



Shadowline Siding Horizontal Installation Guide

v20231101US



CONTENTS

Important Note	3 - 5
Shadowline Siding Parts	6 - 8
Under Construction	9
Furring Strips Installation	10
Expansion and Contraction Values	11
Locking The Siding Board	12 - 13
Shadowline Siding-Horizontal Installation	14
-Framing	15 - 17
-Installing the First trim on the starting point	18 - 21
-Starting Trim Installation	22- 26
-Siding Board Installation	26 - 46
-Finish the top	46

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 and nails 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 deck 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.

Static

Static can also be more prevalent in areas that are of higher altitude because the humidity is lower. For these areas, be careful of using conducive objects such as metal railing and chairs as static shocks might occur more often. A potential way to lower the amount of static shocks occurring is to apply Staticide (www.aclstaticide.com) on your deck or use anti-static mats before doorways.

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 siding 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 nailing/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 nails/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.

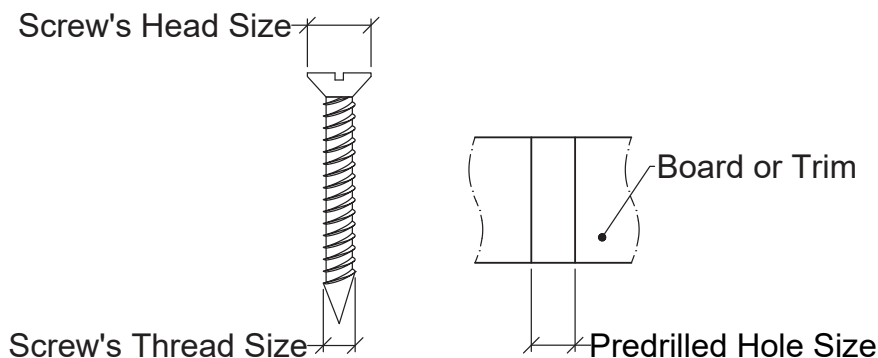
When choosing which screws/nails to use, always check first with your local home centers and hardware stores to see if they have screws that are engineered specifically for composite wood. These screws/nails will always work and give NewTechWood's products the best looking outcome, using other screws/nails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

Maximum Installation Length

The recommended **Maximum Installation Length is 32 feet.** If higher than that could be hard to hide the movement with the expansion and contraction.

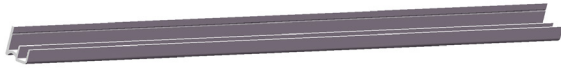
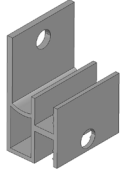
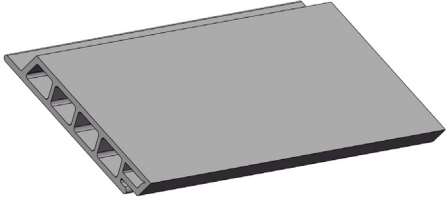
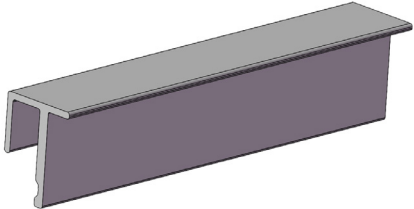
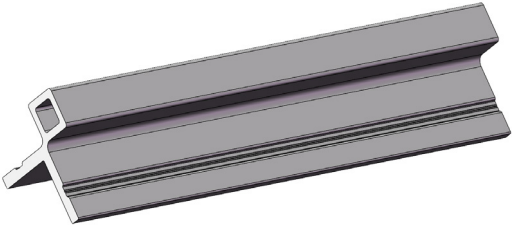
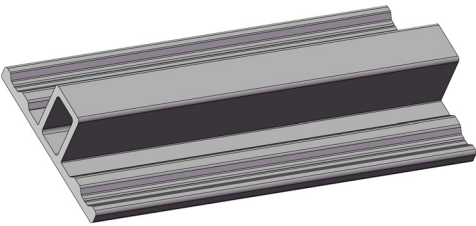
Predrill

It is recommended to use the #8 pan head screw for face fixing the boards and the trims onto the furring strip. When face fixing, it is recommended to predrill a slightly bigger hole on the board and the trim to allow for expansion and contraction, as shown in below diagram,



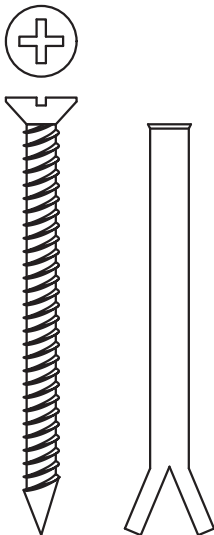
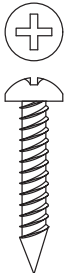
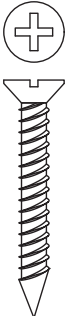
The predrilled hole size should be larger than the screw thread size, from 1/16" (1.5 mm) to 5/64" (2 mm). Moreover, the predrilled hole size should also be smaller than the screw head size, at least 5/64" (2 mm). A washer can be applied if the predrilled hole size is smaller than the screw head size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

Shadowline Siding Parts

Product	Purpose	Part
AW-02	Used for the installation of the first board	
AW-08	Used to fix the boards to the furring strips	
T-7	Used on the last Siding board	
UH68	Siding Board	
US73	F-Trim Used on the outermost edges	
UH51	Outside Corner Trim Used on the outside corners	
UH70	I-Trim, Used on the butt joint installation	

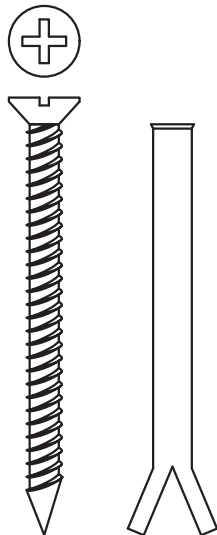
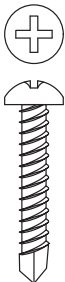
Siding Screws (For Wood Furring Strip)

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

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

Siding Screws (For Aluminum Furring Strip)

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

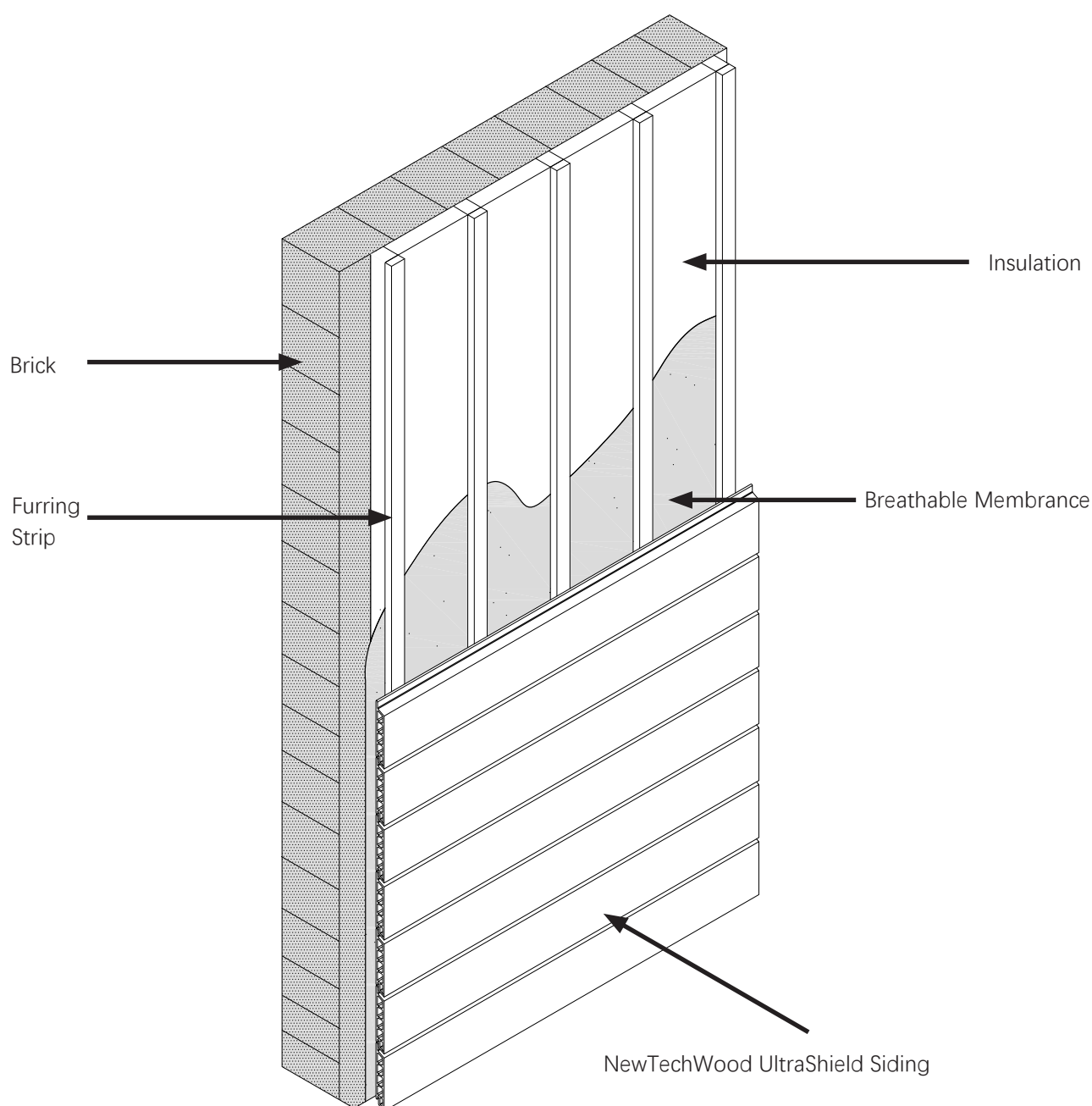
Product	Purpose	Part
#5 x 1 1/4" Stainless Steel SS304	Used when locking the board into the Clip (AW08)	
#8 x 3" Stainless Steel SS304 **depends on the thickness of your joists	Used when installing the furring strips onto the wall	
#8 x 1" Stainless Steel SS410 (Pan Head)	Used when installing the Clip (AW08) and the Rubber Stopper (T-7) onto the aluminum furring strips	
#8 x 1 1/4" Stainless Steel SS410 (Flat Head)	Use when face fixing the boards and the trims 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

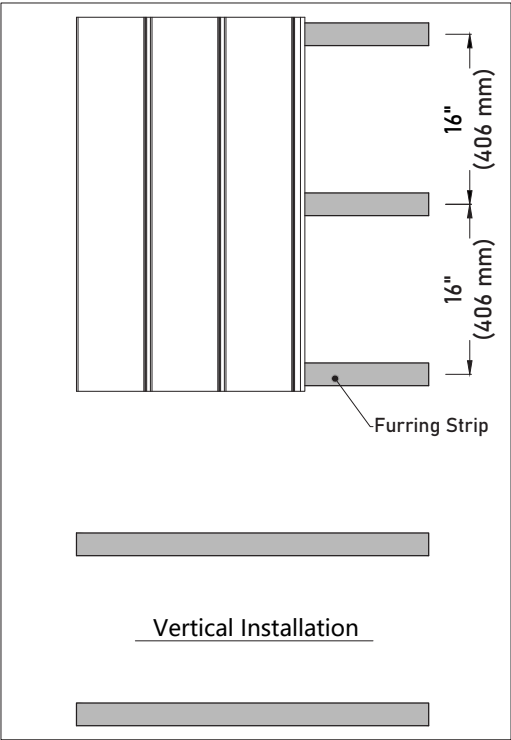
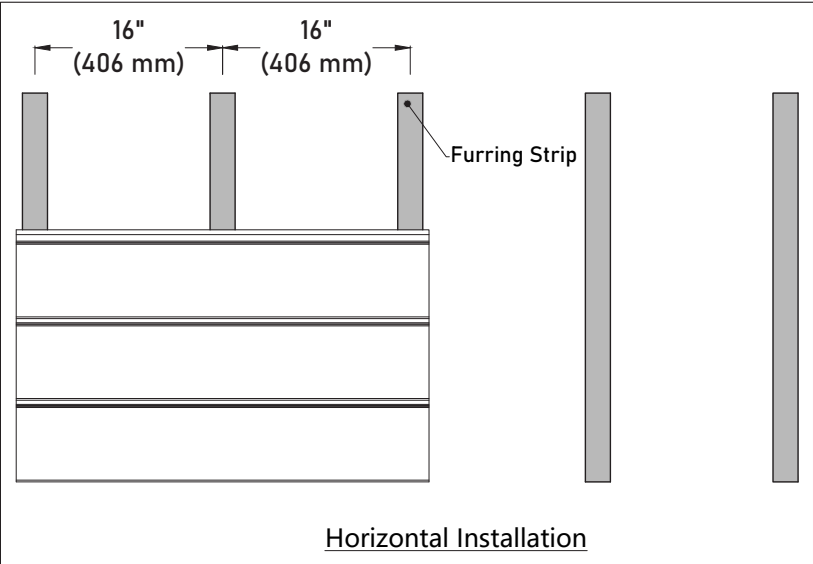
We recommend for the under construction Aluminum or pressure treated wood joists. Each Siding board needs to be supported by a furring strip **NO MORE** than 16" (406 mm) on centers. Extra care is required in order to provide sufficient joisting in and around obstacles such as windows, fascia's, soffits, 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 needs to have a minimum thickness of 1" (25mm).

Wood furring strips should be fixed into position at a maximum of 16" (406mm) centers using a suitable 4# 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, Canada, Australia and Asia

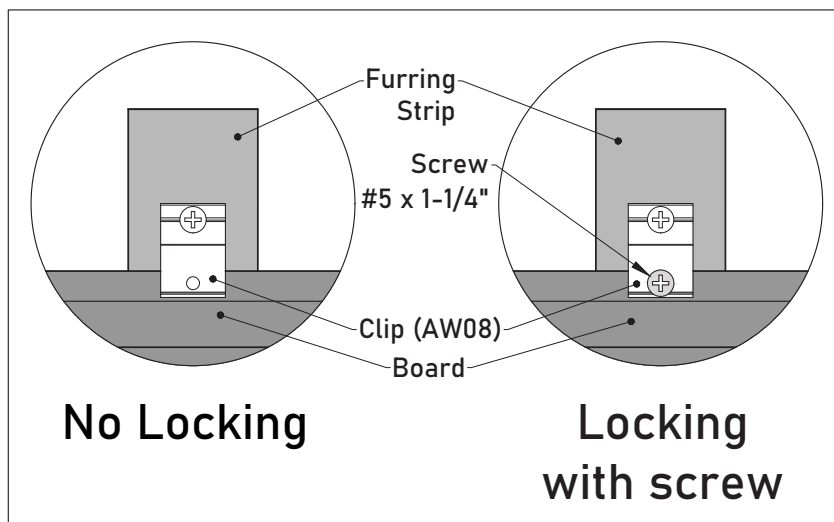
		Length (Feet)							
Installation Temperature (Farhenheit)		3	8	9	10	12	13	16	18
	32	1/16	2/16	2/16	3/16	3/16	4/16	4/16	5/16
	41	1/16	2/16	2/16	2/16	3/16	3/16	4/16	4/16
	50	1/16	2/16	2/16	2/16	2/16	3/16	3/16	3/16
	59	1/16	1/16	1/16	2/16	2/16	2/16	2/16	3/16
	68	3/64	1/16	1/16	1/16	1/16	2/16	2/16	2/16
	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
		Gap (in)							

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 fixed point but only one point 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.



- Horizontal Installation -

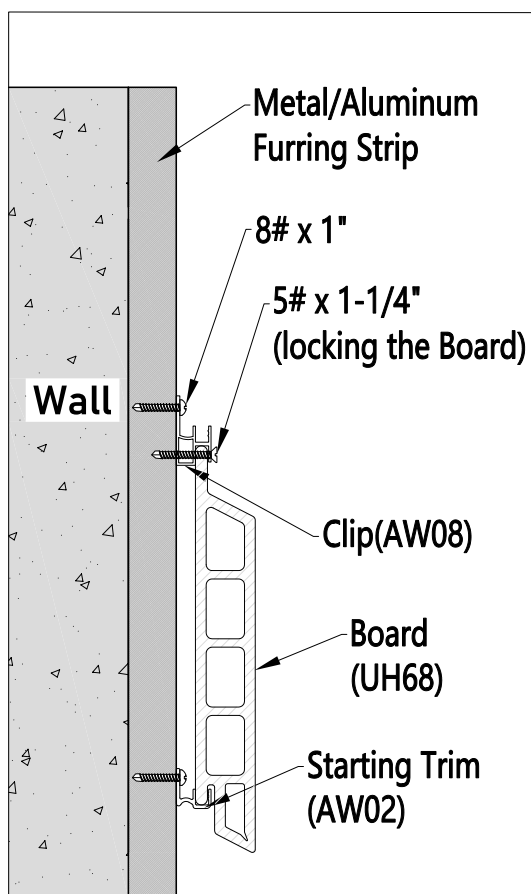


Diagram A1

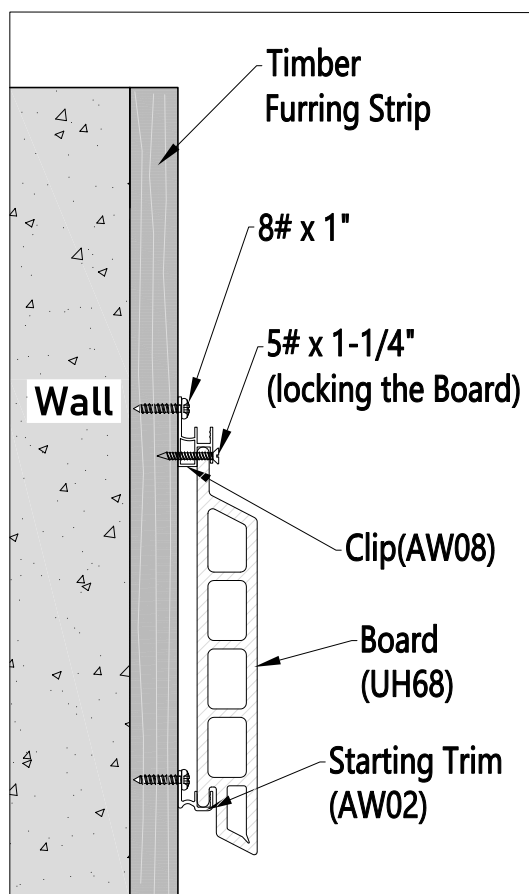
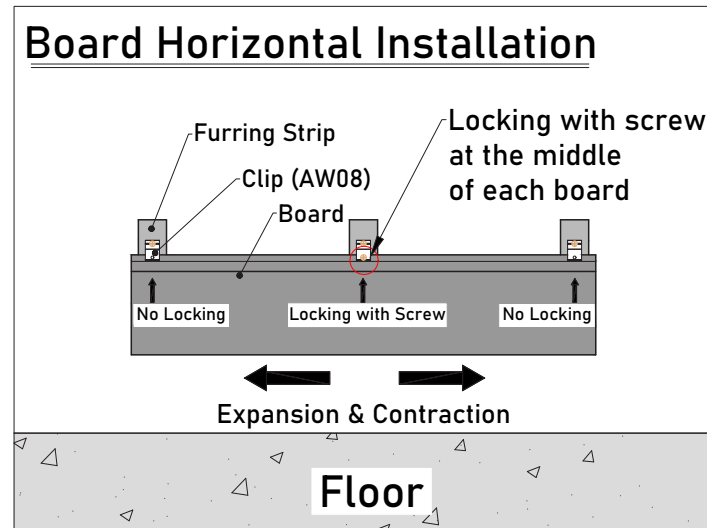


Diagram A2

When installing horizontally, it is required to lock the Clip (AW08) at the middle of the board, as shown in [Diagram A3](#).

