Installation Manual

Soffit

CHAMCLAD®

TRANSFORMING SPACES

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Scan for Installation videos

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1.0 PURPOSE & SCOPE

This Installation Manual provides installers and designers with the essential requirements for proper installation of ChamClad® products. These instructions reflect Best Practices and must be followed to maintain product performance and warranty compliance. For additional advisory information and expanded technical guidance, you must read the ChamClad® Appendices that accompany this manual.

2.0 ADDITIONAL DOCUMENTS (REQUIRED)

This manual is accompanied by the following appendices located at the end of the manual and which must be reviewed prior to installation:

- ***Appendix A: General Information & Advisory***
- ***Appendix B: Tools and Fastener Guide***
- ***Appendix C: Technical Expansion & Contraction Reference***
- ***Appendix D: Care & Maintenance Guide***

These documents provide additional product knowledge, environmental behavior guidelines, compliance references, and long-term maintenance details.

3.0 GENERAL INFORMATION & ADVISORY

- For additional information, refer to *Appendix A: General Information & Advisory*

3.1 Installer's Responsibilities

- **Read this manual completely before starting installation.** Improper installation may void the warranty.
- Always ensure you are using the **most current version** of this manual. Updated manuals, appendices and technical bulletins are available at ChamClad.com.
- It is the responsibility of the installer to observe the requirements of the local Building Code as they relate to installation in any given area.

3.2 Material Inspection

- Inspect all ChamClad® boards, trims, and accessories for damage, colour discrepancies, or defects prior to installation.
- If there are any concerns about material **do not** install. Report issues within 7 days of receipt to info@chamclad.com.

3.3 Handling

- Always carry boards on their narrow edge and support full length.
- Whenever possible avoid using metal banding. Metal banding will cut into the boards if pulled too tight.

3.4 Storage

- Store materials on a flat, fully supported surface.

- Keep products protected from direct sunlight and excessive heat. Note: It is important that product is not stored for long periods where temperatures could exceed 30 degrees Celsius (86 degrees Fahrenheit).
- Do not store on asphalt surfaces.

3.5 Safety Requirements

- Proper PPE is mandatory: eye protection, gloves, hearing protection when cutting.
- When using a circular saw: cut face down.
- When using a cut-off saw: cut face up.
- Use carbide-tipped blades with 84+ teeth.
- Do not score or snap ChamClad® panels.

4.0 TOOLS & FASTENERS

- For additional information, refer to *Appendix B: Tools and Fastener Guide*

4.1 Tools Required

- Circular saw / cut-off saw
- Level, tape measure, chalk line
- Drill/driver with appropriate bits
- Deadblow Hammer

4.2 Fasteners Summary

- Use ChamClad® universal self-tapping screws where possible.
- Minimum fastener penetration: 1¼” (32mm) into structural substrate.
- When fastening into metal, pre-drill if using universal screws.
- Leave a 1/32” (0.8mm) gap between fastener head and nail flange.
- Do NOT use: nail guns, staplers, glue.

5.0 INSTALLATION FUNDAMENTALS

- For additional information, refer to *Appendix C: Technical Expansion & Contraction Reference*

5.1 Expansion & Contraction General Rules

- Installation in weather colder than -10°C (14°F) is not recommended due to potential chipping or cracking of the panels. Should that occur warranty may be voided.
- **It is important to acclimate panels and accessories for a <u>minimum of 24 hours prior</u> to installation.**
- Always allow for movement by installing fasteners at the center of nail slots.
- The following are Rules of Thumb for expansion and contraction.

Rule of Thumb – Gap Allowance (ΔT = 60°C / 108°F)

These values are intentionally conservative. For minimum calculated gap requirements based on actual panel length and temperature change, refer to the *Gap Reference Chart in Appendix C*. Based on a net temperature change of 60°C (108°F) (for example: installation at 0°C (32°F) with service temperatures reaching 60°C (140°F)), the following general guidelines may be used:

- Panels up to 12 ft (3.7 m): min. gap of 5/16" (8 mm) per side
- Panels over 12 ft up to 16 ft (4.9 m) max: Leave a min. gap of 1/2" (13 mm) per side
- Panels over 16 ft up to 24 ft (7.3 m) max: Leave a min. gap of 5/8" (16 mm) per side
- Panels 25 ft (7.6 m) and longer: Panels must be pinned at the midpoint by fastening directly through the nail rail (not the slot center). To determine the required end gap, use the distance from the pinned midpoint to the panel end (half the total panel length) and refer to the Rules of Thumb above or *Gap Reference Chart in Appendix C.*
- Where required gaps are 5/8" (16 mm) or greater: The use of larger-faced trims is recommended to accommodate expansion and contraction, including 3.5" 2-pc Finish Trim, 3.5" 2-pc Outside Corner, or larger-faced H-Trim**.**

5.2 Cavity & Substructure Requirements

- ChamClad® exterior wall panels should be installed over a vented wall cavity assembly with furring strips/ strapping, galvanized steel Z-girts (min. 20 ga.), or a continuous 3-dimensional membrane, in accordance with local Building Code requirements. To ensure proper installation and meet warranty requirements, refer to CCMC/ICCES evaluations for assembly requirements.
- When installing over rigid insulation, fasteners must penetrate through to the structural substrate.

5.3 Flashings & Penetrations

- Follow local codes for window, door, and penetration flashing.
- When using sealant, ChamClad® recommends LePage Quadmax or equivalent to ASTM 920.

5.4 Panel Trims and Notes

- ChamClad® patterns repeat approximately every 48” (1.2m). Mix boards to avoid pattern repetition.
- Classic tongue-and-groove system with product stacking from bottom.
- For a U-Channel profile, insert to the first stop. For a V-Groove profile tap to the next stop.

6.0 CARE & MAINTENANCE

- For full maintenance guidelines, refer to *Appendix D: Care & Maintenance Guide*
- Clean every 12–18 months (or 8–12 months in high exposure areas).
- Use mild detergent with soft cloth or brush.
- Maximum pressure wash: 1500 PSI.
- Do not use solvents or abrasive cleaners.

If you require further guidance or project-specific recommendations, contact engineering@chamclad.com



6" Soffit & Exterior Siding Toffee

CHAMCLAD® EXTERIOR SOFFIT


6" Soffit Toffee

6.0 TRADITIONAL SOFFIT PANEL SERIES

6.1 PRODUCTS- 4”, 6” and 12” Traditional Soffit Panel Series (3/8”)



4” Traditional
Solid Soffit Panel
12’ & 20’ Lengths
100mm x 10mm



6” Traditional
Solid Soffit Panel
12’, 16’ & 20’ Lengths
150mm x 10mm



4” & 6” Traditional Vented
Soffit Panel
12’ & 20’ Lengths
4” -100mm x 10mm
6”- 150mm x 10mm



12” Traditional Seamless
Soffit Panel
12’ & 20’ Lengths
300mm x 10mm

6” Classic and Shadowline Exterior Cladding - may be used in soffit application (venting supplied by others)
Refer to Exterior Cladding Install manual for ½” panel and trim details.

6.2 Exterior Soffit Trims (12’ & 20’ Lengths)



1PC Soffit/Interior
J-Trim 1.5” (PVC)



*2PC Soffit/Interior
J -Trim 1.5”



*2PC Soffit/Interior
Outside Corner Trim 1.5”



2PC Soffit/Interior
H-Trim 2” (PVC)



2PC Soffit/Interior
H-Trim 2.75” (ALUM.)

