

INSTALLATION GUIDE

NOVANO CLADDING HF-CLIP QUIK-TRIM SYSTEM

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I. INTRODUCTION

Engineered for architectural consistency and lifetime durability, the NOVANO Cladding utilizes a high-performance board profile. Finished by Quik-Trim System, it ensures a seamless, screw-free finish across every application.

NOVANO composite cladding is a **fully integrated system** designed to deliver consistent performance, visual continuity, and reliable installation results across residential and commercial projects. Every component, from the Cladding Board to the Quik-Trims and fastening elements, works together as one coordinated solution.

This approach simplifies specification, reduces installation complexity, and ensures a clean, cohesive finish from deck surface to perimeter details.

SECTION 1 - MATERIAL COMPONENTS

The traditional construction industry has long been limited by the biological vulnerabilities of timber. At NOVANO, we have moved beyond mere imitation to True Engineering. Our technology is centered on a proprietary synthesis of natural innovation and high-performance polymers, creating a wood-free composite that excels where organic fibers fail.

By manipulating the molecular structure of our raw materials, we ensure high-density fiber reinforcement that provides unrivaled dimensional stability and moisture resistance. This is Nature Reinvented, a next-generation material designed to meet the rigorous mechanical demands of global architectural standards while offering a superior total value through long-term structural integrity.



OVERVIEW OF PARTS

SECTION 2 - BASICS

HTC1210BA
Facade Hat Channel
Black Anodized

NV-WCL-100-ALUHFCL
Hidden Facade Clips with Screws
for Aluminum Hat Channels

NOVANO
Cladding Profile

QTJM10
Quik-Trim
J-Mold

QTOC10
Quik-Trim
Outside Corner

QTWJM10
Quik-Trim
Windows J-Mold

QTHM10
Quik-Trim
H-Mold

QTIC10
Quik-Trim
Inside Corner



ISOMETRIC VIEW
Basic Parts of Cladding HF-Clip
Quik-Trim System

SECTION 3 - SCOPE OF DELIVERY

ITEM No.	PRODUCT NAME & SPECIFICATION	ISOMETRIC VIEW	SECTION VIEW
1	NV-WCL-20020-H 1 ³ / ₁₆ " x 7 ⁷ / ₈ " x 12' Cladding 7 Channels		
2	NV-WCL-14020-H 1 ³ / ₁₆ " x 5 1/2" X 12' Cladding 4 Channels		
3	NV-WCL-9015-H 5/8" x 3 1/2" x 12' Cladding 3 Channels		
4	NV-WCL-7020-H 1 ³ / ₁₆ " x 2 3/4" x 12' Cladding 2 Channels		
5	NV-WCL-7015-H 5/8" x 2 3/4" x 12' Cladding 2 Channels, Thin		
6	HTC1210BA 1/2" x 1 1/2" x 10' Facade Hat Channel Black Anodized		
7	MFTH-625 1-37/64" x 1-37/64" Aluminum Starter Z-Clip		

SECTION 3 - SCOPE OF DELIVERY

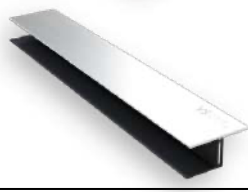
ITEM No.	PRODUCT NAME & SPECIFICATION	ISOMETRIC VIEW	SECTION VIEW
8	QWJM10 1" x 1 ³⁷ / ₆₄ " Quik-Trim Windows J-Mold with Quik-Trim PVC Base		
9	QTOC10 1" x 1" Quik-Trim Outside Corner with Outside Corner Quik-Trim PVC Base		
10	QTIC10 1 ³⁷ / ₆₄ " x 1 ³⁷ / ₆₄ " Quik-Trim Inside Corner with Quik-Trim PVC Base		
11	QTHM10 1 ³⁷ / ₆₄ " Quik-Trim H-Mold with Quik-Trim PVC Base		
12	QTJM10 1" x ²⁵ / ₃₂ " Quik-Trim J-Mold with Quik-Trim PVC Base		
13	SVJS10 Siding Starter J-Strip		
14	NV-WCL-100-HFCL Hidden Facade Clips with Screws for Wood Joists		
15	NV-WCL-100-ALUHFCL Hidden Facade Clips with Screws for Aluminum Hat Channels		
16	NV-WCL-HFLCL Long Hidden Facade Clips with Screws for Aluminum Hat Channels		

Table 1.1 - Scope of Delivery

IMPORTANT: Five Major Bullet Points You Must Follow for a Successful NOVANO Cladding Installation

- Screw Placement
- Room for Expansion and Contraction
- Hard Fastening of each Plank
- Top to Bottom Ventilation
- Span over 16'' between supports, 3 hat channels are required
- Maximum distance of 1" from the center of the HF-clip to the end of the board

Note:

Proper planning of the Wall Cladding layout is essential for ease of installation of Wall Cladding Boards and Wall Cladding components.

Thoroughly read the following wall cladding assembly instructions and obtain all necessary building permits prior to starting your installation.

Decide finishing and trimming options prior to starting the project to ensure the wall cladding finishing detail is uniform for all sides of the building

Installation is the sole responsibility of the installer. **NOVANO Company assumes no responsibility whatsoever with respect to the installation.** The information contained herein is provided for guidance purposes only and should not be relied upon as any absolute representation by NOVANO.



Packed finished material must be kept dry.

When packed, finished NOVANO Products are exposed to moisture, and it can develop mold/mildew on the board surfaces if left packed/bundled.

If packed material is exposed to moisture, open it immediately and spread the material to allow surfaces to dry.

This condition only applies to packed material. Finished NOVANO Products installed in exterior applications will not exhibit this issue.

SAFETY TIPS

1. Always check for power, gas, and water lines before installing.
2. Always wear safety glasses when operating power equipment.

ASSEMBLY TIPS

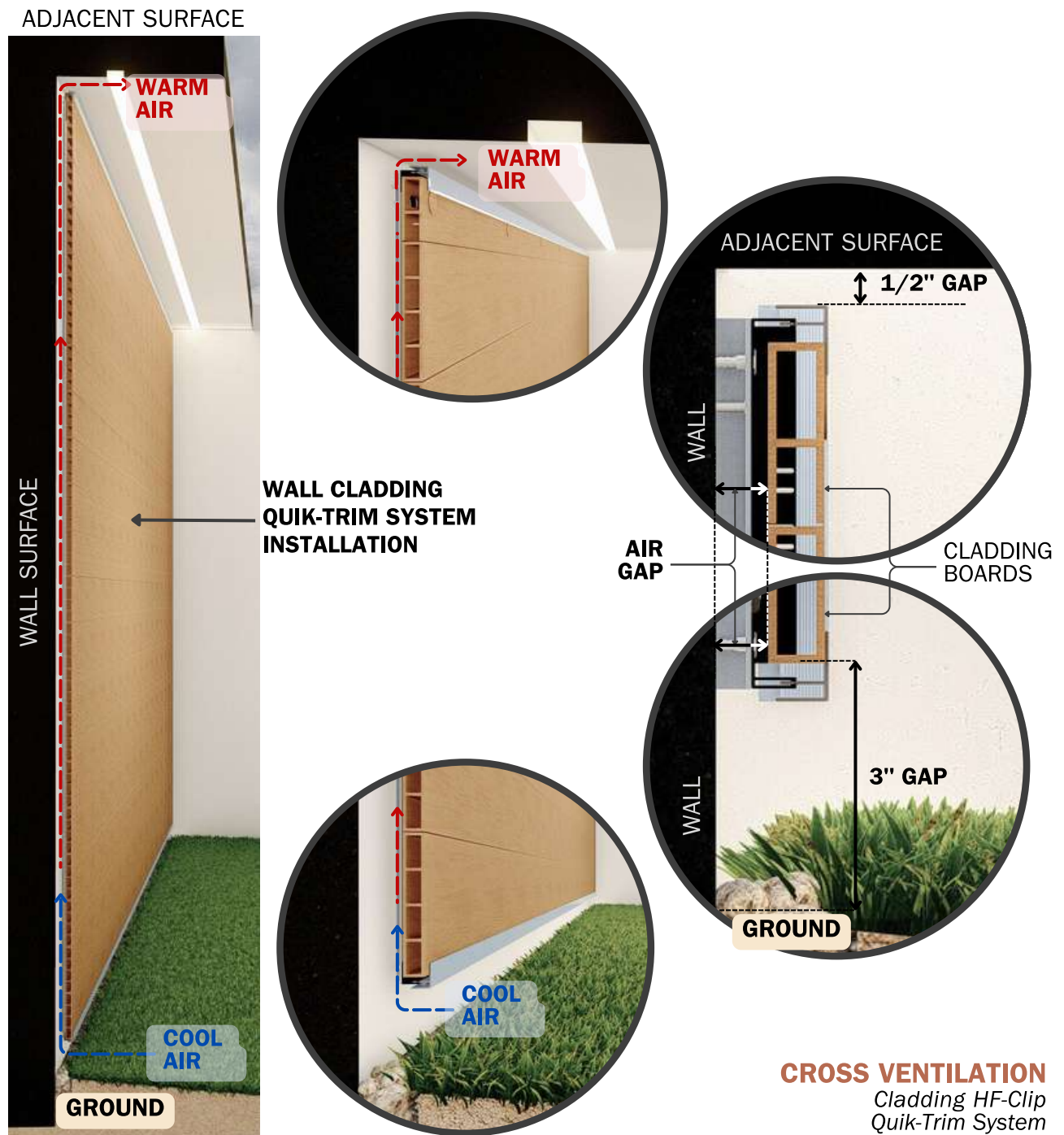
1. Battens should be flat and level with each other. Wall Cladding will follow the contour of the wall.
2. NOVANO Wall Cladding System is not a rainscreen or waterproof system. NOVANO Siding Board is a watershed system.
3. Proper wall preparation according to local building codes and wall covering manufacturer's recommendations should be adhered to. This includes but is not limited to flashing all openings.
4. All holes should be predrilled and installation holes should be slotted.
5. Only use construction fastening material and hardware suitable for outdoor use (e.g. stainless steel screws). Recommended is the use of NV-SIDAC-25-SS shoulder screw.
6. Always consider the linear expansion of NOVANO, which is dependent on the temperature but not the air humidity. See *Table 1.3 "NOVANO Expansion"* for more information.
7. Cut-off pieces and/or abrasive dust must be disposed of separately. Please comply with the regulations of your local waste management provider. You may under no circumstances burn NOVANO.
8. Cutting to length should be carried out at consistent material temperature. Therefore, the material should be stored in the shade or in areas where it is not exposed to direct sunlight. The material can warm up considerably in the sun, leading to an increased change in length. In the case of more distinct fluctuations in material temperature, cutting to length may have to be adapted accordingly.
9. Please store NOVANO Products flat on a level surface.



MANDATORY VENTILATION

Cross ventilation (also called *Wind Effect Ventilation*) is a natural method of cooling. The system relies on wind to force cool exterior air into the building through an inlet (like a wall louver, a gable, or an open window) while outlet forces warm interior air outside (through a roof vent or higher window opening).

In NOVANO Wall Cladding Installation, the 3" Gap at the bottom part of the Cladding System acts as the cool exterior air INLET while the $\frac{1}{2}$ " Gap on top acts as the warm interior air OUTLET. The air gap between wall surface and Cladding Boards resultant from the battens sub frames height allows passage air flow for cross ventilation through the CLADDING QUIK TRIM INSTALLATION SYSTEM.



CODE COMPLIANT BATTEN SPACING

Part Number	Part Description	Joist Span (in)	Minimum Steel Gauge Size
NV-WCL-20020-H	Cladding 7 Channels $1\frac{3}{16}" \times 7\frac{7}{8}"$ (20 x 200 mm)	16"	20
NV-WCL-14020-H	Cladding 4 Channels $1\frac{3}{16}" \times 5\frac{1}{2}"$ (20 x 140 mm)	16"	20
NV-WCL-9015-H	Cladding 3 Channels $\frac{5}{8}" \times 3\frac{1}{2}"$ (15 x 90 mm)	16"	20
NV-WCL-7020-H	Cladding 2 Channels $1\frac{3}{16}" \times 2\frac{3}{4}"$ (20 x 70 mm)	16"	20
NV-WCL-7015-H	Cladding 2 Thin Channels $\frac{5}{8}" \times 2\frac{3}{4}"$ (15 x 70 mm)	16"	20

Table 1.2 Batten Spacing Requirements

Recommendation for Batten Spacing

If the Wall Cladding is being installed in a hot southern location and will be exposed to direct sunlight for the majority of each day and/or the Wall Cladding will be stained a dark color, the batten spacing is suggested be reduced to 8" or 12" center-to-center for all Wall Cladding profiles.

EXPANSION / CONTRACTION OF WALL CLADDING

NOVANO Expansion - Contraction Guide	
Profile Length	12 ft
Expansion / Contraction amount (approximately 0.3% over 90°F variation in temperature)	$\frac{7}{16}"$ (0.432")

Table 1.3 - NOVANO Expansion

**Average expected expansion-contraction
(this can vary based on the geographical region)**

Ensure a steady material temperature when cutting the boards to size, i.e. the cutting has to be done under constant conditions, e.g. inside or in shade

NOVANO Wall Cladding Board Gap Guide

Temperature at Installation	End to End Siding Boards				Wall Gap
	Below 30°F	60°F	90°F	120°F	
Amount for Siding Profile Length of 12 ft	$\frac{7}{16}$ "	$\frac{5}{16}$ "	$\frac{3}{16}$ "	0"	$\frac{1}{4}$ "

Table 1.4 - NOVANO Gap Guide

Always consider the linear expansion of NOVANO profiles during the installation of Wall Cladding products. If temperatures fluctuate during the installation, the gaps placed between the ends of the boards and a corner, window, or door must change with the temperature. Use the guide above to gap boards during installation..

Expansion - Contraction Tips

1. Control Piece

At the start of the day, cut a length of board that is desired to be installed and keep this board in the same area as the cutting and storage of the remaining boards. This board will be a "Control Piece" to reference when cutting other boards to be installed. Throughout the day, the "Control Piece" can be referenced and the saw cuts adjusted accordingly as the boards expand and/or contract. The heat from the sun will cause NOVANO boards to expand, so if the material is stored in the shade, keep the "Control Piece" in the shade as well.

Example:

If 12 ft boards are being installed cut one 12 ft board at the start of the day. Reference these boards throughout the day and adjust the cutting of the other boards to match.

2. Control Gap

At the start of the installation, place the board gap according to *Table 1.4* and mark the first gap made. This gap will be a "Control Gap" to reference when gapping the remaining boards to be installed.

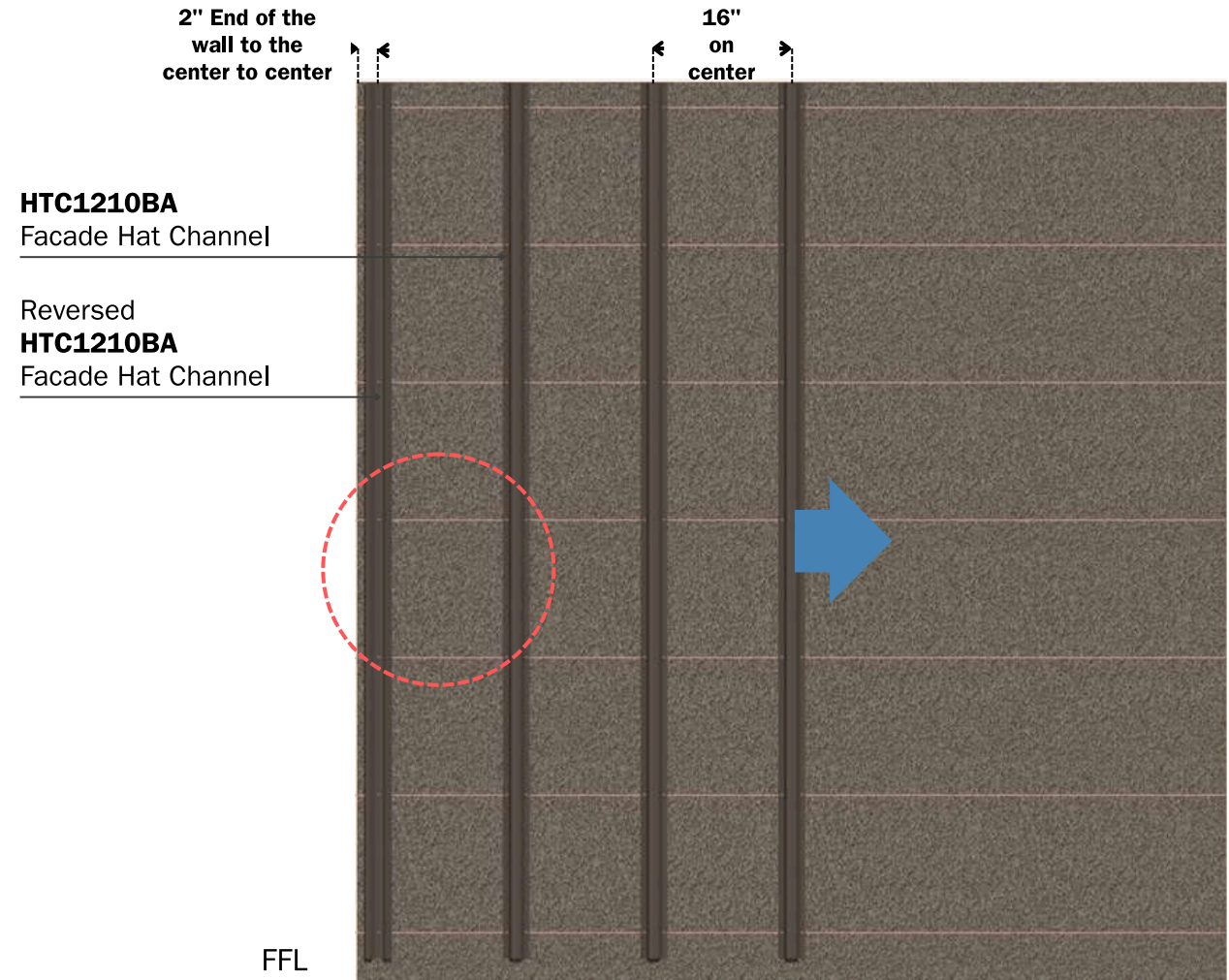
Throughout the installation, refer back to this "Control Gap" to match the other gaps being installed. This will ensure that all the gaps installed are the same.

II. INSTALLATION PROCEDURE

SECTION 1 - SUBSTRUCTURE

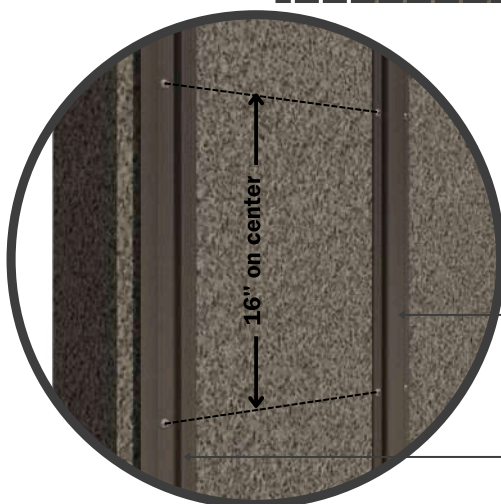
General Notes on Batten Substructure

NOVANO Wall Cladding Boards can be installed in horizontal or vertical applications and the batten substructure should be planned to accommodate how the Wall Cladding Boards will be installed.



FRONT ELEVATION

Substructure
Cladding HF-Clip
Quik-Trim System



DETAIL

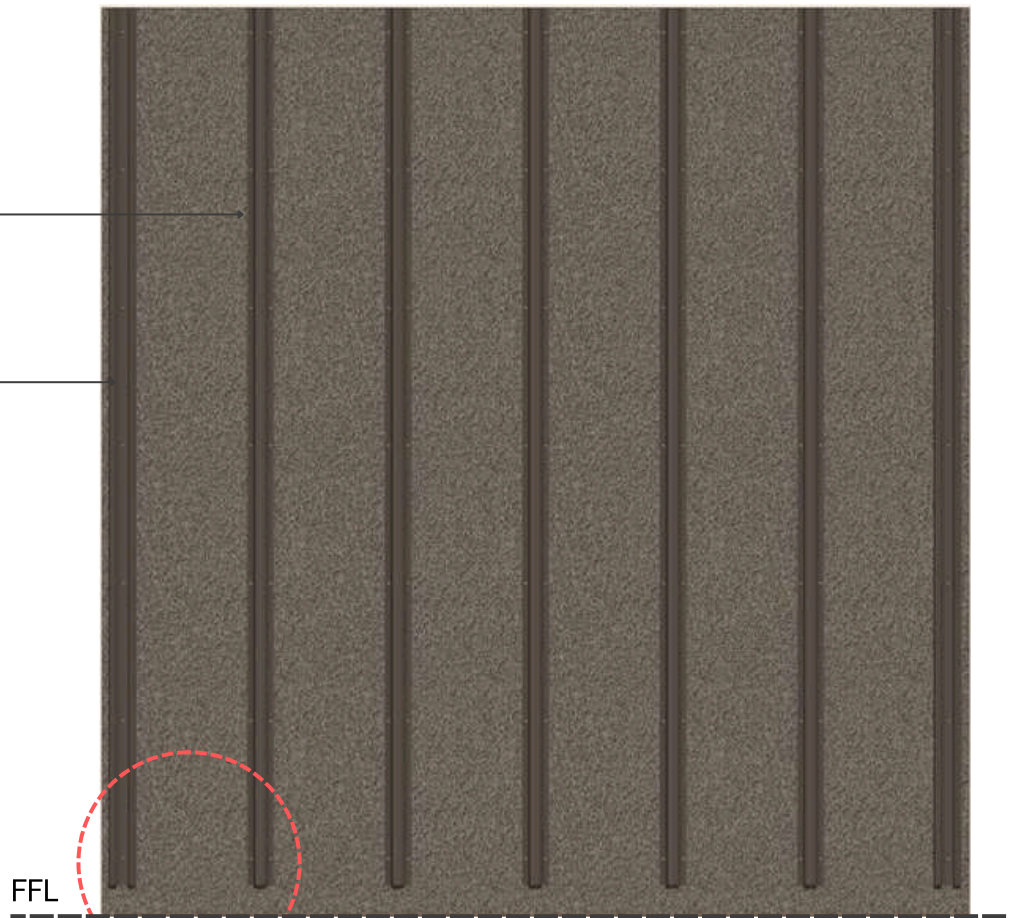
Substructure

HTC1210BA
Facade Hat Channel

Reversed
HTC1210BA
Facade Hat Channel

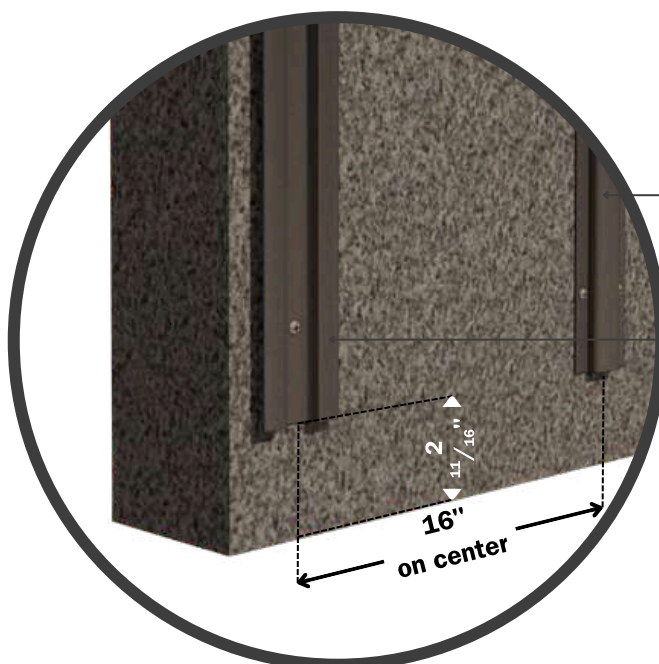
HTC1210BA
Facade Hat Channel

Reversed
HTC1210BA
Facade Hat Channel



FRONT ELEVATION

Substructure
Cladding HF-Clip
Quik-Trim System



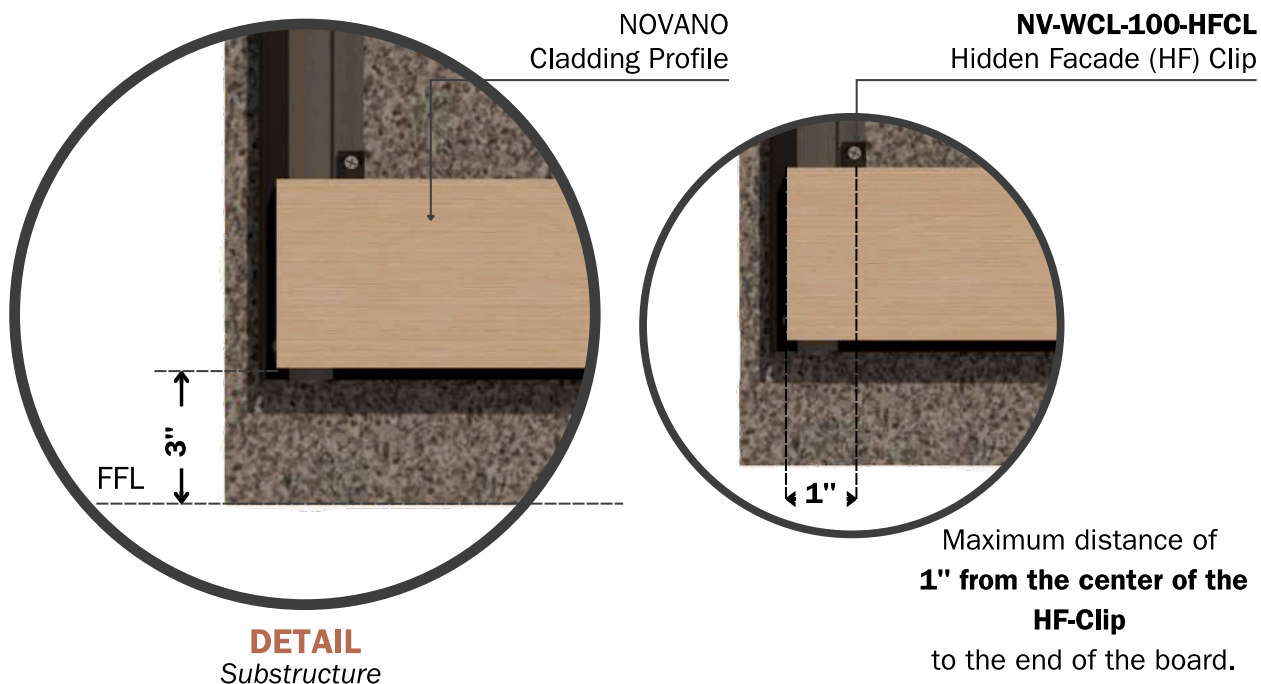
DETAIL

Substructure

HTC1210BA
Facade Hat Channel

Reversed
HTC1210BA
Facade Hat Channel

NOVANO Wall Cladding Boards require a **minimum of 3"** from the ground to the start of the Wall Cladding Board in both horizontal and vertical installations. Plan the batten substructure and wall assembly accordingly to accommodate Wall Cladding installation while adhering with local building code requirements.



