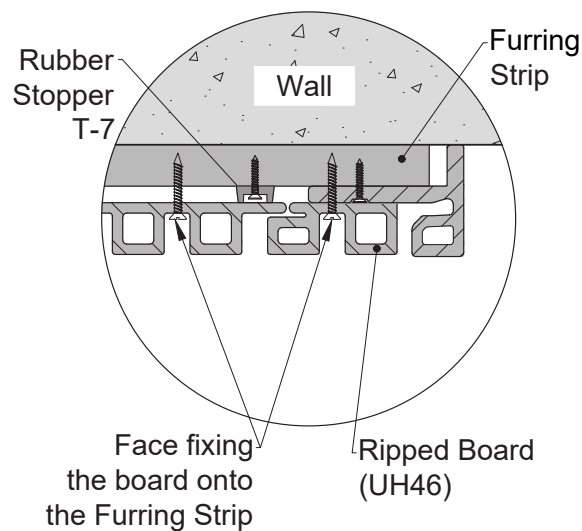


Detail 10-3

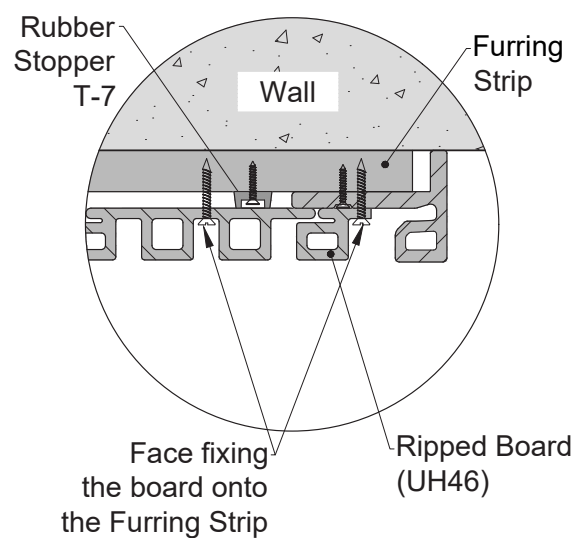


Detail 10-4

When the rip point occurs at C or D, use a rubber stopper T-7 instead the Clip AW08 and face fix the boards, as shown in **Detail 10-5** and **Detail 10-6**.