*THESE TRIMS ARE AVAILABLE IN ALL ALUMINUM, ALL PVC OR HYBRID COMBINATIONS

Metric Conversion Chart

Feet	Meters
10’	3m
12’	3.6m
16’	4.9m
20’	6.1m

Inches	Millimeters
1.5”	38mm
2”	50mm
2.75”	70mm

7.0 VENTILATION

- Provide adequate ventilation as per required Building Codes and/or regulations.
- When using our 12” Traditional Seamless Soffit Panels, venting must be supplied by others.
- Adequate soffit ventilation is critical — especially during warmer months. Without proper airflow, trapped air can lead to excessive heat build-up, resulting in soffit temperatures that exceed outdoor air temperatures, potentially impacting performance and longevity.

7.1 ChamClad® Soffit Ventilation Charts- Traditional Soffit

Product	Net Free Area (NFA)/ Panel - in^2
4” Soffit x 12’	14.66
4” Soffit x 20’	24.42
6” Soffit x 12’	14.66
6” Soffit x 16’	19.54
6” Soffit x 20’	24.42

	Ventilation (NFA)		
Type of Soffit	in^2 per Lineal Foot	in^2 per ft^2	% of opening per ft^2
4” Vented	1.22	3.67	2.54%
6” Vented	1.22	2.44	1.70%

- Our system demonstrates exceptional performance relative to its compact dimensions, with a narrow 4-inch and 6-inch width that still supports high airflow rates.

8.0 INSTALLATION - 4”, 6” and 12” Traditional Soffit Panel Series (3/8’’)

Refer to assembly drawings WS-12 and WS-15.

NOTE: 4”, 6” and 12” X 3/8” soffit panels
may NOT be used in exterior WALL application as improper use will VOID WARRANTY.

- Verify that soffit substrate is even and level across all surfaces. Applicators may need to install shims to achieve a consistent surface to attach the soffit panels to.
- Attach soffit panels at 12”- 16” (300mm-400mm) using ChamClad® universal screws. If the eave span is greater than 16” (400mm), additional blocking must be installed at 12”-16” (300mm-400mm) O.C. In high wind or heat areas all soffit panels must be fastened 12” (300mm) O.C. and trims 8” (200mm) O.C.
- On exterior soffit installations maintain the proper expansion/contraction distance from the end of the board and the required accessory **Refer to 5.1 Rules of Thumbs – Gap Allowance OR Appendix C – Gap Reference Chart**
- It is recommended to use ChamClad® universal screws. Please allow for a 1/32” (.8mm) gap from the fastener head to the nail flange.
- Always begin installation with a solid soffit panel. First panel, you must rip down nose to tuck inside the 2PC J- Trims and allow for a gap.
- Do not forcefully press panels together during installation to avoid cupping and allow for movement. Do not over torque screws when installing soffit.
- Always verify local building code requirements.
- Depending on the design of the soffit, traditional soffit panels may be installed parallel or perpendicular to the exterior walls. It is important that each panel be fastened at every joist or rafter every 12”-16” (300mm-400mm) O.C. using ChamClad® universal screws. Install additional courses and check alignment to either side of the line.
- ChamClad® does not recommend installing products at -10°C (14°F)
- Allow the product to be acclimated for a minimum of 24 hours before installing. **Refer to 5.1 Rules of Thumbs – Gap Allowance OR Appendix C – Gap Reference Chart**
- Where more than one soffit length is needed, an H-Trim is required to cover the expansion/contraction gap. DO NOT BUTT JOINT PANELS.
- Please note 2PC trims require solid backing and be fastened every 8-12” (200mm-300mm) O.C.
- All 2PC trims must have equal length base and top to support the trim top and ensure full length engagement. Install all 2PC trim tops using a deadblow hammer
- When installing the final panel, back-beveling the full length may make installation easier. Nail slots must be added manually.

ChamClad Heater Compatibility – Technical Reference

This document outlines approved and non-approved heater types for use with **ChamClad PVC soffit systems**. Approval is based on manufacturer-published data, internal evaluation, and known performance limits of PVC materials when installed in accordance with ChamClad installation requirements.

Approved – Electric Infrared Heaters

Electric **infrared** heaters are approved for use with ChamClad PVC soffit systems **when installed in accordance with heater manufacturer instructions and all published clearance-to-combustible requirements**.

Approved Models

Infratech® Electric Infrared Heaters
Preferred option. Infratech heaters typically operate at lower surface temperatures and are well-suited to flush or recessed installations when installed per manufacturer instructions.

Bromic Platinum Smart-Heat™ Electric
Approved **only** when:

- Installed using the **Low-Clearance Recess Kit**, **or**
- Manufacturer-published clearances to combustible materials can be fully maintained.

Approval is based on manufacturer-published surface temperature limits (approximately **65 °C above ambient**) and internal validation confirming PVC tolerance **.**

Conditionally Approved – Clearance Dependent

The following electric heaters may be permitted **only after project-specific review and clearance verification**:
Bromic Platinum Smart-Heat™ Electric (standard surface mount)

Bromic Tungsten Smart-Heat™ Electric

⚠️ *Note:* Flush-mounted or tight soffit installations may **not** be feasible with these heaters unless a compliant low-clearance recessed system is used and all combustible clearance requirements are met.

Not Approved – Gas or Combustion Heaters

- **Gas-fired or propane heaters** are **not approved** for use with ChamClad PVC soffit systems.

Reasons include:

- Significantly higher and less predictable surface temperatures
- Combustion heat exposure
- Lack of compatibility testing with PVC materials

Installation Requirements (All Approved Installations)

- ChamClad PVC soffit panels **must be free to expand and contract**; rigid restraint is not permitted near heaters.
- **All required clearances to combustible materials must be maintained** at all times, per heater manufacturer instructions.
- **No insulation may contact heaters or recessed heater cavities.**
- Installer is responsible for verifying heater model, mounting method, and clearances prior to installation.

Important: This document does not replace heater manufacturer installation instructions or local code requirements. Where conflicts occur, the most restrictive requirement shall govern.

9.0 6” QUICK CLICK SHADOWLINE ½”

9.1 PRODUCTS - 6” Quick Click Shadowline Soffit 1/2”



6” Quick Click Shadowline Soffit 1/2”
12’, 16’ & 20’ lengths

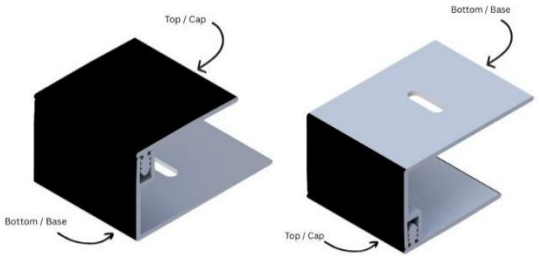


Quick Click Aluminum Track Connector
Length 4.7” (119mm) Width 1.38” (35mm)
Height 0.6” (15.24mm)

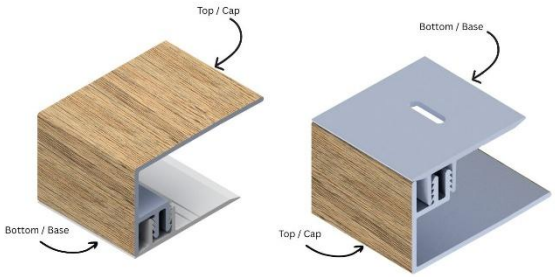
1



Quick Click Aluminum Track
12’ x 1.5” (3m x 38mm)



2PC Quick Click Soffit J-Trim 1.5” Standard Black
12’ & 20’ lengths
Available in Aluminium Only
AAMA 2604- 15-year outdoor warranty



2PC Quick Click Soffit J-Trim 2” Laminated Version
12’ & 20’ lengths
Bottom/Base available in aluminium or PVC