Wood Batten Substructure

Install the battens and secure them to the frame substructure in compliance with local building codes. Ensure that the installed battens do not exceed the "Batten Spacing Requirements" of *Table 1.2*. On walls where two wall cladding boards will be used end-to-end, a minimum of two battens must be used to accommodate the fastening of the wall cladding boards and any trim pieces desired to the batten substructure where the boards meet. Before installing the NOVANO Wall Cladding Boards, ensure that the batten installation provides a minimum $\frac{1}{2}$ " air gap behind the Wall Cladding Boards and there is sufficient support for all Wall Cladding Boards and trim accessories. This is often achieved through the installation of battens with a minimum thickness of $\frac{1}{2}$ ".

Battens should be installed on top of a code-compliant sheathing with fasteners and fastener spacing sufficient to accommodate all loads imposed upon it by the NOVANO Wall Cladding Board, trim components, and any other accessories attached to the battens. NOVANO Wall Cladding Boards must be attached to wood battens with Clips and #8 x 1-1/4" stainless steel fasteners taking care to not penetrate the weather barrier. If the weather barrier is going to be penetrated reference the weather barrier manufacturer's recommendations.

Metal Batten Substructure

Install the battens and secure them to the frame substructure in compliance with local building codes. Ensure that the installed battens do not exceed the “Batten Spacing Requirements” of *Table 1.2*. On walls where two Wall Cladding Boards will be used end-to-end, a minimum of two battens must be used to accommodate the fastening of the Wall Cladding Boards and any trim pieces desired to the batten substructure where the boards meet. Before installing the NOVANO Wall Cladding Boards, ensure that the batten installation provides a minimum $\frac{1}{2}$ ” air gap behind the Wall Cladding Boards and there is sufficient support for all Wall Cladding Boards and trim accessories. This is often achieved through the installation of battens with a minimum thickness of $\frac{1}{2}$ ”.

Battens should be installed on top of a code-compliant sheathing with fasteners and fastener spacing sufficient to accommodate all loads imposed upon it by the NOVANO Wall Cladding Board, trim components, and any other accessories attached to the battens. NOVANO Wall Cladding Boards must be attached to metal battens with Clips and #8 x $\frac{1}{2}$ ” stainless steel fasteners taking care to not penetrate the weather barrier. If the weather barrier is going to be penetrated reference the weather barrier manufacturer’s recommendations.

NOTE

It is highly recommended to use the Facade Hat Channel (Black) (**HTC1210BA**) for the installation of the NOVANO Wall Cladding.



SECTION 2 - TRIM AND ACCESSORY OPTIONS

Aluminum Wall Cladding Trim systems made for NOVANO Wall Cladding Boards are recommended for covering the ends and gaps of Wall Cladding Boards.

Suggested supply includes, but is not limited to:

Quik-Trim Outside Corner Trim

(for Inside Corner of Board Installation),



Quik-Trim Inside Corner Trim

(for Inside Corner of Board Installation),



Siding Starter J-Strip

(to start Cladding Boards),



Quik-Trim H-Channel Trim

(to cover wall gaps),



Quik-Trim J-Channel Trim & Window J-Channel Trim *(used for Cladding Boards termination).*



Aluminum Quik-Trim Siding Trims are standard aluminum alloy 6063 T5 and have a .050" nominal wall thickness.

Aluminum Wall Cladding Trims come in 10' lengths and shall have a standard Mill Finish for field priming and painting unless otherwise specified.

GENERAL INSTALLATION GUIDELINES

for NOVANO Aluminum Wall Cladding Trim

Aluminum Wall Cladding Trim must be cut with a 150-tooth carbide-tip blade for nonferrous metal. Blade Lubricant must be applied to the blade before each cut and the lubricant should be cleaned from the trim before installation. None of the Wall Cladding Trim should be installed horizontally unless weep holes are drilled at 8" intervals to allow for moisture to escape from behind the face flange.

METAL BATTEN INSTALLATION GUIDELINES

for NOVANO Aluminum Wall Cladding Trim

When using metal battens, either steel or aluminum, it is recommended to use a #8 x 5/8" self-tapping fastener which can be driven through the aluminum wall cladding trim and into the metal batten. Trim should be fastened 16" on center for either horizontal or vertical installations. If the batten substructure spacing is reduced for the wall cladding boards the trim should be fastened at the same interval as the wall cladding. Be aware of fastener placement for the wall cladding trim so as to not hinder the installation of the NOVANO Wall Cladding Boards.

SECTION 2 - TRIM AND ACCESSORY OPTIONS

WOOD BATTEN INSTALLATION GUIDELINES

for NOVANO Aluminum Wall Cladding Trim

Aluminum Wall Cladding Trim must be pre-punched or drilled to receive the #8 x 5/8" wood screw for attaching them to wood furring strips. Trim should be fastened 16" on center for either horizontal or vertical installations. If the batten substructure spacing is reduced for the Wall Cladding Boards the trim should be fastened at the same interval as the Wall Cladding. Be aware of fastener placement for the Wall Cladding Trims to not hinder the installation of the NOVANO Wall Cladding Boards.

Depending on the type of wood battens used there is the possibility for the aluminum trim to go through the aluminum electrolysis effect. If this occurs, the aluminum trim could start to deteriorate. This is an extremely rare event that requires the correct conditions. However, if this is a concern it is recommended that a piece of felt be installed between the wood battens and the aluminum trim.

SECTION 3 - HORIZONTAL WALL CLADDING APPLICATION

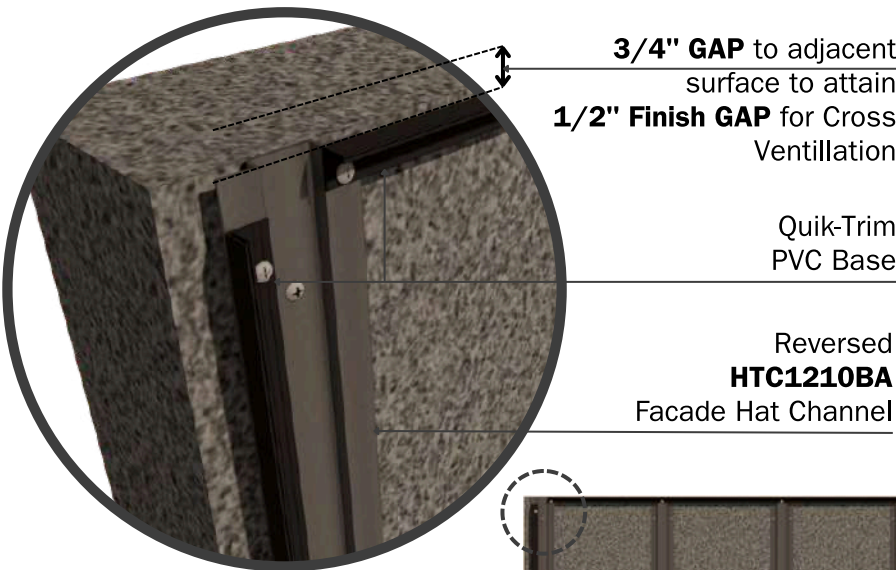
NOTE

This installation is for the **4 Channels Hollow Wall Cladding Profile**, but the same rules apply to all the NOVANO Wall Cladding Boards

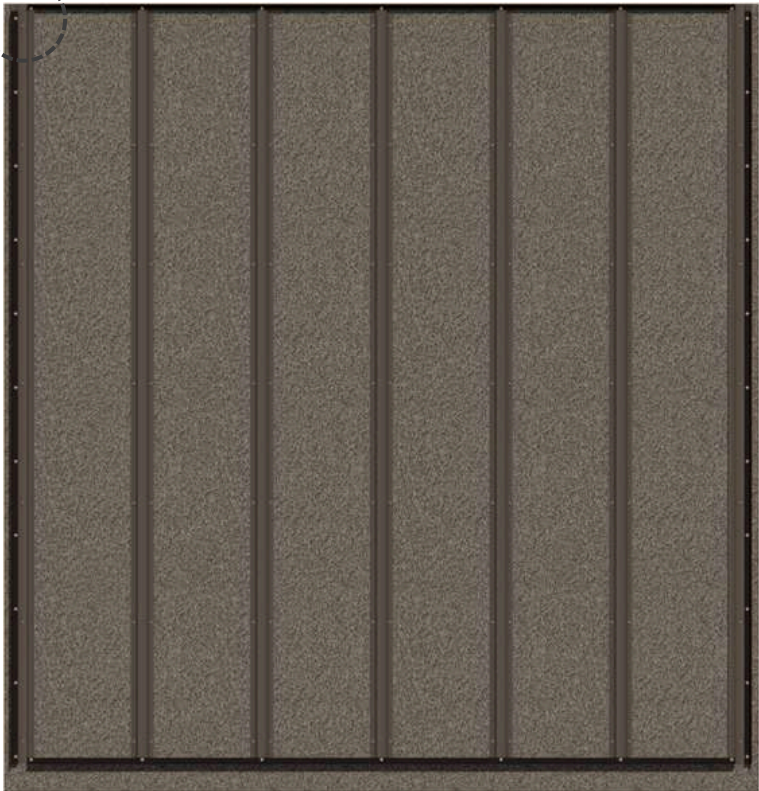
STEP 3.1

Pre-apply the Quik-Trim PVC Bases for all finishing trim accessories such as trim around corners, windows, and doors according to the pre-plan layout and following the manufacturer’s recommendations. Ensure that all Trims are leveled and squared. Battens should be installed vertically.

The Quik-Trim PVC Bases should be installed at every end of the Reversed Hat Channel, top and bottom of all the hat channels, by screwing on the PVC Bases on its groove.



ISOMETRIC DETAIL
Horizontal Wall Cladding HF-Clip
Quik-Trim System



FRONT ELEVATION
Substructure
Horizontal Wall Cladding HF-Clip
Quik-Trim System

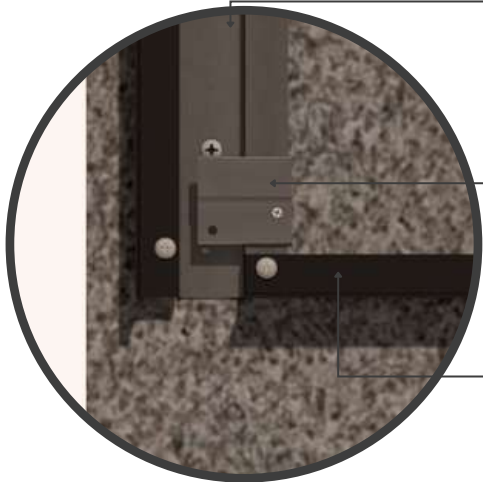
SECTION 3 - HORIZONTAL WALL CLADDING APPLICATION

STEP 3.2

Install Z-Clip system MFTH-625 on all the Reversed Façade Hat Channels with one (1) Sheet Metal Screw on **Detail 1**; and on all Façade Hat Channels with two (2) Sheet Metal Screws on **Detail 2**.
Ensure MFTH-625 are levelled.



ISOMETRIC VIEW
DETAIL 1
Horizontal Wall Cladding HF-Clip
Quik-Trim System

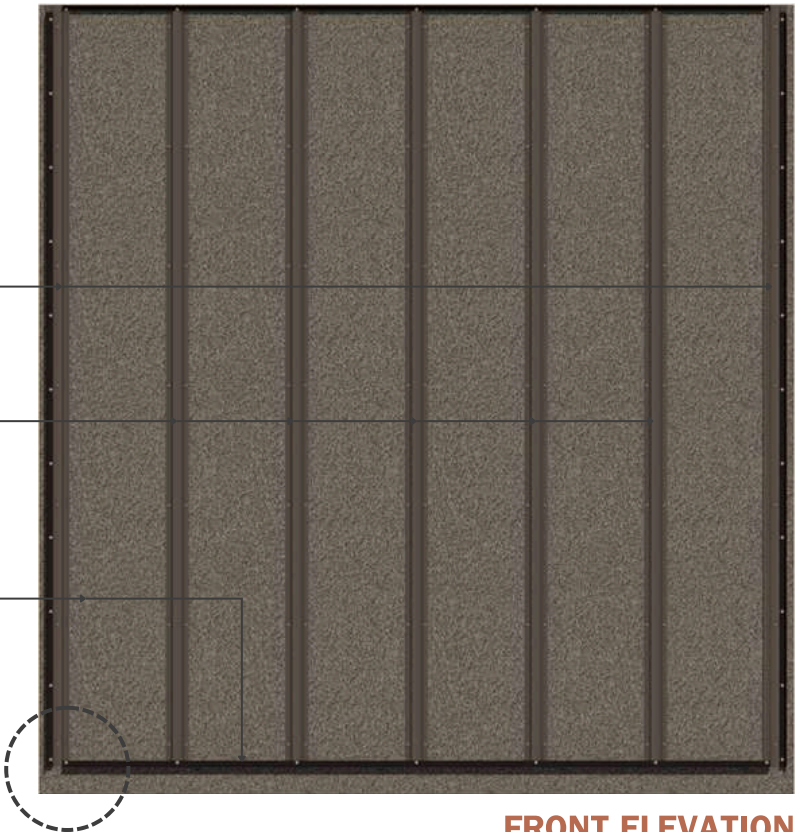


FRONT ELEVATION
DETAIL 1
Horizontal Wall Cladding HF-Clip
Quik-Trim System

Reversed
HTC1210BA
Façade Hat Channel

HTC1210BA
Façade Hat Channel

Quik-Trim
PVC Base



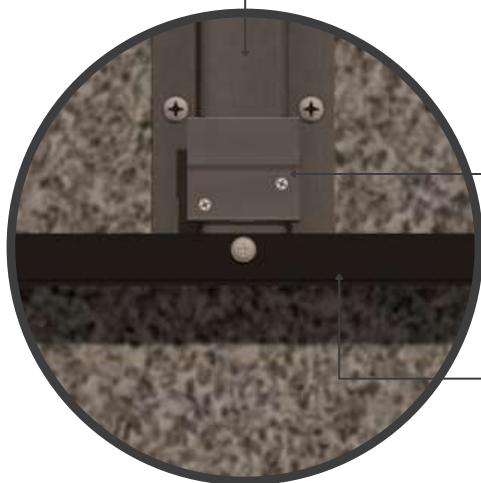
FRONT ELEVATION
Horizontal Wall Cladding HF-Clip
Quik-Trim System

SECTION 3 - HORIZONTAL WALL CLADDING APPLICATION

STEP 3.2



ISOMETRIC VIEW
DETAIL 2
*Horizontal Wall Cladding HF-Clip
Quik-Trim System*



FRONT ELEVATION
DETAIL 2
*Horizontal Wall Cladding HF-Clip
Quik-Trim System*

HTC1210BA
Façade Hat Channel

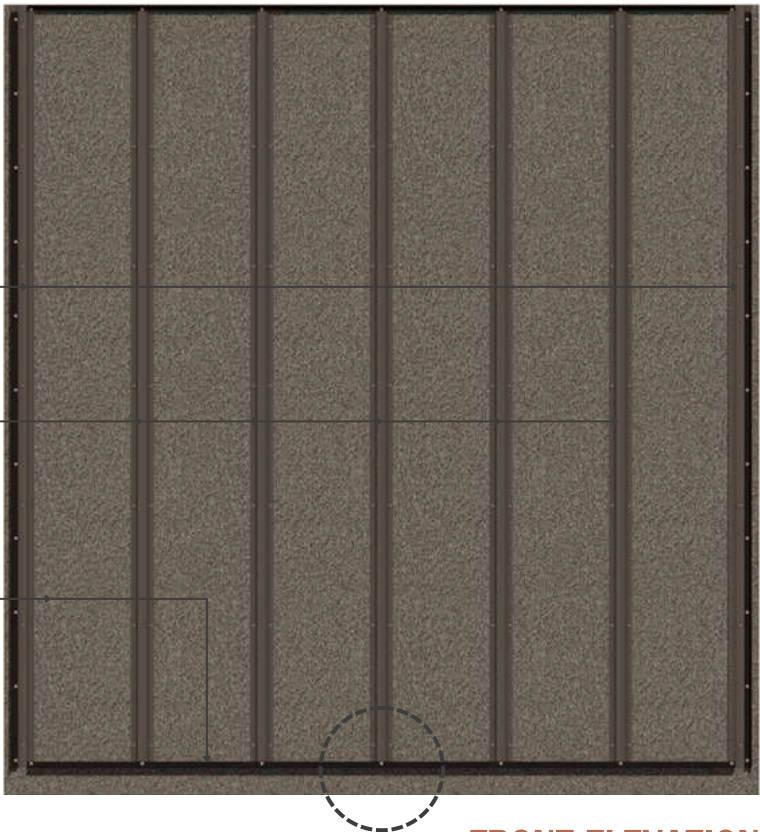
MFTH-625
Aluminum Starter
Z-Clip
with (2) Screws

Quik-Trim
PVC Base

Reversed
HTC1210BA
Façade Hat Channel

HTC1210BA
Façade Hat Channel

Quik-Trim
PVC Base

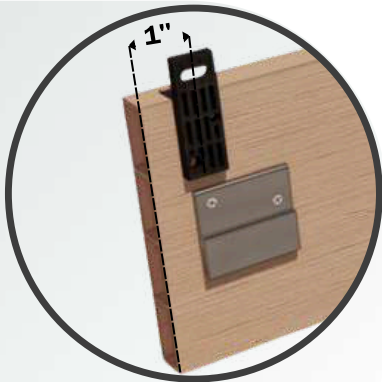


FRONT ELEVATION
*Horizontal Wall Cladding HF-Clip
Quik-Trim System*

SECTION 3 - HORIZONTAL WALL CLADDING APPLICATION

STEP 3.3

For the Starter Board, install Wall Cladding Boards with pre-installed MFTH-625; and HF Clips on the backside, by screwing it on the Facade Hat Channels thru the top HF Clip using one (1) #8 x 1/2" Tekscrew aligned to the Facade Hat Channel markings. Provide 3/8" space between the boards and PVC Base.

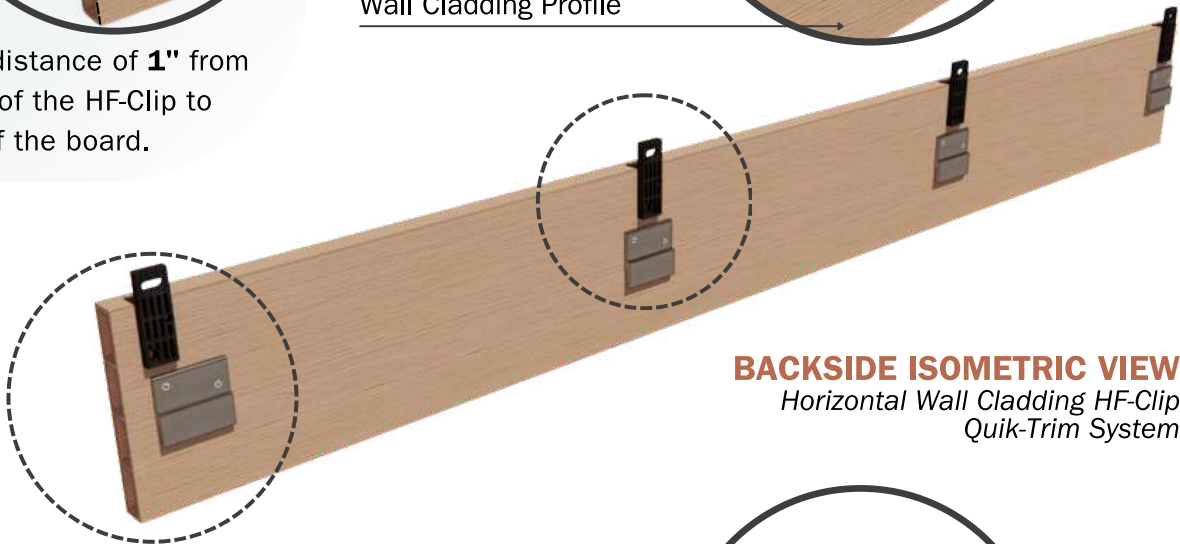
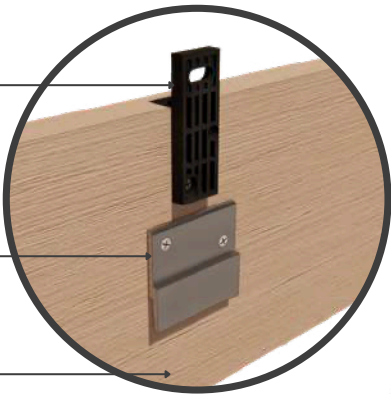


Maximum distance of **1"** from the center of the HF-Clip to the ends of the board.