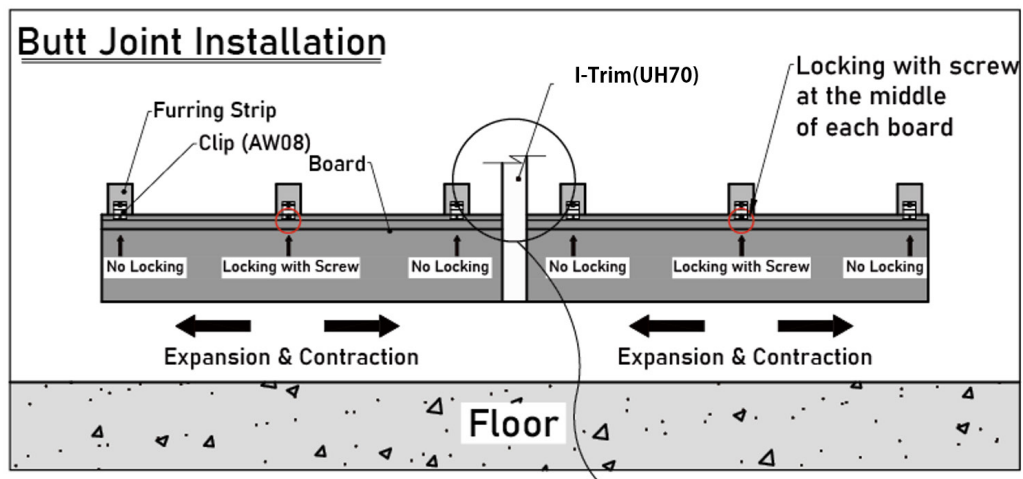


[Diagram A3](#)

- Butt Joint Installation -

Please Note:

It is recommended to utilize the I-Trim (UH70) at each butt joint. It is also required to lock the Clip (AW08) at the top of each board, as shown in [Diagram A4](#).



[Diagram A4](#)

Shadow Siding - Horizontal Installation

Installation Procedure

Step 1: Framing

- Measure and Chalk the Furring Strips
- Furring Strips Installation

Step 2: Installing the First Trim on the starting point

Step 3: Starting Trim Installation

Step 4: Shadowlin Siding Board Installation

- The Wall Side A siding installation (Along the Outermost Edge to the Inside Corner)
- The Wall Side B siding installation (Along the Inside Corner to the Outside Corner)
- The Wall Side C siding installation (Between two Outside Corners)
- The Wall Side D siding installation (Along the Outside Corner to the Outermost Edge)
- Butt Joint Installation

Step 5: Finish The Top

1 Framing

The frame needs to be level before installing the siding boards. **Diagram 1** shows the wall replicating different scenarios potentially occurring when installing the siding boards.

Wall Side A: Presented from the Outermost Edge to the Inside Corner

Use the F-Trim (US73) for the Outermost Edge trimming and no trim at the Inside Corner.

Wall Side B: Presented from the Inside Corner to the Outside Corner.

No trim at the Inside Corner and use the Outside Corner Trim (UH51) for the Outside Corner trimming.

Wall Side C: Presented between two Outside Corners.

Use the Outside Corner Trim (UH51) for the Outside Corner Trimming.

Wall Side D: Presented from the Outside Corner to the Outermost Edge.

Use the Outside Corner Trim (UH51) for the Outside Corner Trimming and the F-Trim (US73) for the Outermost Edge Trimming.

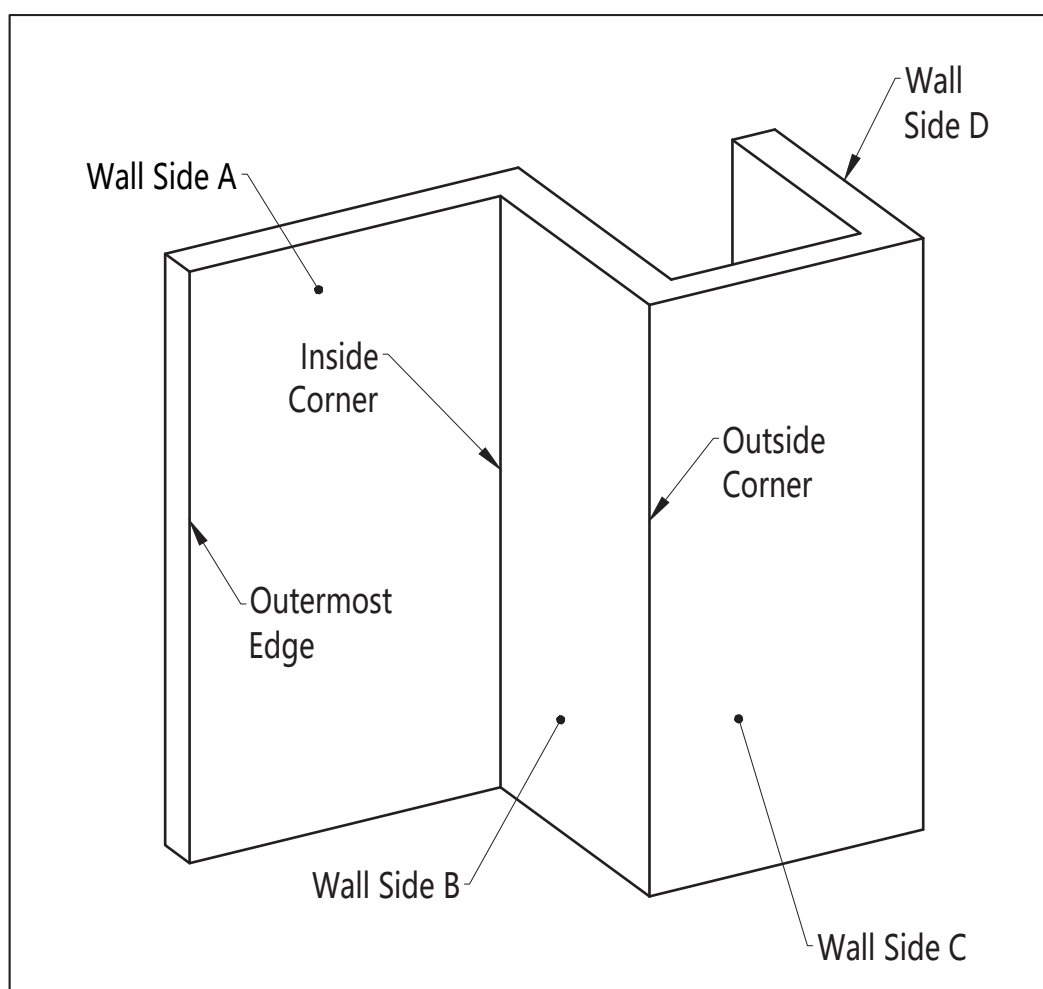


Diagram 1

- 2 Measure and chalk the Furring Strip according to the span data specified on [page 10](#) of this installation guide, as shown in [Diagram 2](#).

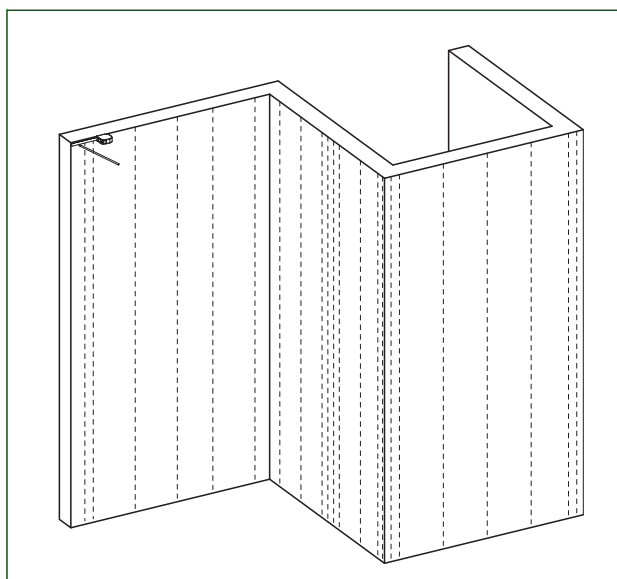


Diagram 2

Please Note:

1. We are using timber Furring Strips for this installation illustration. If you are using metal/ Aluminium furring strip, please refer to [page 8](#) of this installation guide for the correct recommended screws.
2. An adequate span between the furring strips is required to keep the siding boards from bending. Please review [page 10](#) of this installation guide to see what span is needed.

- 3 Fix the furring strips onto the wall that you intend to install with screws in the distance at least 19-11/16" (500 mm) and max to 39-3/8" (1000 mm), as shown in [Diagram 19](#).

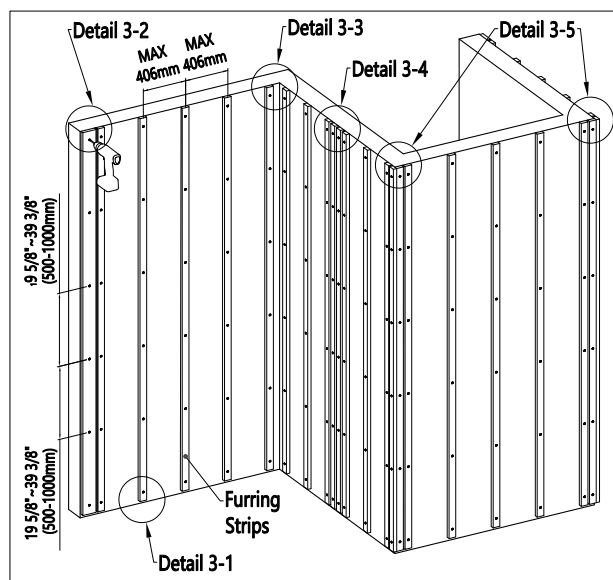
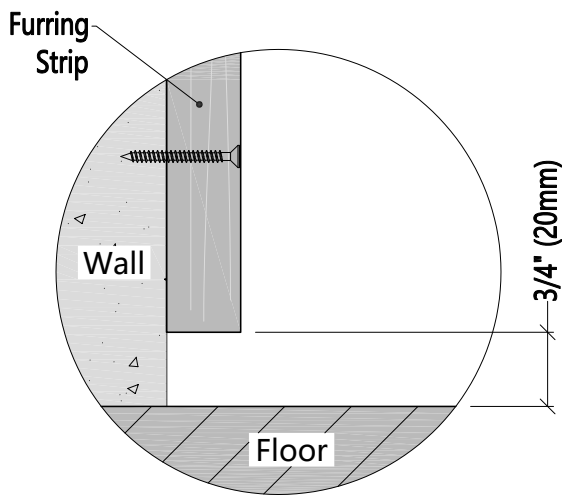


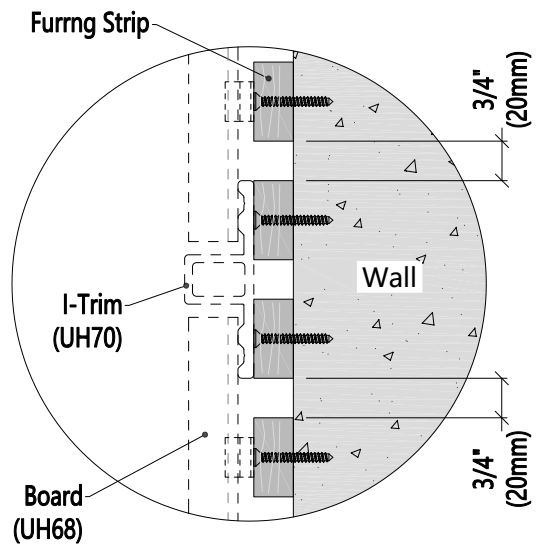
Diagram 3

Please Note:

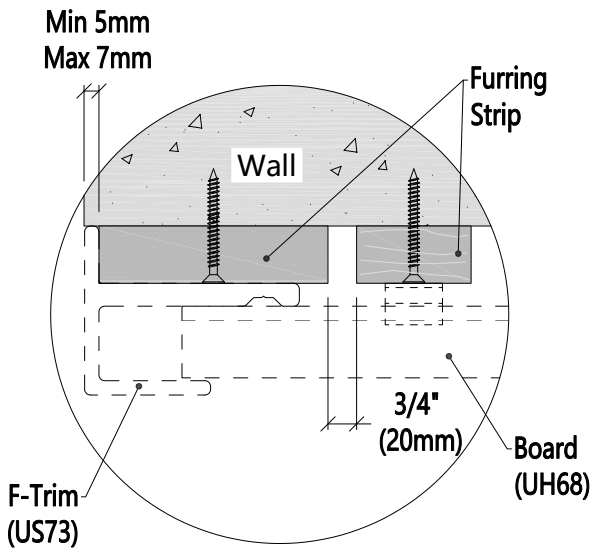
1. A min gap of 3/4" (20 mm) needs to be left at the bottom of each Furring Strip against the floor, as shown in [Detail 3-1](#).
2. For the Outermost Edge, please install according to [Detail 3-2](#).
3. For the Inside Corner, please install according to [Detail 3-3](#).
4. For the Butt Joint (I-Trim), please install according to [Detail 3-4](#).
5. For the Outside Corner, please install according to [Detail 3-5](#).



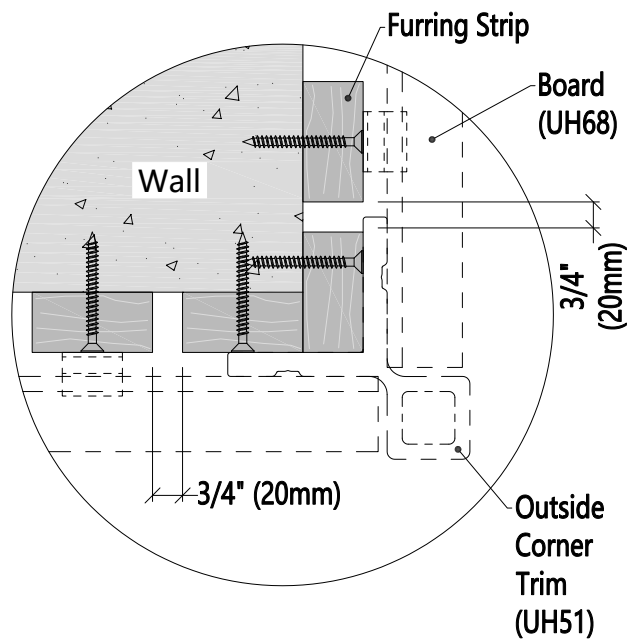
Detail 3-1



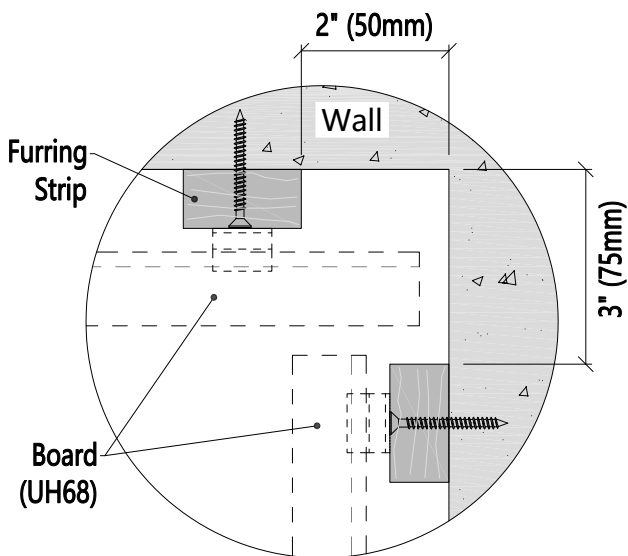
Detail 3-4



Detail 3-2



Detail 3-5



Detail 3-3

4 Install the First Trim on the Starting Point

Start the siding board installation from the starting points, as shown in Diagram 4.

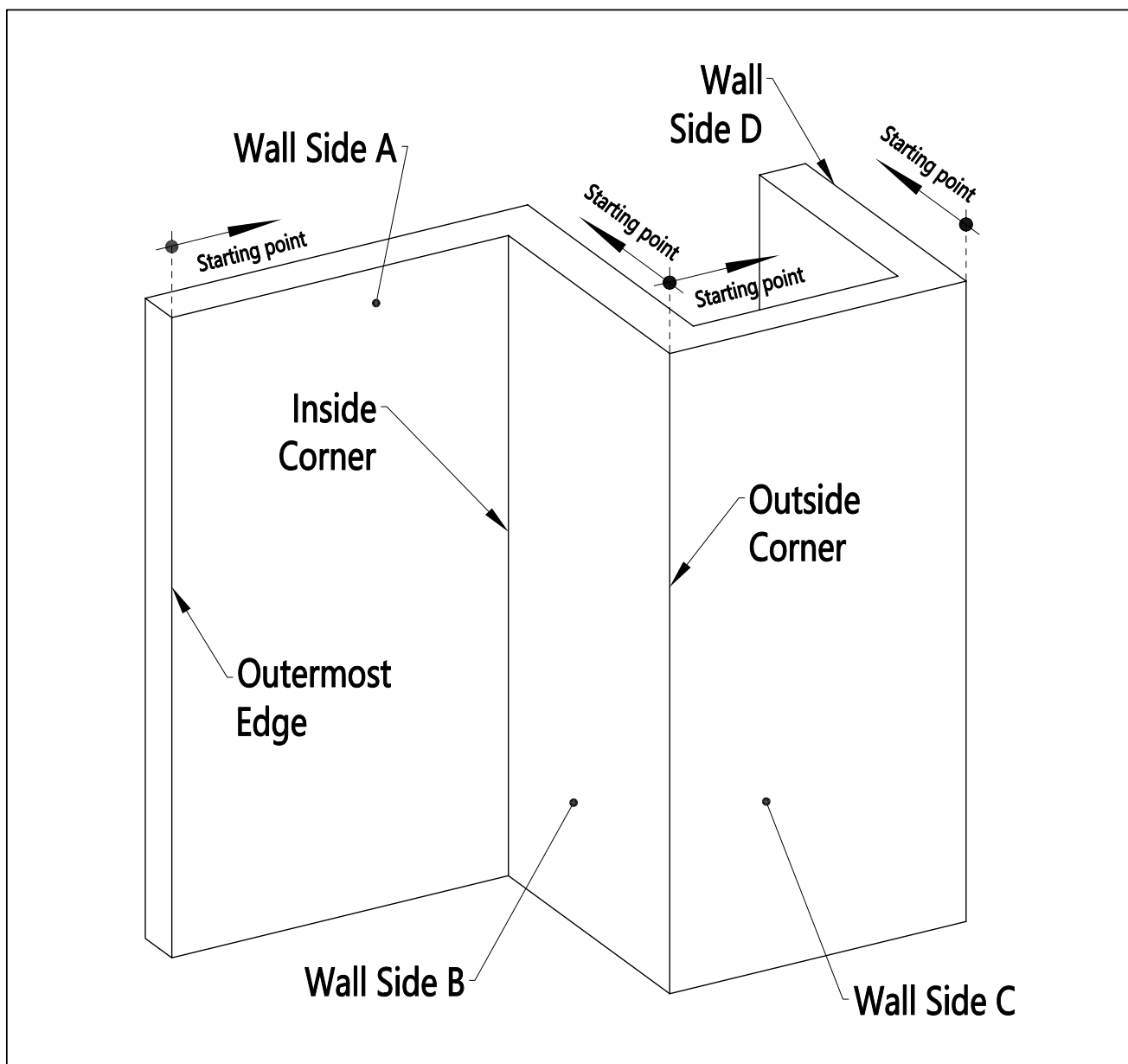
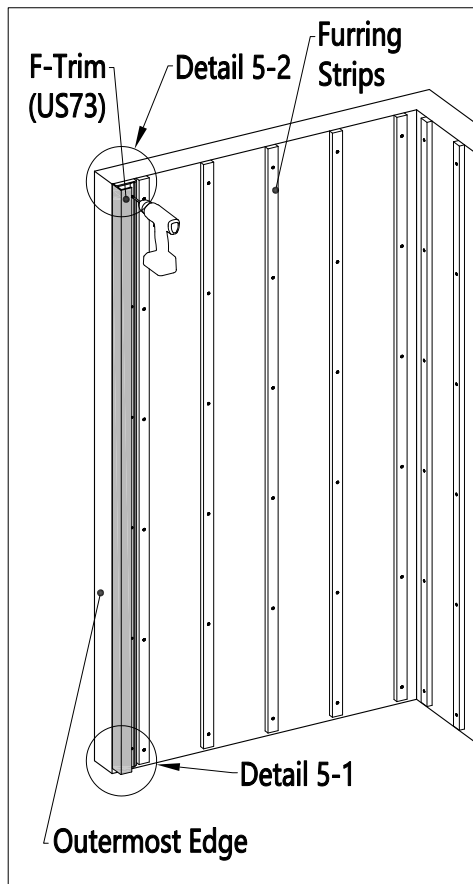


Diagram 4

5 Install the F-Trim (US73) on the Outermost Edge

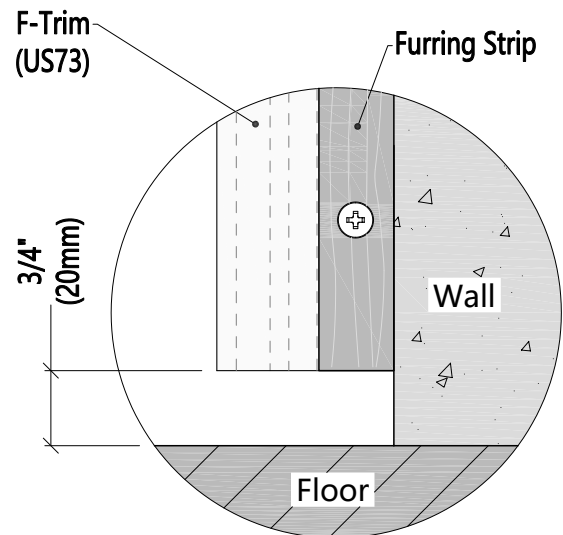
Secure the F-Trim(US73) onto the starting point's furring strips with screws in the distance at least 19-11/16" (500 mm) and max 1000 mm, as shown in [Diagram 5](#).