9.2 Tools and Materials Required:

- Laser leveling devices and/or chalk line
- Hacksaw or Sawzall and/or Chopsaw
- Power Mitre Saw with a fine-tooth blade
- Standard Contractor’s tools
- Pop Rivets (1/8” x ¼” 3mm x 6mm) –Supplied by others (for Track Connector)
- Fasteners – ChamClad® Universal Screws (1 ½” 38mm)
- 2PC Quick Click Aluminum J-Trim (Perimeter Trim) Standard Black and/or Laminated Version
- Quick Click Aluminum Track Connector (10 pc/bag)
- Quick Click Aluminum Track- 4pc/Bag
- 6” Quick Click Shadowline Soffit 1/2”- Hidden Vent

Metric Conversion Chart

Feet		Meters
10’		3m
12’		3.6m
16’		4.9m
20’		6.1m

Inches	Millimeters
1.5”	38mm
2”	50mm
2.75”	70mm

10.0 IMPORTANT INFORMATION

- Review all drawings applicable to the installation and predetermine the layout of the Quick Click track, trims and panels. To optimize yield and minimize waste, there may be various panel lengths incorporated into your project (please be sure to check panel location(s) on drawings and layout install plan accordingly)
- Review installation guidelines (below) completely and if you have any questions or require further clarification, please contact the ChamClad® Engineering Department at 1.780.454.4430 or email: engineering@chamclad.com
- It is critical that perimeter trims and tracks be aligned, level and square to ensure correct engagement of panels into track.
- For installations in areas with high wind loads, please contact us regarding engineering guidance. Our system is designed to handle wind loads of up to 97 MPH at a 24-inch spacing and 120 MPH at a 16-inch spacing.
- At all penetrations (pot light, recessed heaters, etc) ensure there is adequate room for panel expansion/ contraction.
- Should you need to remove a panel, use a glazing bar to pop out and then reinstall.
- Whenever possible, complete project with full panels.

11.0 VENTILATION

- Ventilation is essential for all soffit applications — always ensure compliance with local building codes.
- ChamClad® Quick Click Soffit System features a built-in, concealed venting on *every panel*, ensuring consistent airflow throughout the entire soffit installation.
- Designed with hidden vent strips, maintaining a clean, modern look while maximizing airflow efficiency.
- Offers a balanced combination of aesthetics, coverage, and ventilation performance, making it an ideal solution for projects prioritizing both form and function.

11.1 ChamClad® Soffit Ventilation Charts- 6” Quick Click

Product	Net Free Area (NFA)/ Panel- in^2
6”QC Shadowline Soffit x 12’	13.03
6”QC Shadowline Soffit x 16’	17.37
6”QC Shadowline Soffit x 20’	21.71

Ventilation		
in^2 per Lineal Foot	in^2 per ft^2	% of opening per ft^2
1.08	2.17	1.51 %

- Our system demonstrates exceptional performance relative to its compact dimensions, with a narrow 6-inch width that still supports high airflow rates.

12.0 INSTALLATION- 6” Quick Click Shadowline Soffit ½” - Perpendicular

Refer to Guide Layout and Drawing Assemblies CD-02, CD-03, CD-04 for additional information.

12.1 Plan the Layout:

- Plan the soffit layout carefully, as panels cannot be butt joined. Use two 2PC J-Trims back-to-back (functioning as an H-trim) for extended runs and corners. Fasten J-Trim to a structural member, or install blocking if solid backing is not present.
- Note: If panels are over 24” in length, you must install larger faced trims (3.5”) and ensure adequate blocking.

12.2 Install J-Trim:

Option 1: 2PC Quick Click Soffit J-Trim 1.5” (Standard Black)

- Install the base of the 2PC J-Trim around the soffit perimeter, ensuring it is level on all sides. For end walls, install the trim level with the track to align the soffit
- Fasten 2PC J-Trim with ChamClad® universal screws every 24” (600mm) ensuring the J-Trim is fastened to the structural framing. If not possible, J-Trims require backing.



Option 1- Base of 2PC J-Trim install into structural framing



Option 2 -Base of 2PC J-Trim install into wood backing

Option 2: 2PC Quick Click Soffit J-Trim 2” (Laminated Version)

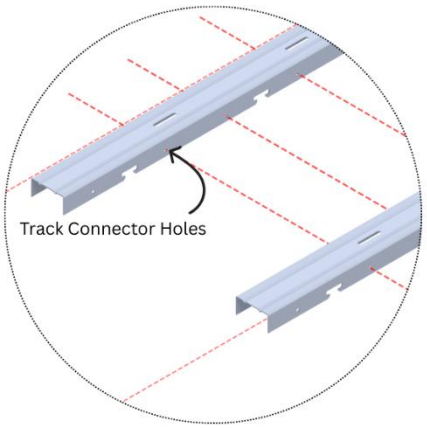
- Install the base of the 2PC J-Trim around the soffit perimeter, ensuring it is level on all sides. For end walls, install the trim level with the track to align the soffit
- Fasten 2PC J-Trim with ChamClad® universal screws every 24” (600mm) ensuring the J-Trim is fastened to require backing. (NOTE: Laminated Version J- Trim does not have a nail rail on structural support side and must be installed on blocking as shown below)

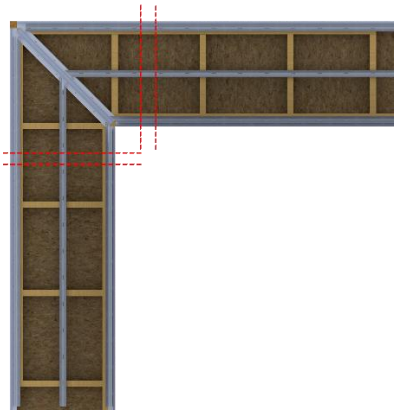


Base of 2PC J-Trim install into wood backing

12.3 Install QC Track:

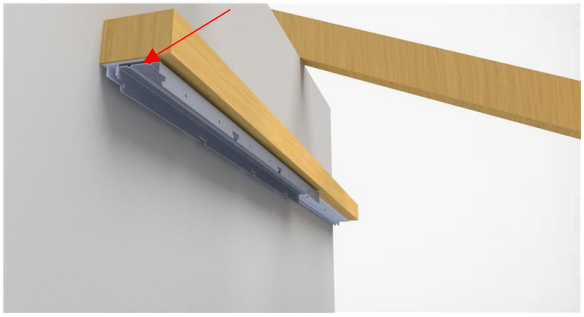
- **Plan and install your track layout:**
  - Begin by establishing a straight reference line for the initial track using a laser level or string line, then install the aluminum track inside the J-Trim at the structure side. **NOTE:** The reference line may not be exactly parallel to the wall, roof edge, etc., due to potential framing deviations.
  - Measure the appropriate distance for the subsequent tracks (maximum 24" on center) and mark this position with a laser or string line, ensuring it remains parallel to the first track.
  - To confirm that all tracks are square to each other and facilitate correct panel engagement, verify alignment with a laser level placed through the track connector holes only. **NOTE:** Do not utilize the first hole at either end of the track for leveling purposes.





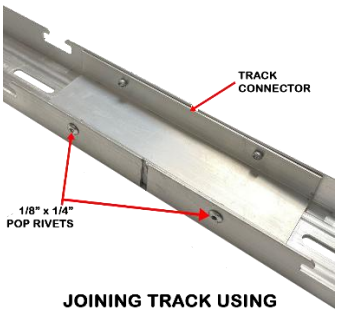
- Track Spacing Information:
  - For spans up to a **max of 24" (600mm)** you must also install a track into the J-Trim at the fascia side/terminating wall.
  - For span **more than 24" (600mm) to a max up to 36" (900mm),** you must install a track at the fascia side/termination wall AND install a track down the centre and ensure the 2PC J- Trim is level so panels sit straight.
  - Refer to Track Spacing Guides for additional information.