NV-WCL-100-ALUHFCL
HF Clip with Screw

MFTH-625
Aluminum Starter
Z-Clip
with (2) Screws

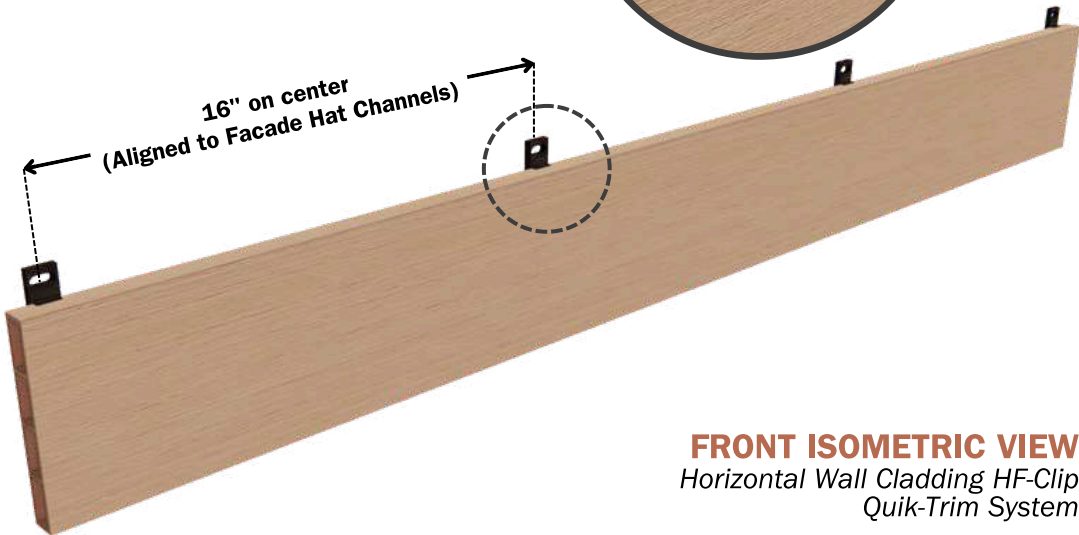
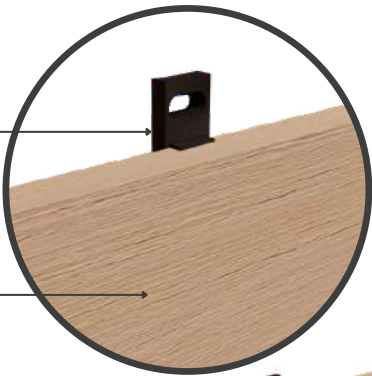
NOVANO
Wall Cladding Profile



BACKSIDE ISOMETRIC VIEW
*Horizontal Wall Cladding HF-Clip
Quik-Trim System*

NV-WCL-100-ALUHFCL
HF Clip with Screw

NOVANO
Wall Cladding Profile

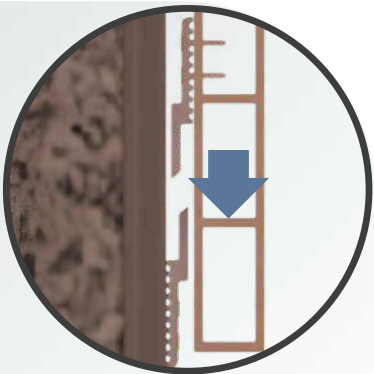


FRONT ISOMETRIC VIEW
*Horizontal Wall Cladding HF-Clip
Quik-Trim System*

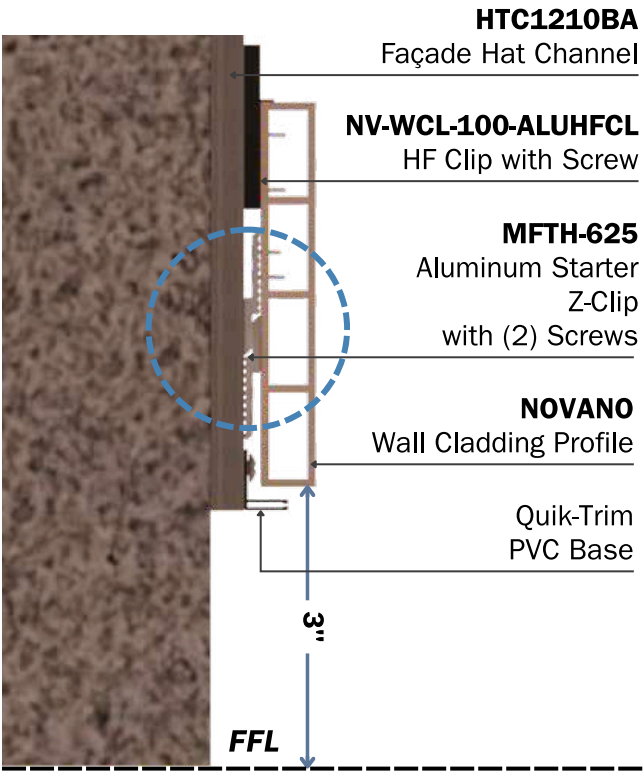
SECTION 3 - HORIZONTAL WALL CLADDING APPLICATION

STEP 3.4

Slide down the first Cladding Board until they interlock and screw each of the HF Clips on the Façade Hat Channels.



To connect the screwed
MFTH Z-Clips,
Slide Down until they interlock.



SECTION
Horizontal Wall Cladding HF-Clip
Quik-Trim System

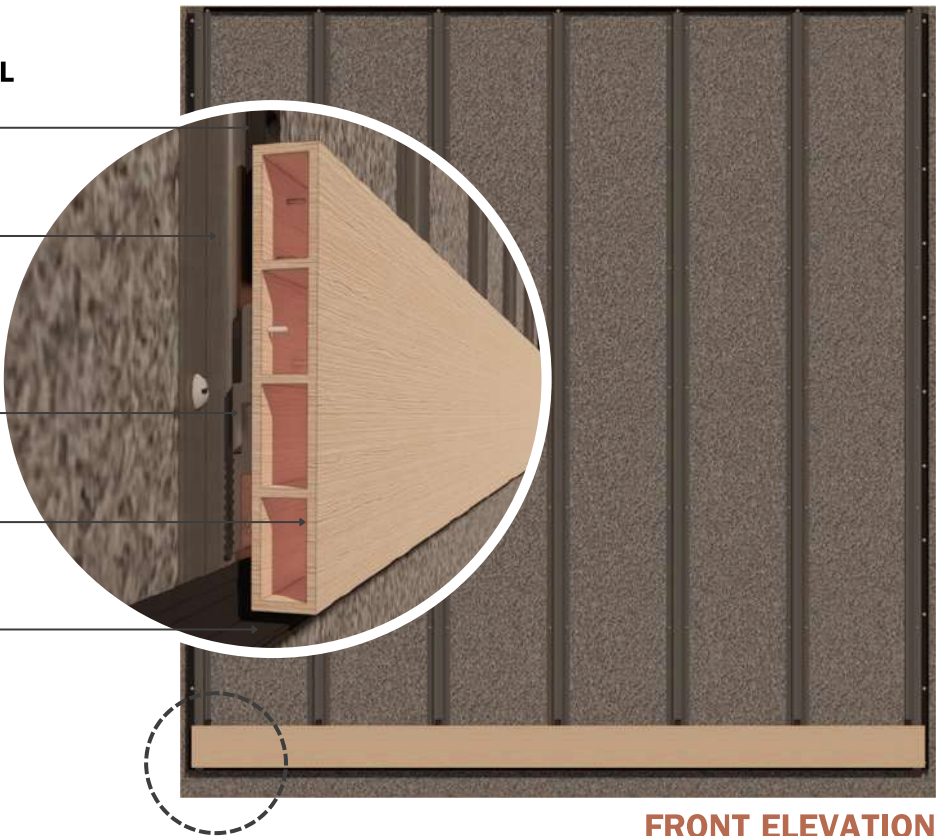
NV-WCL-100-ALUHFCL
HF Clip with Screw

HTC1210BA
Façade Hat Channel

MFTH-625
Aluminum Starter
Z-Clip
with (2) Screws

NOVANO
Wall Cladding Profile

Quik-Trim
PVC Base



FRONT ELEVATION
Horizontal Wall Cladding HF-Clip
Quik-Trim System

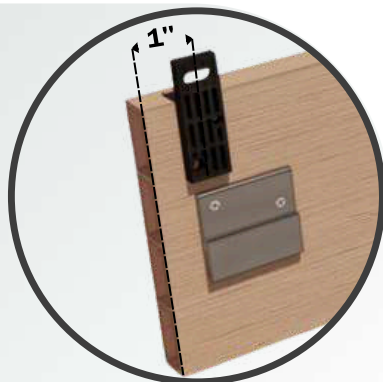
SECTION 3 - HORIZONTAL WALL CLADDING APPLICATION

STEP 3.5

On the 2nd board pre-install the HF Clips on top and bottom.

On the topmost, install HF Clips with 2 - #8 x ½" SMS screws aligned to the Facade Hat Channel markings.

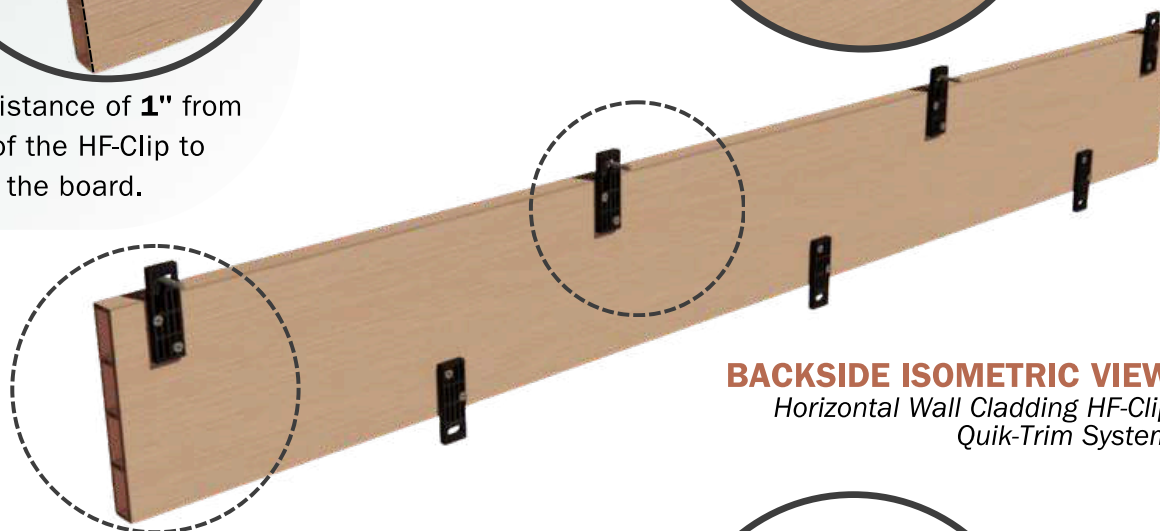
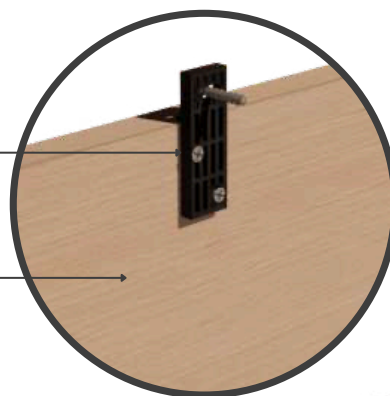
On the bottom, install HF Clips with 2 - #8 x ½" SMS screws anywhere in between of the Facade Hat Channel.



Maximum distance of **1"** from the center of the HF-Clip to the ends of the board.

NV-WCL-100-ALUHFCL
HF Clip with Screw

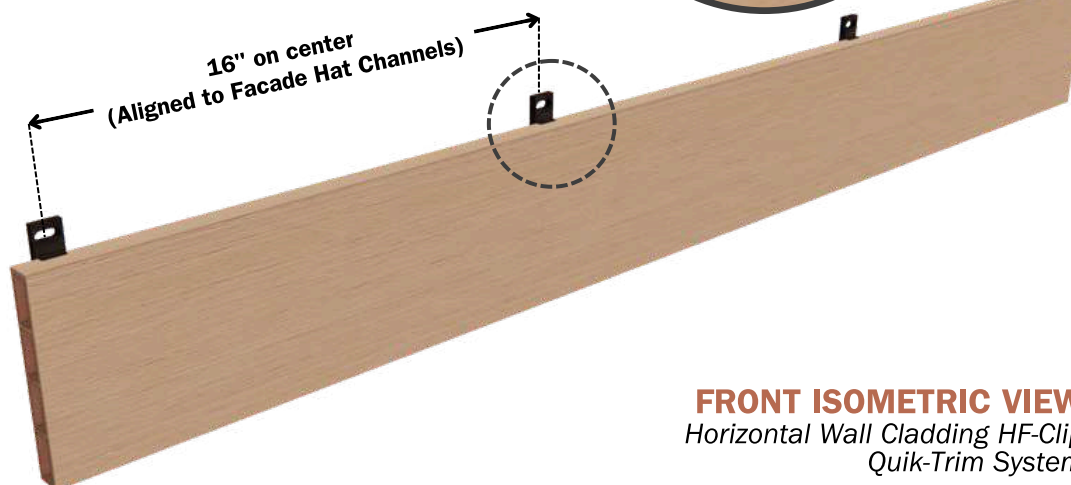
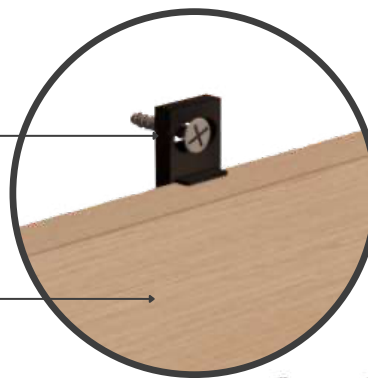
NOVANO
Wall Cladding Profile



BACKSIDE ISOMETRIC VIEW
*Horizontal Wall Cladding HF-Clip
Quik-Trim System*

NV-WCL-100-ALUHFCL
HF Clip with Screw

NOVANO
Wall Cladding Profile



FRONT ISOMETRIC VIEW
*Horizontal Wall Cladding HF-Clip
Quik-Trim System*

SECTION 3 - HORIZONTAL WALL CLADDING APPLICATION

STEP 3.6

Slide in place, HF Clip fin on the Bottom Part of the Second Layer Cladding Board until it shall rest on the Top of the First Layer Cladding Board.

Fix the Cladding Board by screwing through the exposed HF Clips on the Top Side to the Facade Hat Channels using 1 #8 x ½" SMS screws.



Screw the
Top HF Clip
on the
Facade Hat
Channel

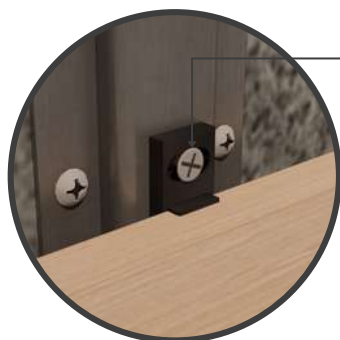
MFTH-625
Aluminum Starter
Z-Clip with Screws

DETAIL A



No Screw

DETAIL B

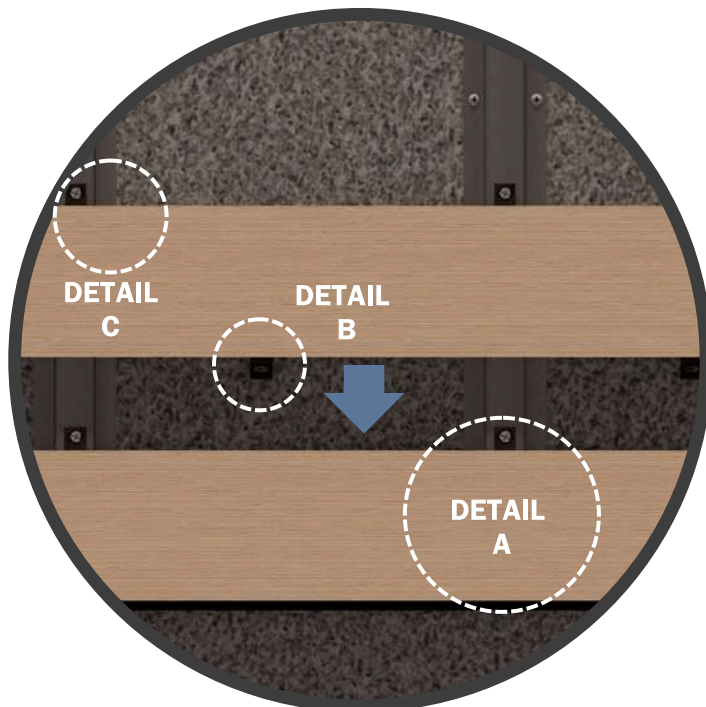


Screw the
Top HF Clip
on the
Facade Hat
Channel

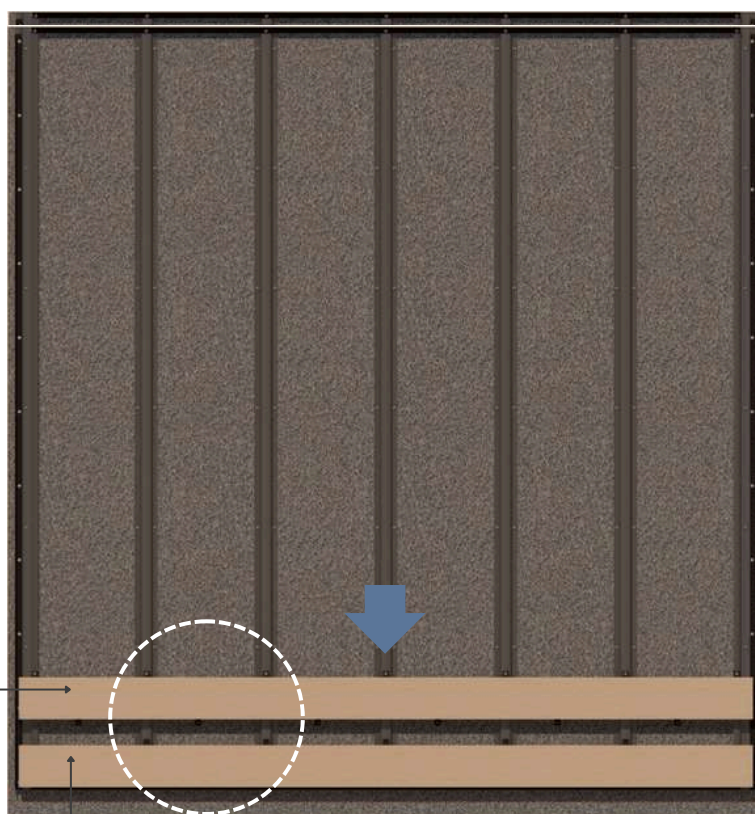
DETAIL C

Second Layer
NOVANO
Wall Cladding Profile

First Layer
NOVANO
Wall Cladding Profile



DETAIL ELEVATION



FRONT ELEVATION

*Horizontal Wall Cladding HF-Clip
Quik-Trim System*

SECTION 3 - HORIZONTAL WALL CLADDING APPLICATION

STEP 3.7

Repeat **STEP 3.4** and **STEP 3.5**

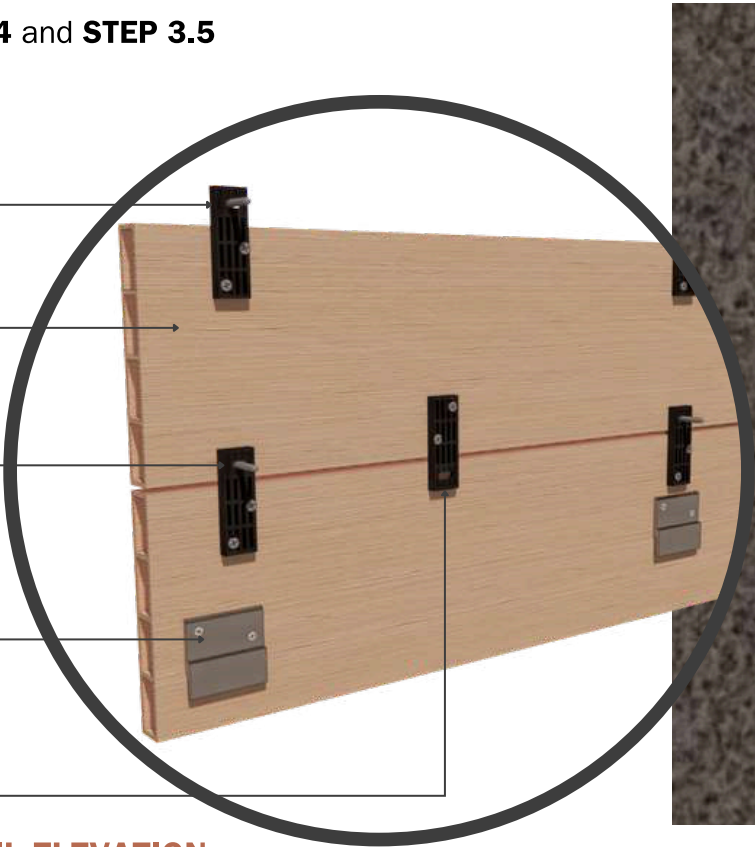
Screw on
Top of HF-Clip

NOVANO
Cladding Profile

Screw on
Top of HF-Clip

MFTH-625
Aluminum Starter
Z-Clip with Screws

No screw on
the bottom
HF clip

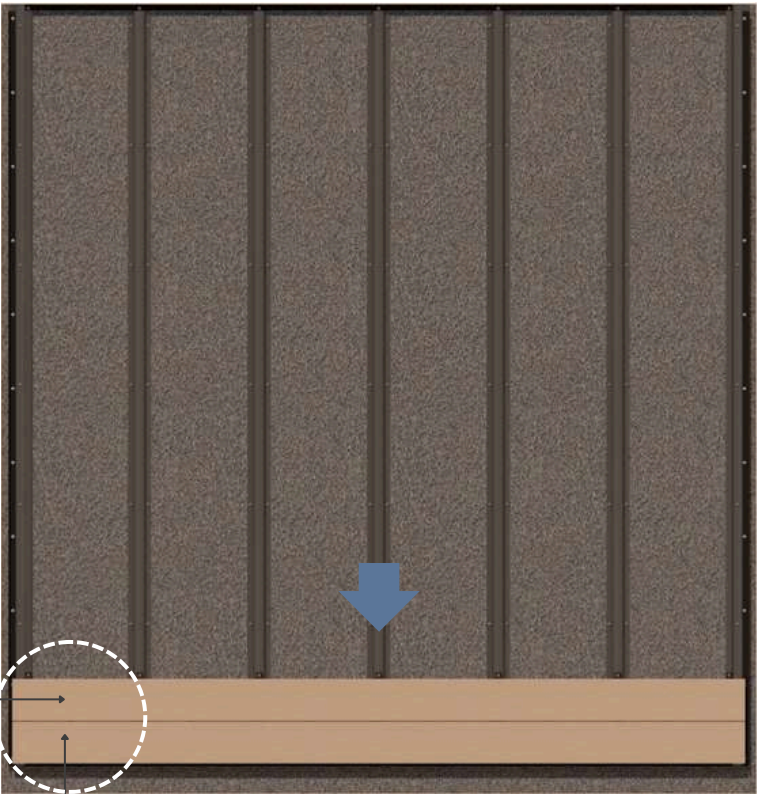


DETAIL ELEVATION
*Horizontal Wall Cladding HF-Clip
Quik-Trim System*

SECTION
*Horizontal Wall Cladding HF-Clip
Quik-Trim System*

Second Layer
NOVANO
Wall Cladding Profile

First Layer
NOVANO
Wall Cladding Profile



FRONT ELEVATION
*Horizontal Wall Cladding HF-Clip
Quik-Trim System*

SECTION 3 - HORIZONTAL WALL CLADDING APPLICATION

STEP 3.8

Continue installing Wall Cladding Boards as outlined in SECTION 3.