Detail 10-5



Detail 10-6

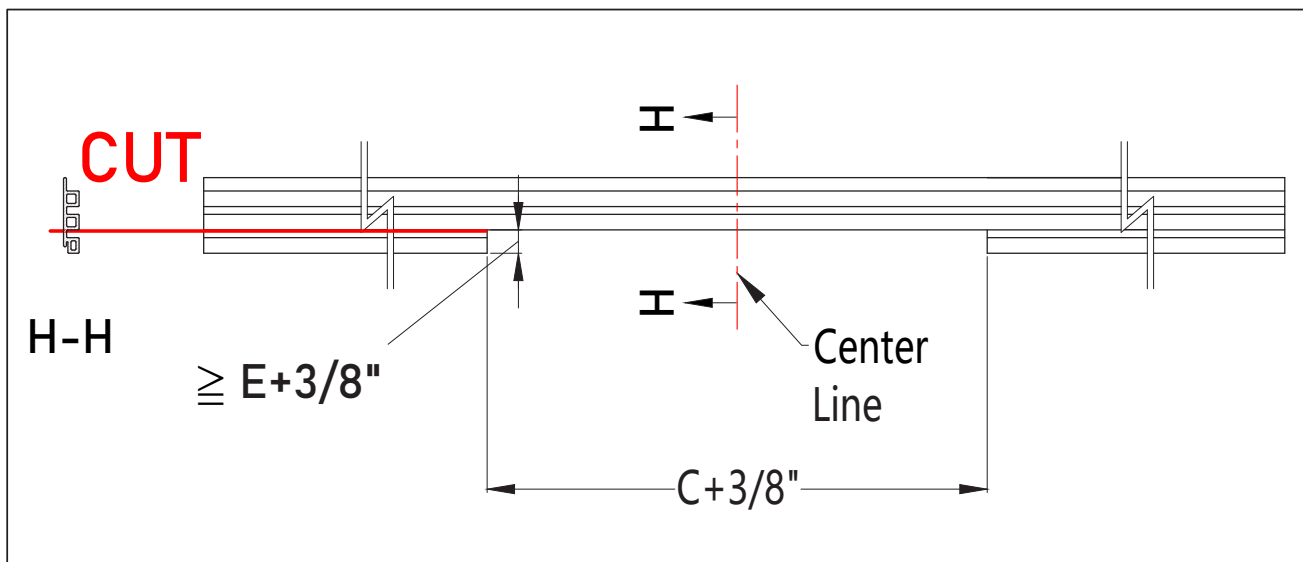


Diagram 54-1
For Siding Horizontal Installation

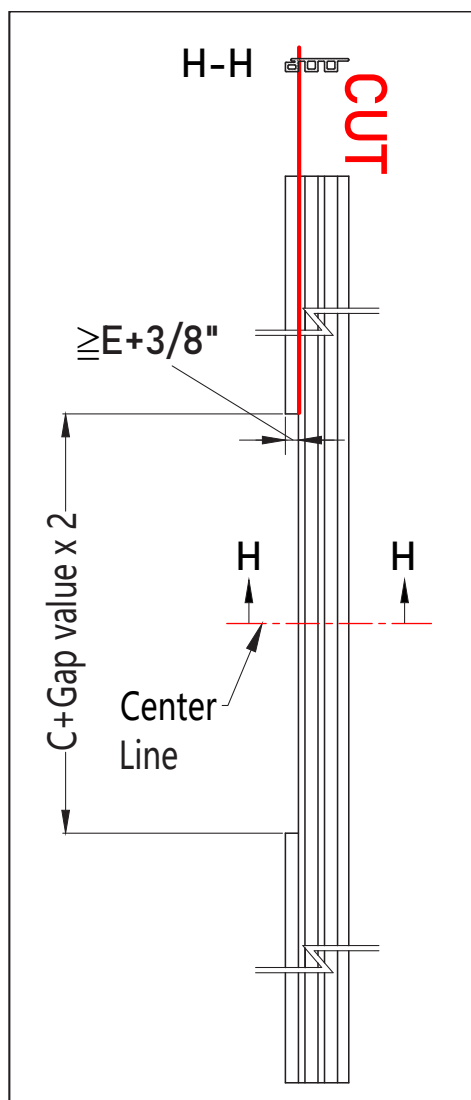


Diagram 54-2
For Siding Vertical Installation

- 11 Put the ripped board in place against the Clip (AW08);

Siding Horizontal Installation,

Lock the Clip (AW08) at the middle of the board onto the batten with a screw, do not lock any other Clip (AW08) of the same board, as shown in **Diagram 11-1**, and **Detail 11-1-1**.

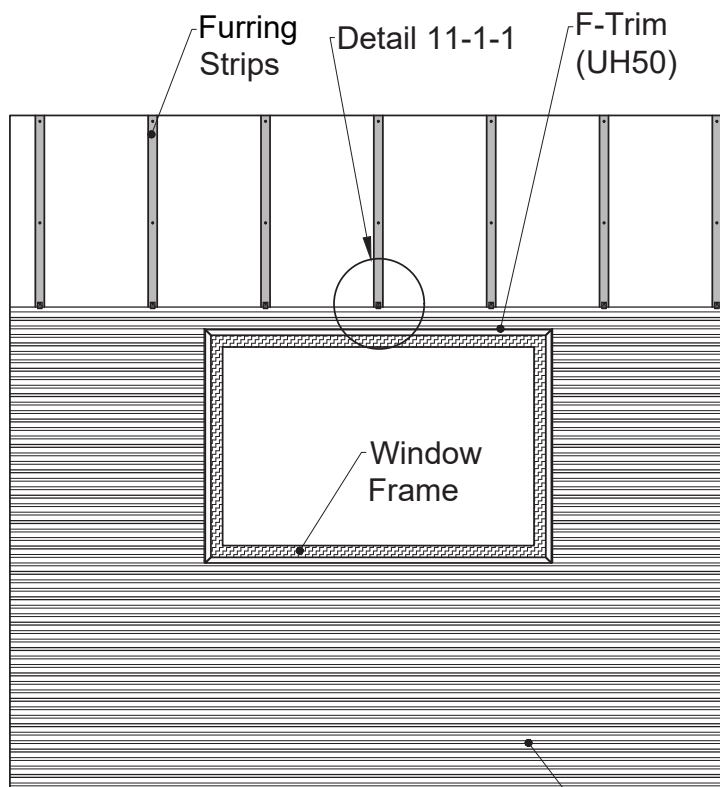
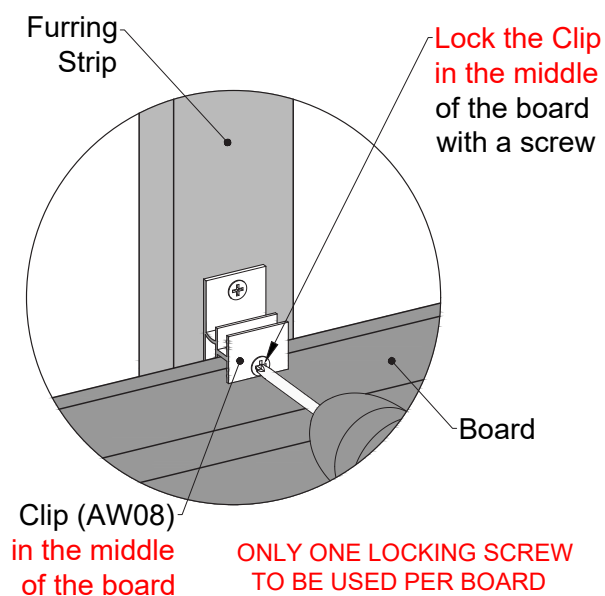