Example of Option 1 with base trim and track

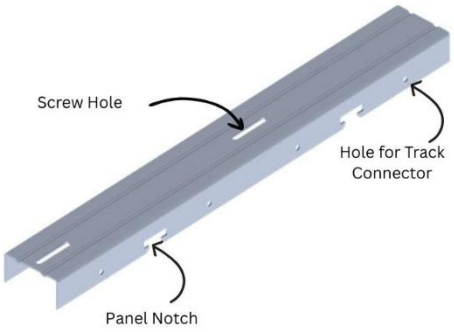

Example of Option 2 with base trim and tracks

- **IMPORTANT:** For both applications ensure the track is installed tight to the top of the base trim to ensure room for the panel and cap trim. It is wide enough to hold track and panels and will provide required additional support.

- At junctions between tracks, use a track connector to join two QC tracks with 1/8” x 1/4” pop rivets only.



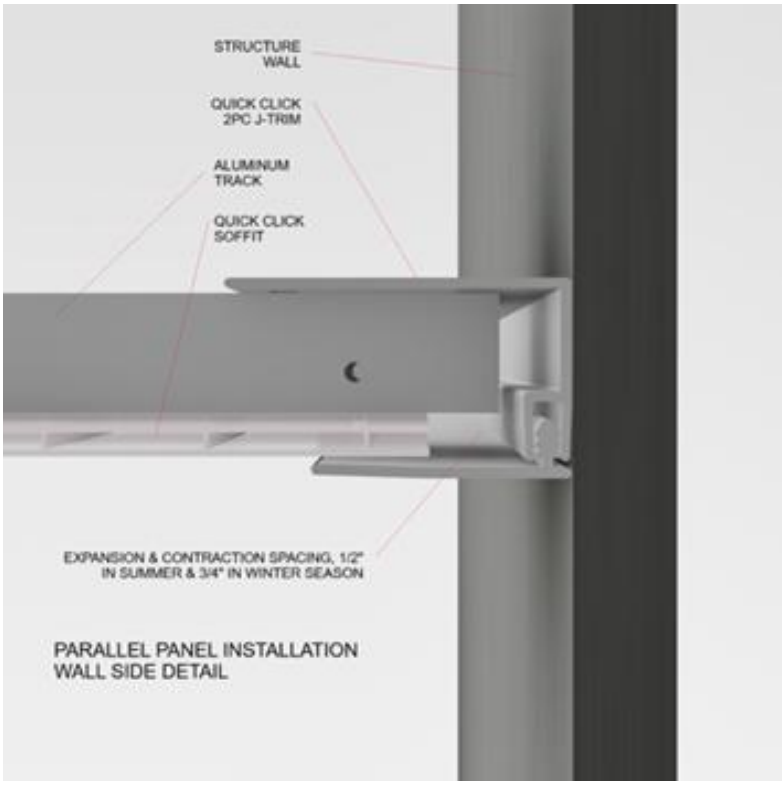
JOINING TRACK USING TRACK CONNECTOR



- Temporarily insert a panel into the notches to check alignment. A smooth and even fit confirms correct track alignment.

12.4 Install QC Panels:

- Leave an allowance on the ends for the panel to expand and contract. **Refer to 5.1 Rules of Thumbs – Gap Allowance OR Appendix C – Gap Reference Chart**



- NOTE: To install the first panel, you may need to cut it so it fits into the track at the starting end (the fascia side is where you should start). The non-fin side must be the side you cut. <u>NEVER cut the fin side.</u>





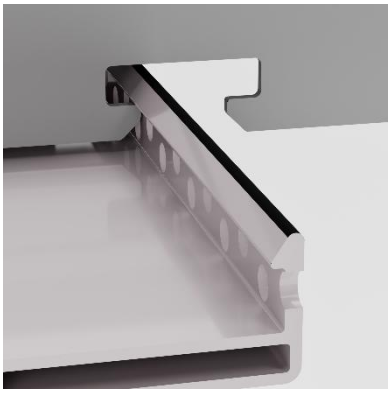
These illustrations are to show direction of panels. They do not show the starting end of panel installation.

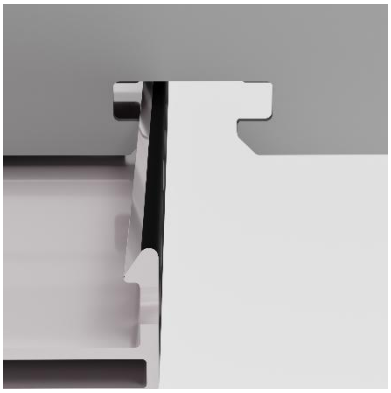
- Start installing the QC Panel with the fin side inserted first into the track



- Ensure the panel is fully engaged in the track before clicking in the next panel. Continue until all panels are installed.

NOTE: To ensure the panels are fully engage the metal edge must be secured under the lip of the panel as shown in the illustrations below. We recommend using a deadblow hammer to ensure they are fully engaged.





- Whenever possible, complete the project using full panels. If ripping a panel is necessary, cut the panel using a power saw with a fine-tooth blade.
- Panels CANNOT be butt joined. Use two QC J-Trims back-to-back on solid backing (functioning as an H-trim) for extended runs and corners.



12.5 Install J-Trim Cap:

- Install J-Trim cap at all J-Trim Base locations. Use a deadblow hammer to install caps. Ensure caps are fully engaged and fit snuggly in the base.

Option 1: 2PC Quick Click Soffit J-Trim 1.5” (Standard Black)





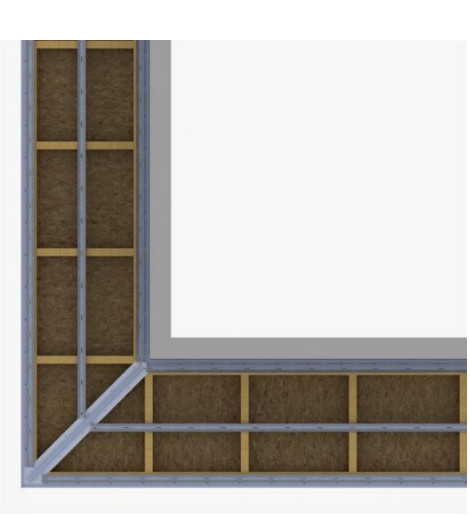
Option 2: 2PC Quick Click Soffit J-Trim 2” (Laminated Version)





12.6 Corner Condition Details:

- At corner locations, use the following method to ensures a clean and professional finish for your soffit installation.
- Install base QC J-Trim and Track at perimeter with mitred corners. Install two QC J-Trims back-to-back at corner location (functioning as an H-Trim)
- After panel installation, install cap trims at all locations and mitre at corners.



Mitred Corner Detail



2PC J- Trim, back-to-back on blocking

13.0 INSTALLATION- 6” Quick Click Soffit ½” - Parallel

Refer to Guide Layout and Details CD-01 & CD-05 for additional information.

13.1 Plan the Layout:

- Plan the soffit layout carefully, as panels cannot be butt joined. Use two 2PC QC J- Trims back-to-back (functioning as an H trim) for extended runs and corners. Fasten J-Trim into structural member. If not possible, J- Trims require backing.

13.2 Install J-Trim Base:

Option 1: 2PC Quick Click Soffit J-Trim 1.5” (Standard Black)

- Install the base of the 2PC J-Trim around the soffit perimeter, ensuring it is level on all sides. For end walls, install the trim level with the track to align the soffit
- Fasten 2PC J-Trim with ChamClad® universal screws every 24” (600mm) ensuring the J-Trim is fastened to the structural framing. If not possible, J-Trims require backing.