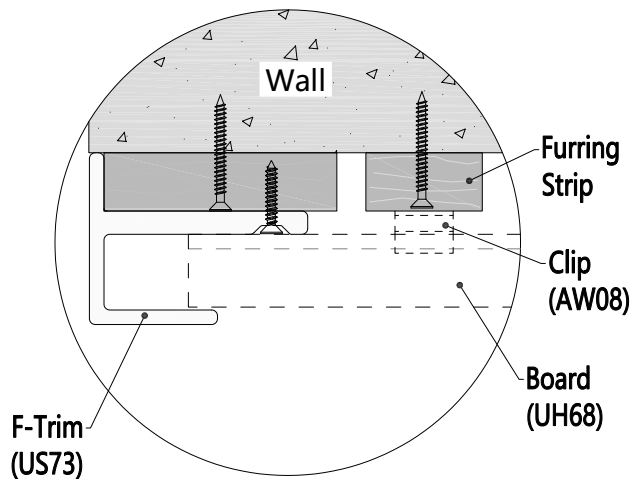
[Diagram 5](#)

Please Note:

1. A minimum clearance of 3/4" (20mm) needs to be left between the Trims against the floor, as shown in [Detail 5-1](#).
2. Secure the F-Trim(US73) into the Furring Strip with screws, as shown in [Detail 5-2](#).



[Detail 5-1](#)



[Detail 5-2](#)

6 Install the Outside Corner Trim (UH51) on the Outside Corner

Install the Outside Corner Trim (UH51) on the Outside Corner with screws in the distance at least 19-11/16" (500 mm) and max 39-3/8" (1000 mm), as shown in [Diagram 6](#).

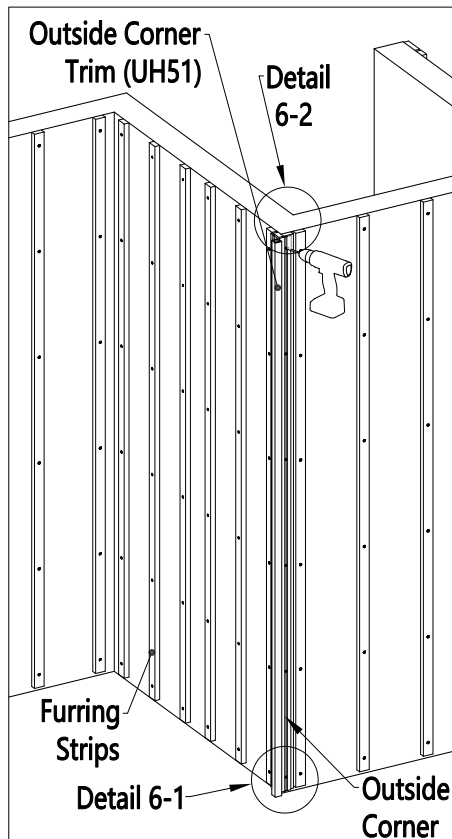
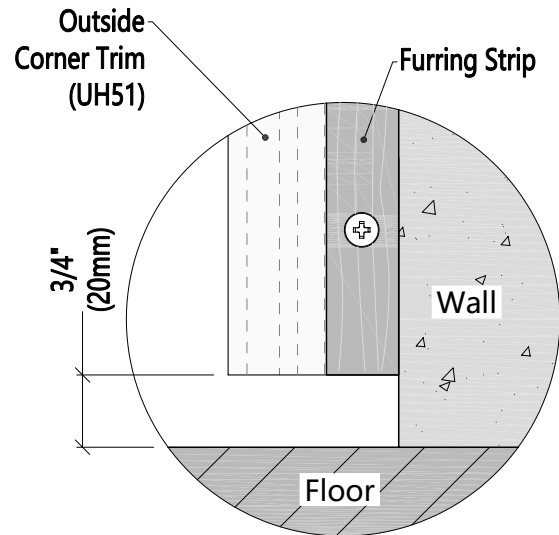


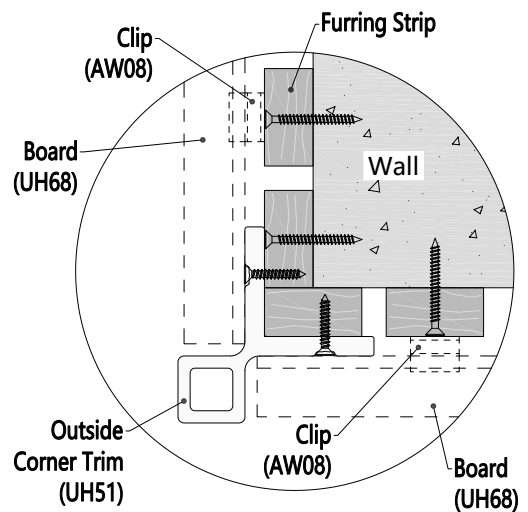
Diagram 6

Please Note:

1. A minimum clearance of 3/4" (20mm) needs to be left between the trims against the floor, as shown in [Detail 6-1](#).
2. Secure the Outsider Corner Trim(UH51) onto the Furring Strip with screws, as shown in [Detail 6-2](#).



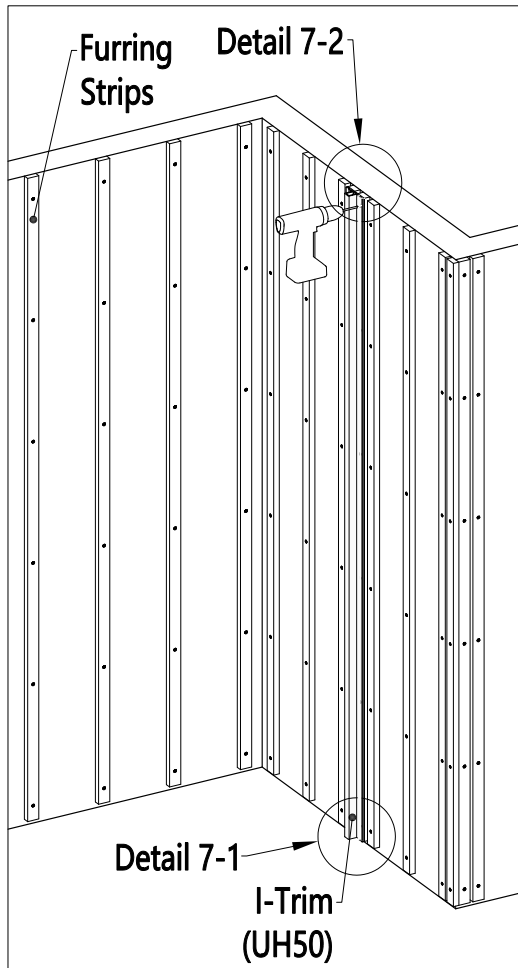
Detail 6-1



Detail 6-2

7 Install the I-Trim (UH50) on the Wall Side B

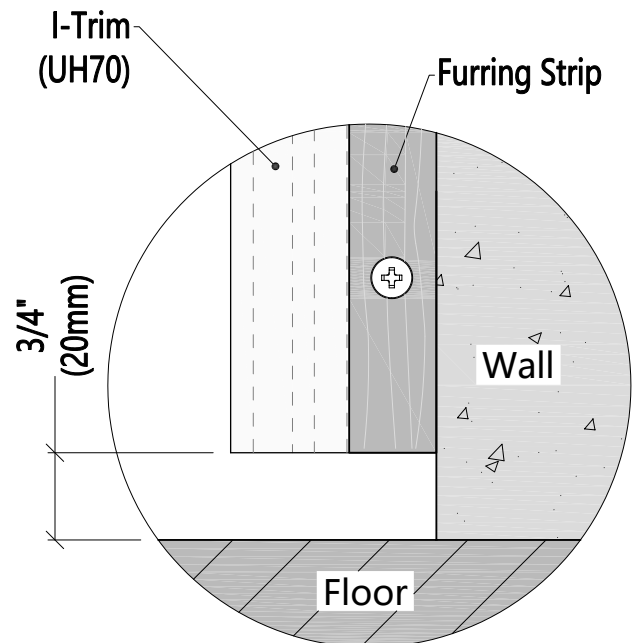
Start the installation from the Butt Joint, secure the I-Trim (UH50) onto the Furring Strips with screws in the distance at least 19-11/16" (500 mm) and max 39-3/8" (1000 mm) on center, as shown in [Diagram 7](#).



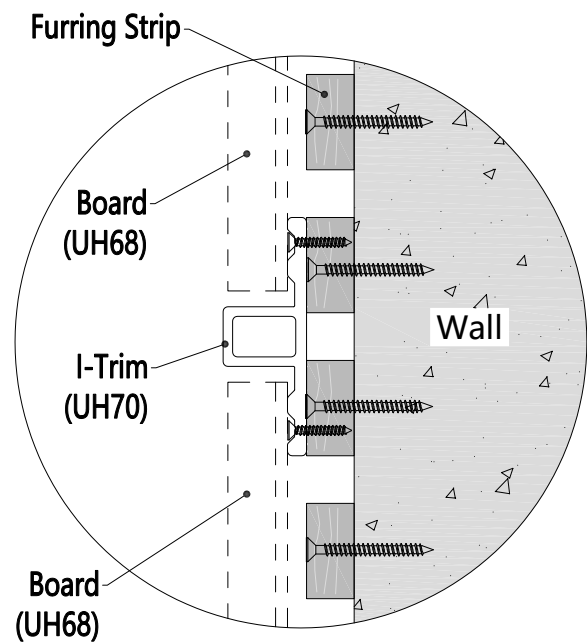
[Diagram 7](#)

Please Note:

1. A minimum clearance of 3/4" (20mm) needs to be left between the trims against the floor, as shown in [Detail 7-1](#).
2. Secure the I-Trim(UH50) into the Furring Strip with screws, as shown in [Detail 7-2](#).



[Detail 7-1](#)

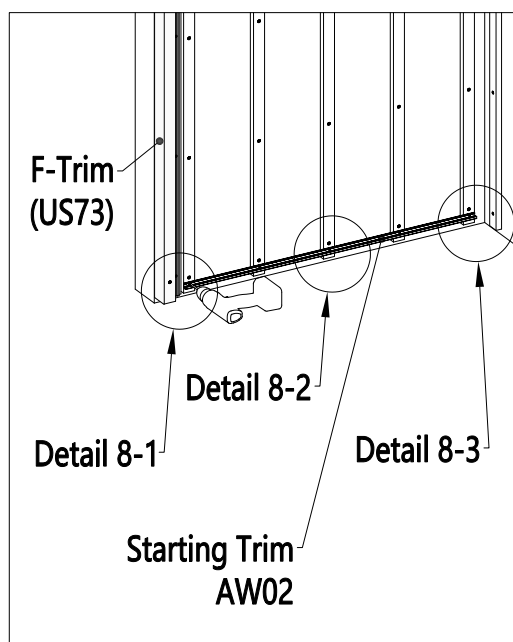


[Detail 7-2](#)

8 Starting Trim (AW02) Installation

Install the Starting Trim (AW02) on Wall Side A

Install the Starting Trim (AW02) at the bottom end of the Furring Strips against the floor with screws, as shown in [Diagram 8](#).

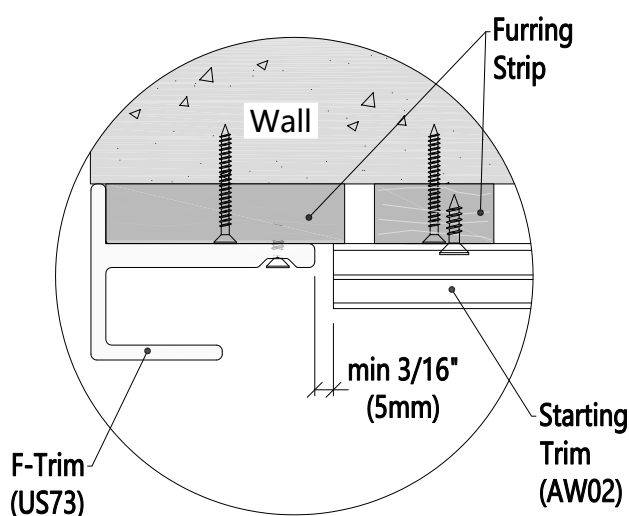


[Diagram 8](#)

Please Note:

1. Outermost Edge (F-Trim US73)

A minimum gap of 5mm needs to be left between the Starting Trim (AW02) and the F-Trim (US73), as shown in [Detail 8-1](#).



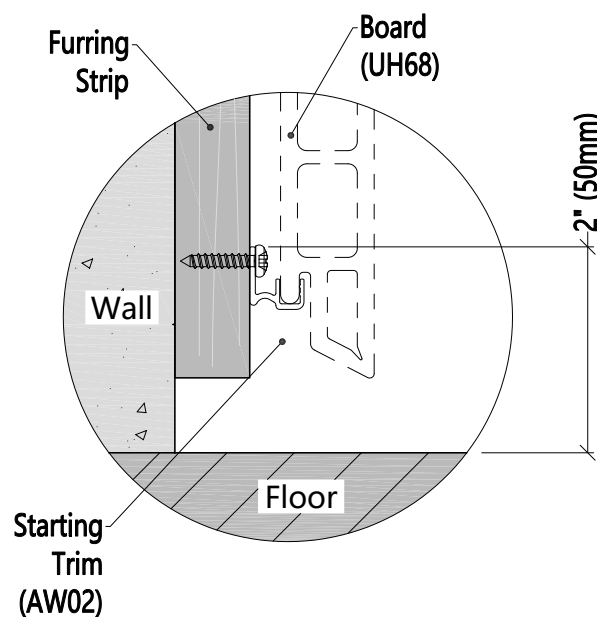
[Detail 8-1](#)

Please Note:

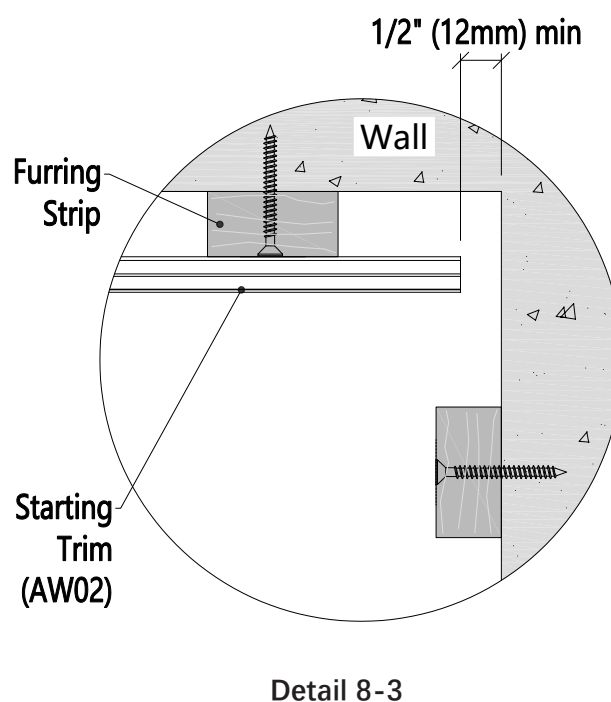
2. Fasten the Starting Trim (AW02) 2" (50mm) height against the floor to get a minimum clearance of 20 mm between the Siding Board and the floor, as shown in [Detail 8-2](#).

3. Inside Corner (no trim is needed to install)

A minimum clearance of 1/2" (12mm) needs to be left between the Starting Trim (AW02) against the Wall in the inside corner, as shown in [Detail 8-3](#).



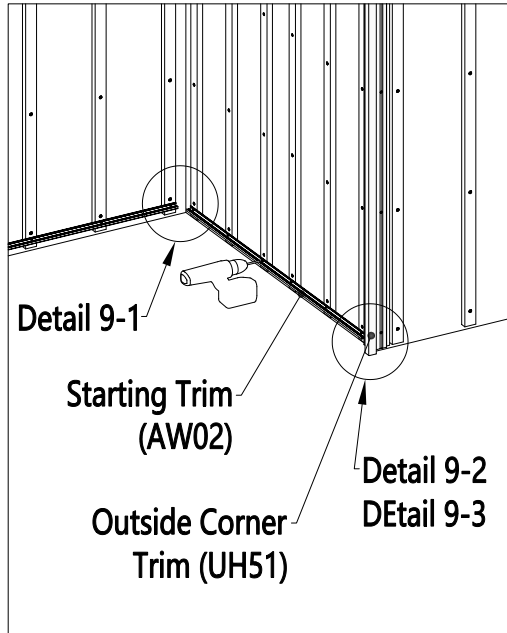
[Detail 8-2](#)



[Detail 8-3](#)

9 Install the Starting Trim (AW02) on Wall side B

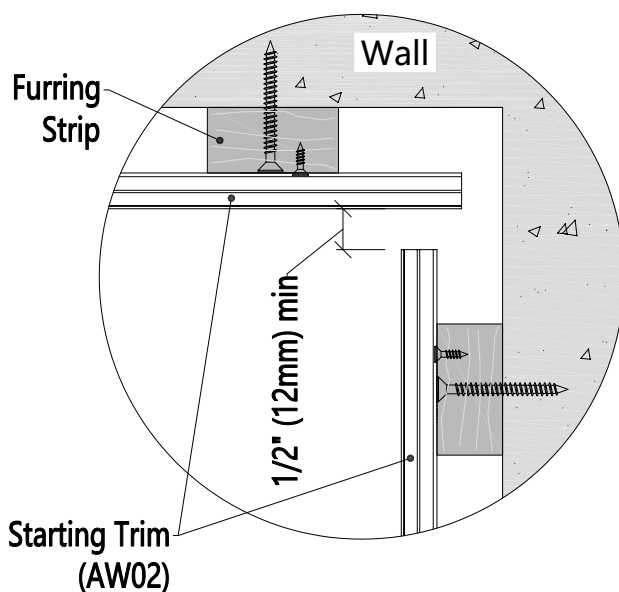
Install the Starting Trim (AW02) at the end of the Furring Strips against the floor with screws, as shown in [Diagram 9](#).



[Diagram 9](#)

Please Note:

1. Inside Corner (no trim is needed to install)
A minimum clearance of 1/2" (12mm) needs to be left between the Starting Trims (AW02) in the inside corner, as shown in [Detail 9-1](#).



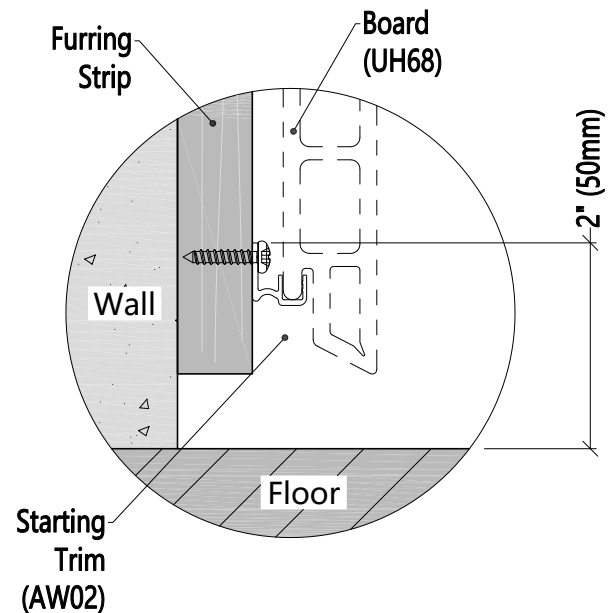
[Detail 9-1](#)

Please Note:

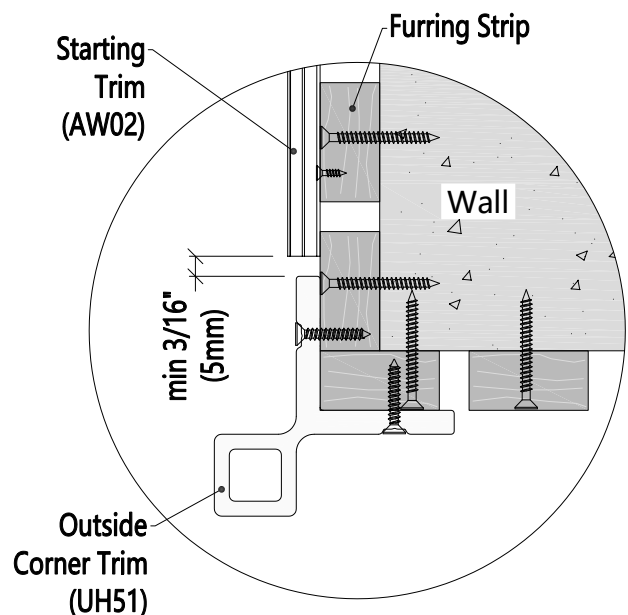
2. Fasten the Starting Trim (AW02) 2" (50mm) height against the floor to get a minimum clearance of 20 mm between the Siding Board and the floor, as shown in [Detail 9-2](#).