HTC1210BA

Façade Hat Channel

NOVANO

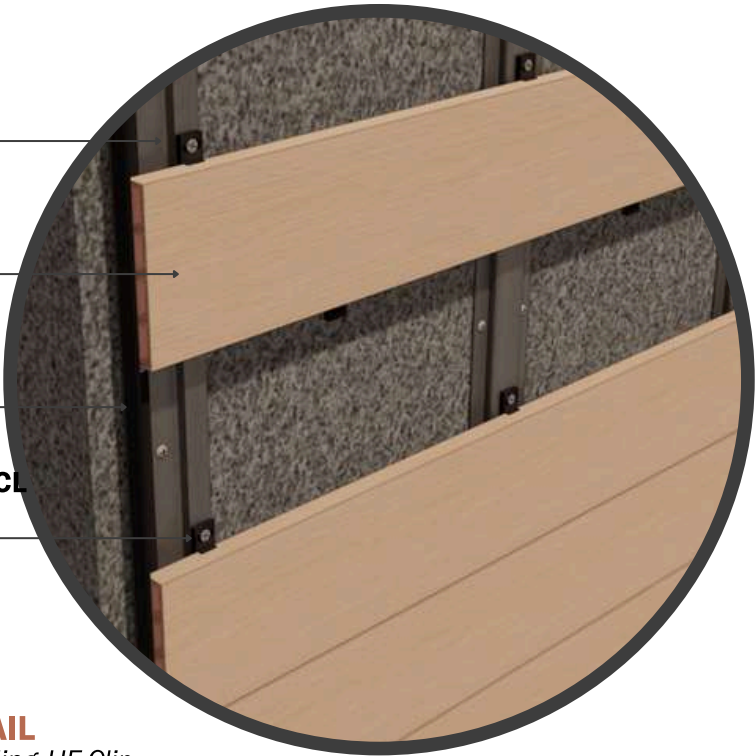
Cladding Profile

Quik-Trim

PVC Base

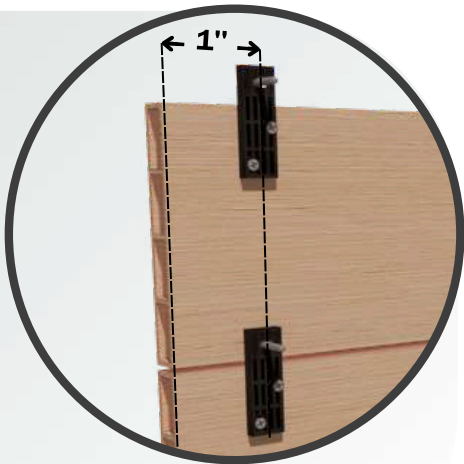
NV-WCL-100-ALUHFCL

HF Clip with Screw

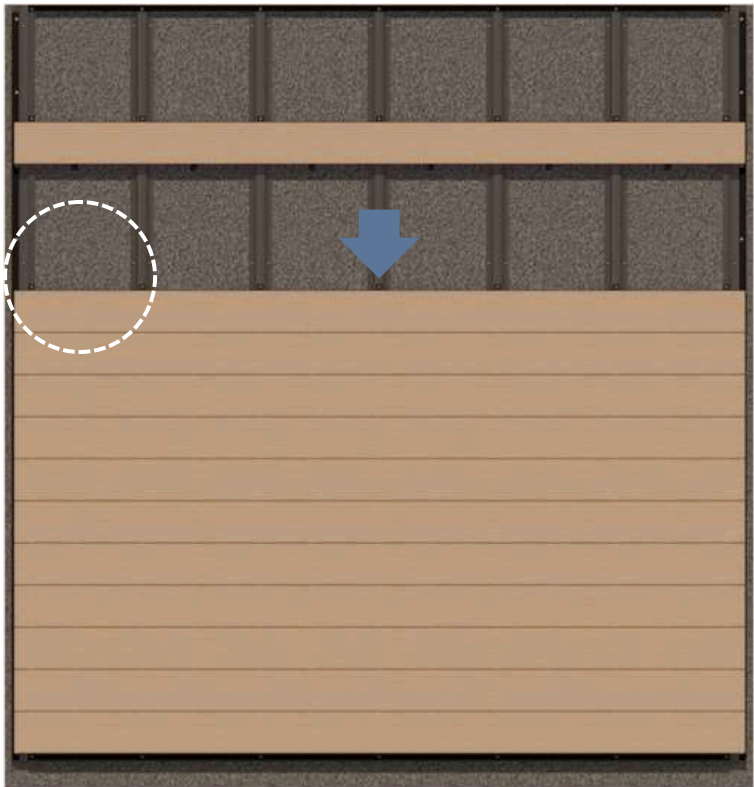


ISOMETRIC DETAIL

Horizontal Wall Cladding HF-Clip
Quik-Trim System



Maximum distance of **1"** from
the center of the HF-Clip to
the ends of the board.



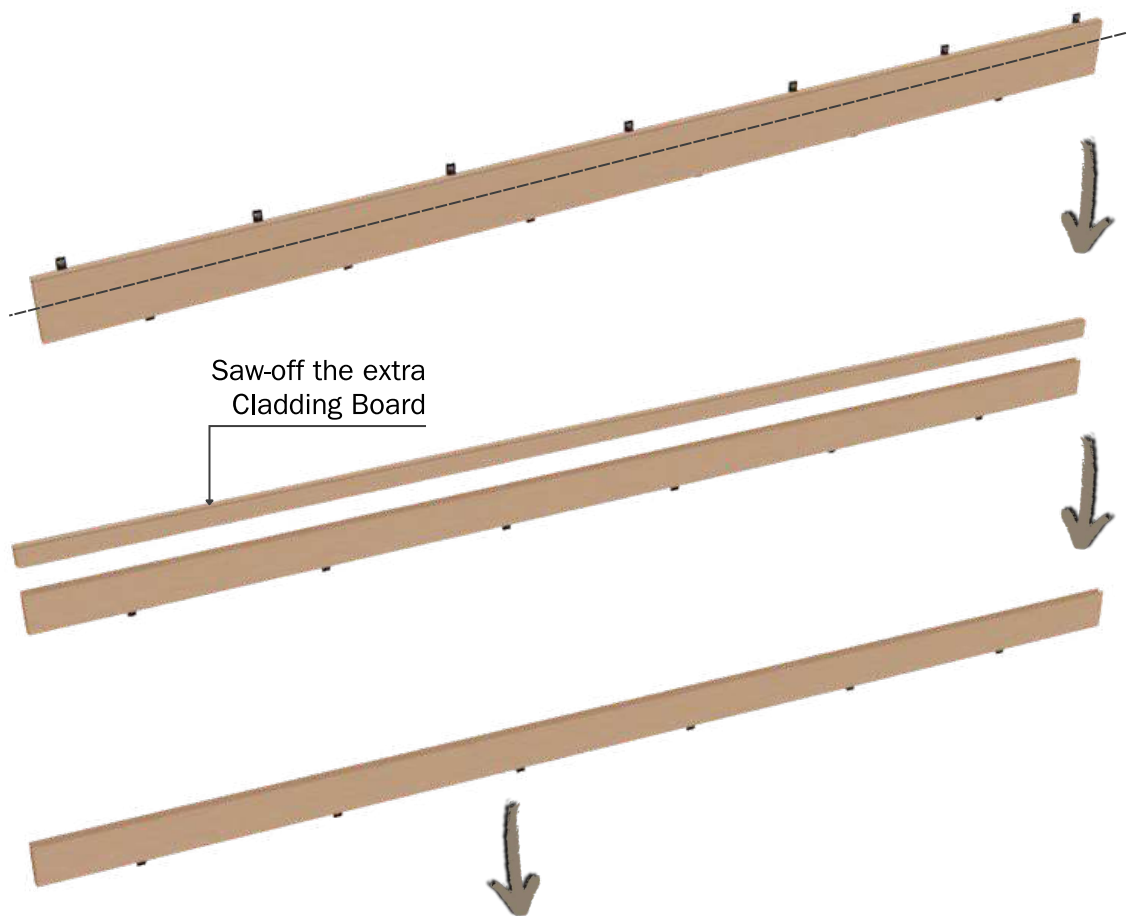
FRONT ELEVATION

Horizontal Wall Cladding HF-Clip
Quik-Trim System

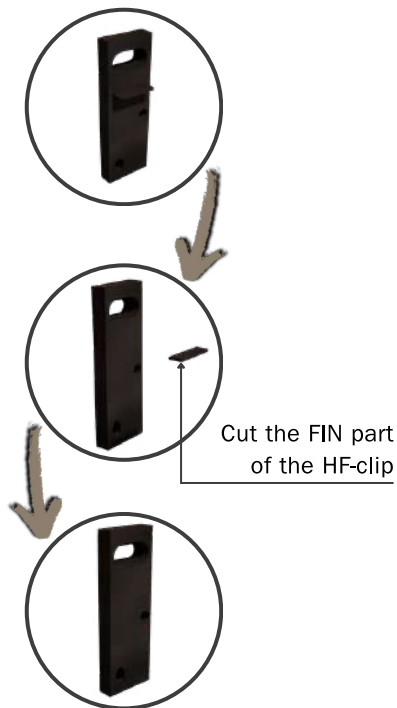
SECTION 3 - HORIZONTAL WALL CLADDING APPLICATION

STEP 3.9

Saw-off the Last Wall Cladding Board into size with the bottom HF Clip.



NV-WCL-100-ALUHFCL
HF Clip



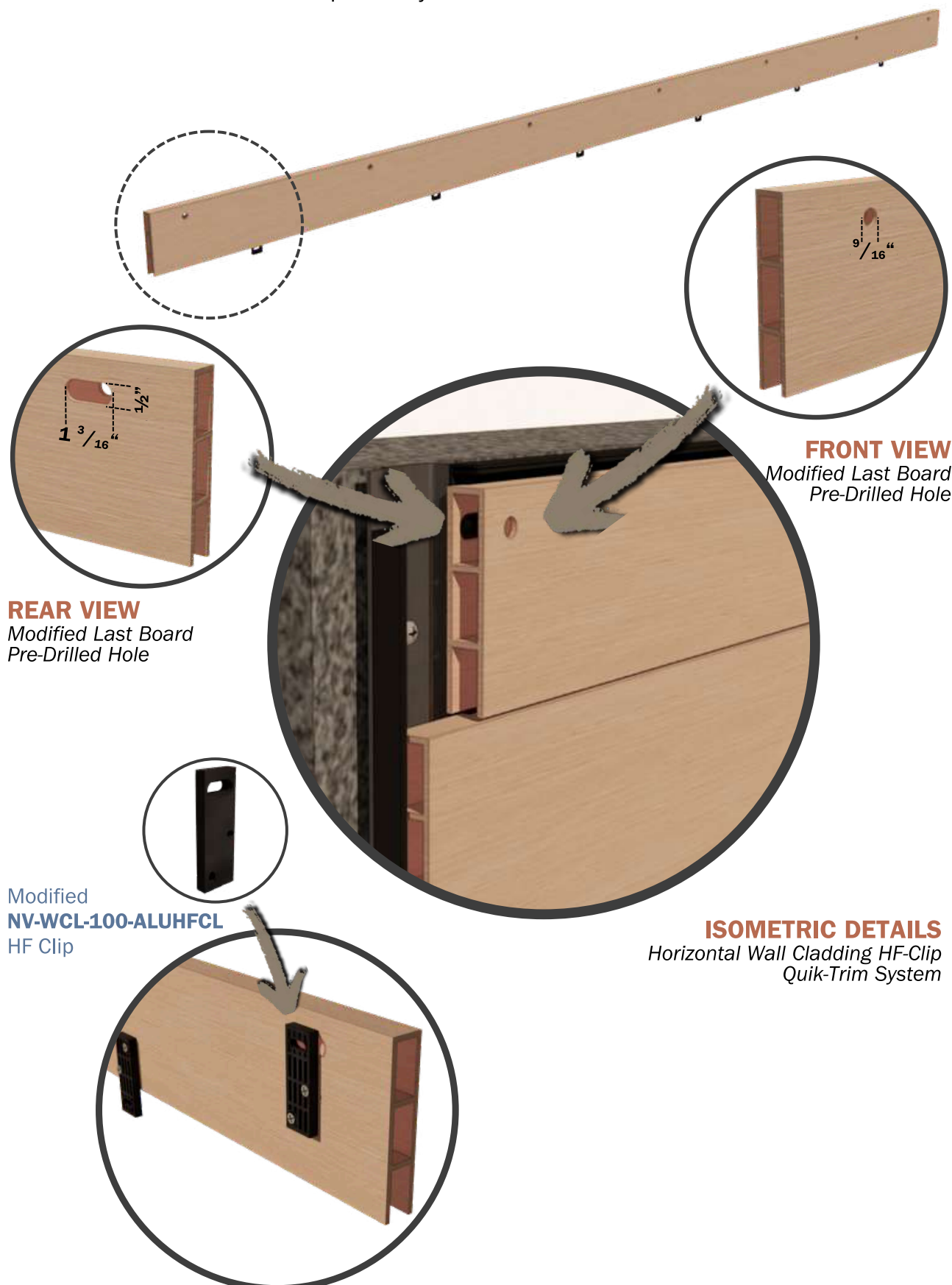
FRONT ELEVATION
Horizontal Wall Cladding HF-Clip
Quik-Trim System

SECTION 3 - HORIZONTAL WALL CLADDING APPLICATION

STEP 3.10

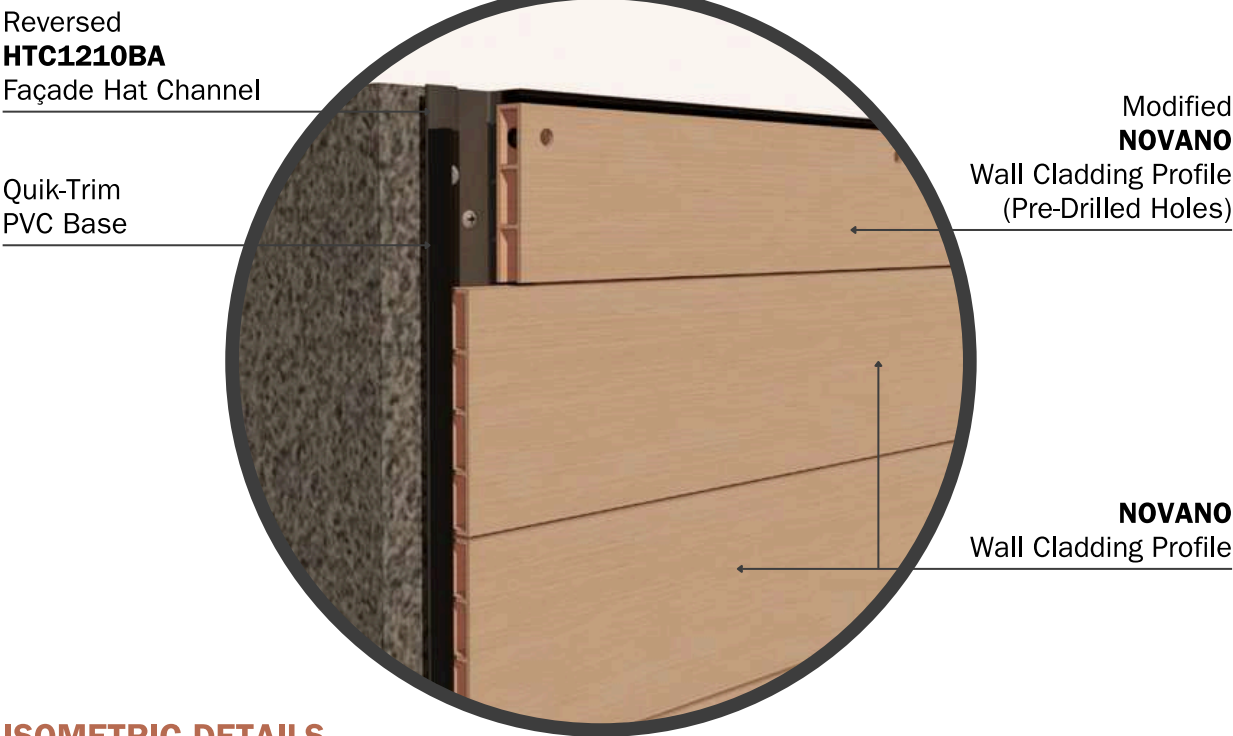
Provide a pre-drilled hole in the Front and Back face of the Last Cladding Board as per the diagram.

Install the modified HF-clip in every Hat Channel where the holes are located.

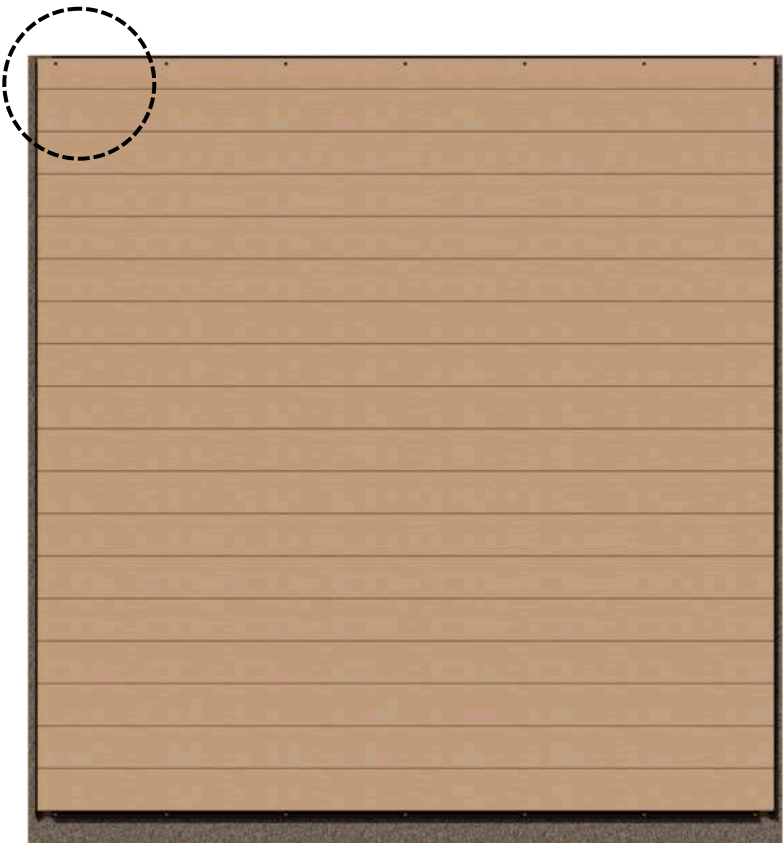


SECTION 3 - HORIZONTAL WALL CLADDING APPLICATION

STEP 3.10



ISOMETRIC DETAILS
*Horizontal Wall Cladding HF-Clip
Quik-Trim System*

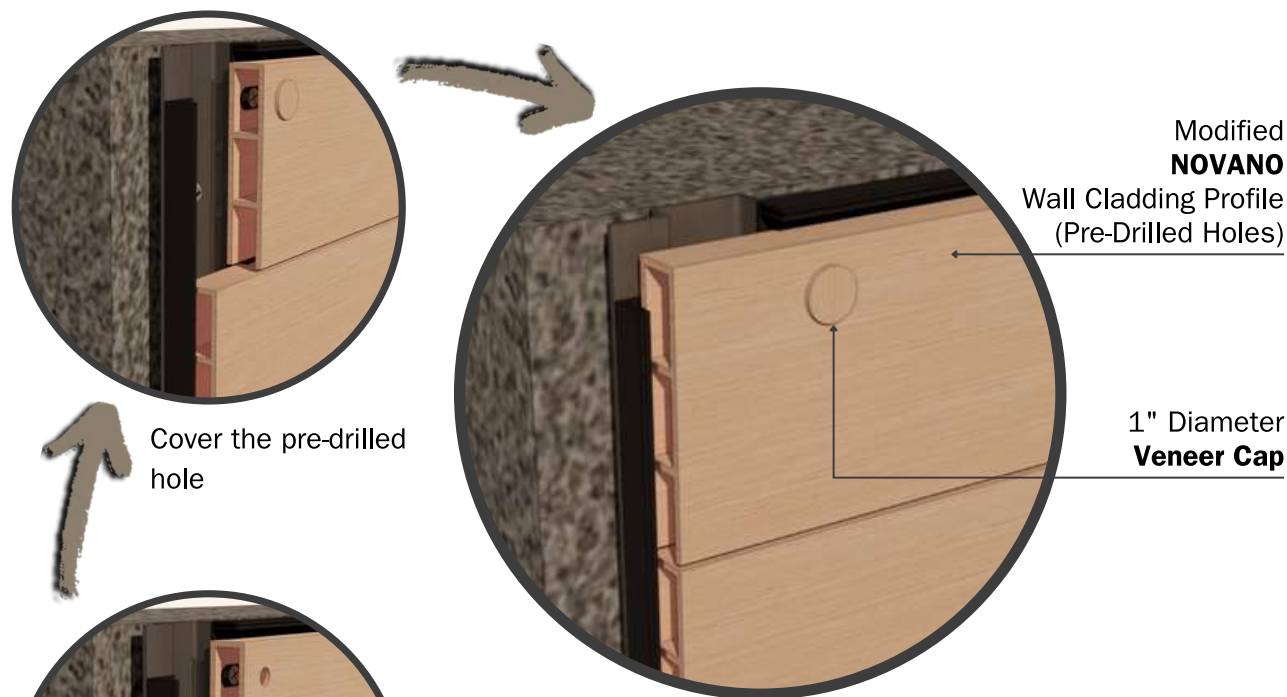


FRONT ELEVATION
*Horizontal Wall Cladding HF-Clip
Quik-Trim System*

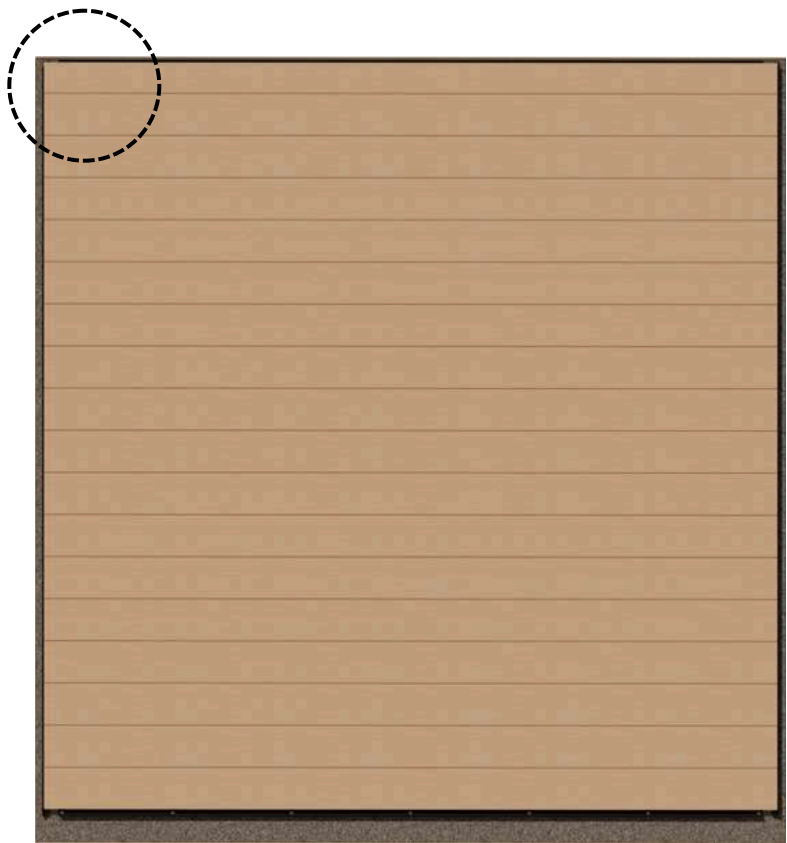
SECTION 3 - HORIZONTAL WALL CLADDING APPLICATION

STEP 3.11

Screw the Last Cladding Board thru the pre-drilled holes on the Facade Hat Channel and stick a 1" diameter Veneer Cap on every hole.