Option 1- Base of 2PC J-Trim install into structural framing



Option 2 -Base of 2PC J-Trim install into wood backing

Option 2: 2PC Quick Click Soffit J-Trim 2” (Laminated Version)

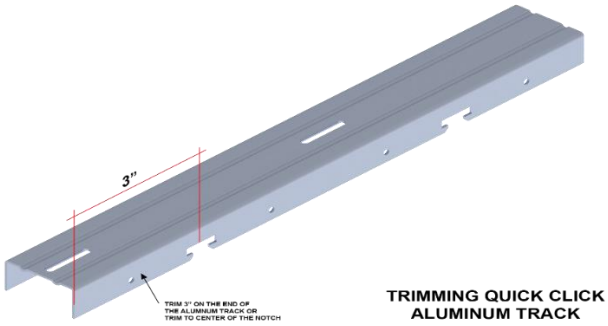
- Install the base of the 2PC J-Trim around the soffit perimeter, ensuring it is level on all sides. For end walls, install the trim level with the track to align the soffit
- Fasten 2PC J-Trim with ChamClad® universal screws every 24” (600mm) ensuring the J-Trim is fastened to require backing. (NOTE: Laminated Version J- Trim does not have a nail rail on structural support side and must be installed on blocking as shown below)



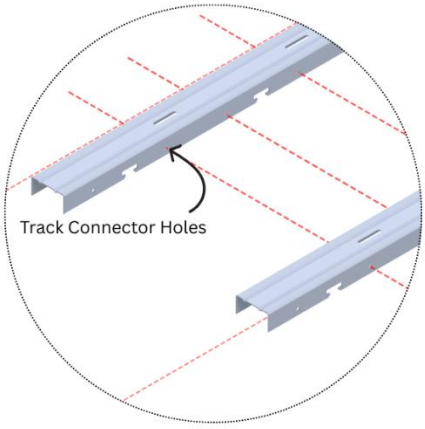
Base of 2PC J-Trim install into wood backing

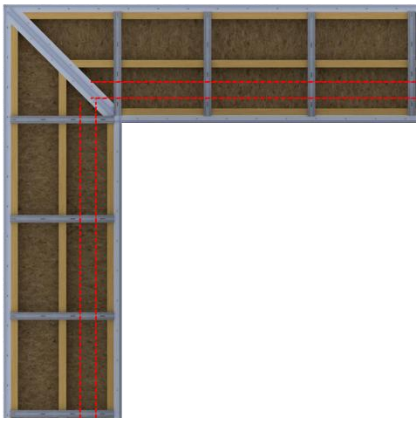
13.3 Install QC Track:

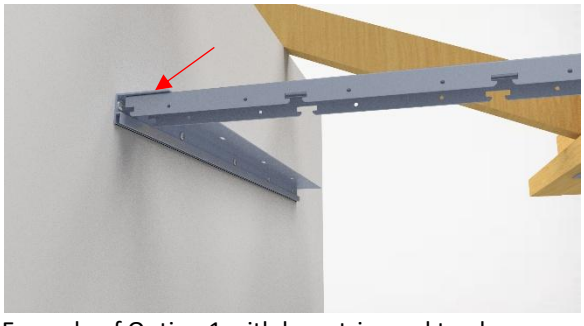
- Prior to installation, trim the track by 3” (76mm). This will give full coverage when the cap of the J-Trim is installed.



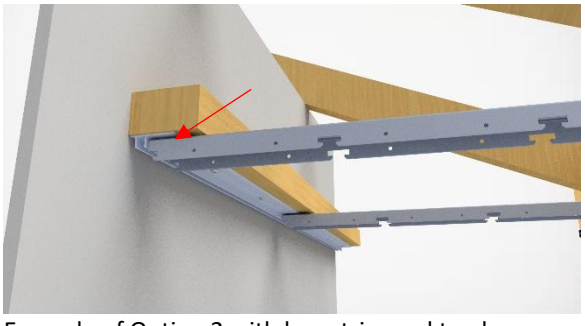
- **Plan and install your track layout:**
  - Begin by establishing a straight reference line for the initial track using a laser level or string line, then install the aluminum track. **NOTE:** The reference line may not be exactly parallel to the wall, roof edge, etc., due to potential framing deviations.
  - Measure the appropriate distance for the subsequent tracks (maximum 24" on center) and mark this position with a laser or string line, ensuring it remains parallel to the first track.
  - To confirm that all tracks are square to each other and facilitate correct panel engagement, verify alignment with a laser level placed through the track connector holes only. **NOTE:** Do not utilize the first hole at either end of the track for leveling purposes.





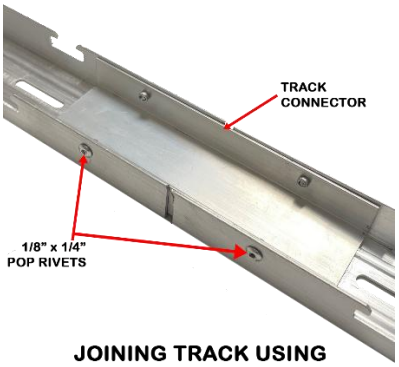


Example of Option 1 with base trim and track

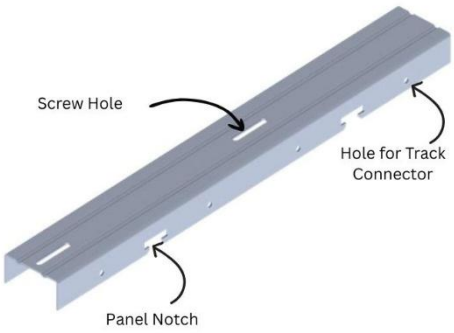


Example of Option 2 with base trim and tracks

- **IMPORTANT:** For both applications ensure the track is installed tight to the top of the base trim to ensure room for the panel and cap trim. It is wide enough to hold track and panels and will provide required additional support.
- At junctions between tracks, use a track connector to join two QC tracks with 1/8” x 1/4” pop rivets only.



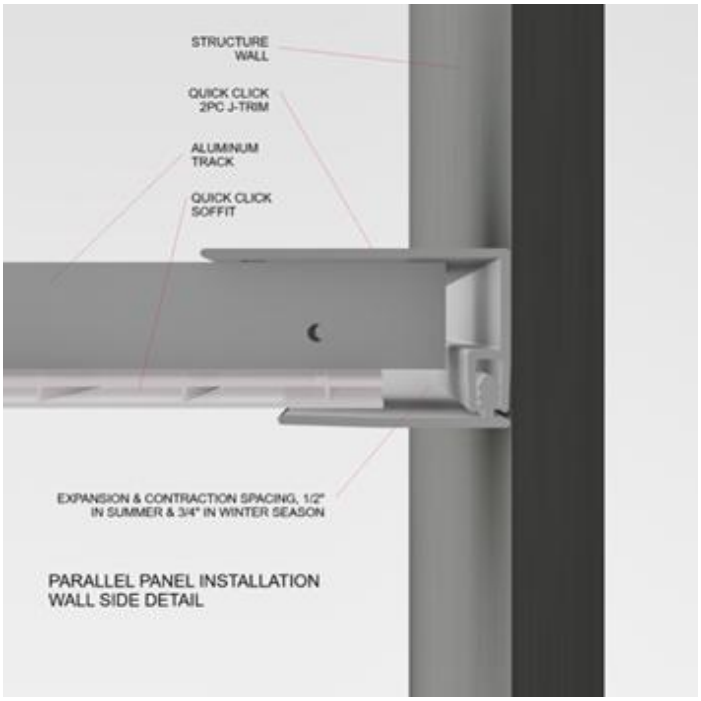
JOINING TRACK USING TRACK CONNECTOR



- Temporarily insert a panel into the notches to check alignment. A smooth and even fit confirms correct track alignment.

13.4 Install QC Panels:

- Leave an allowance on the ends for the panel to expand and contract. Typical allowance is 1/2” (13mm) in summer and 5/8” (15mm) in winter for up to 20’ (6.1m) lengths.



- **Always start install with a full-size panel at structure side** and finish with ripped panel at fascia side if necessary.