3. Outside Corner Trim (UH51)

A minimum gap of 5mm needs to be left between the Starting Trim (AW02) and the Outside Corner Trim (UH51), as shown in [Detail 9-3](#).



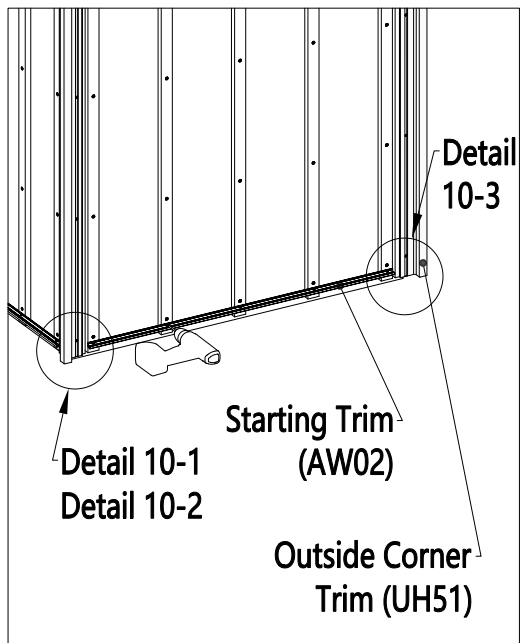
[Detail 9-2](#)



[Detail 9-3](#)

10 Install the Starting Trim (AW02) on Wall side C

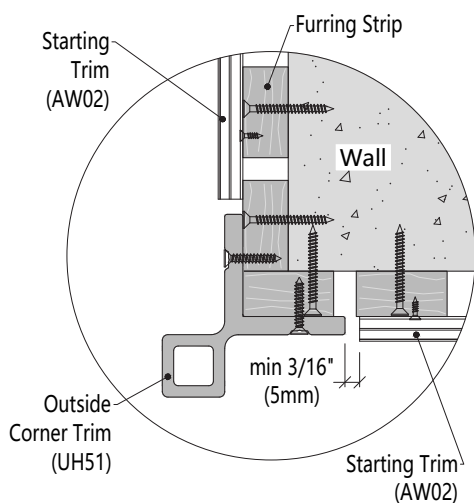
Install the Starting Trim (AW02) at the end of the furring strips against the floor with screws, as shown in [Diagram 10](#).



[Diagram 10](#)

Please Note:

1. Outside Corner Trim (UH51)
A minimum gap of 5mm needs to be left between the Starting Trim (AW02) and the Outside Corner Trim (UH51), as shown in [Detail 10-1](#).

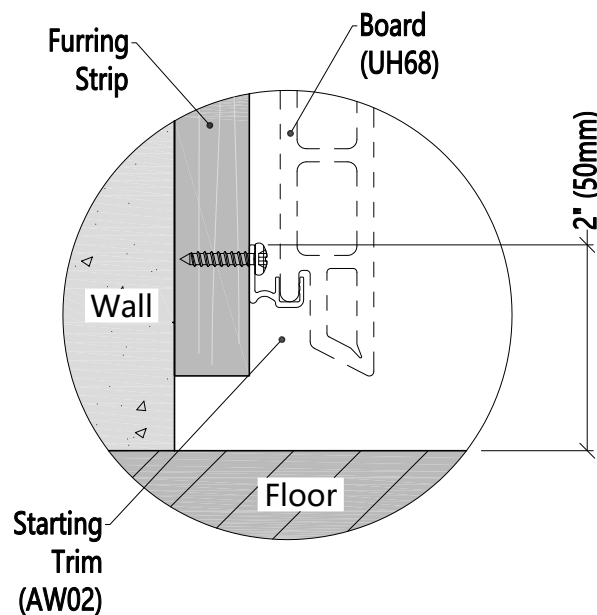


[Detail 10-1](#)

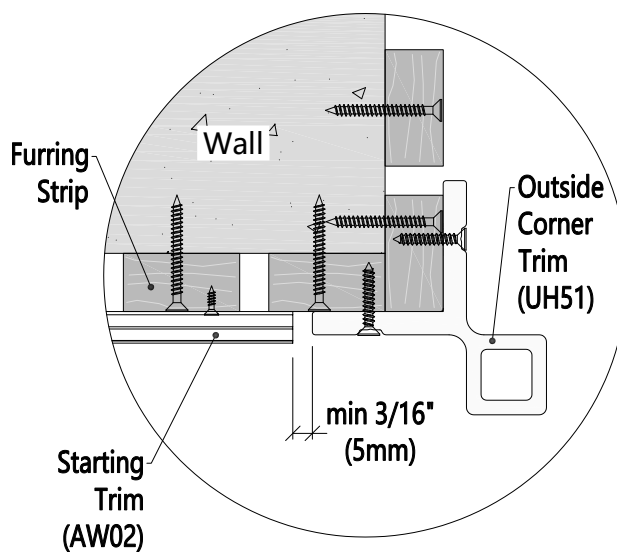
Please Note:

2. Fasten the Starting Trim (AW02) 50mm height against the floor to get a minimum clearance of 20 mm between the Siding Board and the floor, as shown in [Detail 10-2](#).

3. Outside Corner Trim (UH51)
A minimum gap of 3/16" (5mm) needs to be left between the Starting Trim (AW02) and the Outside Corner Trim (UH51), as shown in [Detail 10-3](#).



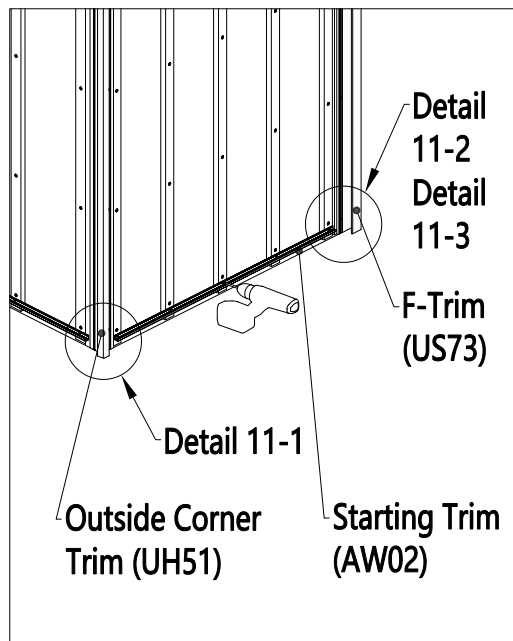
[Detail 10-2](#)



[Detail 10-3](#)

11 Install the Starting Trim (AW02) on Wall side D

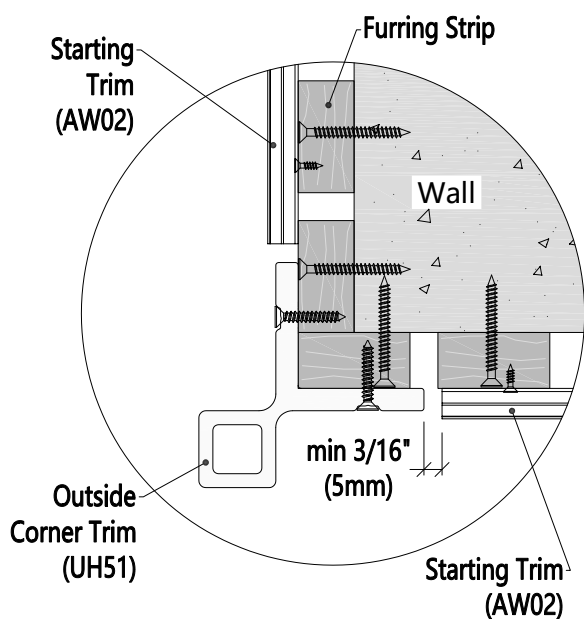
Install the Starting Trim (AW02) at the end of the Furring Strips against the floor with screws, as shown in [Diagram 11](#).



[Diagram 11](#)

Please Note:

1. Outside Corner Trim (UH51)
A minimum gap of 3/16" (5mm) needs to be left between the Starting Trim (AW02) and the Outside Corner Trim (UH51), as shown in [Detail 11-1](#).



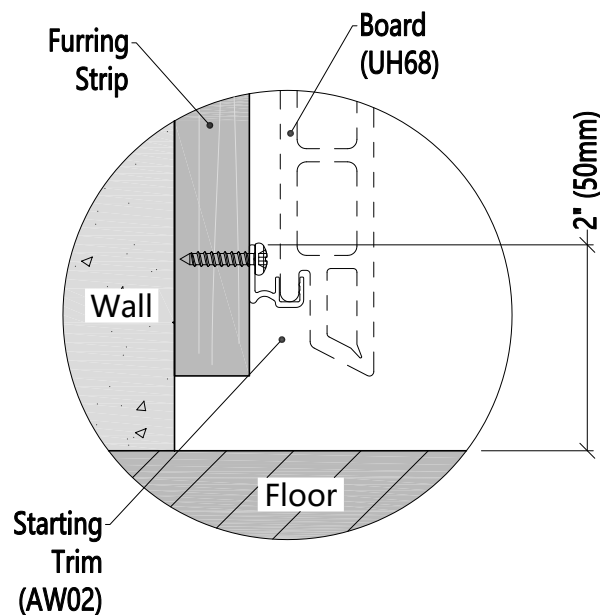
[Detail 11-1](#)

Please Note:

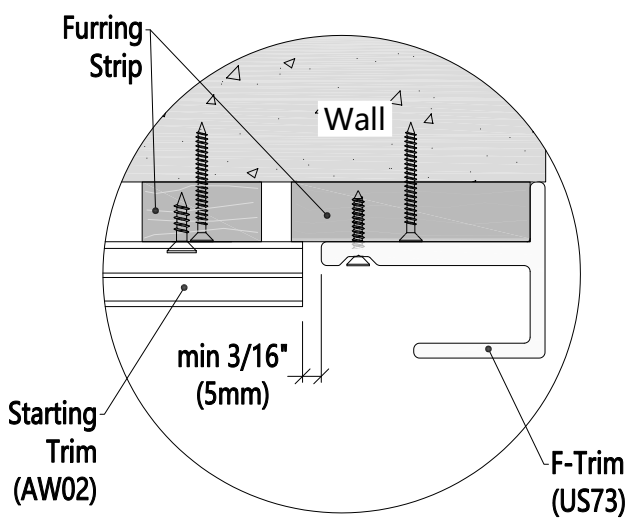
2. Fasten the Starting Trim (AW02) 2" (50mm) height against the floor to get a minimum clearance of 20 mm between the Siding Board and the floor, as shown in [Detail 11-2](#).

3. F-Trim (UH51)

A minimum clearance of 3/16" (5mm) needs to be left between the Starting Trims (AW02) and F-Trim on the Outermost Edge, as shown in [Detail 11-3](#).



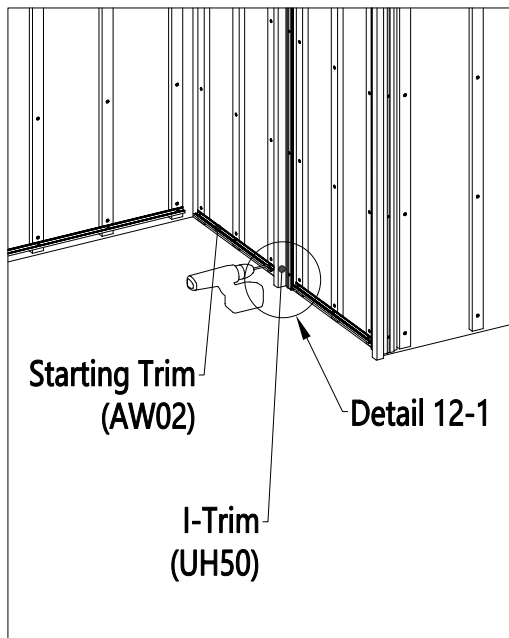
[Detail 11-2](#)



[Detail 11-3](#)

12 Install the Starting Trim (AW02) for the Butt Joint on Wall Side B

Install the Starting Trim (AW02) at the end of the furring strips against the floor with screws, as shown in [Diagram 12](#).

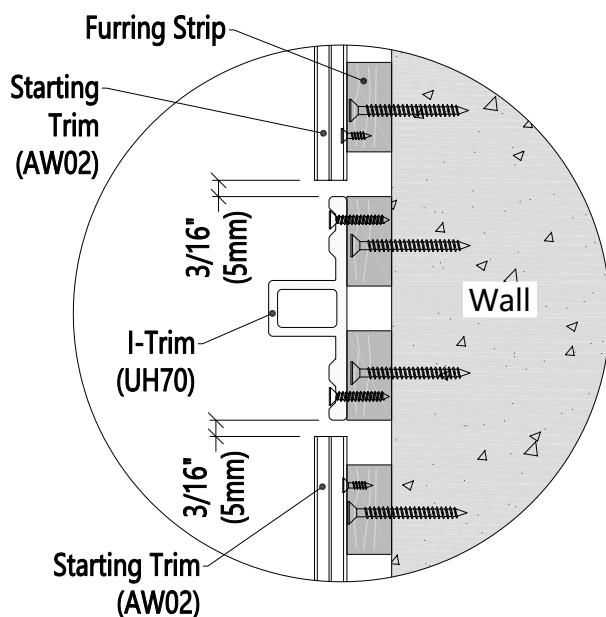


[Diagram 12](#)

Please Note:

1. I-Trim (UH70)

A minimum gap of 3/16" (5mm) needs to be left between the Starting Trims (AW02) and the I-Trim (UH70), as shown in [Detail 12-1](#).

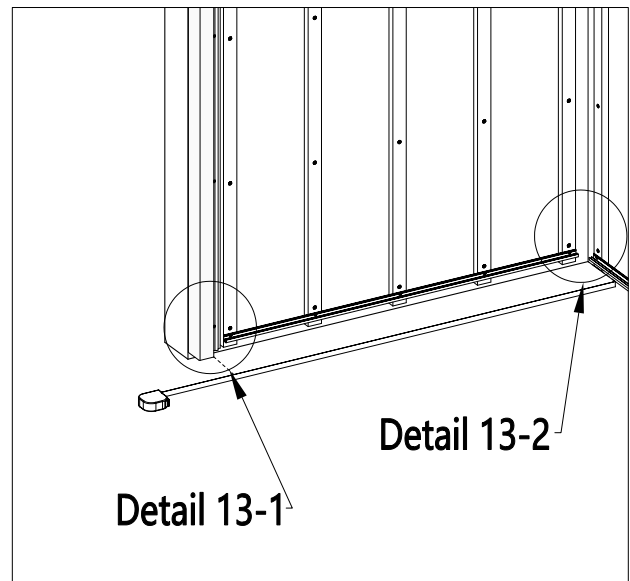


[Detail 12-1](#)

13 Siding Board Installation

Install the Siding Board(UH68) on Wall Side A

Before installation, measure the length of Board(UH68) require to install, please follow to the installation structure as shown in [Diagram 13](#).



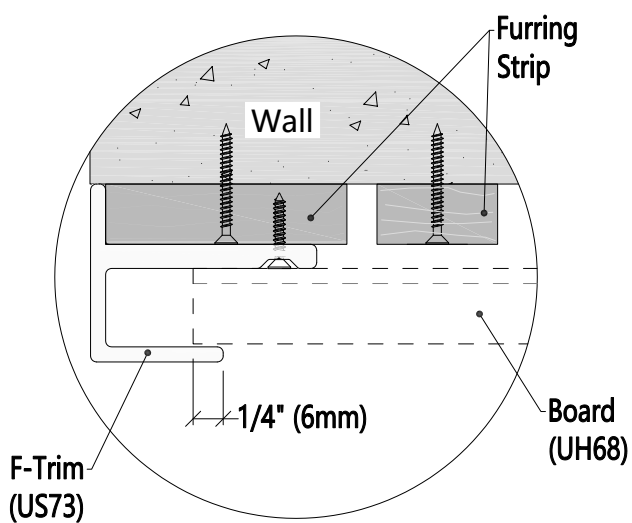
[Diagram 13](#)

Please Note:

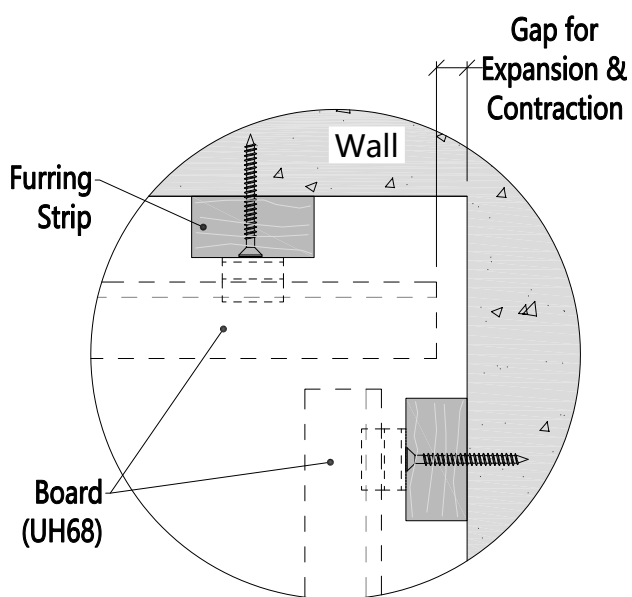
1. The Siding Board(UH68) needs to be fitted in the length of 6mm into the F-Trim, as shown in [Detail 13-1](#).

2. Leave a gap between the board and the inside corner to allow the siding board's expansion and contraction, as shown in [Detail 13-2](#).

Please select the appropriate gap value according to the Expansion and Contraction Value Table on [page 11](#) of this installation guide.



Detail 13-1



Detail 13-2

14 Rip the siding board according to the measurement, as shown in [Diagram 14](#).

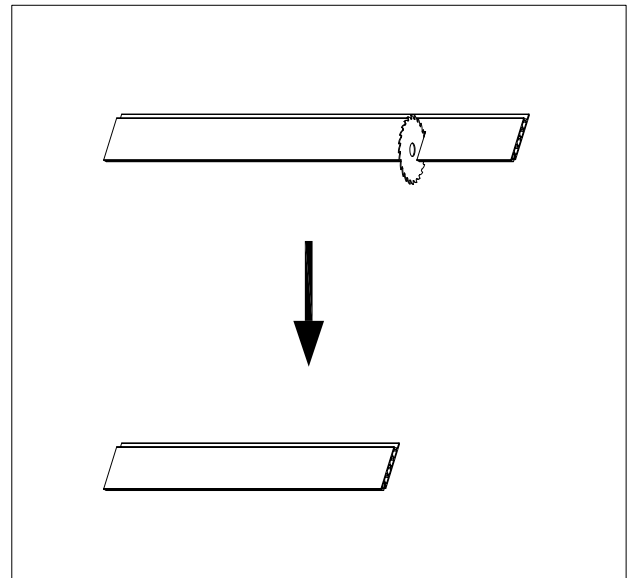


Diagram 14

- 15 Put the first Siding Board (UH68) over the Starting Trim (AW02) in place and fasten it onto the furring strips with the Clip (AW08), as shown in Diagram 15.