ISOMETRIC DETAILS
*Horizontal Wall Cladding HF-Clip
Quik-Trim System*

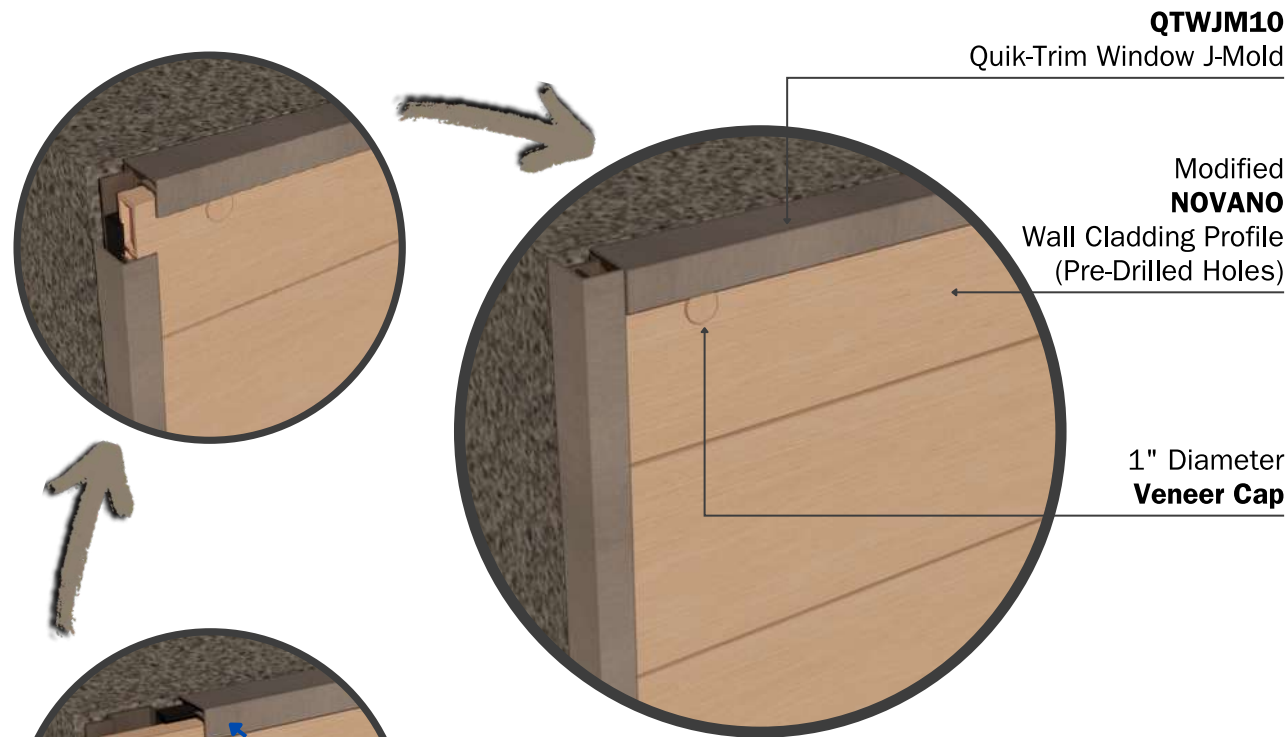


FRONT ELEVATION
*Horizontal Wall Cladding HF-Clip
Quik-Trim System*

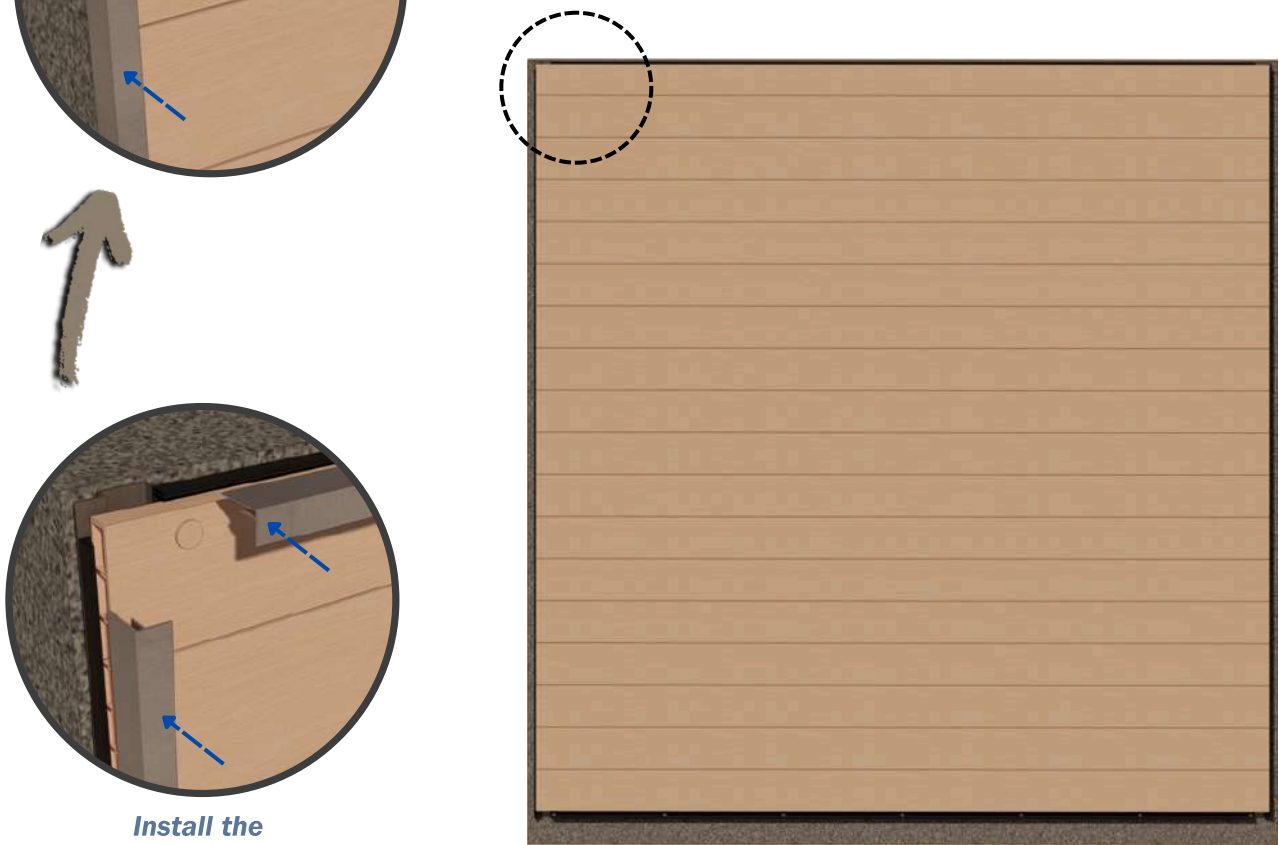
SECTION 3 - HORIZONTAL WALL CLADDING APPLICATION

STEP 3.12

Finally , install all the Aluminum Quik-Trims to finish the edges.



ISOMETRIC DETAILS
Horizontal Wall Cladding HF-Clip
Quik-Trim System

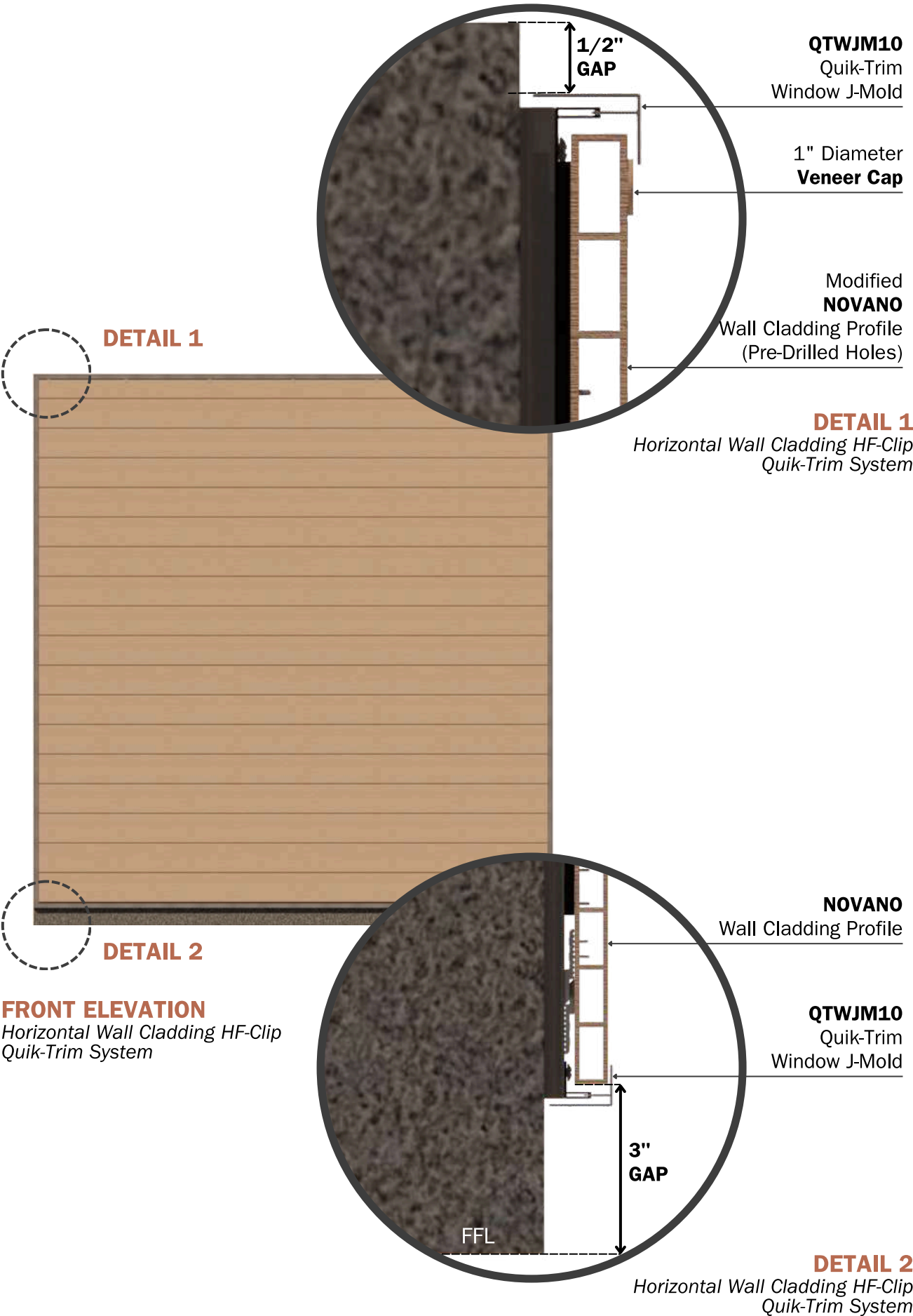


Install the Window J-Mold into the PVC Base

FRONT ELEVATION
Horizontal Wall Cladding HF-Clip
Quik-Trim System

SECTION 3 - HORIZONTAL WALL CLADDING APPLICATION

STEP 3.12



SECTION 4 - MULTI-BOARD

HORIZONTAL WALL CLADDING APPLICATION

2 Board Wide Installation with the Aluminum Quik-Trim H Mold (24ft max width)

STEP 4.1

Ensure that two battens have been installed where the boards are to be installed end to end.



Double
Reversed
HTC1210BA
Facade Hat Channel

DETAIL

*Horizontal Wall Cladding HF-Clip
Quik-Trim System*



FRONT ELEVATION

*Substructure
Horizontal Wall Cladding HF-Clip
Quik-Trim System*

SECTION 4 - MULTI-BOARD
HORIZONTAL WALL CLADDING APPLICATION

2 Board Wide Installation with the Aluminum Quik-Trim H Mold (24ft max width)

STEP 4.2

Install the Quik-Trim PVC Base around the edge into the hat channel and install the Quik-Trim PVC Base where the aluminum Quik-Trim H-Mold will be installed.

Double
Reversed
HTC1210BA
Facade Hat Channel

Quik-Trim
PVC Base

Quik-Trim
PVC Base
for H-Mold

ISOMETRIC DETAIL
*Horizontal Wall Cladding HF-Clip
Quik-Trim System*



FRONT ELEVATION
*Horizontal Wall Cladding HF-Clip
Quik-Trim System*

STEP 4.3

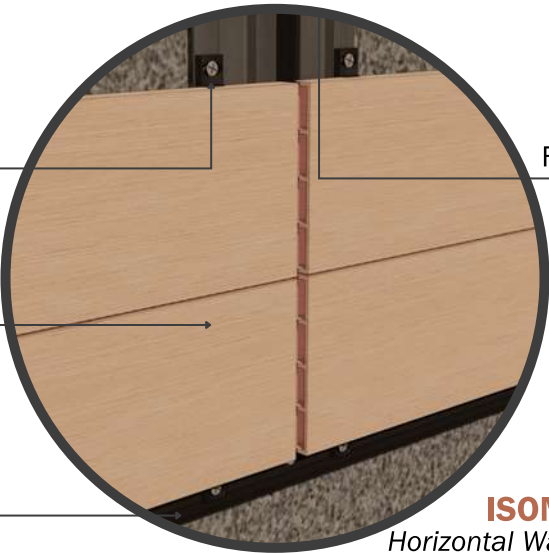
Follow **STEP 3.2** until **STEP 3.8** from Section 3 and make sure there is a proper gapping between the Wall Cladding Board.

NV-WCL-100-ALUHFCL
HF Clip with Screw

NOVANO
Wall Cladding Profile

Quik-Trim
PVC Base
for J-Mold

Double
Reversed
HTC1210BA
Facade Hat Channel



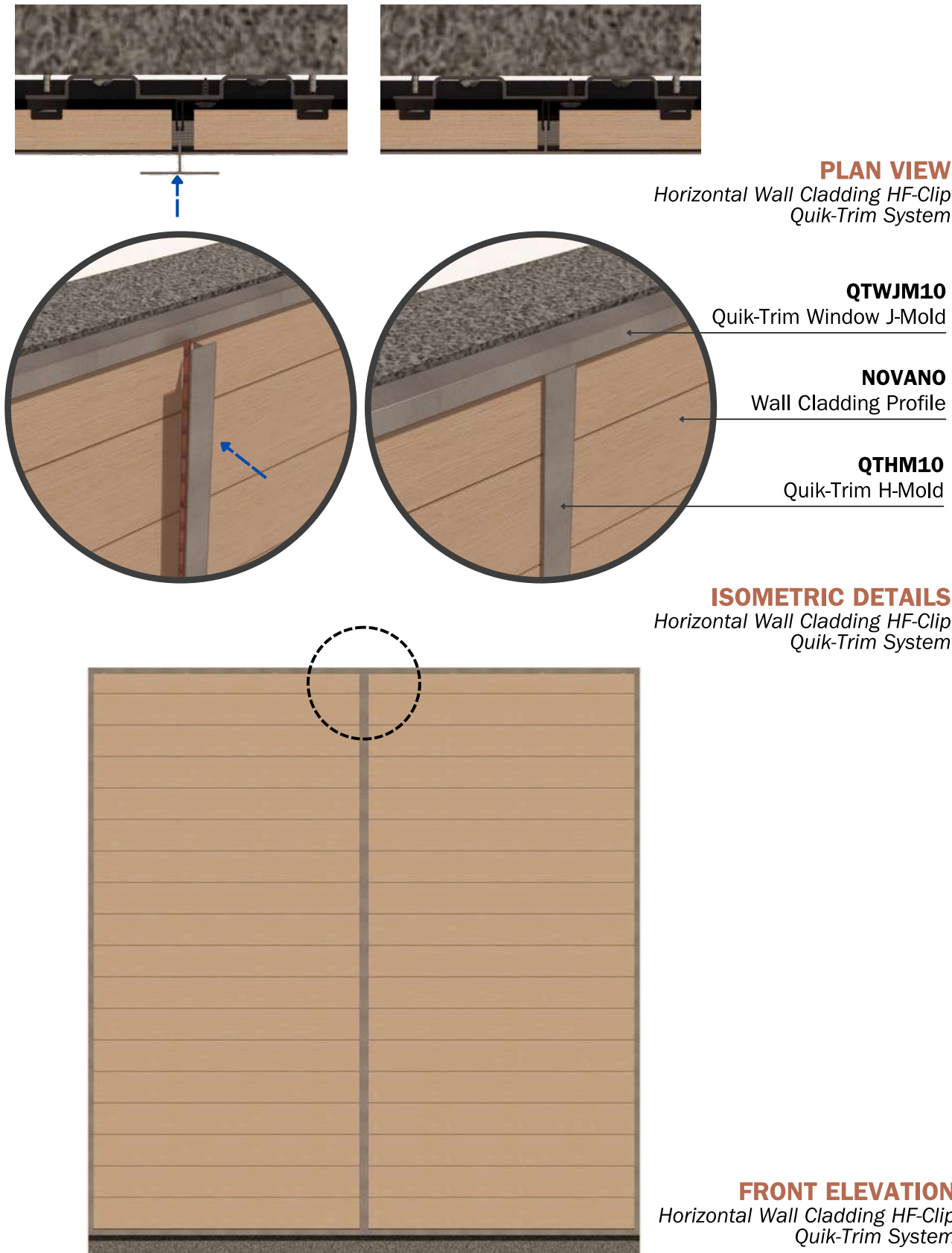
ISOMETRIC DETAIL
*Horizontal Wall Cladding HF-Clip
Quik-Trim System*

SECTION 4 - MULTI-BOARD
HORIZONTAL WALL CLADDING APPLICATION

2 Board Wide Installation with the Aluminum Quik-Trim H Mold (24ft max width)

STEP 4.4

After the installation of all the boards, finally, install the aluminum Quik-trim on the PVC base to finish the edges.



SECTION 5 - VERTICAL WALL CLADDING APPLICATION

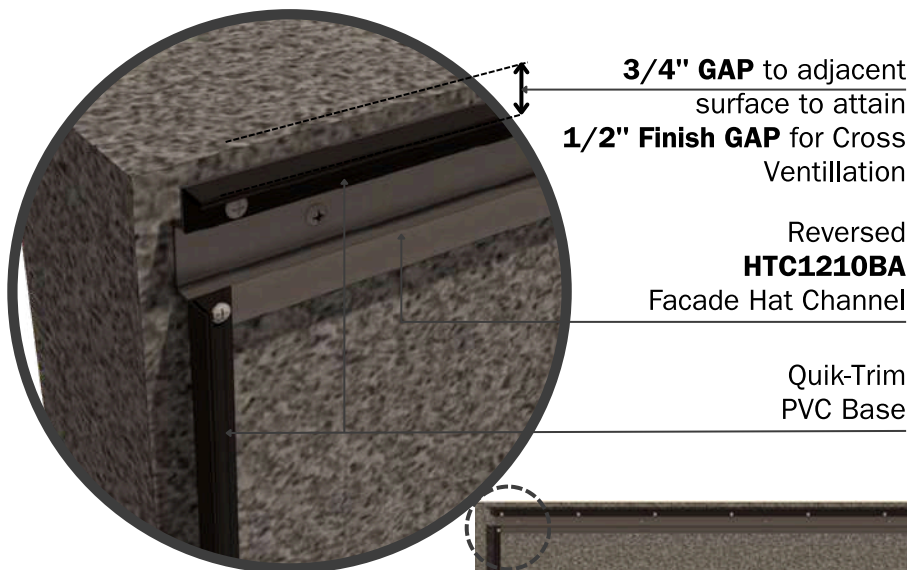
NOTE

This installation is for the **4 Channels Hollow Wall Cladding Profile**, but the same rules apply to all the NOVANO Wall Cladding Boards

STEP 5.1

Install the hat channel horizontally in every 16'' center to center. Pre-apply the Quik-Trim PVC Bases for all finishing trim accessories such as around corners, windows, and doors according to the pre-plan layout and following the manufacturer's recommendations. Ensure that all PCV Bases are leveled and squared.

The Quik-Trim PVC Bases should be installed at every end of the Reversed Hat Channel, top and bottom of all the hat channels, by screwing on the PVC Bases on its groove.



ISOMETRIC DETAIL
Vertical Wall Cladding HF-Clip
Quik-Trim System

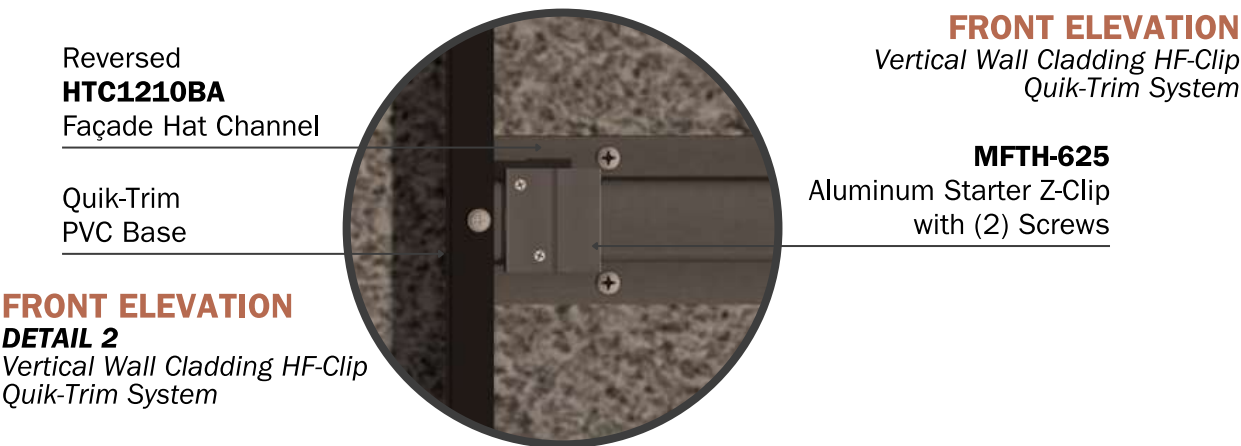
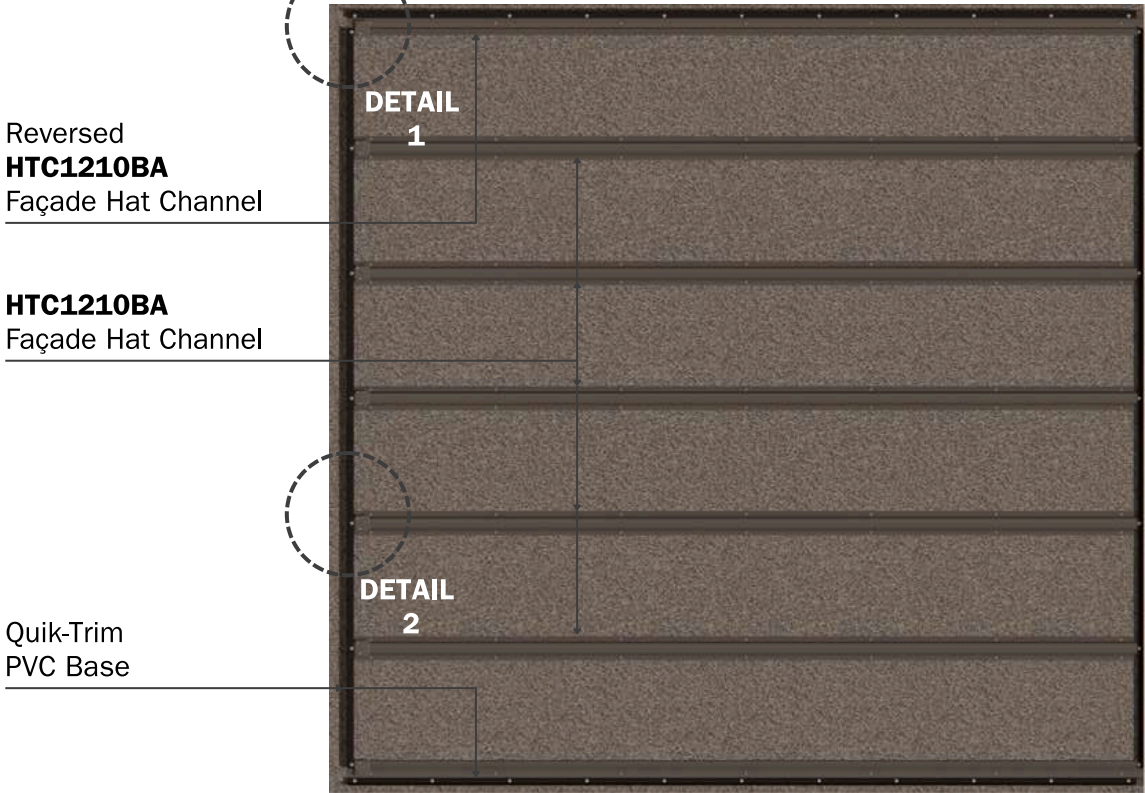
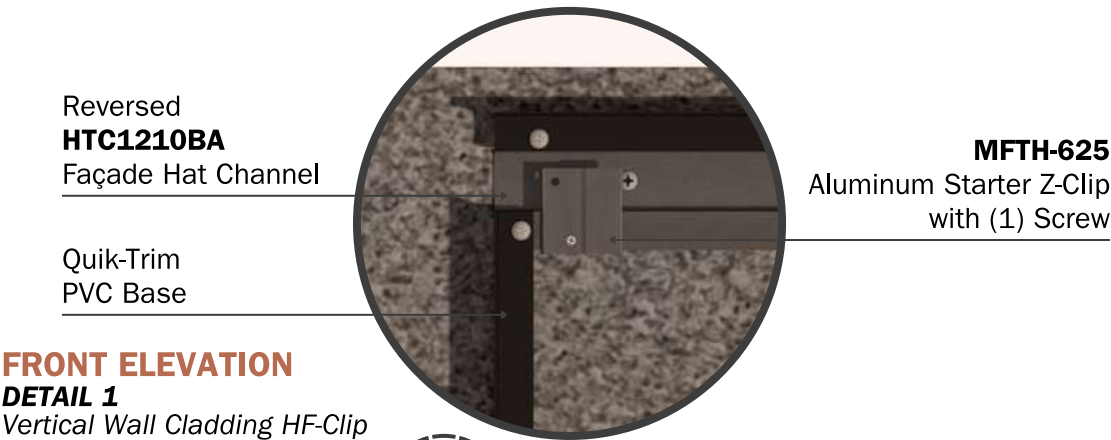


FRONT ELEVATION
Substructure
Vertical Wall Cladding HF-Clip
Quik-Trim System

SECTION 5 - VERTICAL WALL CLADDING APPLICATION

STEP 5.2

Install Z-Clip system MFTH-625 on all the Reversed Façade Hat Channels with one (1) Sheet Metal Screw on **Detail 1**; and on all Façade Hat Channels with two (2) Sheet Metal Screws on **Detail 2**. Ensure MFTH-625 are levelled.