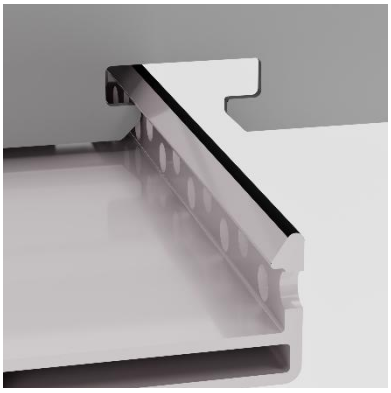


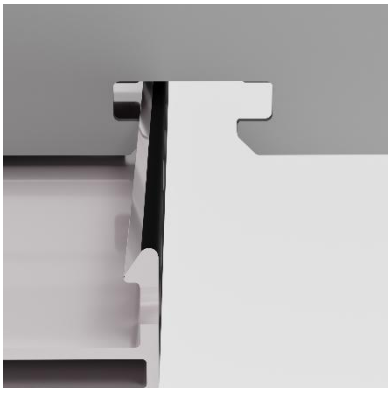
Install the QC panel with the fin side inserted first into the track.



- Ensure the panel is fully engaged in the track before clicking in the next panel. Continue until all panels are installed.

NOTE: To ensure the panels are fully engaged the metal edge must be secured under the lip of the panel as shown in the illustrations below. We recommend using a deadblow hammer to ensure they are fully engaged.





- Whenever possible, complete the project using full panels. If ripping a panel is necessary, cut the panel using a power saw with a fine-tooth blade.
- Panels CANNOT be butt joined. Use two QC J-Trims back-to-back on solid backing (functioning as an H-trim) for extended runs and corners.

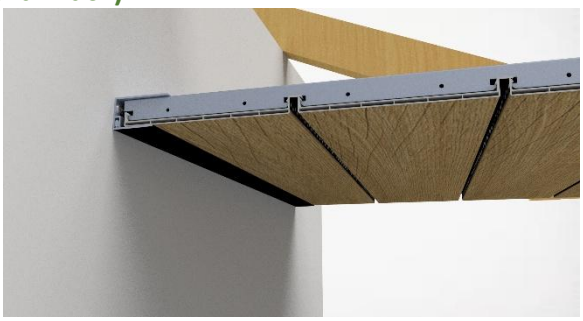


13.5 Install J-Trim Cap:

- Install J-Trim cap at all J-Trim Base locations. Use a deadblow hammer to install caps. Ensure caps are fully engaged and fit snuggly in the base.

Option 1: 2PC Quick Click Soffit J-Trim 1.5” (Standard Black)





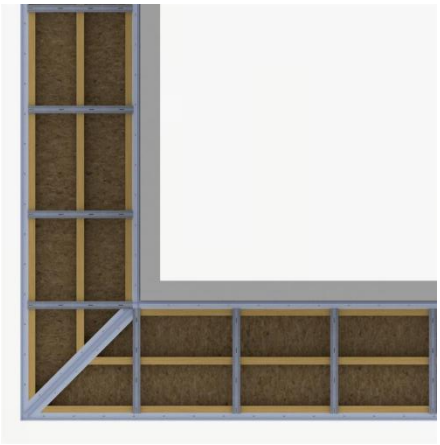
Option 2: 2PC Quick Click Soffit J-Trim 2” (Laminated Version)





13.6 Corner Condition Details:

- At corner locations, use the following method to ensures a clean and professional finish for your soffit installation.
- Install base QC J-Trim and Track at perimeter with mitred corners. Install two QC J-Trims back-to-back at corner location (functioning as an H-Trim)
- After panel installation, install cap trims at all locations and mitre at corners.