Diagram 11-1



Detail 11-1-1

Siding Vertical Installation,

Lock the Clip (AW08) at the bottom of the board only, do not lock any other Clip (AW08) of the same board, as shown in **Diagram 11-2**, and **Detail 11-2-1**.

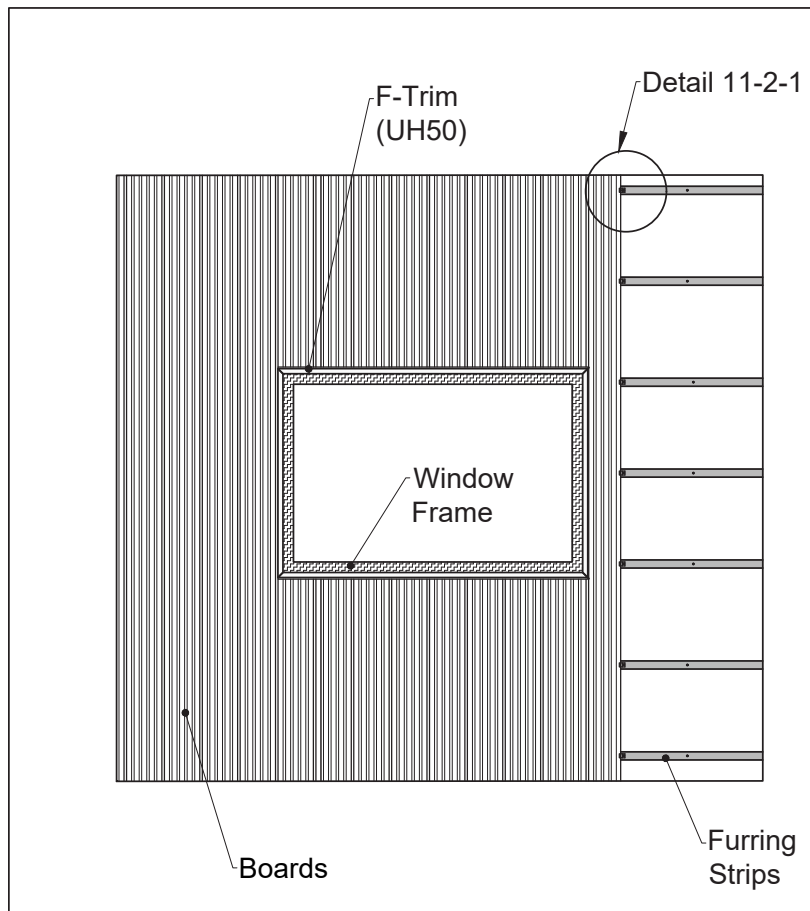
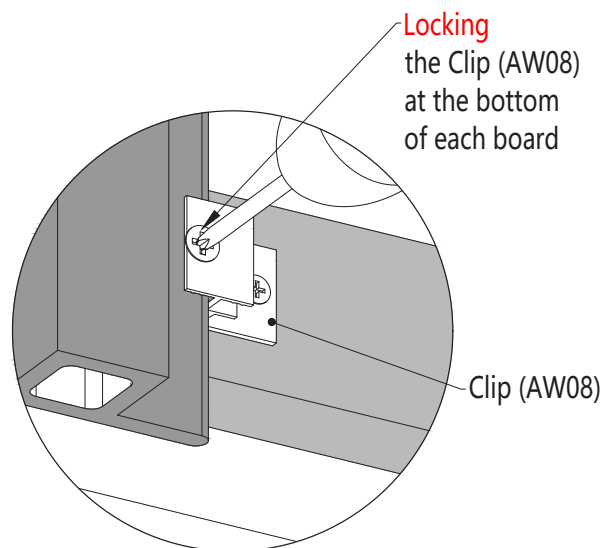