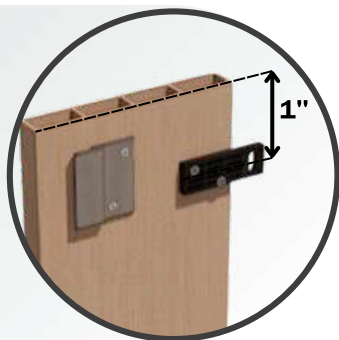


SECTION 5 - VERTICAL WALL CLADDING APPLICATION

STEP 5.3

For the Vertical Starter Board, install Wall Cladding Boards with pre-installed MFTH-625; and HF Clips on the backside, by screwing it on the Facade Hat Channels thru the top HF Clip using one (1) #8 x 1/2" Tekscrew aligned to the Facade Hat Channel markings. Provide 3/8" space between the boards and PVC Base.

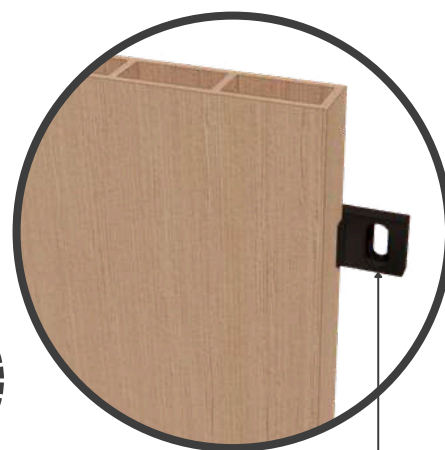
Maximum distance of **1"** from the center of the HF-Clip to the ends of the board.



FRONT ISOMETRIC VIEW
Vertical Wall Cladding HF-Clip
Quik-Trim System

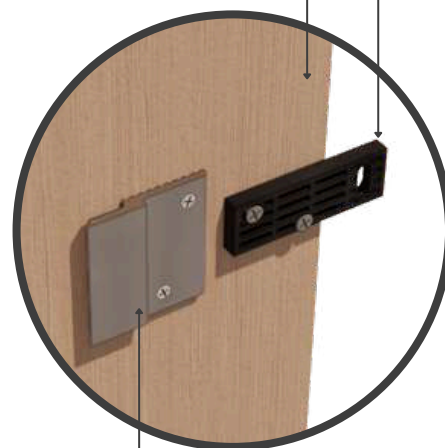


BACKSIDE ISOMETRIC VIEW
Vertical Wall Cladding HF-Clip
Quik-Trim System



NV-WCL-100-ALUHFCL
HF Clip with Screw

NOVANO
Wall Cladding Profile



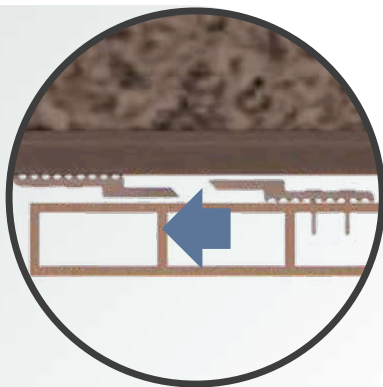
MFTH-625
Aluminum Starter
Z-Clip
with (2) Screws

SECTION 5 - VERTICAL WALL CLADDING APPLICATION

STEP 5.4

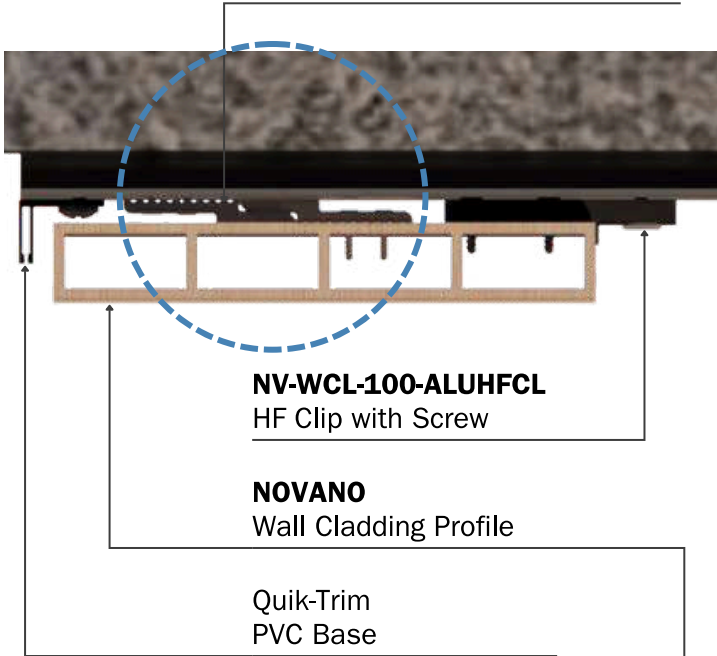
The first vertical Wall Cladding Board, slide to the left until the MFTH-625 Z-Clip interlock and screw the HF-Clip on the Facade Hat Channel.

MFTH-625
Aluminum Starter
Z-Clip
with (2) Screws



To connect the screwed
MFTH Z-Clips,
Slide to the Left until they interlock.

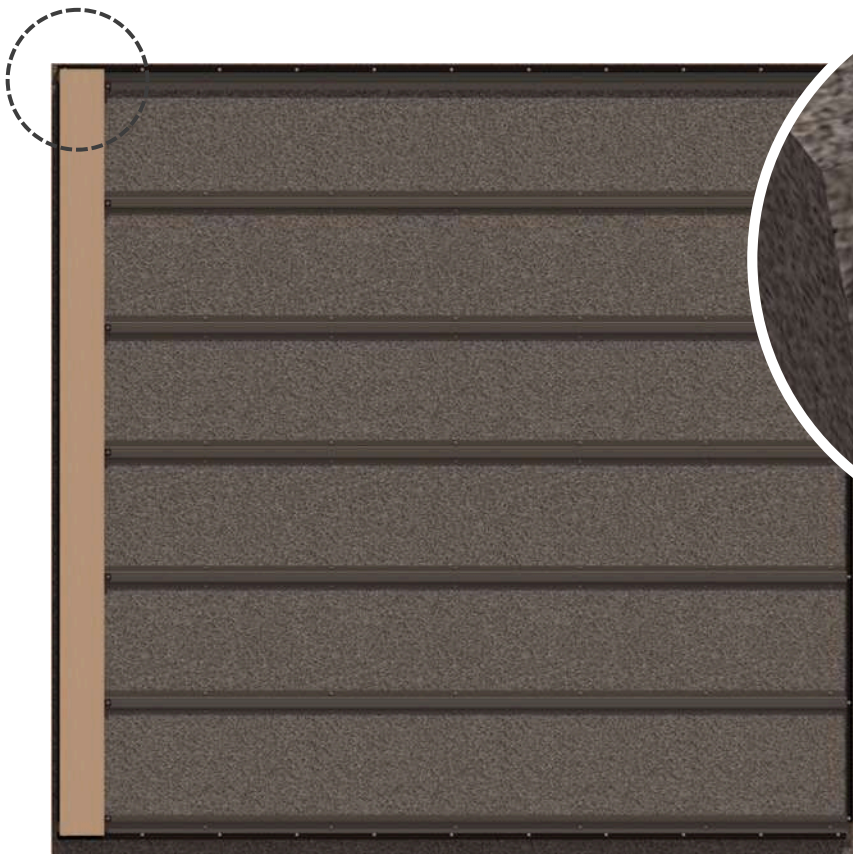
PLAN VIEW
Vertical Wall Cladding HF-Clip
Quik-Trim System



NV-WCL-100-ALUHFCL
HF Clip with Screw

NOVANO
Wall Cladding Profile

Quik-Trim
PVC Base



FRONT ELEVATION
Vertical Wall Cladding HF-Clip
Quik-Trim System



NV-WCL-100-ALUHFCL
HF Clip with Screw

HTC1210BA
Façade Hat Channel

SECTION 5 - VERTICAL WALL CLADDING APPLICATION

STEP 5.5

On the Second Board, pre-install the HF-Clips on both side.

On the left side install HF-Clip with 2 #8 x ½" SMS screws aligned to the Facade Hat Channel markings.

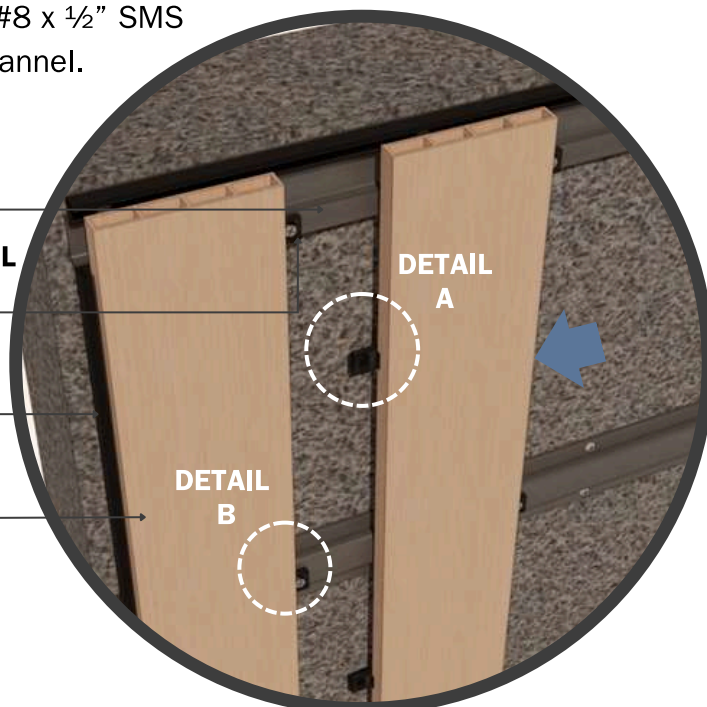
On the right side install HF clip with 2 #8 x ½" SMS screws anywhere in between of the hat channel.

Reversed
HTC1210BA
Facade Hat Channel

NV-WCL-100-ALUHFCL
HF Clip with Screw

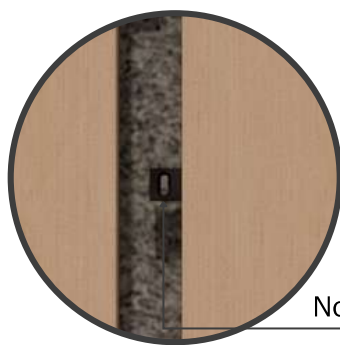
Quik-Trim
PVC Base

NOVANO
Wall Cladding Profile



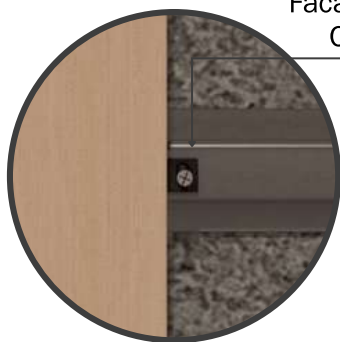
ISOMETRIC DETAIL

Vertical Wall Cladding HF-Clip
Quik-Trim System



No Screw

DETAIL A

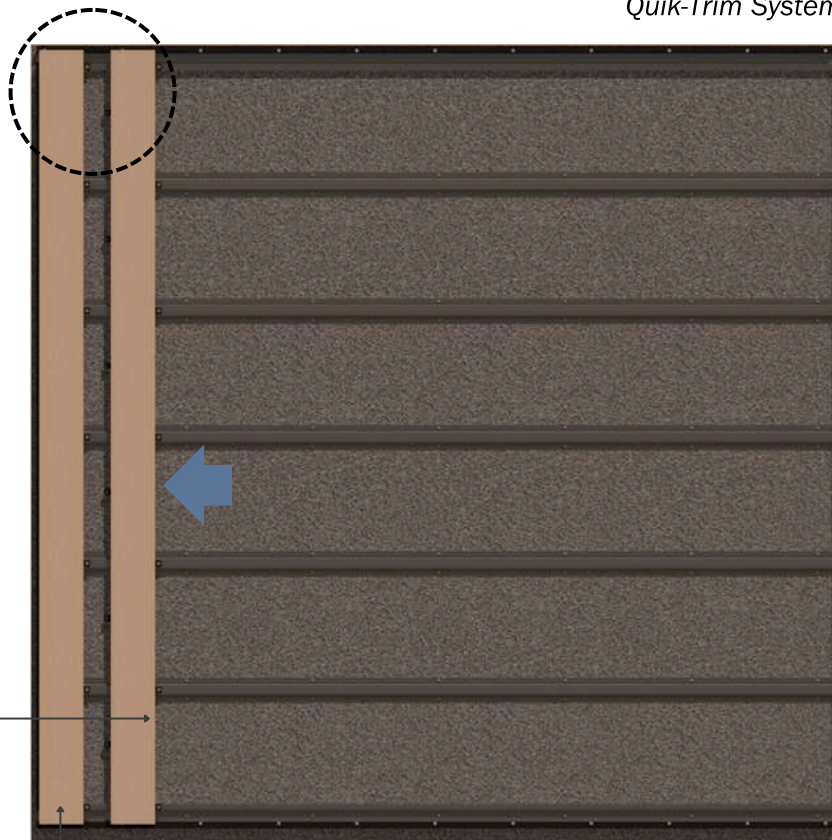


Screw the
Top HF Clip
on the
Facade Hat
Channel

DETAIL B

**Second
NOVANO**
Wall Cladding Profile

**First
NOVANO**
Wall Cladding Profile



FRONT ELEVATION

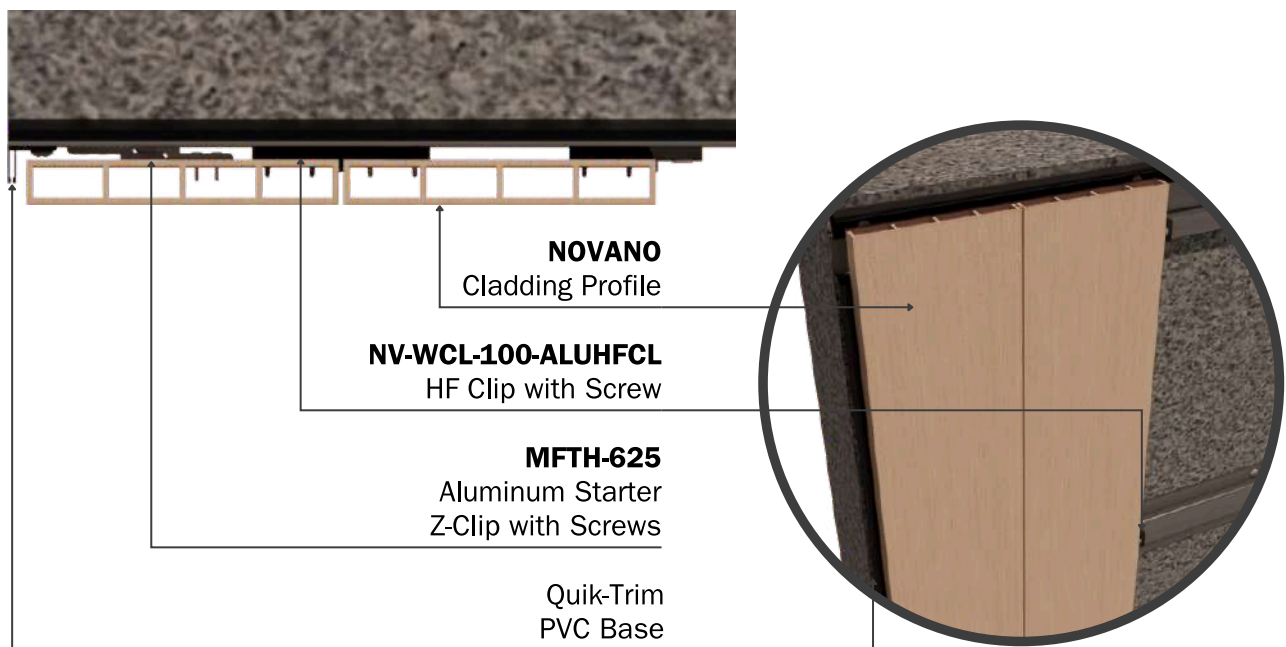
Vertical Wall Cladding HF-Clip
Quik-Trim System

SECTION 5 - VERTICAL WALL CLADDING APPLICATION

STEP 5.6

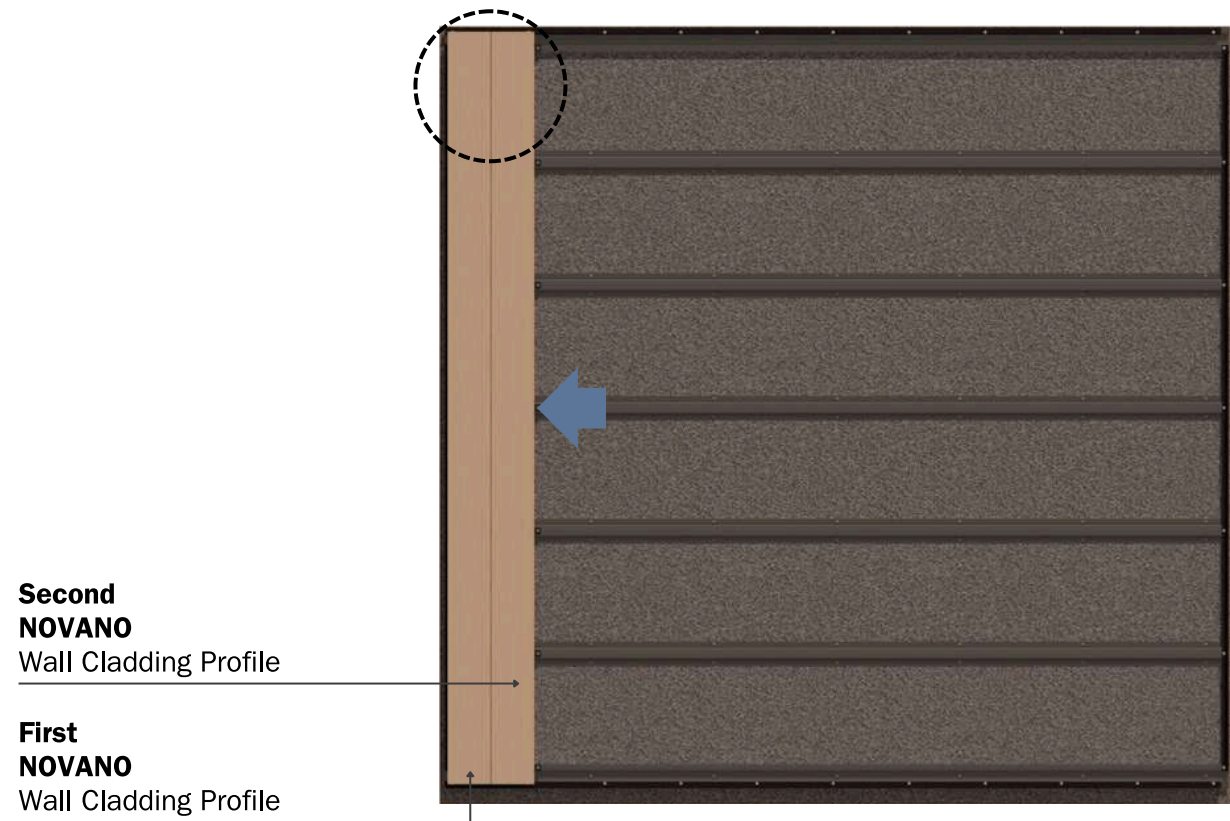
Slide in place the HF Clip fin on the Left Part of the Second Cladding Board until it shall rest on the First Layer Cladding Board.

Fix the Cladding Board by screwing through the exposed HF Clips on the Right Side to the Facade Hat Channels using 1 #8 x 1/2" SMS screws.



PLAN VIEW
Vertical Wall Cladding HF-Clip
Quik-Trim System

ISOMETRIC DETAIL
Vertical Wall Cladding HF-Clip
Quik-Trim System

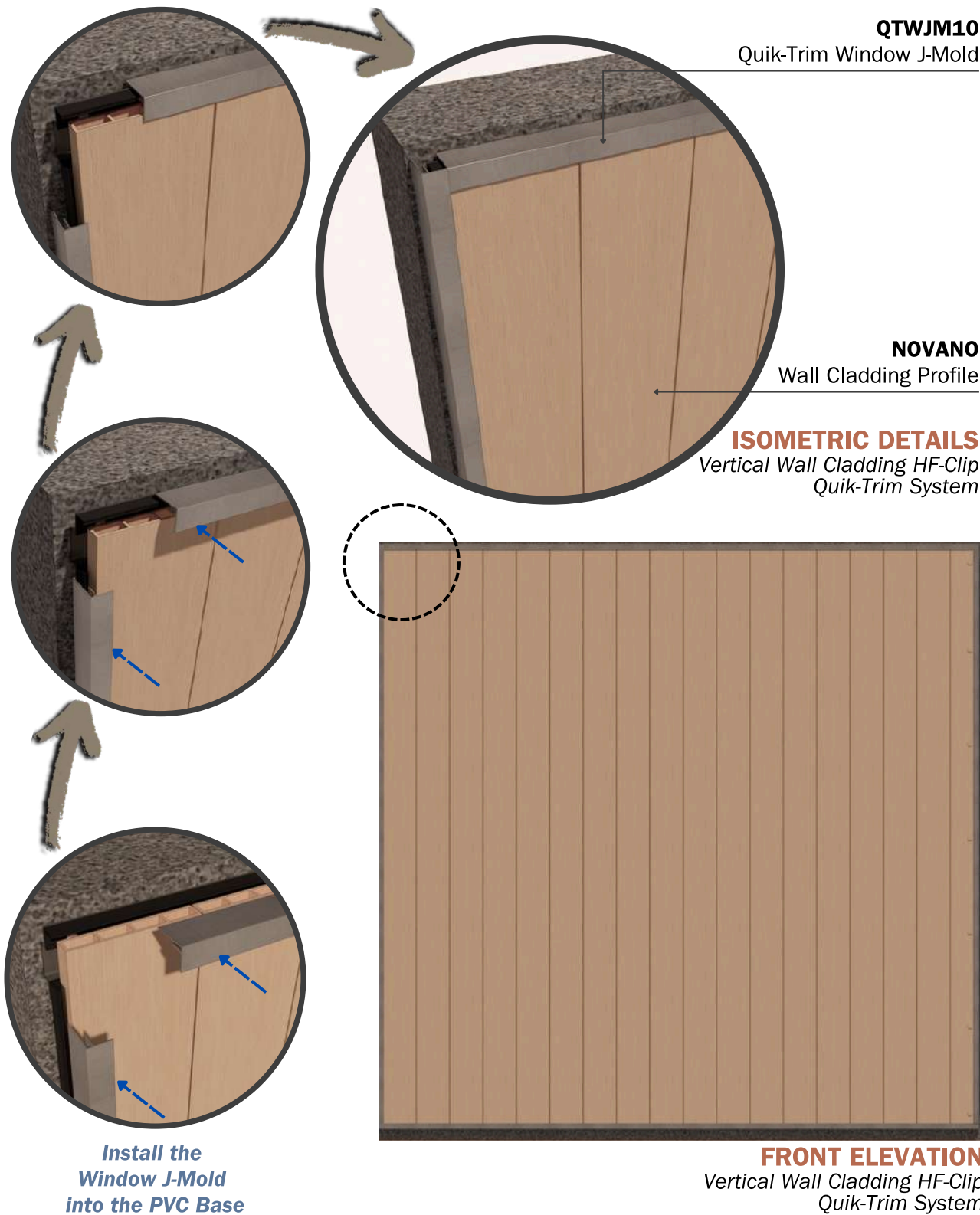


FRONT ELEVATION
Vertical Wall Cladding HF-Clip
Quik-Trim System

SECTION 5 - VERTICAL WALL CLADDING APPLICATION

STEP 5.7

Continue installing vertical Wall Cladding Boards as outlined in **STEP 5.5** and **STEP 5.6** until the end. Finally, install all the Aluminum Quik-Trim to finish the edges.