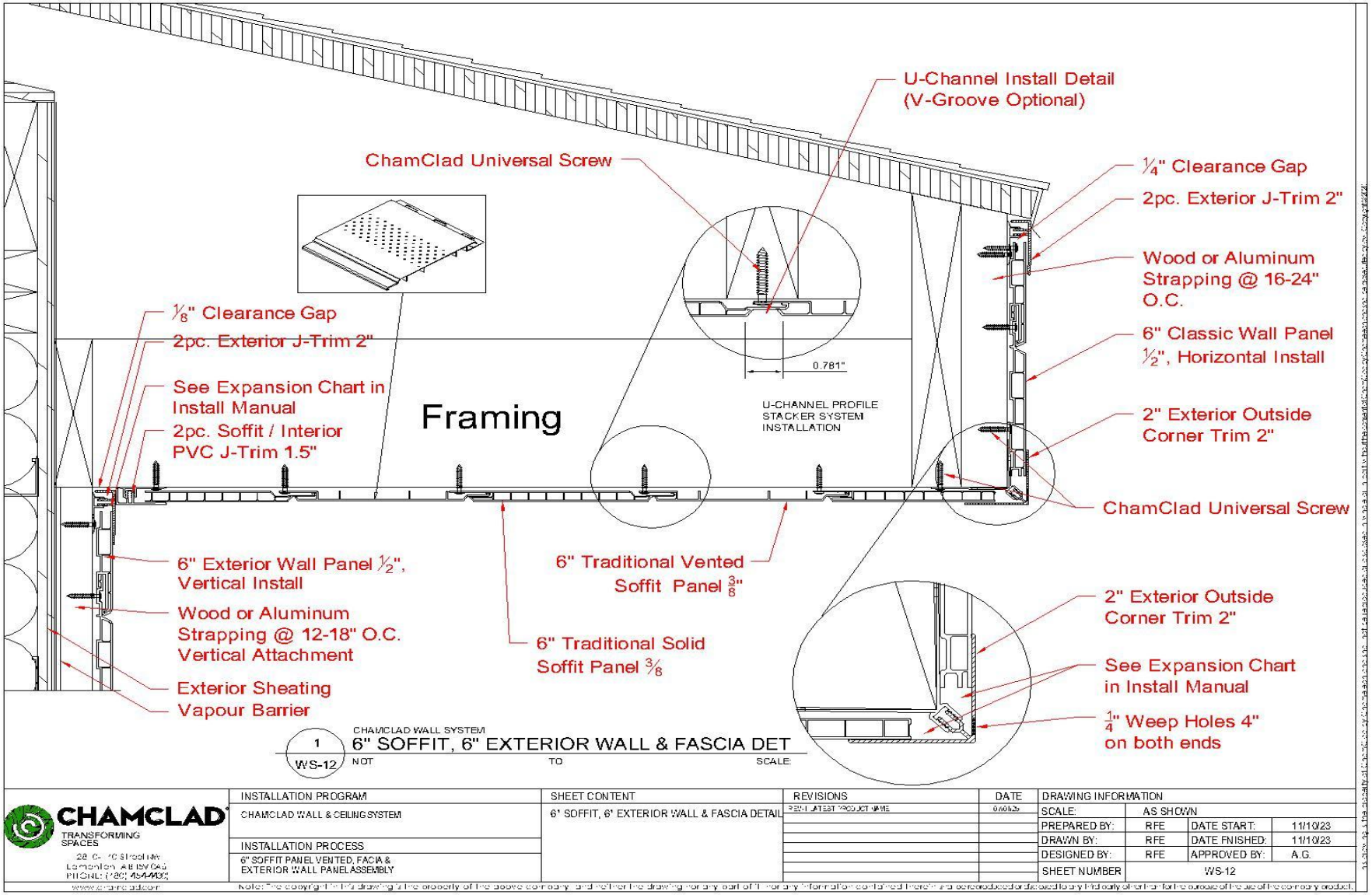
Mitred Corner Detail



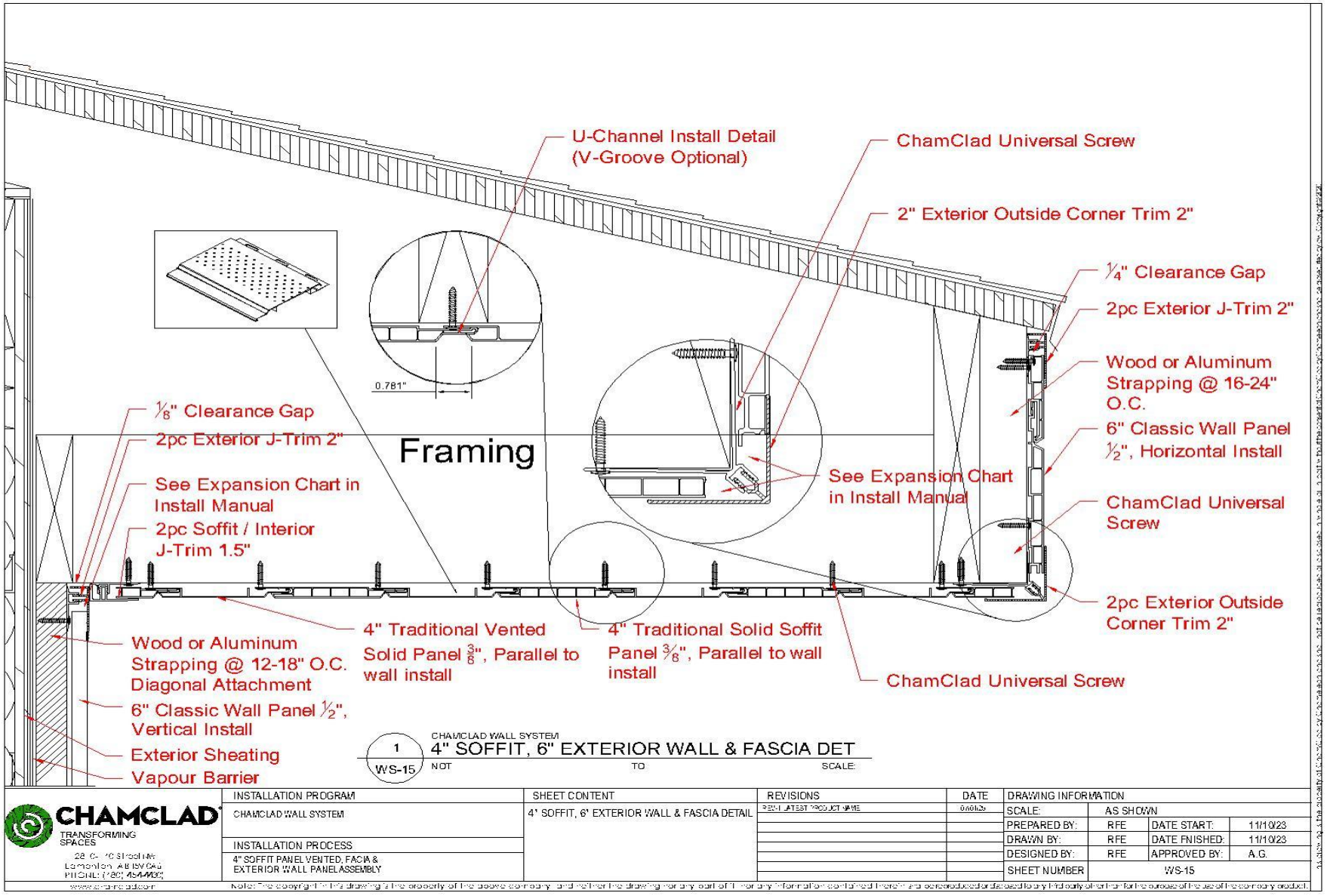
2PC J- Trim, back-to-back on blocking

14.0 ASSEMBLY DRAWINGS

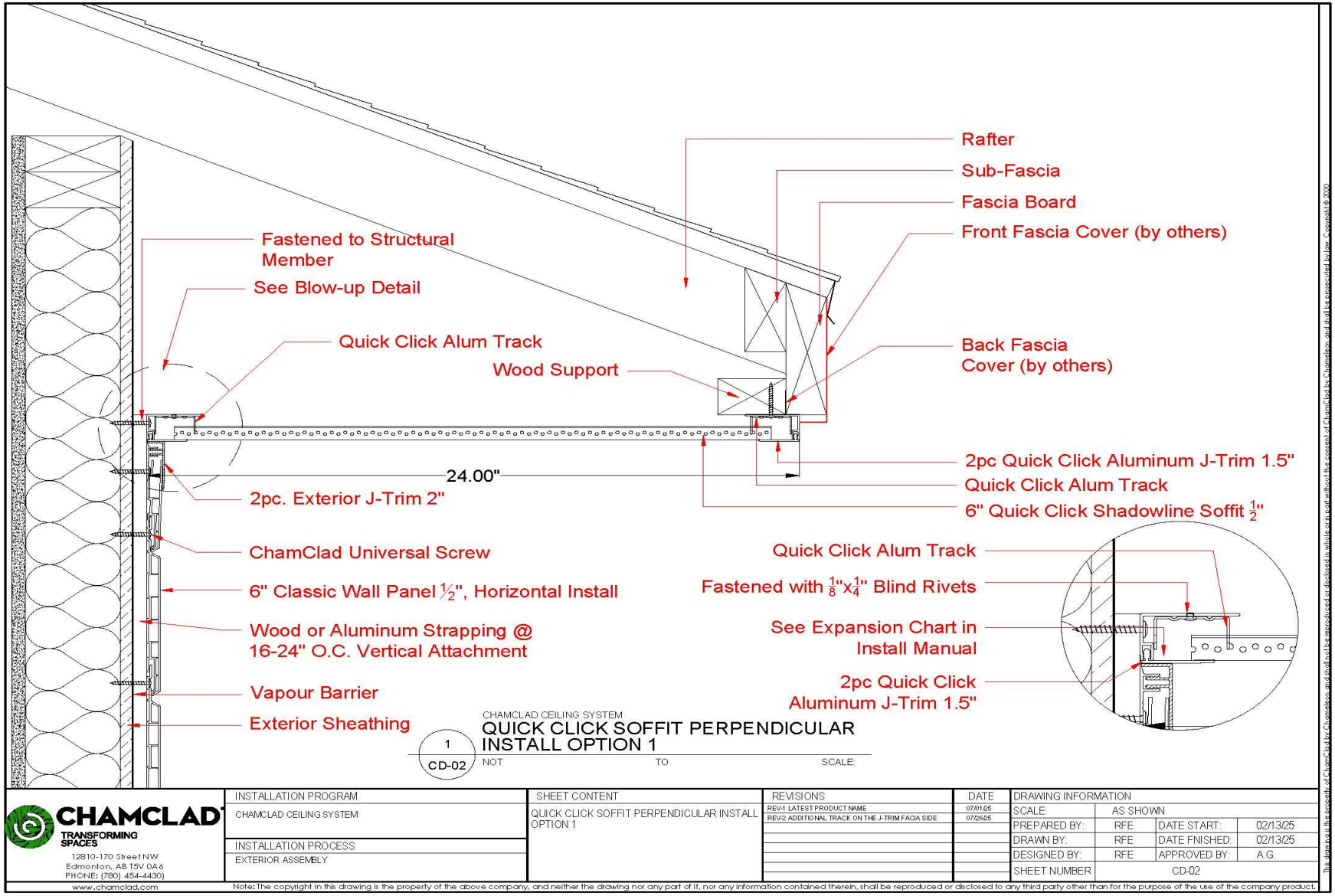
15.1 WS-12 6” Soffit, 6” Exterior Wall & Fascia Detail