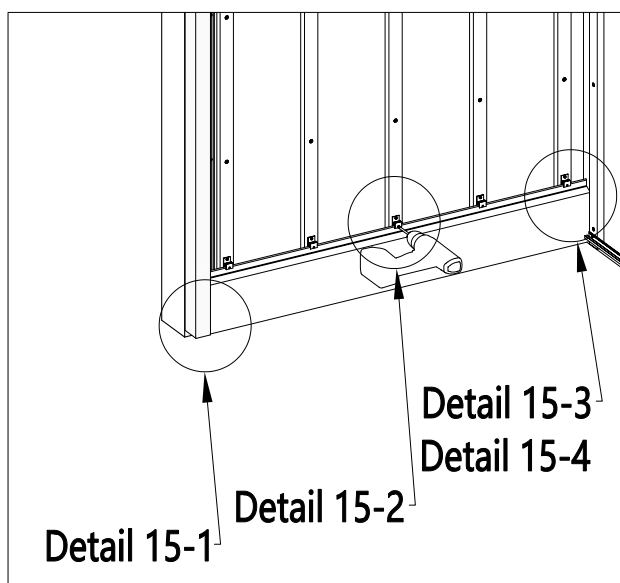
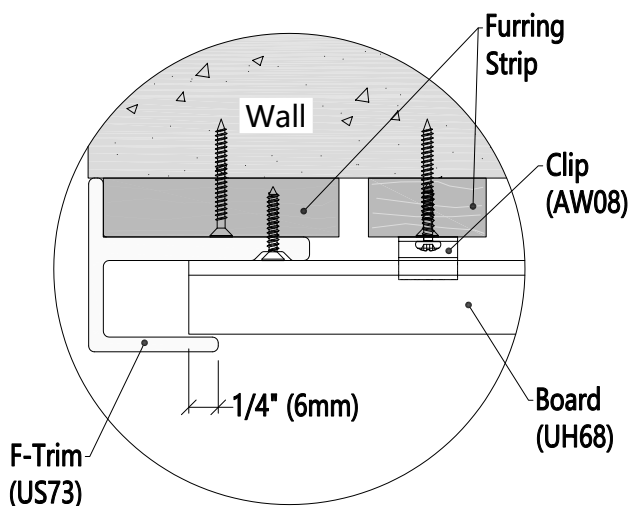


Diagram 15

Please Note:

1. It's recommended to fit the siding board into the F-Trim (US73) in the length of 1/4" (6mm), as shown in Detail 15-1.



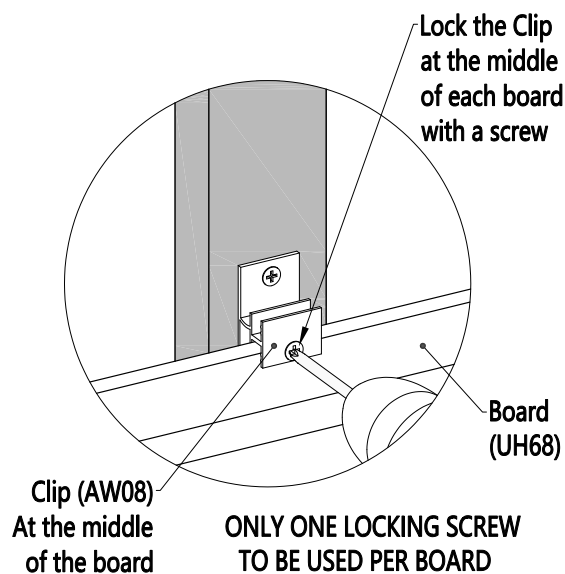
Detail 15-1

2. 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 15-2.

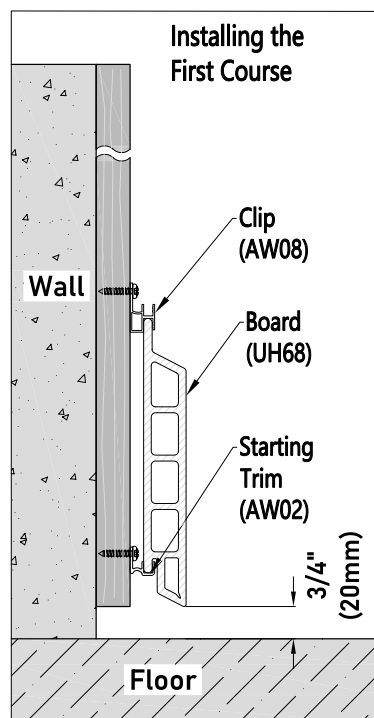
DO NOT LOCK any other Clip (AW08) for the same board.

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

3. Fasten the first Siding Board (UH68) against the floor to get a minimum clearance of 3/4" (20 mm) between the siding board and the floor, as shown in Detail 15-3.



Detail 15-2



Detail 15-3

- 16 When you are at the last Siding Board(UH68), install the Rubber Stoppers (T-7) onto each furring strip with screws, as shown in Diagram 16.

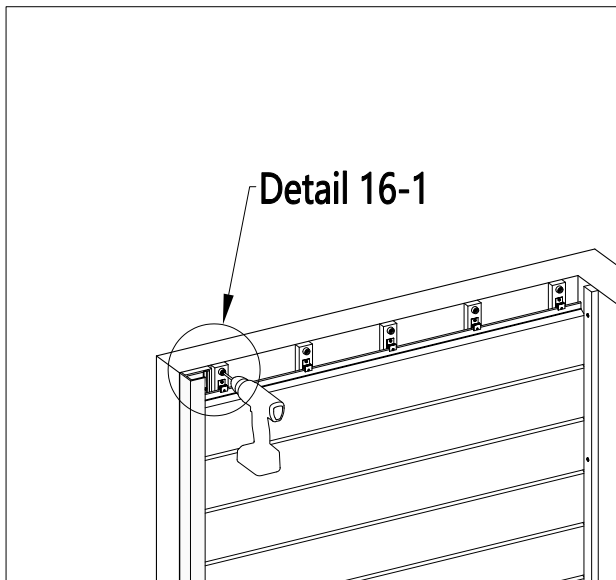
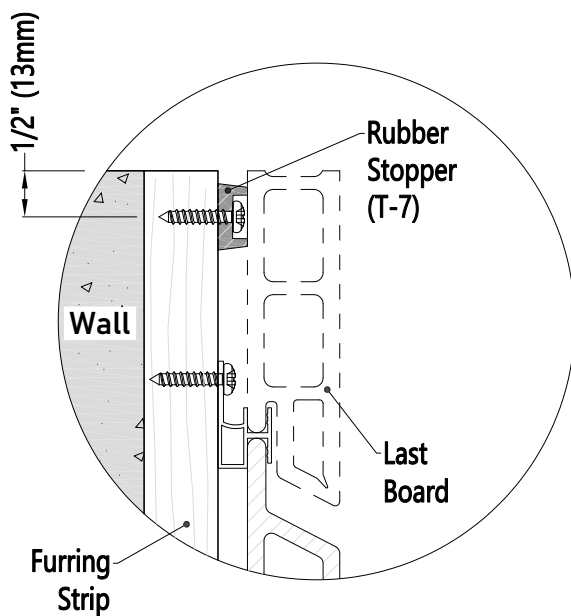


Diagram 16

Please Note:

1. Fasten the Rubber Stopper(T-7) below 1/2"(13mm) distance from the top end of furring strips, as shown in Detail 16-1.



Detail 16-1

- 17 When you are at the last Siding Board (UH68), measure the dimension between the top end of the joist and the Clip (AW08), as shown in Diagram 17 and Detail 17-1.

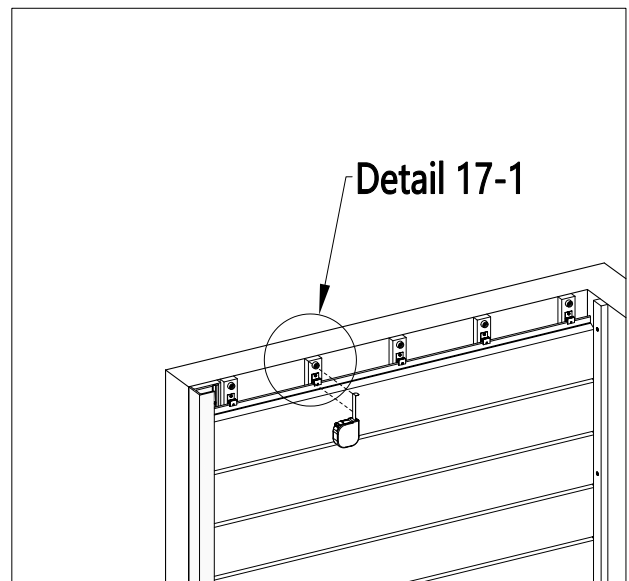
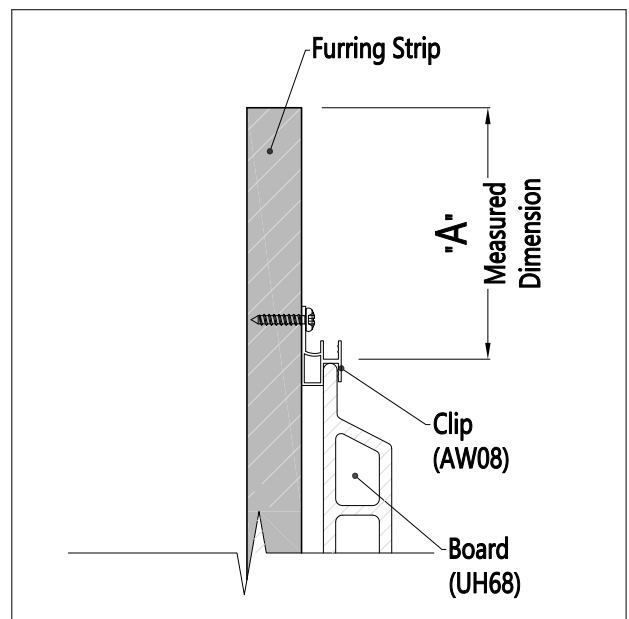


Diagram 17



Detail 17-1

- 18** Rip the board according to the measurement, as shown in **Diagram 18** and **Detail 18-1**.

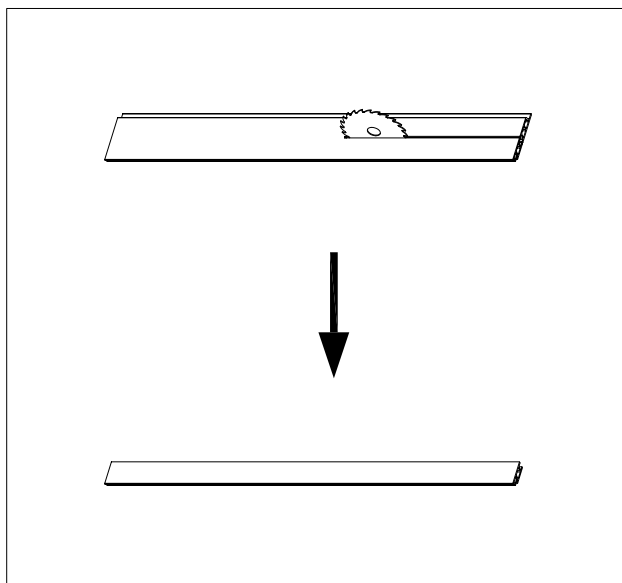
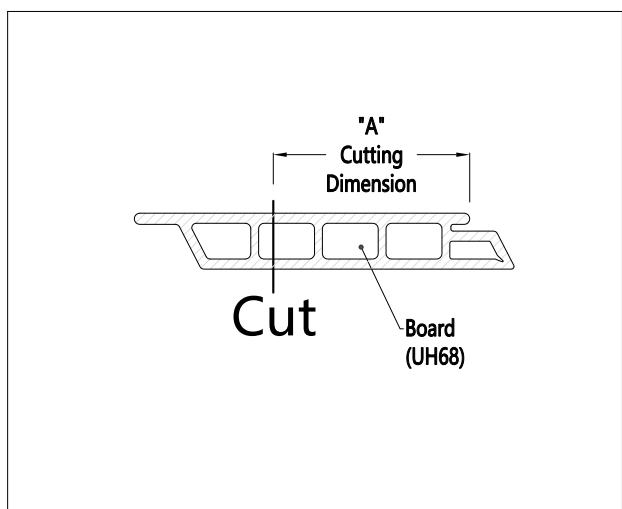


Diagram 18



Detail 18-1

- 19** Put the cutted Siding Board(UH68) over the Clip (AW08) in place and then face fix it onto each furring strip along the length of the boards against the Rubber Stopper (T-7), as shown in **Diagram 19** and **Detail 19-1**.

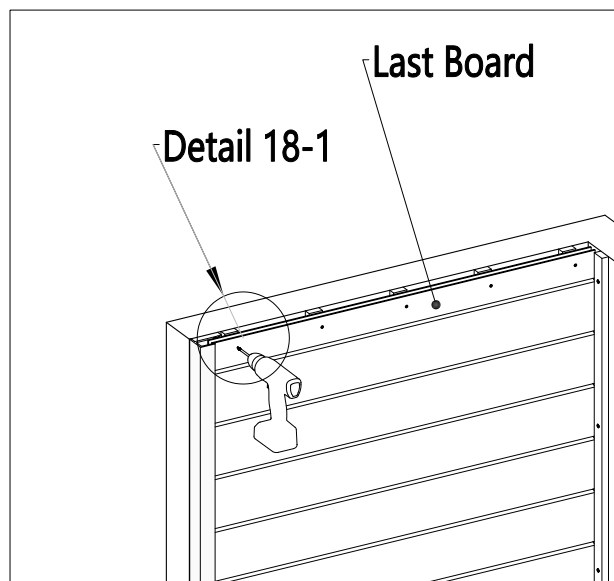
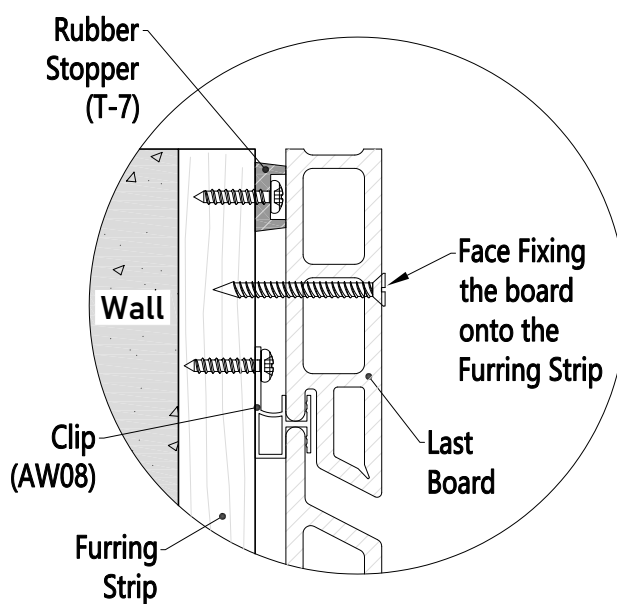


Diagram 19



Detail 19-1

Please Note:

Predrill the cutted Siding Board before installation to allow for expansion and contraction. Please review the section, "*Predrill*", on [page 5](#) of this installation guide for details.

- 20 **Diagram 20** presents the Wall side A completing the installation.

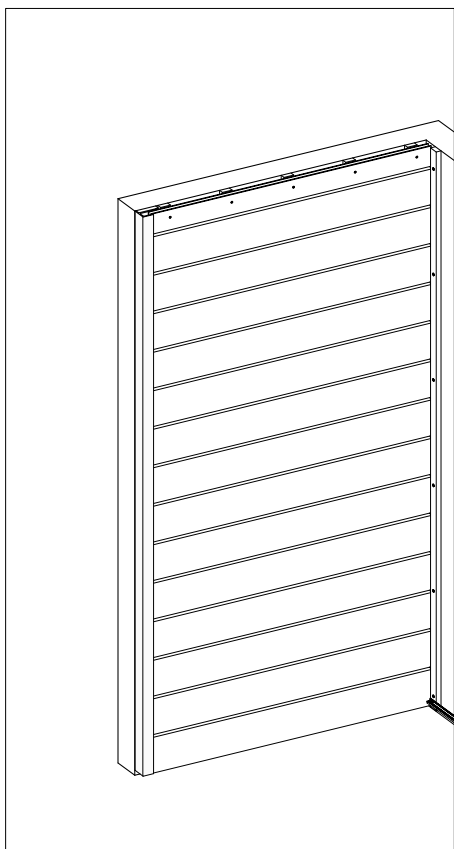


Diagram 20

21 Install the Siding Board(UH68) on Wall Side B

Before installation, measure the length of Board(UH68) require to install, please follow to the installation structure as shown in **Diagram 21**.

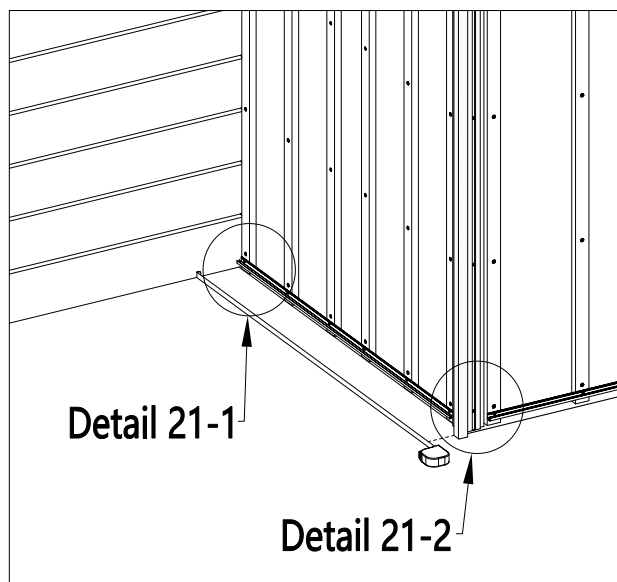
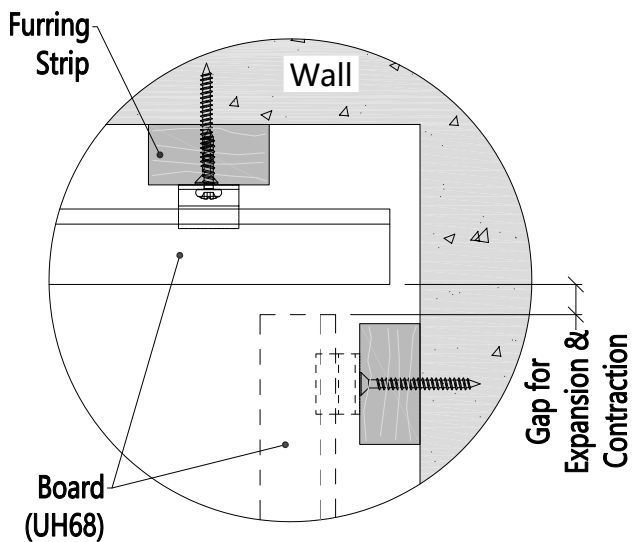


Diagram 21

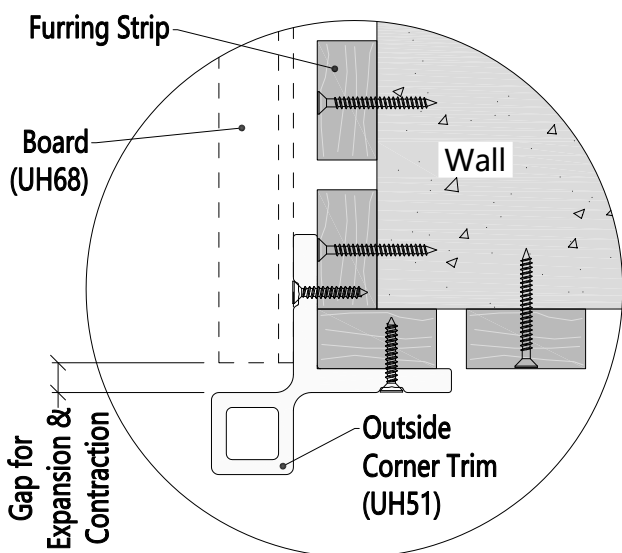
Please Note:

1. The Gap for Expansion & Contraction between the Boards(UH68) in the inside Corner, please refer to page 11, as shown in Detail 21-1.

2. The Gap for Expansion & Contraction between the Board(UH68) and Outside Corner Trim(UH51), please refer to page 11, as shown in Detail 21-2.



Detail 21-1



Detail 21-2

22 Rip the board according to the measurement, as shown in Diagram 22.

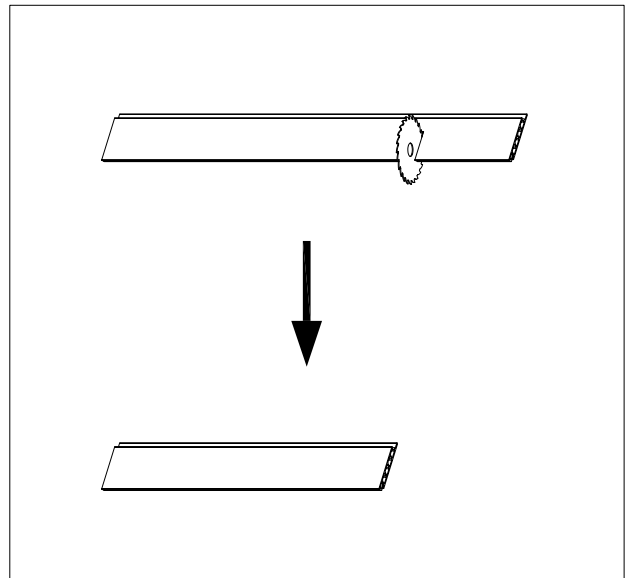


Diagram 22

- 23** Put the first Siding Board (UH68) over the Starting Trim (AW02) in place and fasten it onto the furring strips with the Clip (AW08), as shown in [Diagram 23](#).