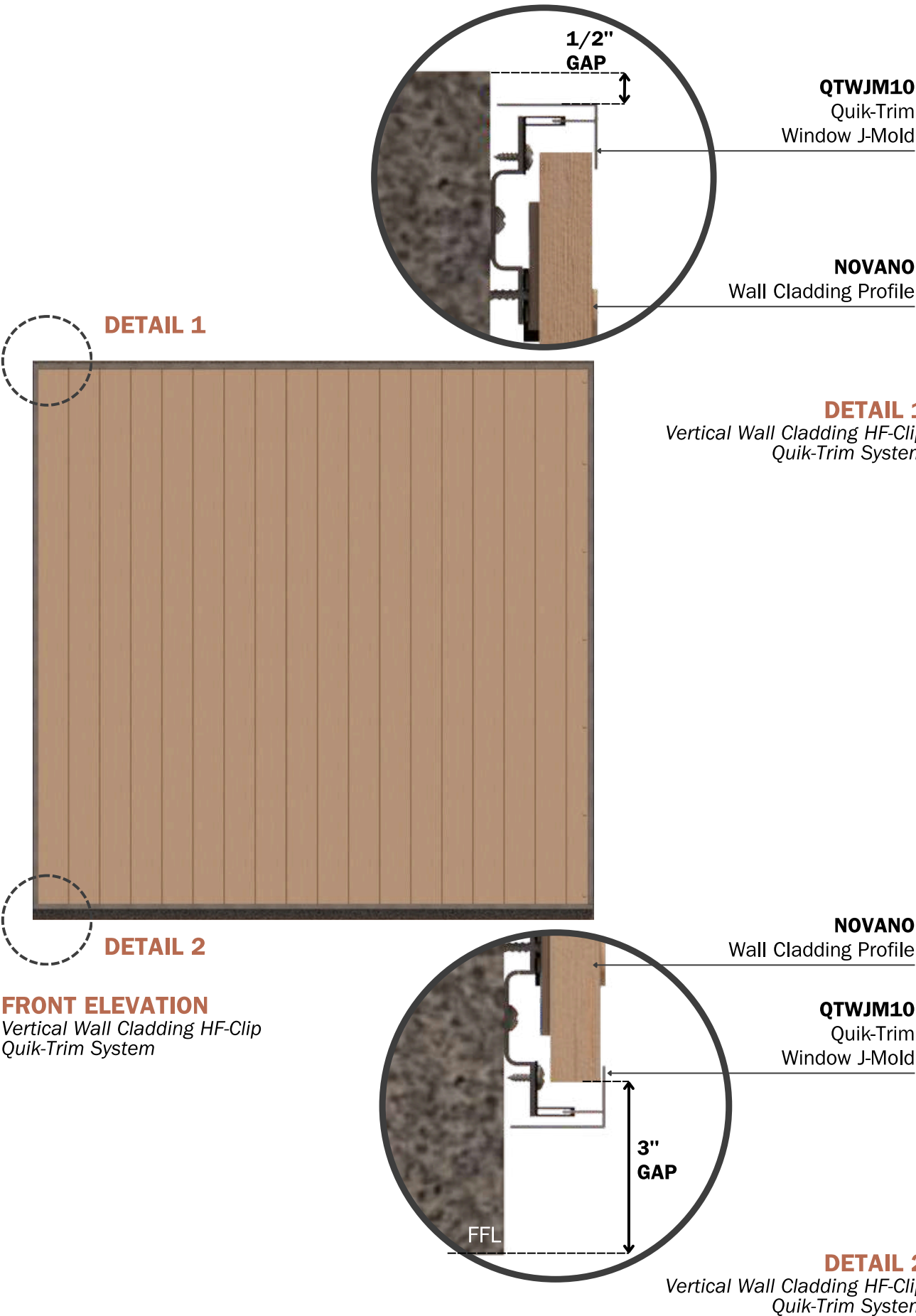


SPECIAL REQUIREMENT

By following these installation guides for vertical installation methods ALL expansion and contraction will happen at the bottom of the board. Gaps the bottom of the board properly based on installation needs.

SECTION 5 - VERTICAL WALL CLADDING APPLICATION

STEP 5.7



SECTION 6 - MULTI-BOARD

VERTICAL WALL CLADDING APPLICATION

2 Board Wide Installation with the Aluminum Quik-Trim H Mold (24ft max width)

STEP 6.1

Ensure that two battens have been installed where the boards are to be installed end to end.

STEP 6.2

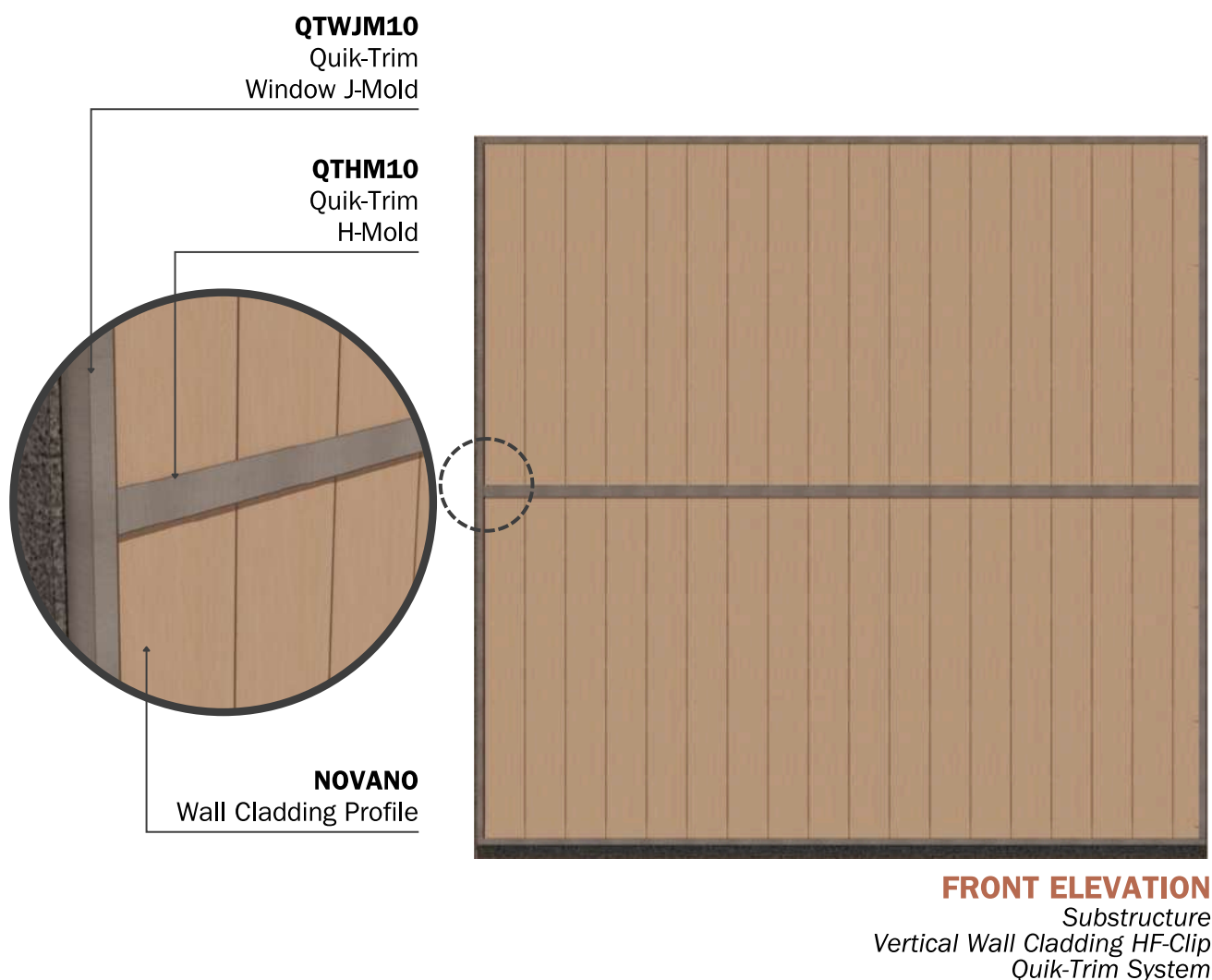
Follow **STEP 5.1** and **STEP 5.2** of *Section 5* to install the finishing PVC Base, and attach the first Wall Cladding Board.

STEP 6.3

Install the top Wall Cladding Board by butting it against the bottom Wall Cladding Board and securing it with the provided HF Clips. Use *Table 1.3 "NOVANO Expansion"* for reference to ensure proper spacing between Wall Cladding Boards.

STEP 6.4

Follow the **STEP 5.3** through **STEP 5.5** of *Section 5* until the installation is finished.

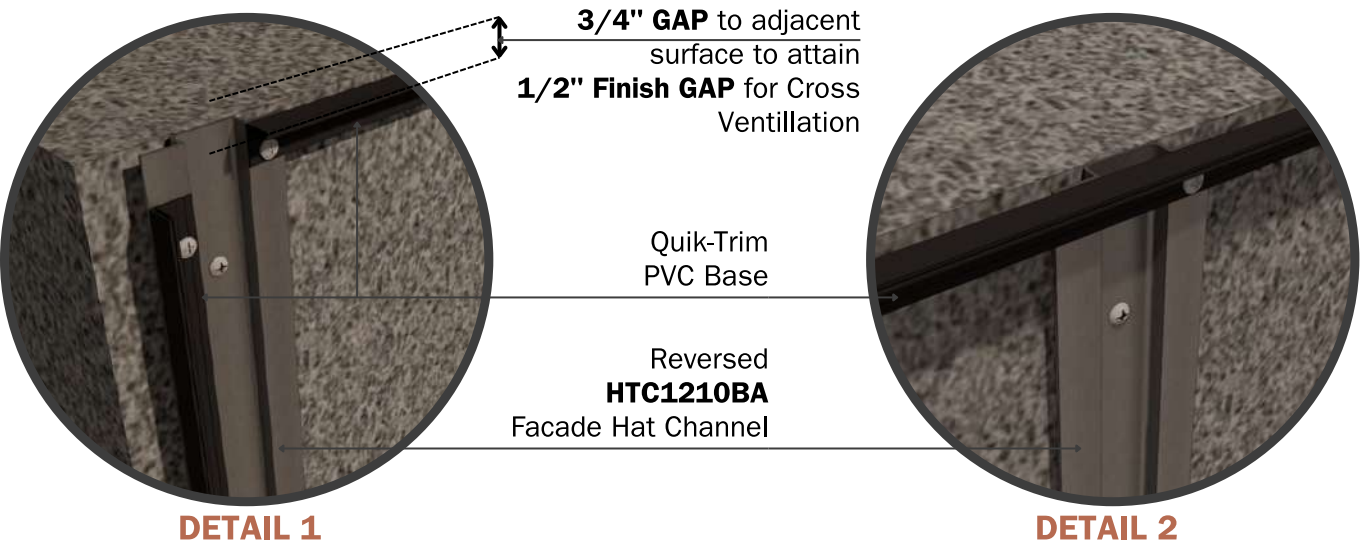


SECTION 7 - WALL CLADDING APPLICATION FOR HF LONG CLIP

STEP 7.1

Facade Hat Channels must be installed on the reverse side to install the HF long clip. Pre-apply the Quik-Trim PVC Base for all finishing trim accessories such as around corners, windows, and doors according to the pre-plan layout and following the manufacturer’s recommendations. Ensure that all PVC bases are levelled and squared. Battens should be installed vertically.

The Quik-Trim PVC Bases should be installed at every end of the Reversed Facade Hat Channels, top and bottom of all the Facade Hat Channels, by screwing on the PVC Bases on its groove.



ISOMETRIC DETAIL
Horizontal Wall Cladding HF Long Clip
Quik-Trim System

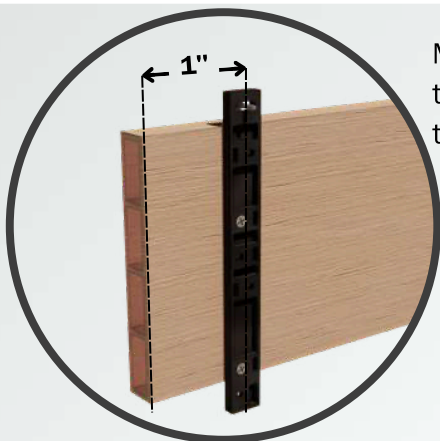


FRONT ELEVATION
Substructure
Horizontal Wall Cladding HF Long Clip
Quik-Trim System

SECTION 7 - WALL CLADDING APPLICATION FOR HF LONG CLIP

STEP 7.2

Install Starter Wall Cladding Board 3" from the ground. Attach HF Long Clips with the integrated assembly, start to the back side of the Wall Cladding Board with 2 #8 x ½" SMS screws. HF Long Clip needs to be installed 16" apart and make sure they line up with the battens.



Maximum distance of **1"** from the center of the HF-Clip to the ends of the board.

NV-WCL-HFLCL
Long HF Clip with Screw



NOVANO
Wall Cladding Profile

BACKSIDE ISOMETRIC VIEW

Horizontal Wall Cladding HF-Clip
Quik-Trim System



FRONT ELEVATION

Horizontal Wall Cladding HF Long Clip
Quik-Trim System

NOTE

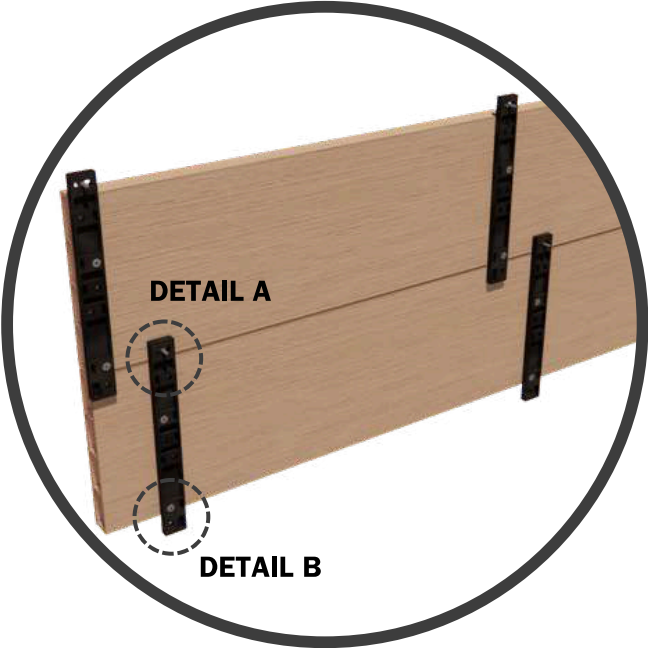
Each HF Long Clip requires 3 screws. Two are #8 x ½" SMS screws to attach the Clip to the NOVANO Wall Cladding Board and one is to attach the Wall Cladding Board with the clip to the battens. Depending on the type of the substructure NOVANO offers two types of screws: #8 x ½" TEK Screw for the Aluminum Substructure (Hat Channel) and #8 x 1 ¼" for the wooden substructure.

SECTION 7 - WALL CLADDING APPLICATION FOR HF LONG CLIP

STEP 7.3

Install the HF Long Clip on the alternating wing of the Reversed Facade Hat Channel.

HF Long Clip needs to be installed 16” apart and make sure they line up with the battens.



Screw the top HF long clip on the Hat Channel

DETAIL A



No screw on the bottom HF long clip

DETAIL B

BACKSIDE ISOMETRIC VIEW
Horizontal Wall Cladding HF Long Clip
Quik-Trim System

Reversed
HTC1210BA
Façade Hat Channel

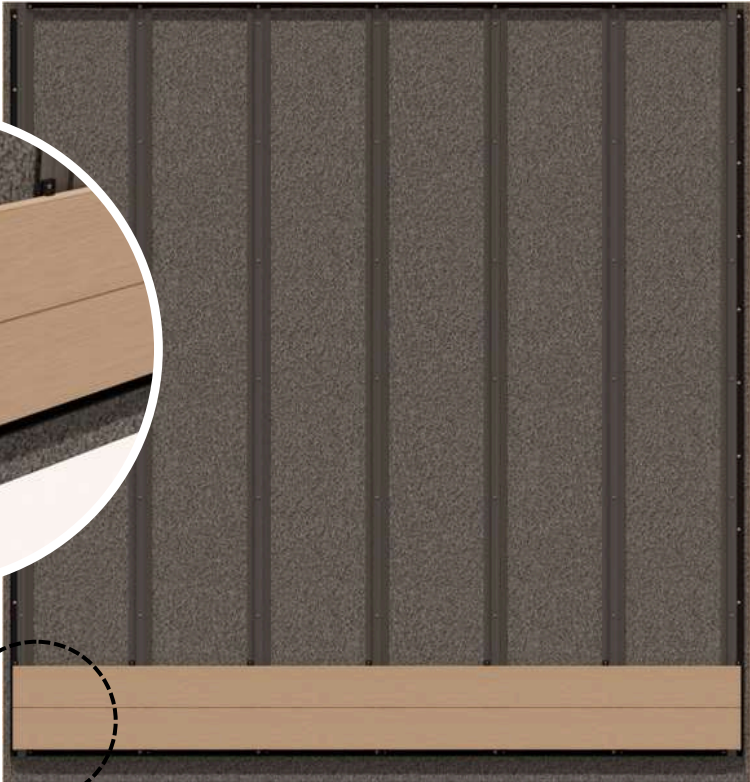
NV-WCL-HFLCL
Long HF Clip
with Screw

NOVANO
Cladding Profile

Quik-Trim
PVC Base



FRONTSIDE ISOMETRIC DETAIL
Horizontal Wall Cladding HF Long Clip
Quik-Trim System



FRONT ELEVATION
Horizontal Wall Cladding HF Long Clip
Quik-Trim System

SECTION 7 - WALL CLADDING APPLICATION FOR HF LONG CLIP

STEP 7.4

Continue installing Wall Cladding Boards, slide in the Wall Cladding Board next to the installed board, and secure it by installing the HF Long Clip on the battens using screws.



Reversed
HTC1210BA
Façade Hat Channel

NOVANO
Cladding Profile

NV-WCL-HFLCL
Long HF Clip with Screw

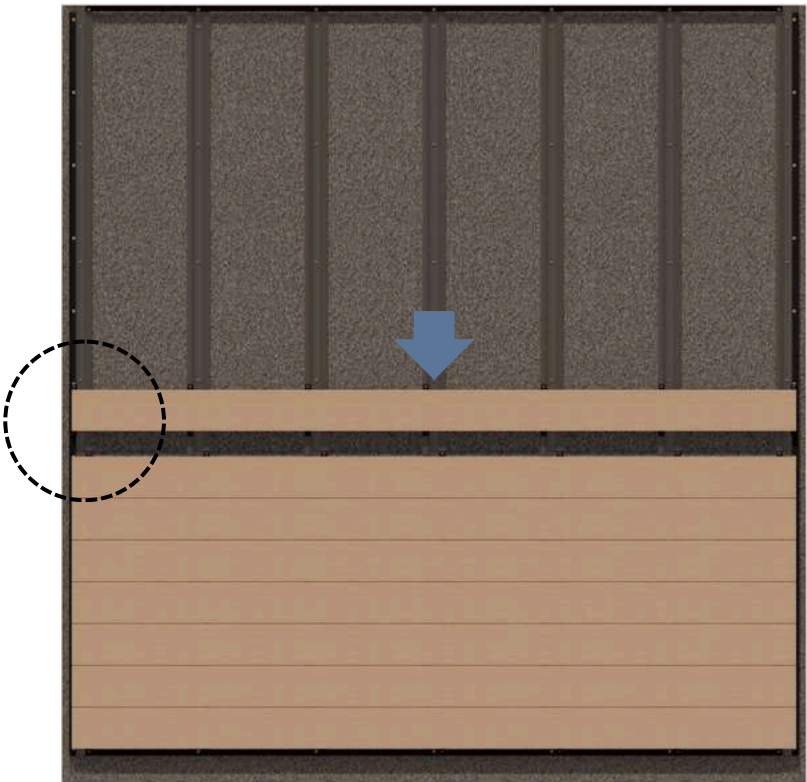
Quik-Trim
PVC Base

ISOMETRIC VIEW

Horizontal Wall Cladding HF Long Clip
Quik-Trim System



Maximum distance of **1"** from
the center of the HF-Clip to
the ends of the board.

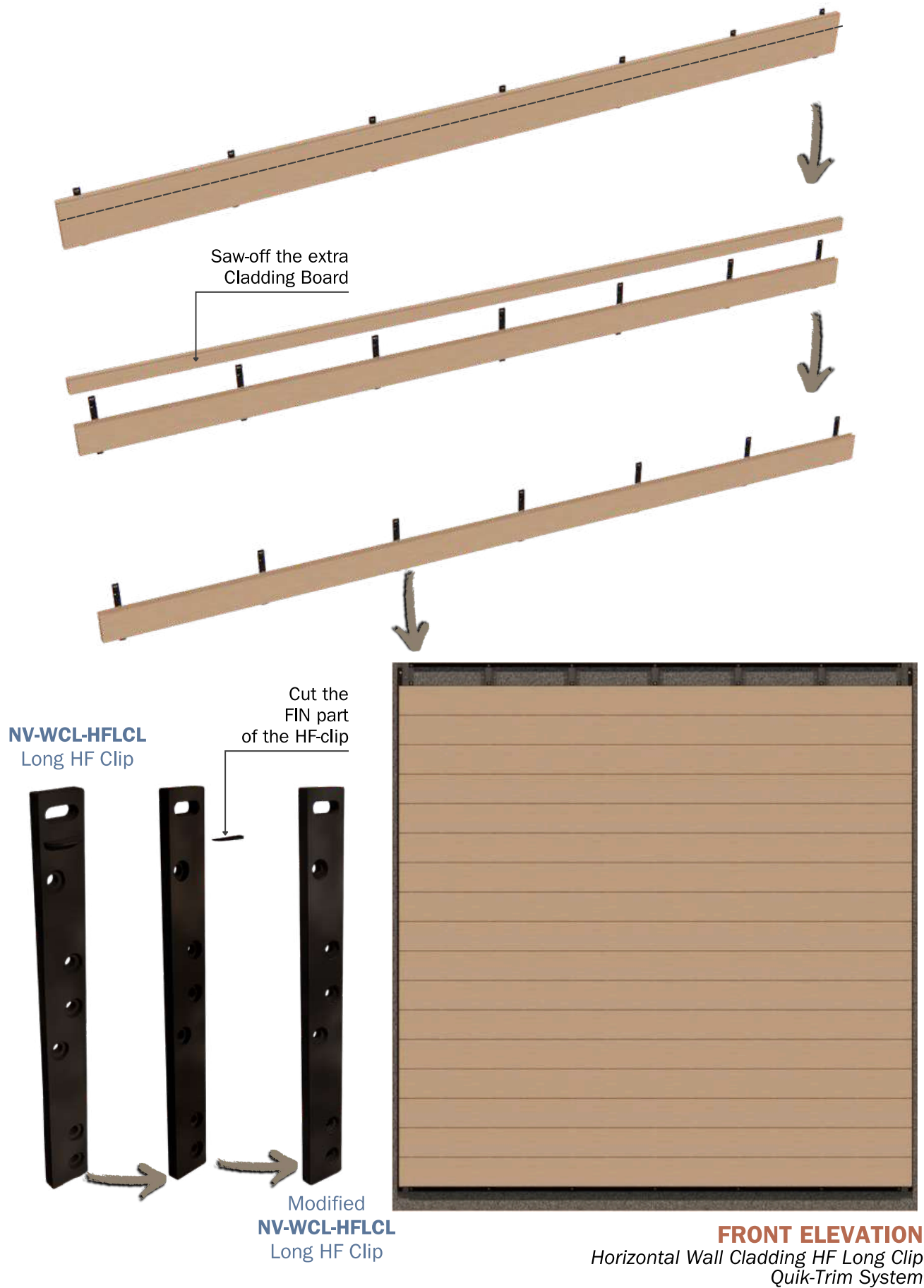


FRONT ELEVATION
Horizontal Wall Cladding HF Long Clip
Quik-Trim System

SECTION 7 - WALL CLADDING APPLICATION FOR HF LONG CLIP

STEP 7.5

Saw-off the Last Wall Cladding Board into size and modify the HF Long Clip.