Diagram 11-2



Detail 11-2-1

- 12 Continuous the remaining board installation according to the European Siding board installation steps.

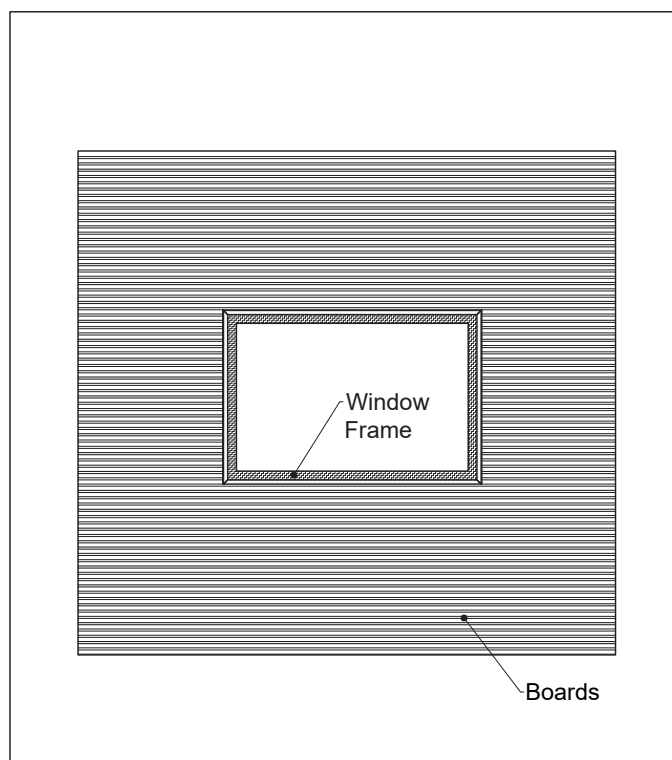


Diagram 12-1
Siding Horizontal Installation

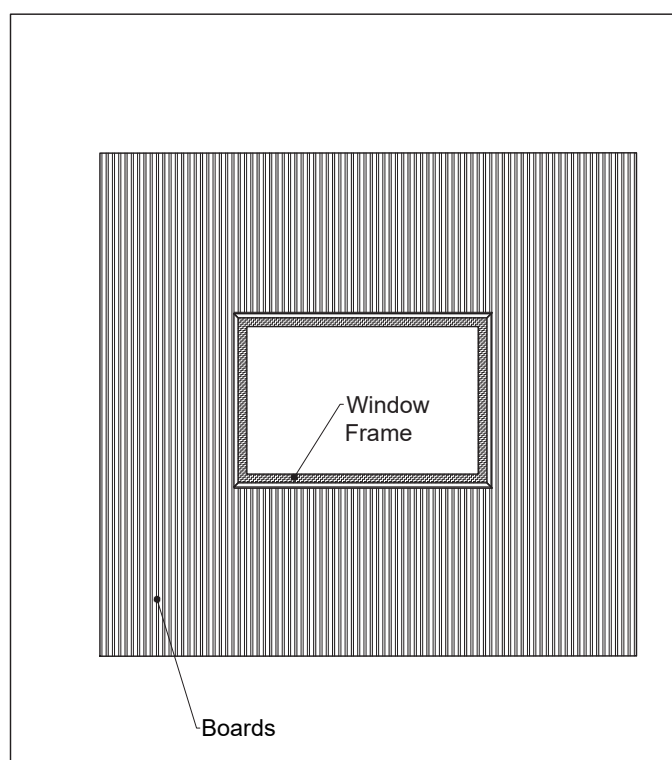


Diagram 12-2
Siding vertical Installation



European Siding System Windows Reveal Installation Guide

06.12.25 US

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