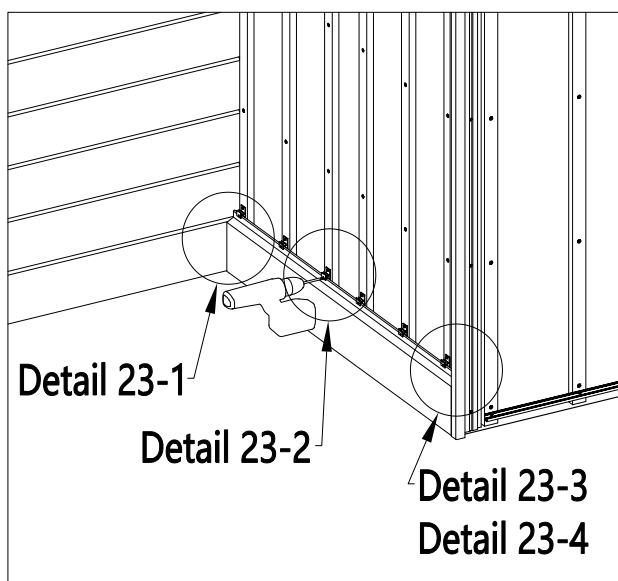


Diagram 23

Please Note:

1. The Gap for Expansion & Contraction between the Boards(UH68) in the inside Corner, please refer to page 11, as shown in [Detail 23-1](#).

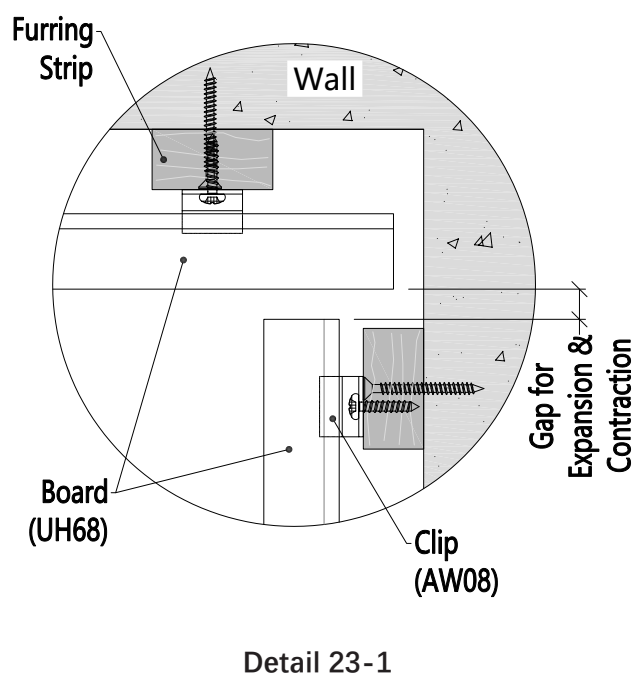
2. Since the composite wood must allow for expansion and contraction due to temperature change, the board must be **locked at one fixed point but only one point** to allow the remaining board to move freely. When installing horizontally, it is required to **lock the Clip (AW08) at the middle of each board**, as shown in [Detail 23-2](#).

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

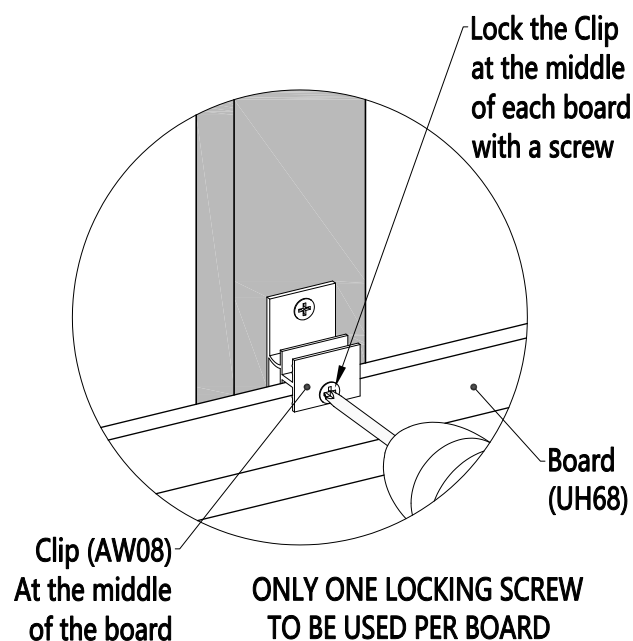
Please review [page 12](#), "[Locking the Siding Board](#)" of this installation guide for further information.

3. Fasten the first Siding Board (UH68) against the floor to get a minimum clearance of 20 mm between the siding board and the floor, as shown in [Detail 23-3](#).

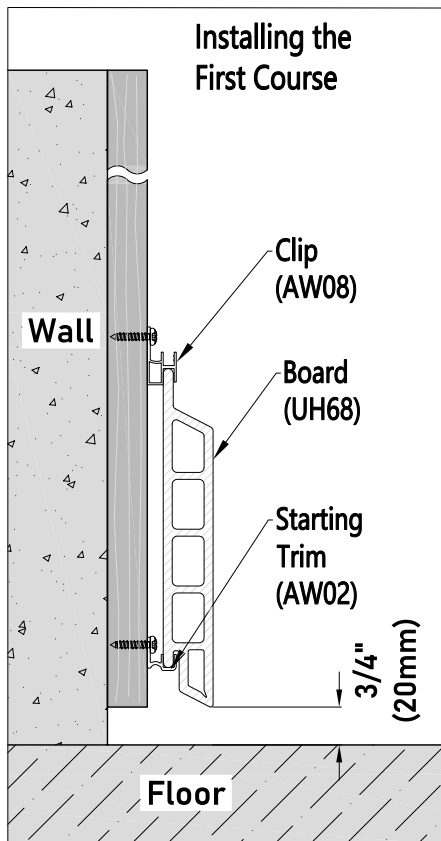
4. Install the Siding Board(UH68) on the Outside Corner Trim(UH51), as shown in [Detail 23-4](#). The Gap for Expansion & Contraction between the Board and Outside Corner Trim(UH51), please refer to page 11, as shown in [Detail 23-4](#)



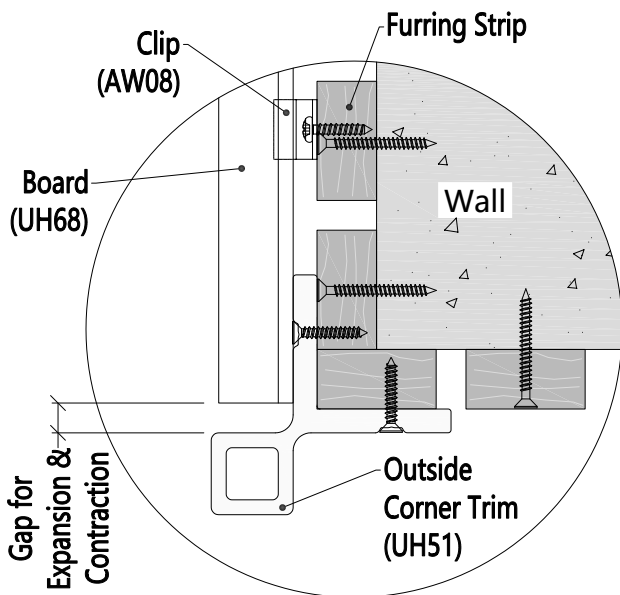
Detail 23-1



Detail 23-2



Detail 23-3



Detail 23-4

- 24** When you are at the last siding board (UH68), install the Rubber Stoppers (T-7) onto each furring strip with screws, as shown in Diagram 24.

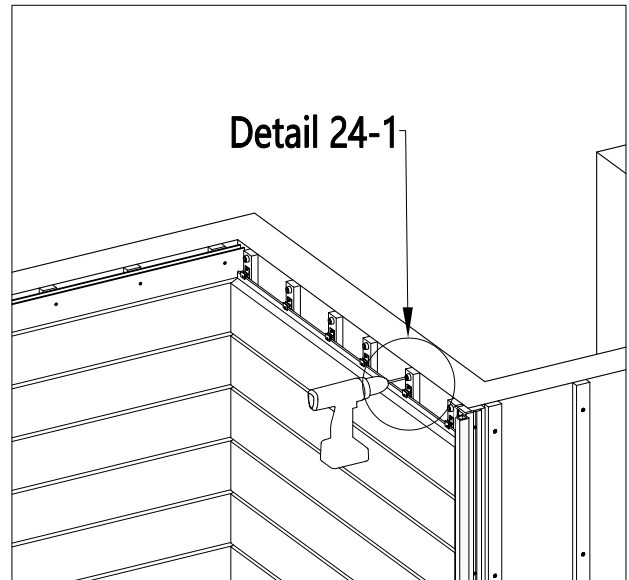
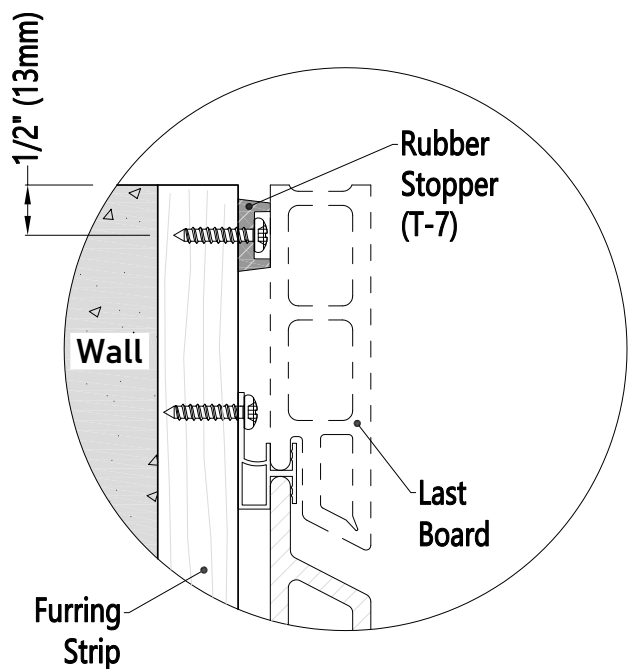


Diagram 24

Please Note:

1. Fasten the Rubber Stopper (T-7) below 1/2" (13mm) distance against the top of the furring strips, as shown in Detail 24-1.



Detail 24-1

25 Install the Last Siding Board

When you are at the last Siding Board,(UH68) measure the dimension between the top end of the Furring Strips and the Clip (AW08), as shown in **Diagram 25** and **Detail 25-1**.

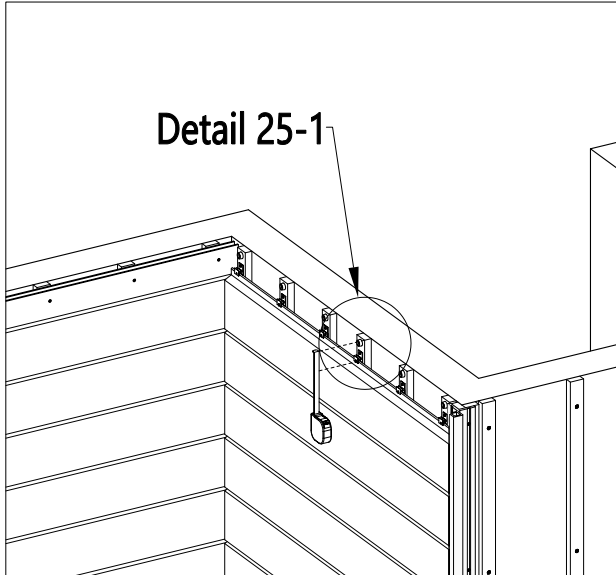
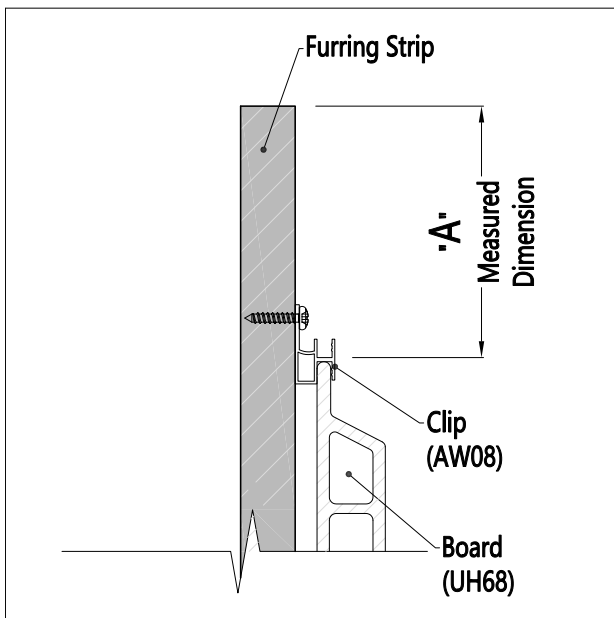


Diagram 25



Detail 25-1

26 Cut the Siding Board(UH68) according to the measured dimension, as shown in **Diagram 26** and **Detail 26-1**.

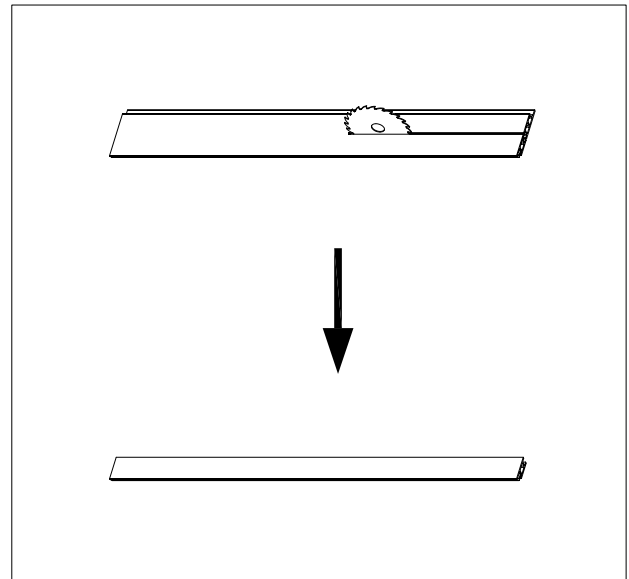
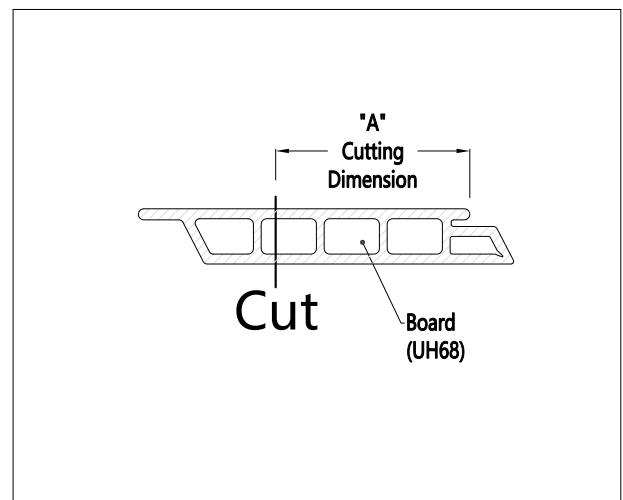


Diagram 26



Detail 26-1

- 27 Put the cutted Siding board(UH68) over the Clip (AW08) in place and then face fix it onto each Furring Strip along the length of the boards against the Rubber Stopper (T-7), as shown in **Diagram 27** and **Detail 27-1**.

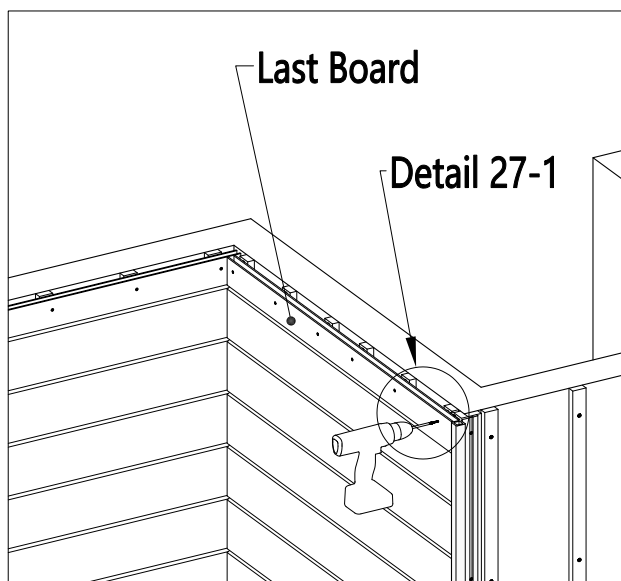
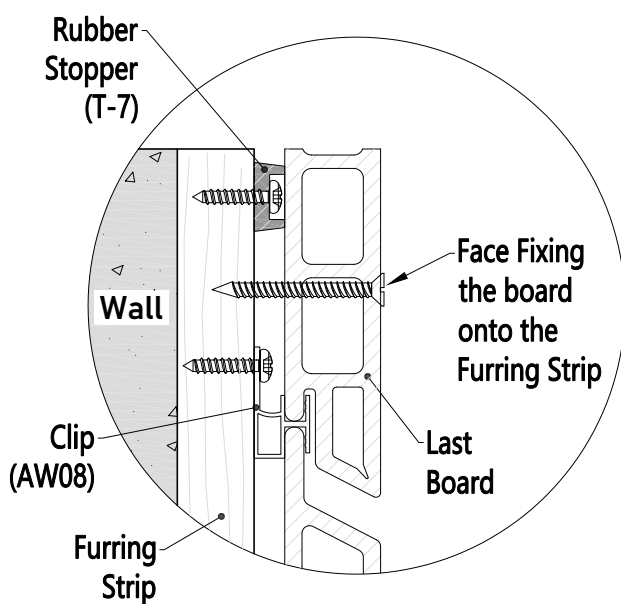


Diagram 27



Detail 27-1

Please Note:

Predrill the cutted Siding board before installation to allow for expansion and contraction. Please review the section, "*Predrill*", on [page 5](#) of this installation guide for details.

- 28 **Diagram 28** presents the Wall side B completing the installation.

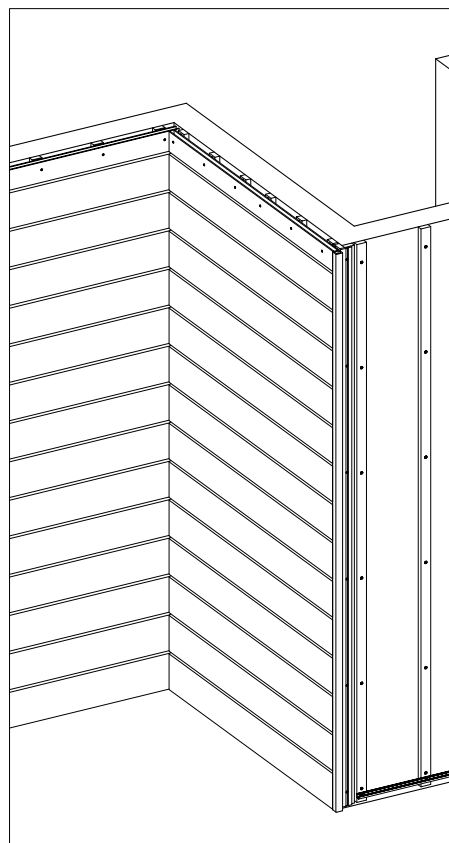
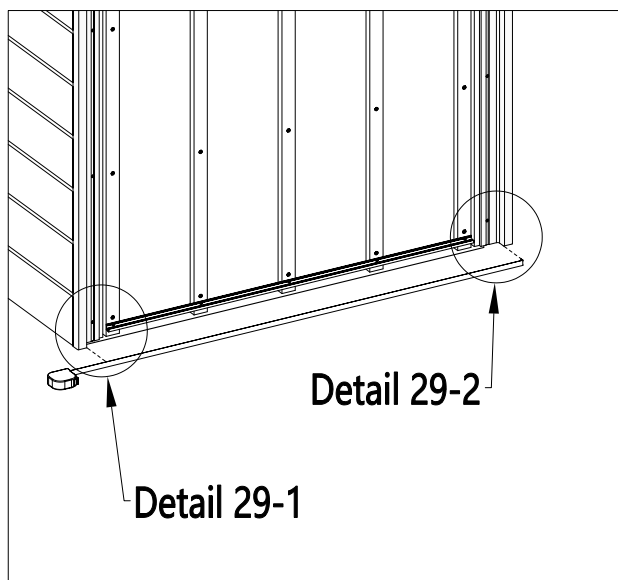


Diagram 28

29 Install the Siding Board(UH68) on Wall Side C

Put the first Siding Board (UH68) over the Starting Trim (AW02) in place and fasten it onto the Furring Strips with the Clip (AW08), as shown in [Diagram 29](#).