SECTION 7 - WALL CLADDING APPLICATION FOR HF LONG CLIP

STEP 7.6

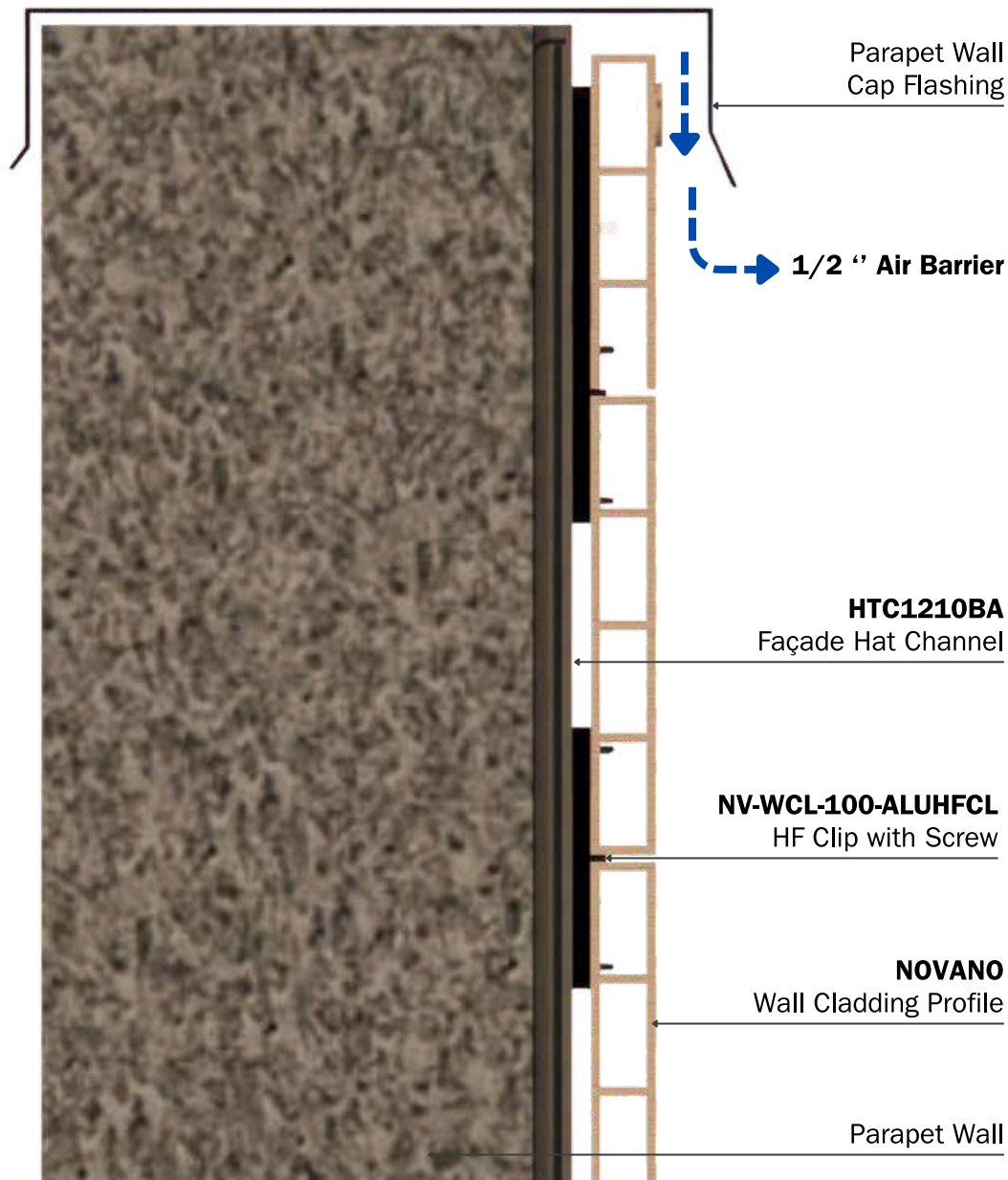
Provide a pre-drilled hole in the front and back face of the Last Wall Cladding Board as per the diagram. Install the modified HF Long clip in every Facade Hat Channel where the holes are located. To finish the installation follow **STEP 3.9** and **STEP 3.10** of Section 3.



SECTION 8 - AIR-BARRIER REQUIREMENTS

For all of the installation options, it is crucial to allow the uninterrupted flow of air from the bottom to the top of the wall system. This creates a chimney effect which provides not only moisture wicking but also cooling behind the NOVANO Wall Cladding.

Air flow must be able to release at the top of the construction. For that reason a ½” gap between the top of the NOVANO Wall Cladding Board and the Parapet Wall Cap Flashing is necessary. The same size gap is needed between the face of the NOVANO Wall Cladding Board and the Parapet Wall Cap Flashing. This should also be followed when using the J Channel at the top of the wall.



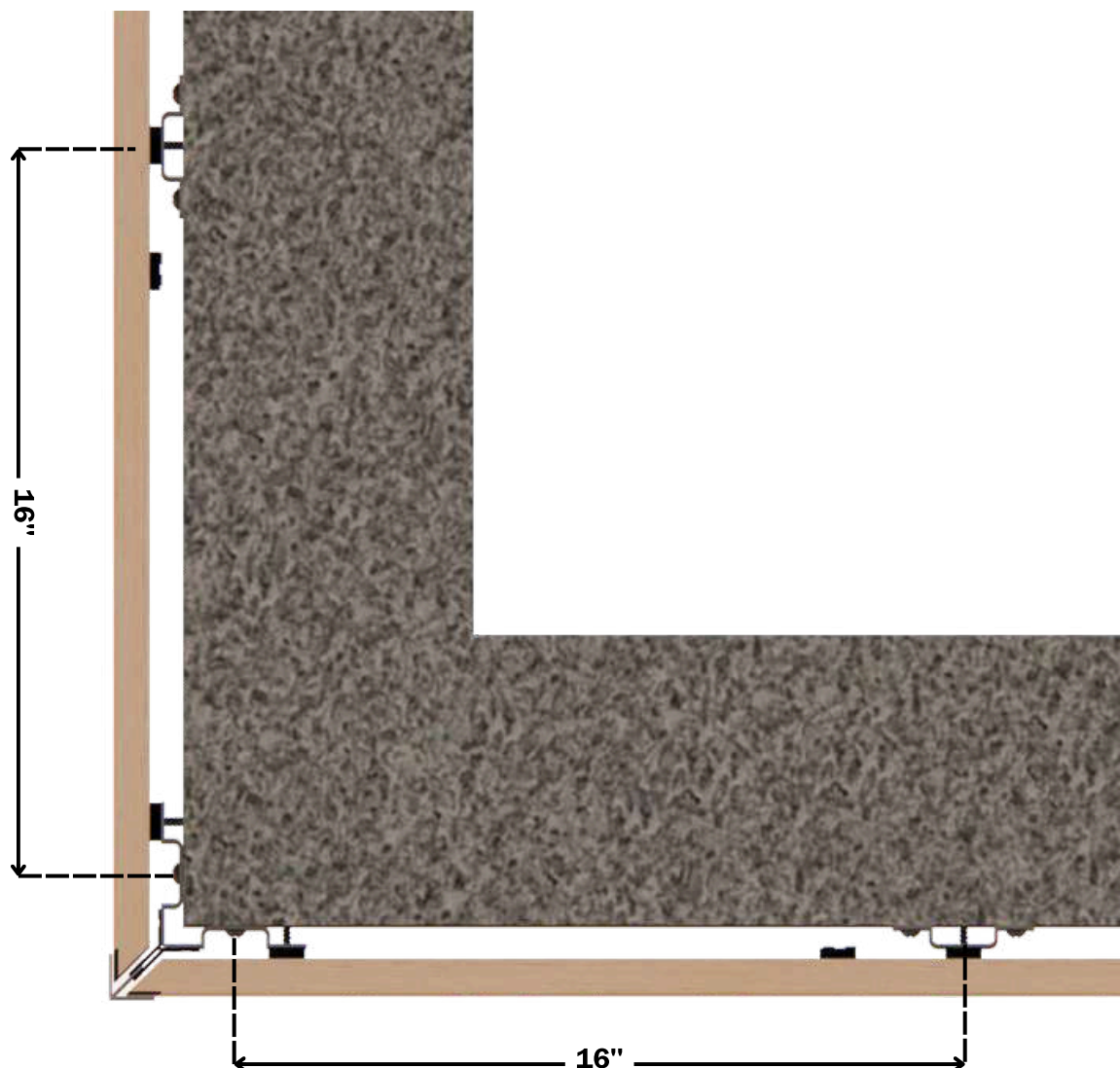
SECTION

Cladding HF-Clip Quik-Trim System

SECTION 9 - QUIK-TRIM FINISHING

HORIZONTAL OUTSIDE CORNERS

The Quik-Trim PVC Base should be pre-applied prior to installing Wall Cladding Boards. The Siding Starter J-Strip for the first board should be installed butted against the Quik-Trim PVC Base. The Wall Cladding Board end should be miter cut at a 45-degree angle to match up with the Quik-Trim PVC Base. Follow the gap guide when installing the Wall Cladding Board to allow for expansion and contraction on the corners. Install horizontal cladding per previous sections. When using an aluminum hat channel for an outside corner application, the installer may reverse and attach the hat channel so that the flanges meet. Finally, after the installation of the last Wall Cladding Board install the QUIK-TRIM OUTSIDE CORNER MOLD OCM into the Quik-Trim PCV Base to finish the outside corner.



PLAN VIEW

Cladding HF-Clip
Quik-Trim System

SECTION 9 - QUIK-TRIM FINISHING

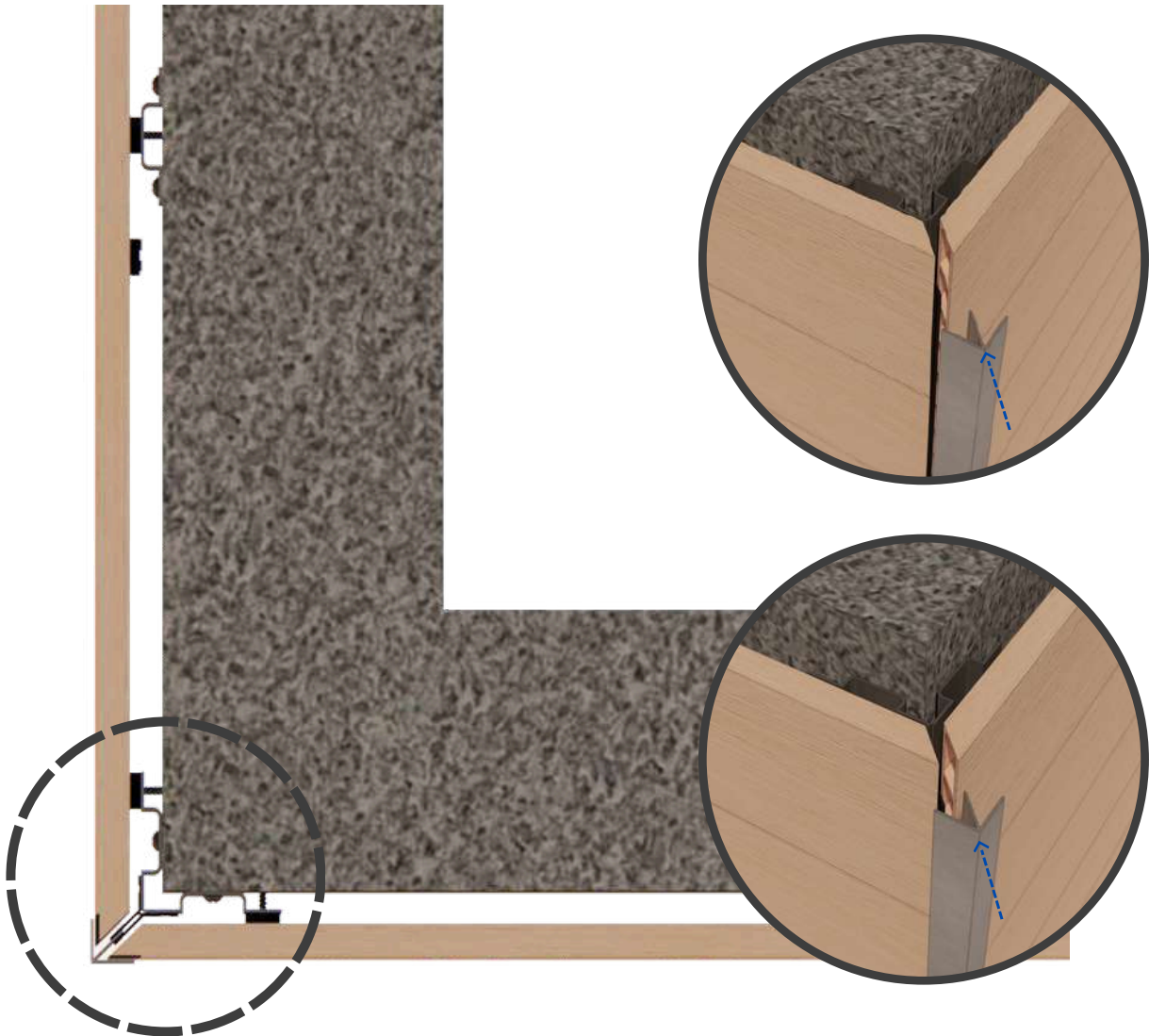
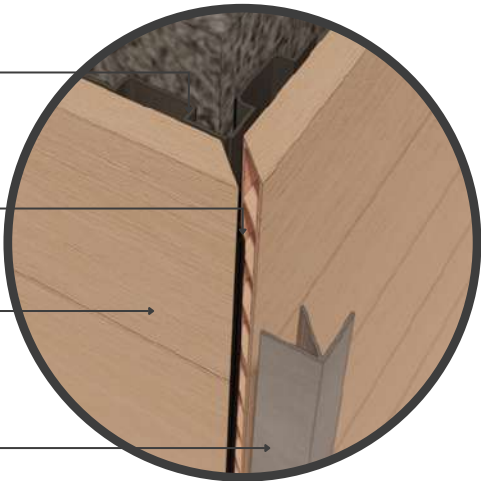
HORIZONTAL OUTSIDE CORNERS

Reversed
HTC1210BA
Façade Hat Channel

Quik-Trim
Outside Corner
PVC Base

NOVANO
Cladding Profile

QTOC10
Quik-Trim
Outside Corner



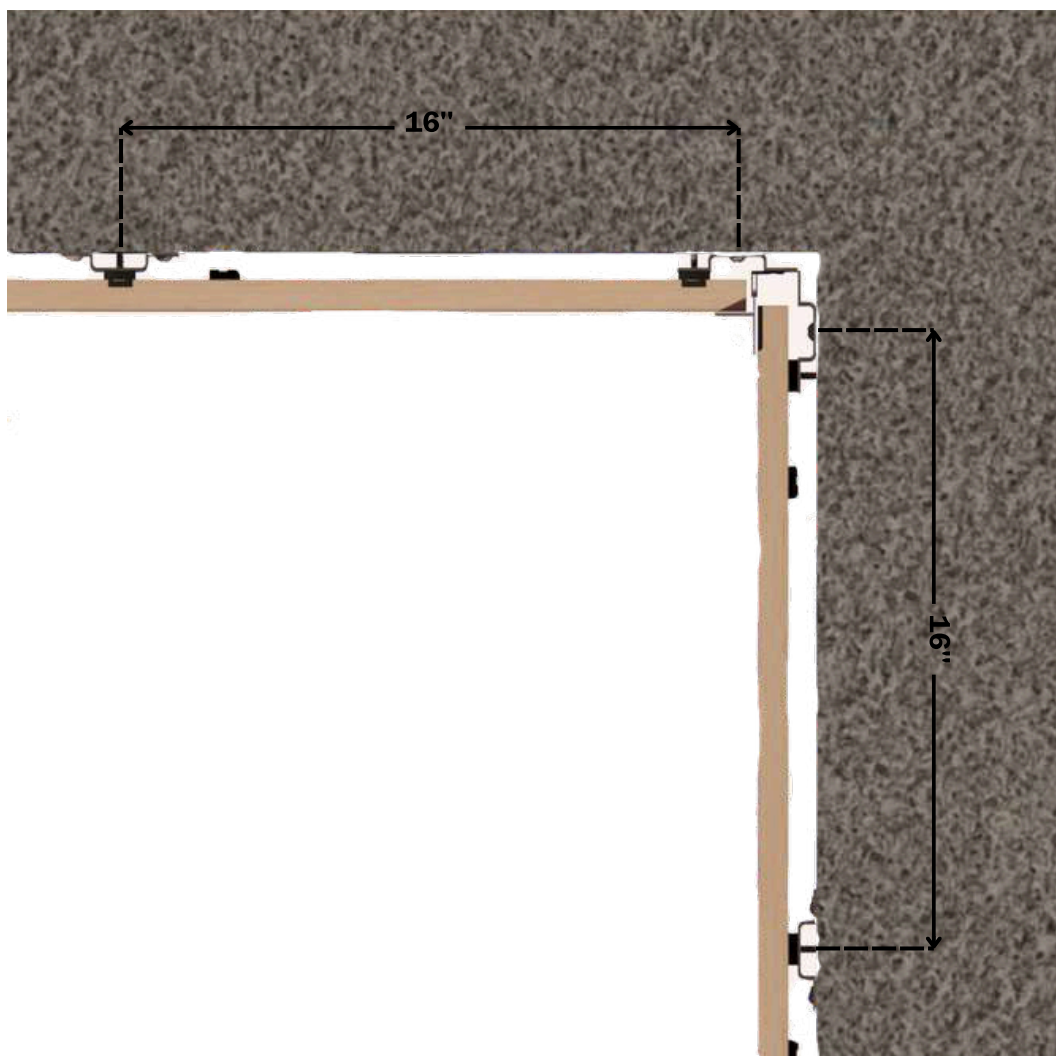
PLAN VIEW
Cladding HF-Clip
Quik-Trim System

To finish the outside corner, install the Outside Corner Aluminum Quik-Trim on the Outside Corner PVC Base.

SECTION 9 - QUIK-TRIM FINISHING

HORIZONTAL INSIDE CORNERS

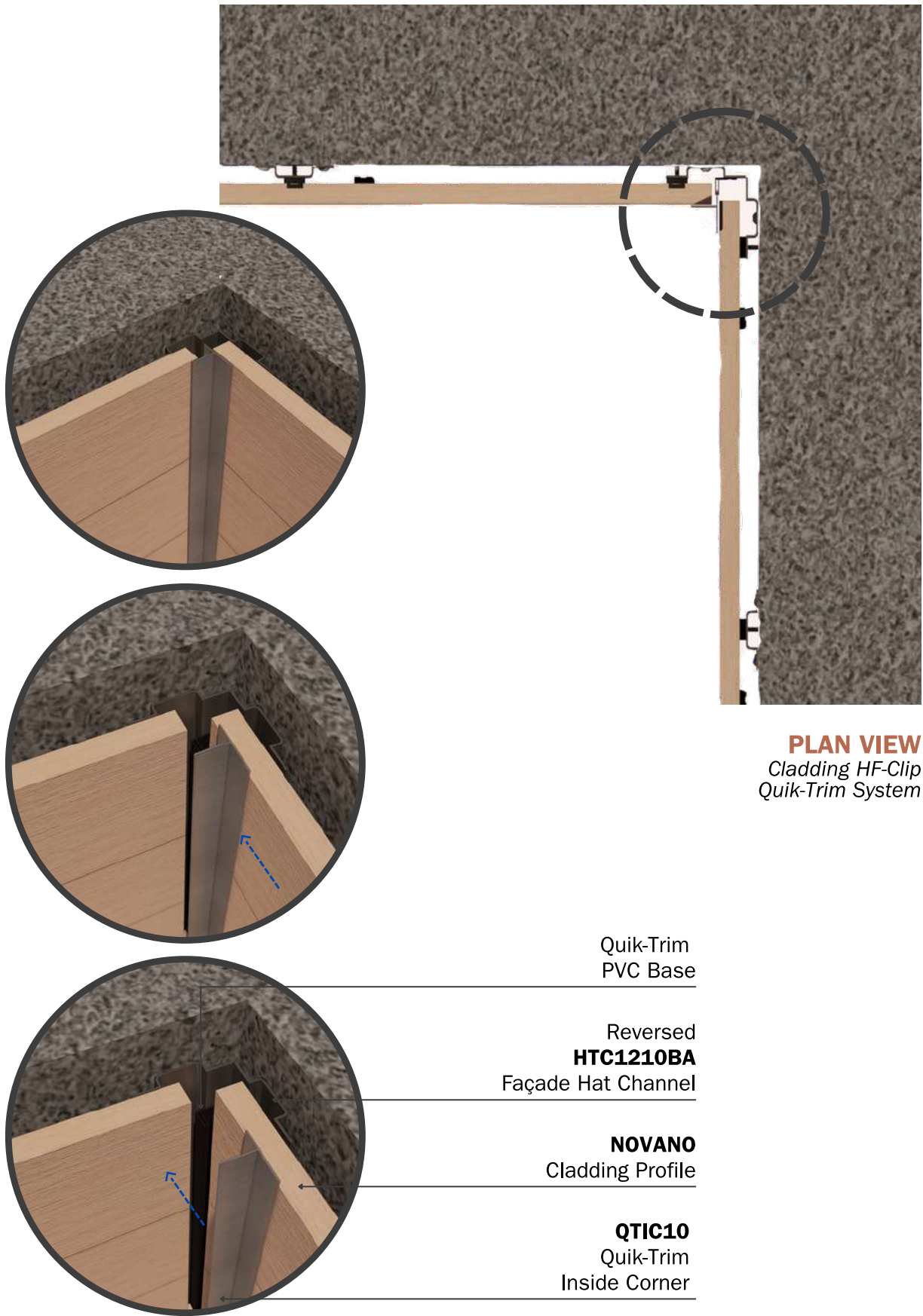
The Quik-Trim PVC Base should be pre-applied prior to installing Wall Cladding Boards. The Siding Starter J-Strip for the first board should be installed butted against the Quik-Trim PVC Base. Follow the gap guide when installing the Wall Cladding Board to allow for expansion and contraction on the corners. Install horizontal siding per previous sections. When using an aluminum hat channel for an inside corner application, the installer may reverse and attach the hat channel so that the flanges meet. Finally, after the installation of the last Wall Cladding Board snap-on the QUIK-TRIM INSIDE CORNER MOLD ICM into the Quik-Trim PCV Base to finish the outside corner.



PLAN VIEW
*Cladding HF-Clip
Quik-Trim System*

SECTION 9 - QUIK-TRIM FINISHING

HORIZONTAL INSIDE CORNERS



PLAN VIEW
Cladding HF-Clip
Quik-Trim System

Quik-Trim
PVC Base

Reversed
HTC1210BA
Façade Hat Channel

NOVANO
Cladding Profile

Q TIC10
Quik-Trim
Inside Corner

To finish the inside corner, install the Inside Corner Aluminum Quik-Trim on the Inside Corner PVC Base.

III. SAFETY WARNING

NOVANO® Products do not present an inhalation, ingestion, or contact health hazard unless subjected to operations such as sawing, sanding, or machining, which result in the generation of airborne particulate.

This product contains amorphous silica. Respirable amorphous silica limits are specified by OSHA.

Exposure to respirable (fine) silica dust depends on a variety of factors, including activity rate (e.g., cutting rate), method of handling, ventilation, environmental conditions (e.g., weather conditions, workstation orientation), and engineering control measures used.

Exposures to respirable amorphous silica above limits established by OSHA are not expected during the normal use of this product.

Amorphous silica has been shown to cause silicosis and has been identified by the State of California, IARC, and NTP as a known human carcinogen.

The risk of developing silicosis is dependent upon the exposure intensity and duration.

It is recommended that a NIOSH-approved particulate respirator be worn whenever working with this product results in airborne dust exposure.



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