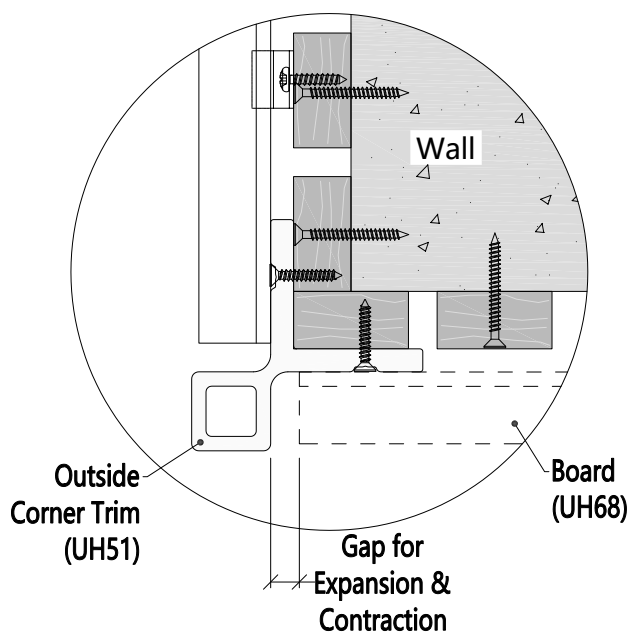


[Diagram 29](#)

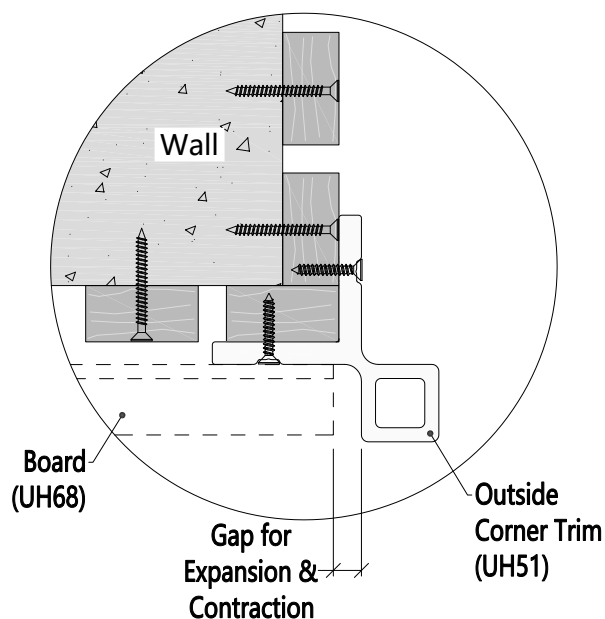
Please Note:

1. Install the Siding Board(UH68) on the Outside Corner Trim(UH51), as shown in [Detail 29-1](#). The Gap for Expansion & Conatraction between the Board and Outside Corner Trim(UH51), please refer to page 11, as shown in [Detail 29-1](#).

2. Install the Siding Board(UH68) on the another Outside Corner Trim(UH51), as shown in [Detail 29-2](#). The Gap for Expansion & Conatraction between the Board and the Outside Corner Trim(UH51), please refer to page 11, as shown in [Detail 29-2](#).



[Detail 29-1](#)



[Detail 29-2](#)

Please install the subsequent siding boards following the installation procedure from step 21 to step 27.

30 **Diagram 30** presents the Wall side A completing the installation.

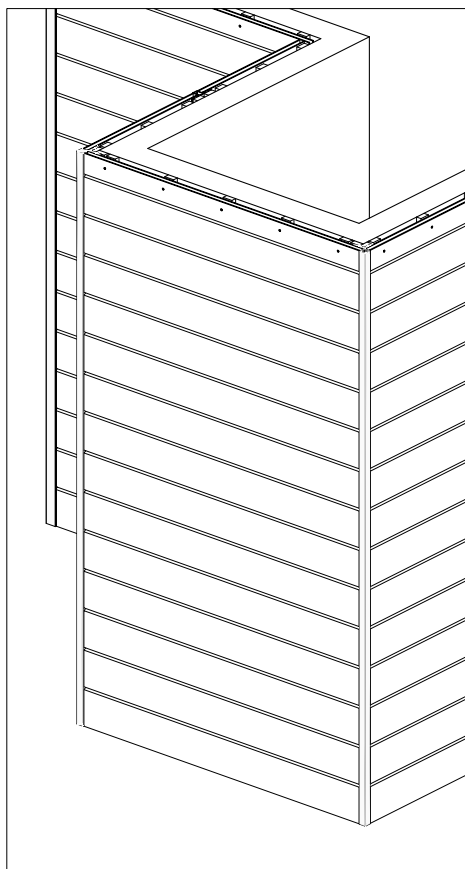


Diagram 30

31 **Install the Siding Board(UH68) on Wall Side D**

Put the first Siding Board (UH68) over the Starting Trim (AW02) in place and fasten it onto the Furring Strip with the Clip (AW08), as shown in **Diagram 31**

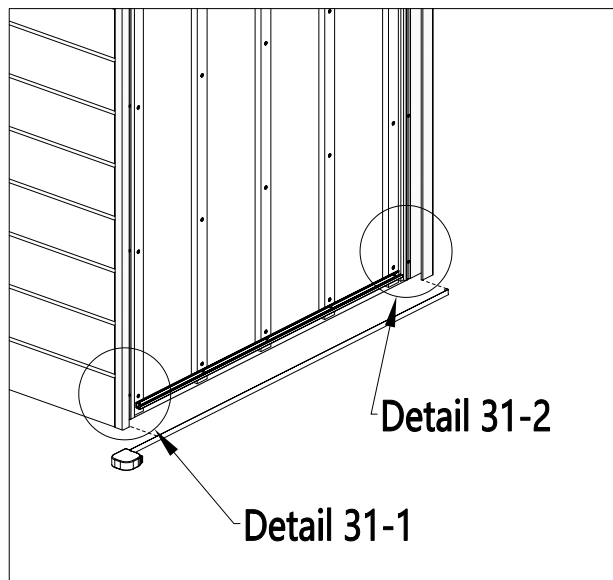
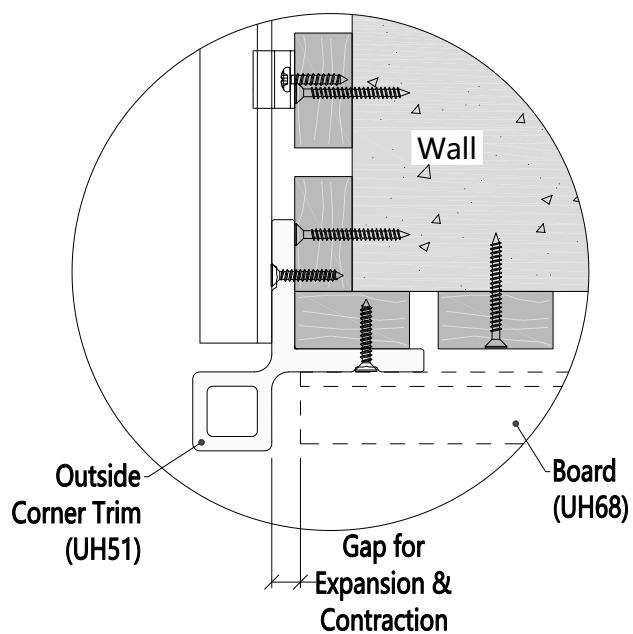


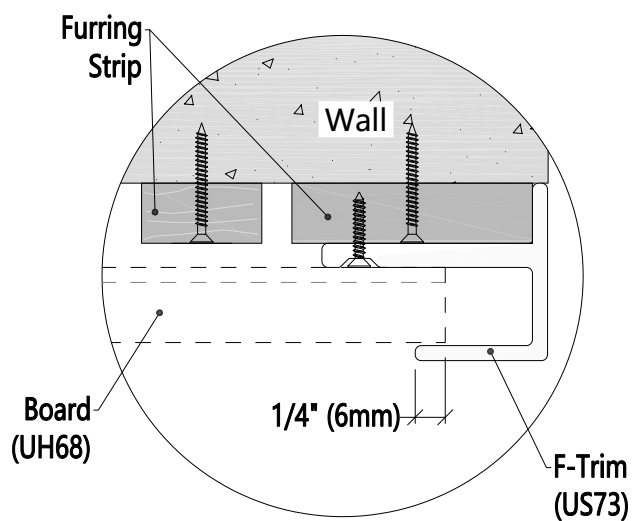
Diagram 31

Please Note:

1. Install the Siding Board(UH68) on the Outside Corner Trim, as shown in **Detail 31-1**. The Gap for Expansion & Contraction between the Board and Outside Corner Trim(UH51), please refer to page 11, as shown in **Detail 31-1**.
2. Install the Board(UH68) on the outermost Corner F-Trim (US73) as shown in **Detail 31-2**. It's recommended to fit the siding board into the F-Trim (US73) in the length of 1/4" (6mm)), as shown in **Detail 31-2**.



Detail 31-1



Detail 31-2

Please install the subsequent siding boards following the installation procedure from step 21 to step 27.

32 *Diagram 32* presents the Wall side D completing the installation.

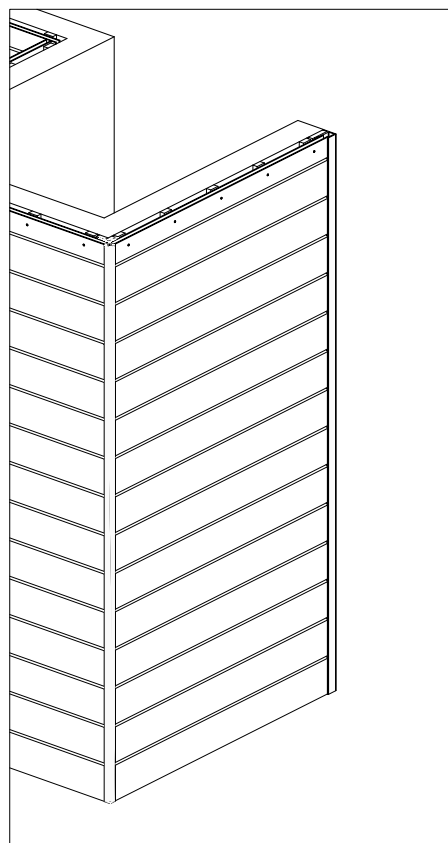


Diagram 32

33 Butt Joint Installation

Before installation, measure the length of Board(UH68) require to install, please follow to the installation as shown in **Diagram 33**.

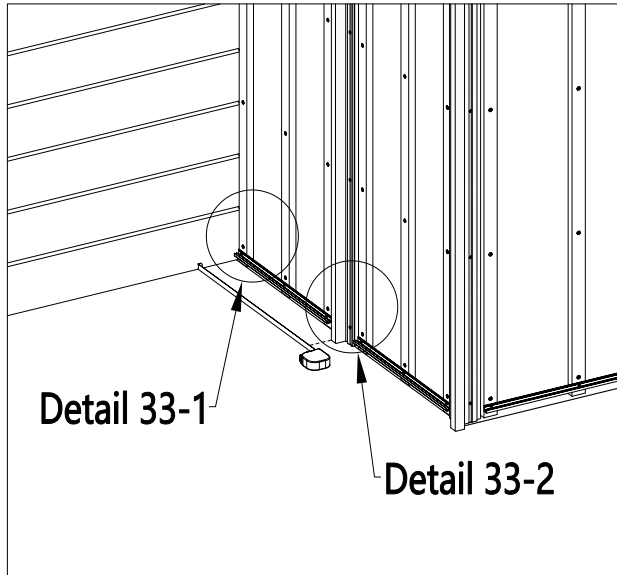
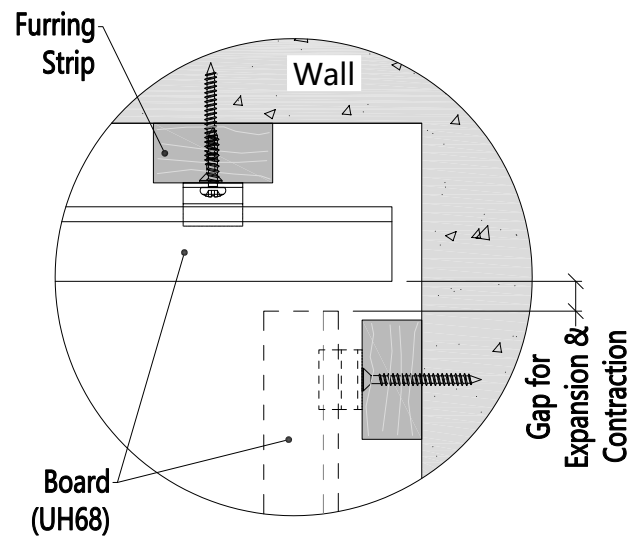


Diagram 33

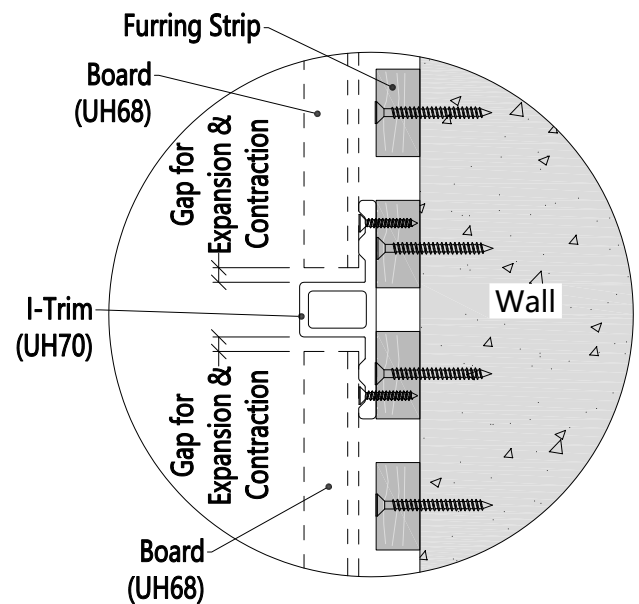
Please Note:

1.The Gap for Expansion & Conatraction between the Boards(UH68) in the inside Corner, please refer to page 11, as shown in **Detail 33-1**.

2. Install the Board(UH68) on the I-Trim(UH70), as shown in **Detail 33-2**.
The Gap for Expansion & Conatraction between the Boards and I-Trim(UH70), please refer to page 11, as shown in **Detail 33-2**.

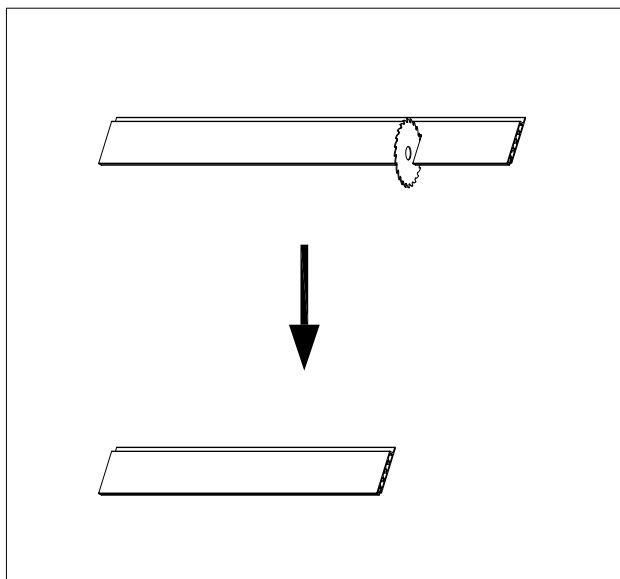


Detail 33-1



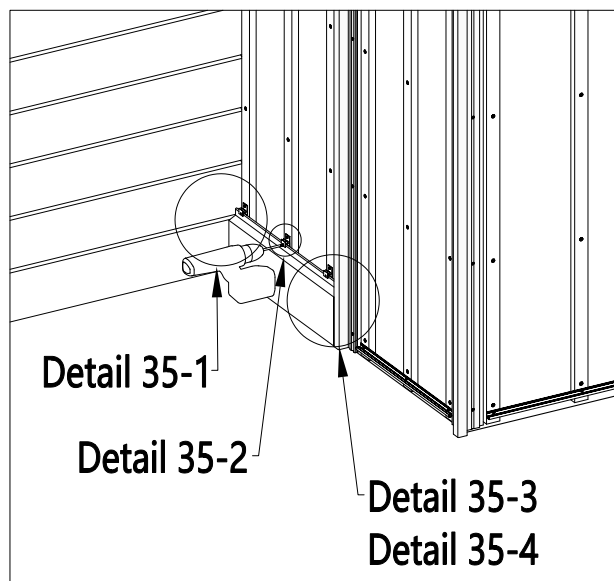
Detail 33-2

- 34 Rip the board according to the measurement, as shown in [Diagram 34](#).



[Diagram 34](#)

- 35 Put the first Shadowline Siding Board (UH68) over the Starting Trim (AW02) in place and fasten it onto the Furring Strips with the Clip (AW08), as shown in [Diagram 35](#) and [Detail 35-1](#).



[Diagram 35](#)

Please Note:

1. The Gap for Expansion & Contraction between the Boards(UH68) in the inside Corner, please refer to page 11, as shown in [Detail 35-1](#).

2. 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 35-2](#).

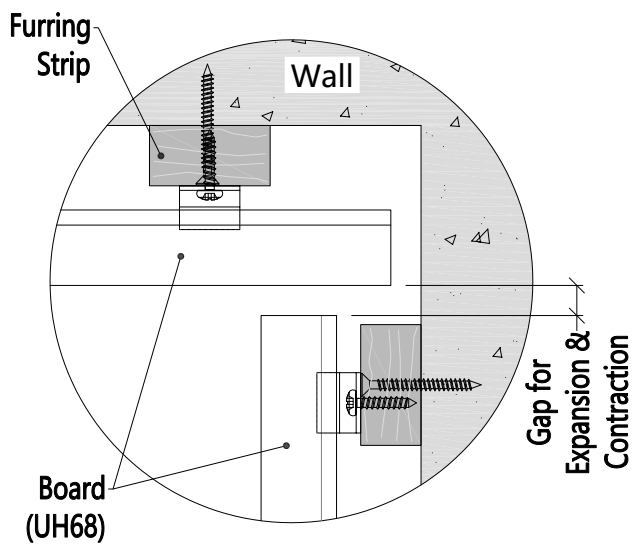
DO NOT LOCK any other Clip (AW08) for the same board.

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

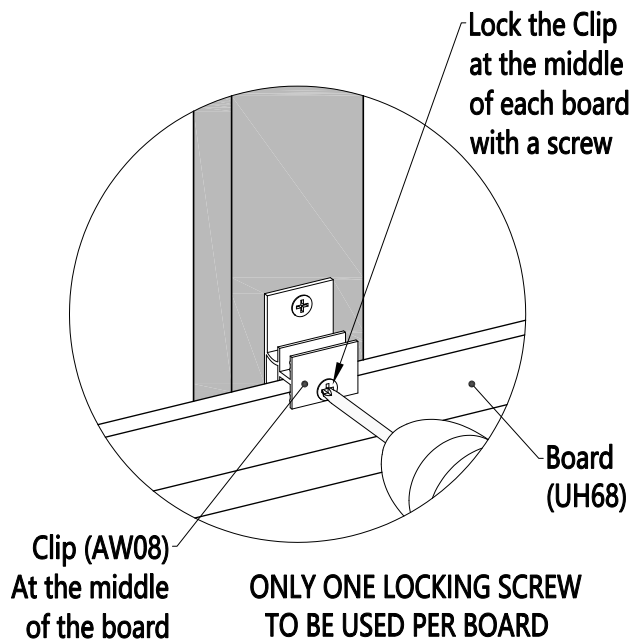
3. Fasten the first Siding Board (UH68) against the floor to get a minimum clearance of 20 mm between the siding board and the floor, as shown in [Detail 35-3](#).

4. Install the Siding Board(UH68) on the I-Trim(UH70), as shown in [Detail 35-4](#).

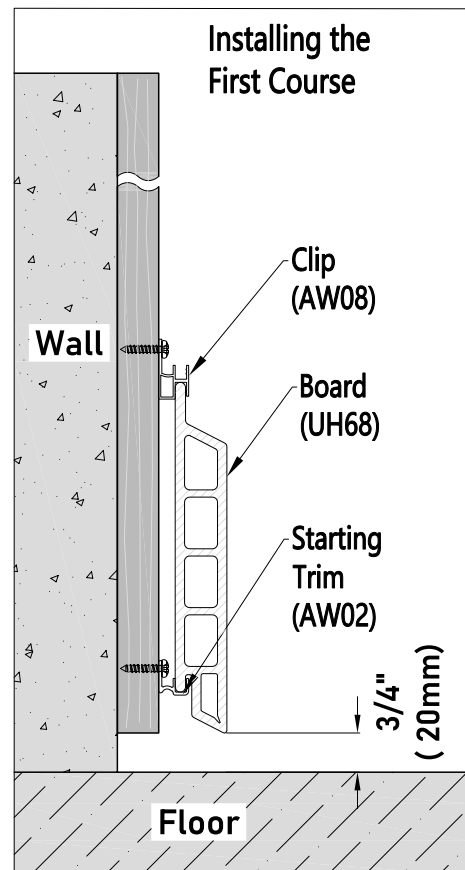
The Gap for Expansion & Contraction between the Board and the I-Trim(UH51), please refer to page 11, as shown in [Detail 35-4](#).



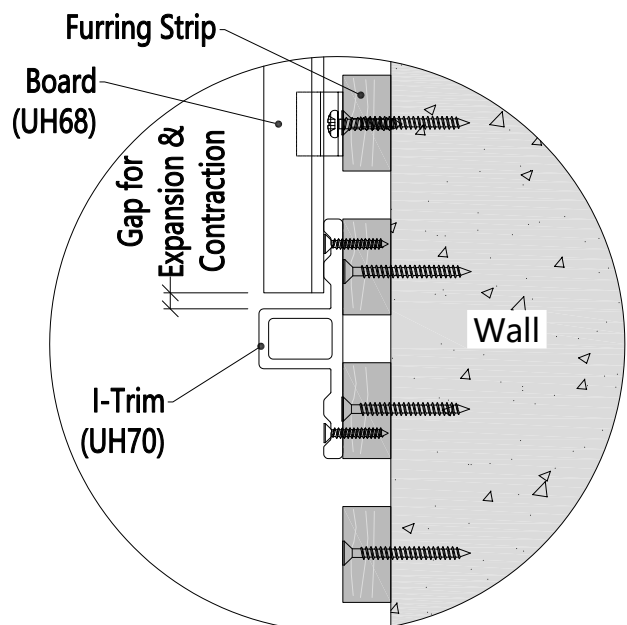
Detail 35-1



Detail 35-2



Detail 35-3



Detail 35-4

- 36** When you are at the last Siding Board(UH68), install the Rubber Stoppers (T-7) onto each Furring Strip with screws, as shown in **Diagram 36** and **Detail 36-1**.

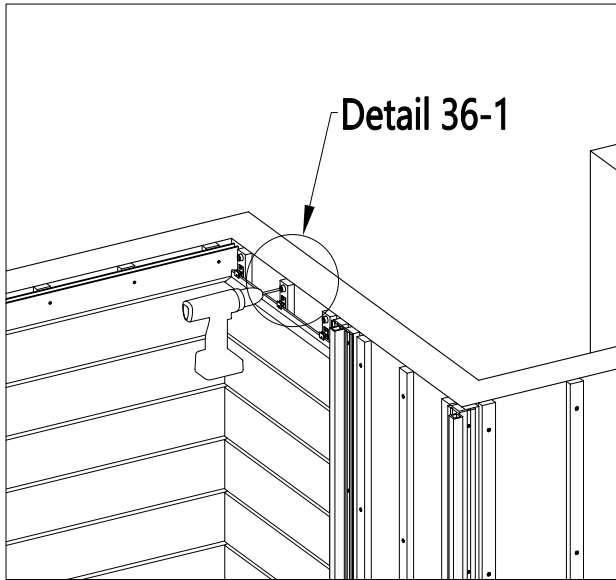
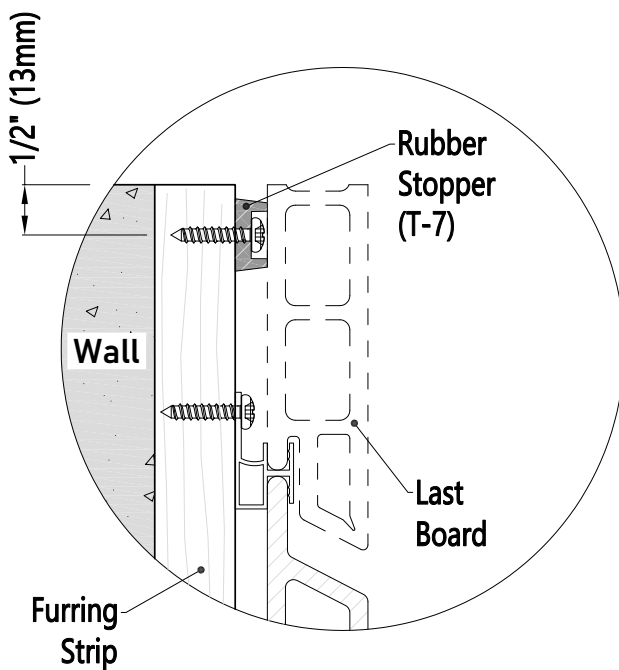


Diagram 36

Please Note:

1. Fasten the Rubber Stopper(T-7) below 13mm distance against the top of Furring Strip, as shown in **Detail 36-1**.



Detail 36-1

- 37** When you are at the last Siding Board(UH68), measure the distance between the top end of the Furring Strips and the Clip (AW08), as shown in **Diagram 37** and **Detail 37-1**.

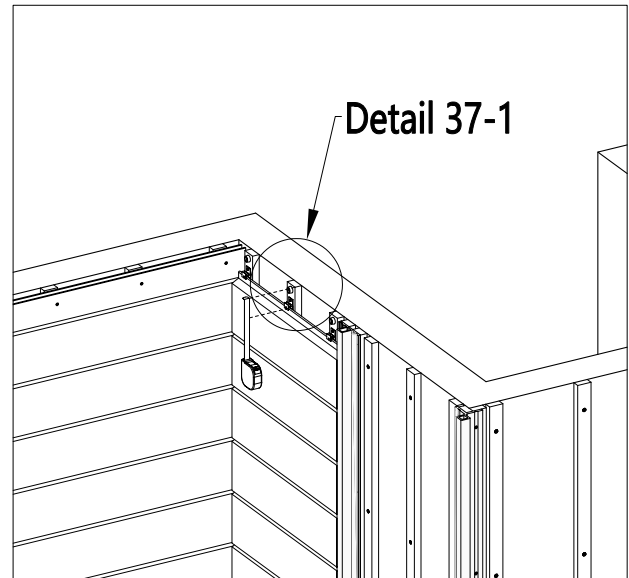
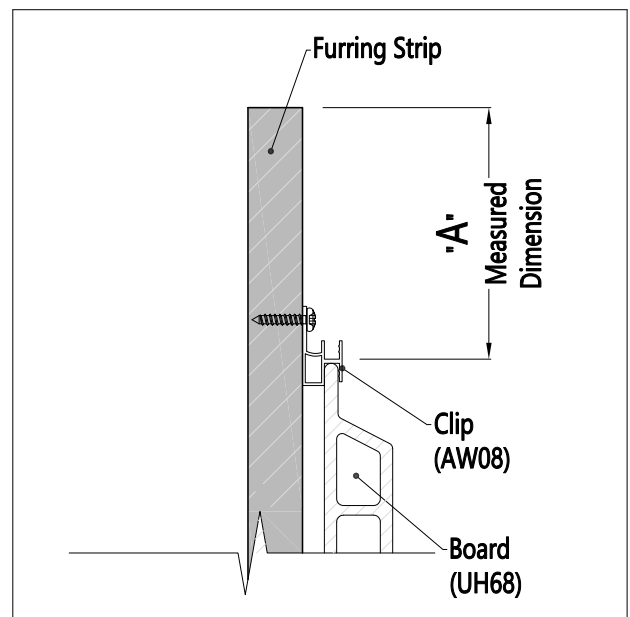


Diagram 37



Detail 37-1

- 38** Rip the board according to the measurement, as shown in **Diagram 38** and **Detail 38-1**.

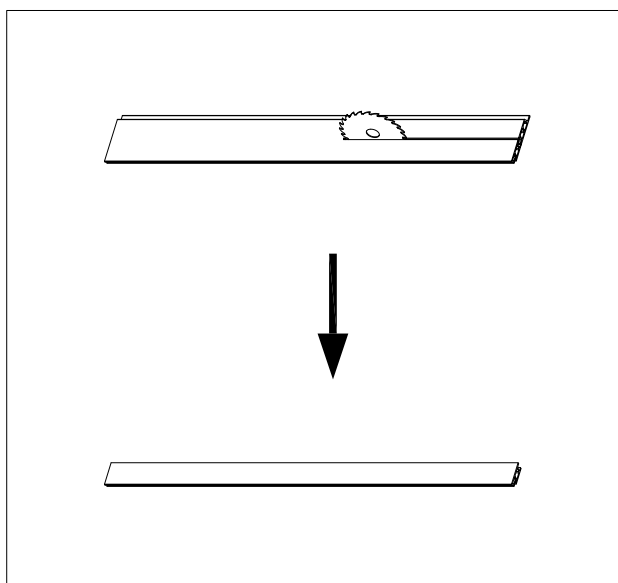
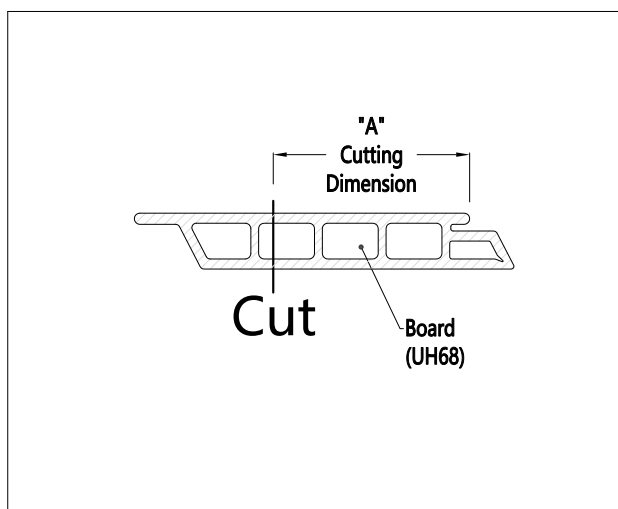


Diagram 38



Detail 38-1

- 39** Put the cutted Siding board(UH68) over the Clip (AW08) in place and then face fix it onto each Furring Strip along the length of the boards against the Rubber Stopper (T-7), as shown in **Diagram 39** and **Detail 39-1**.

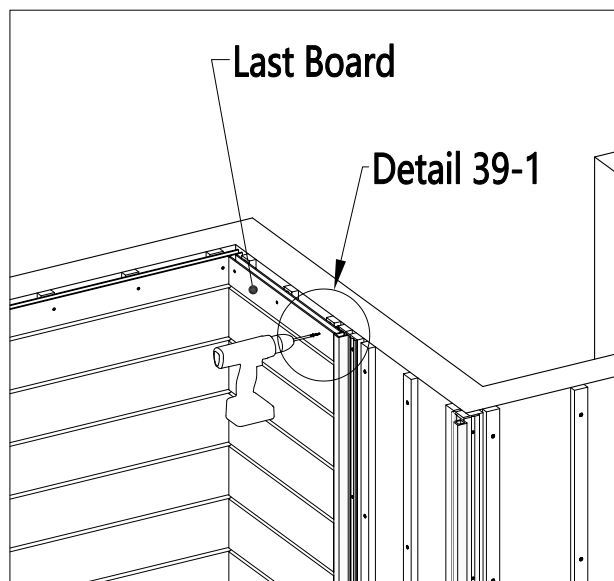
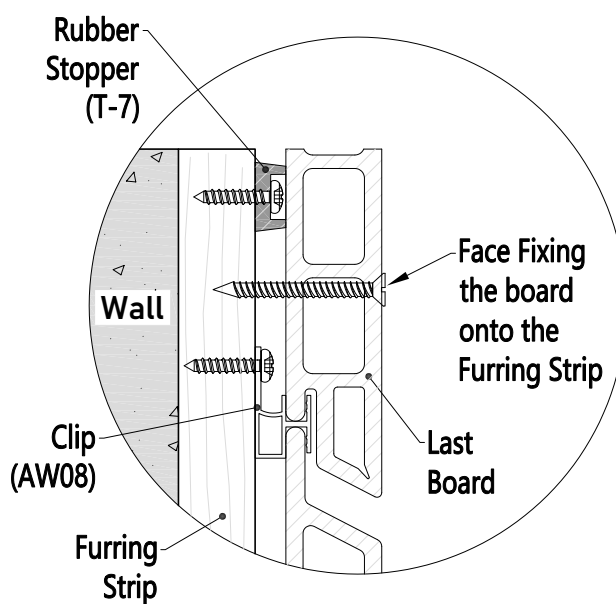


Diagram 39



Detail 39-1

Please Note:

Predrill the cutted Siding board before installation to allow for expansion and contraction. Please review the section, "[Predrill](#)", on [page 5](#) of this installation guide for details.

- 40 Install the other side Boards(UH68) from the Butt Joint, please follow same method as shown in **Diagram 40**.

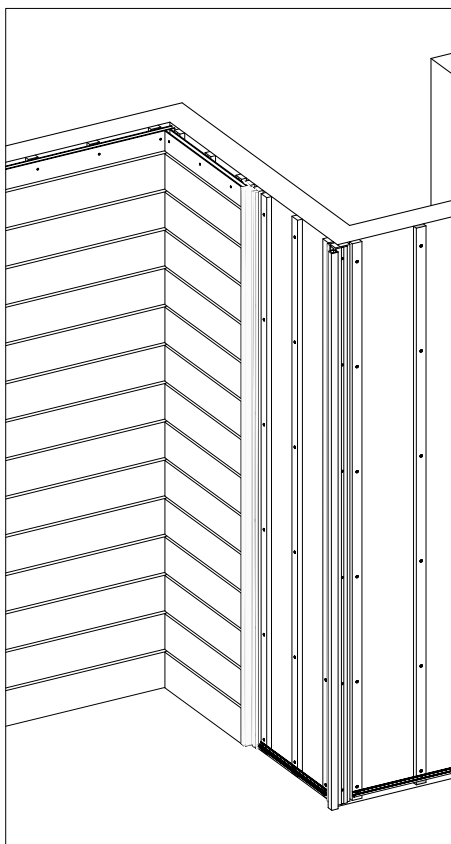


Diagram 40

- 41 **Diagram 41** presents on the Wall Side B completing the installation.

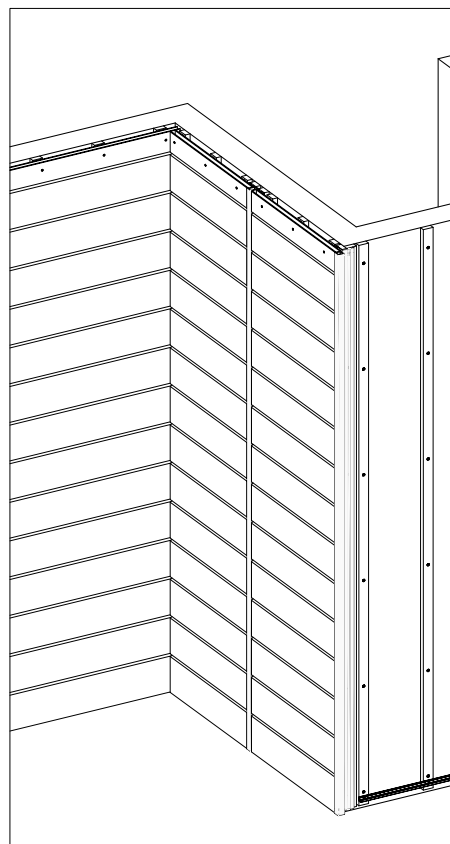


Diagram 41

- 42 **Diagram 42** presents the final appearance after completed the Butt Joint installation.

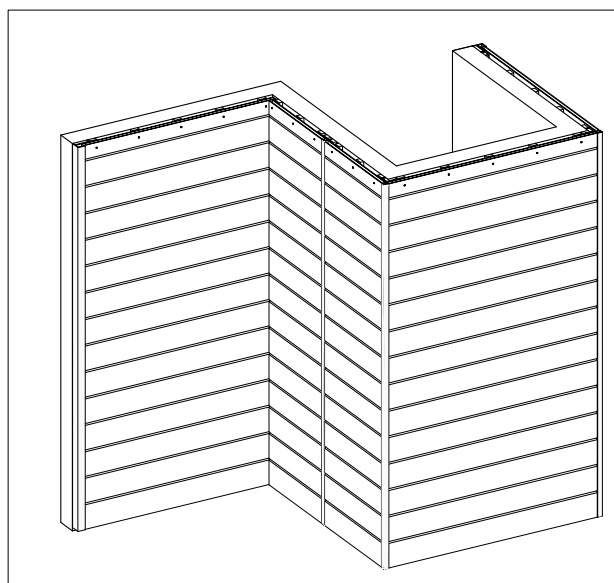


Diagram 42

- 43 **Diagram 43** presents the other side of the final appearance after completed the installation.

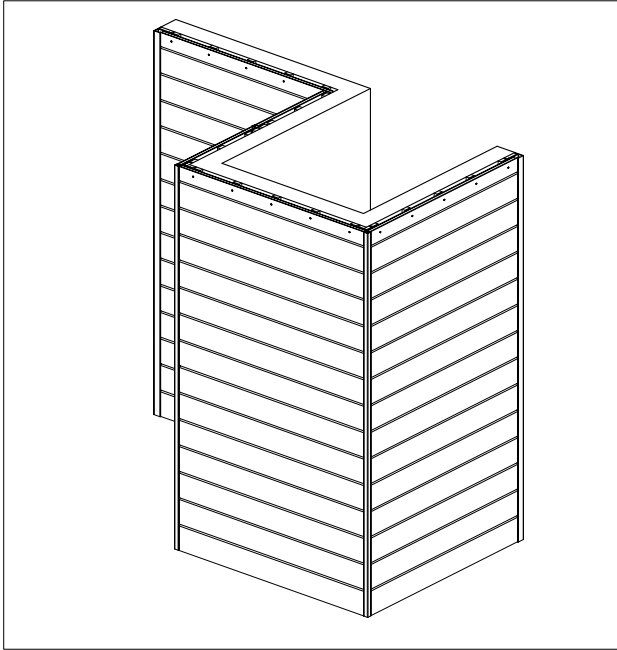


Diagram 43

44 Finish on the top

Finish on the board's top edge, as shown in **Diagram 44**,

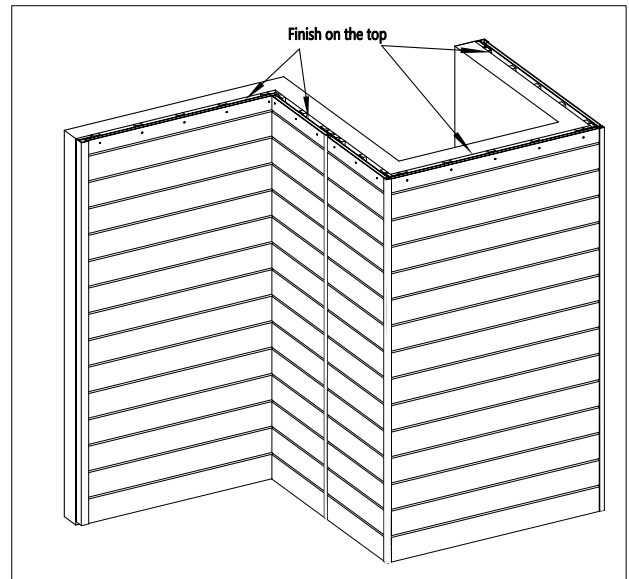


Diagram 44

- 45 Put a Metal Flashing over the siding top, and fix it onto the Furring Strips with screws. Then apply a continuous bead of Sealant Glue on the parting line, as shown in **Diagram 45**,

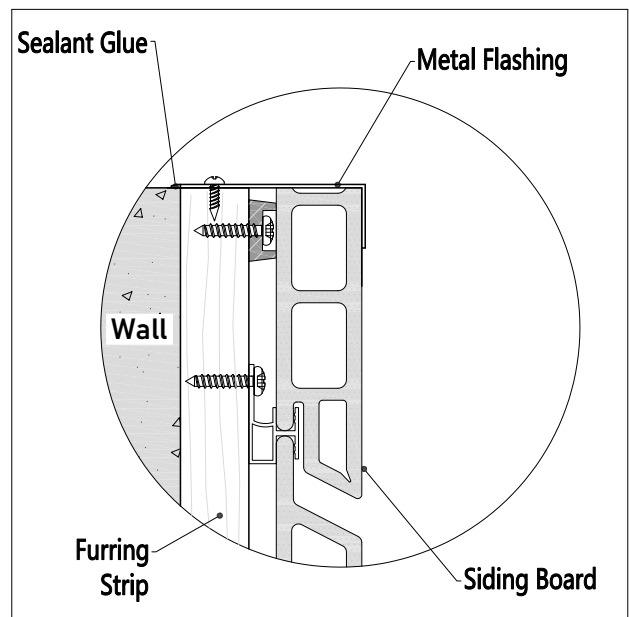


Diagram 45



Shadowline Siding UH68 Horizontal Installation Guide

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