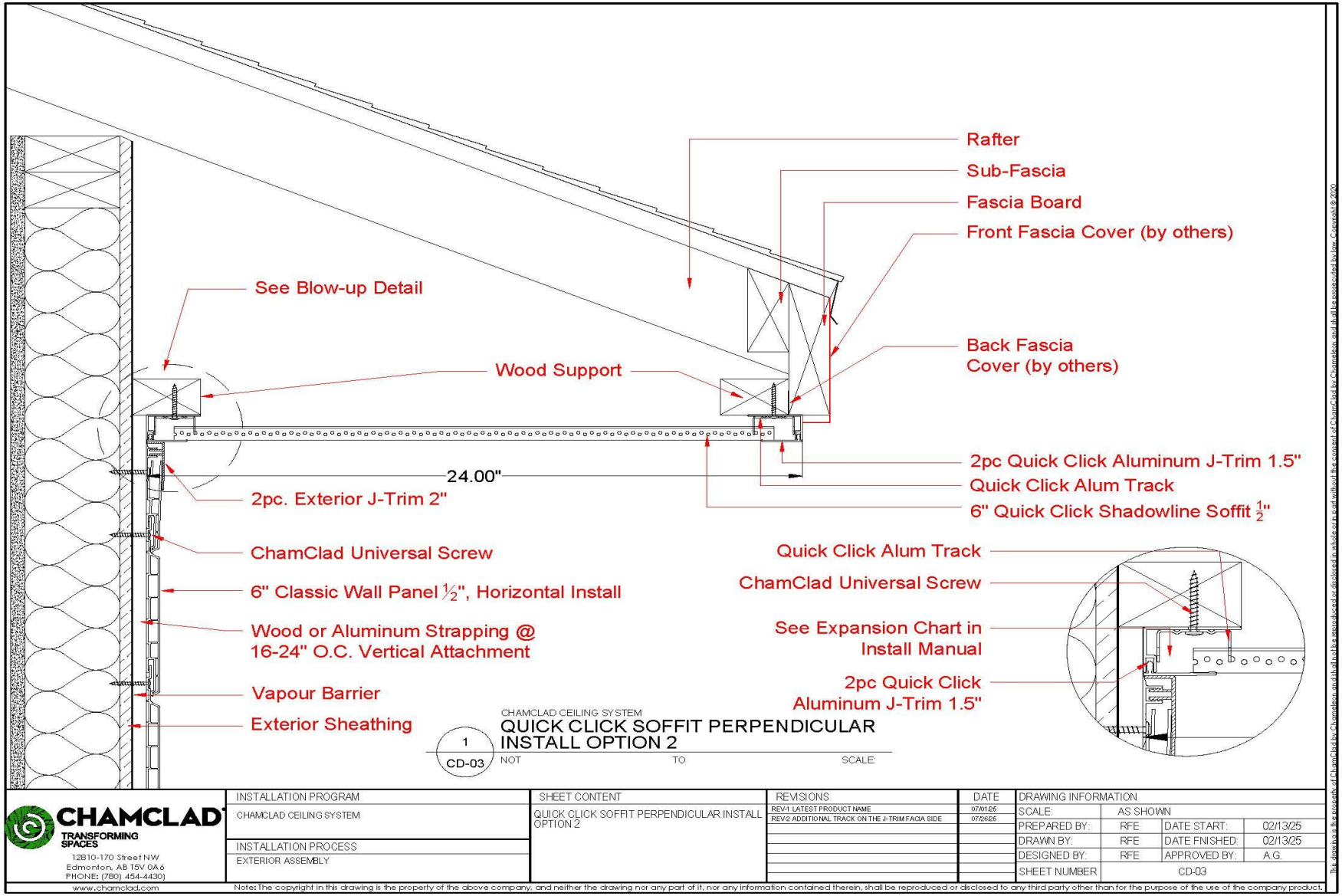
15.2 WS-15 4” Soffit, 6” Exterior Wall & Fascia Detail



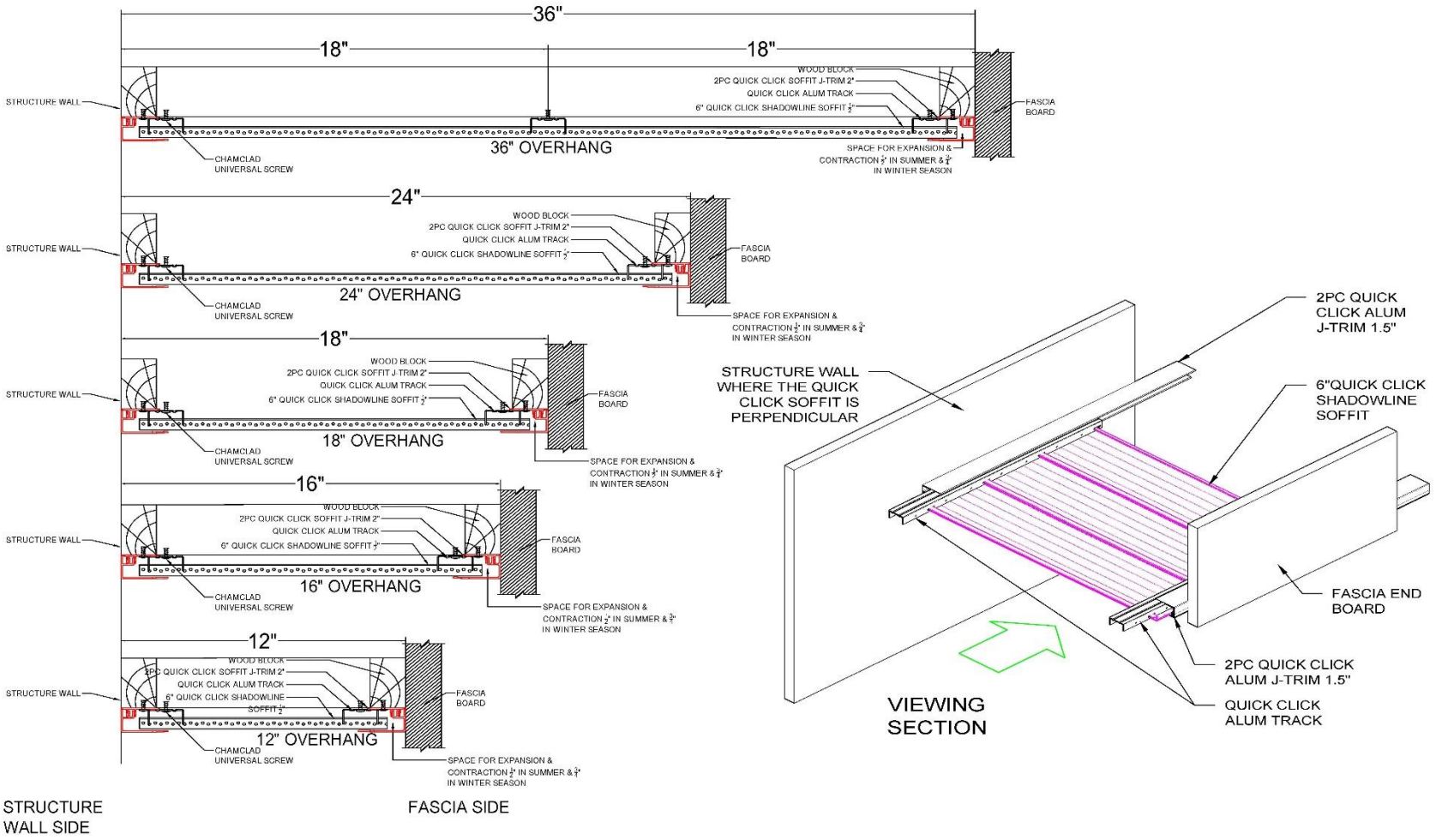
15.3 CD-02 Quick Click Soffit Perpendicular Install- Option 1



15.4 CD-03 Quick Click Soffit Perpendicular Install- Option 2

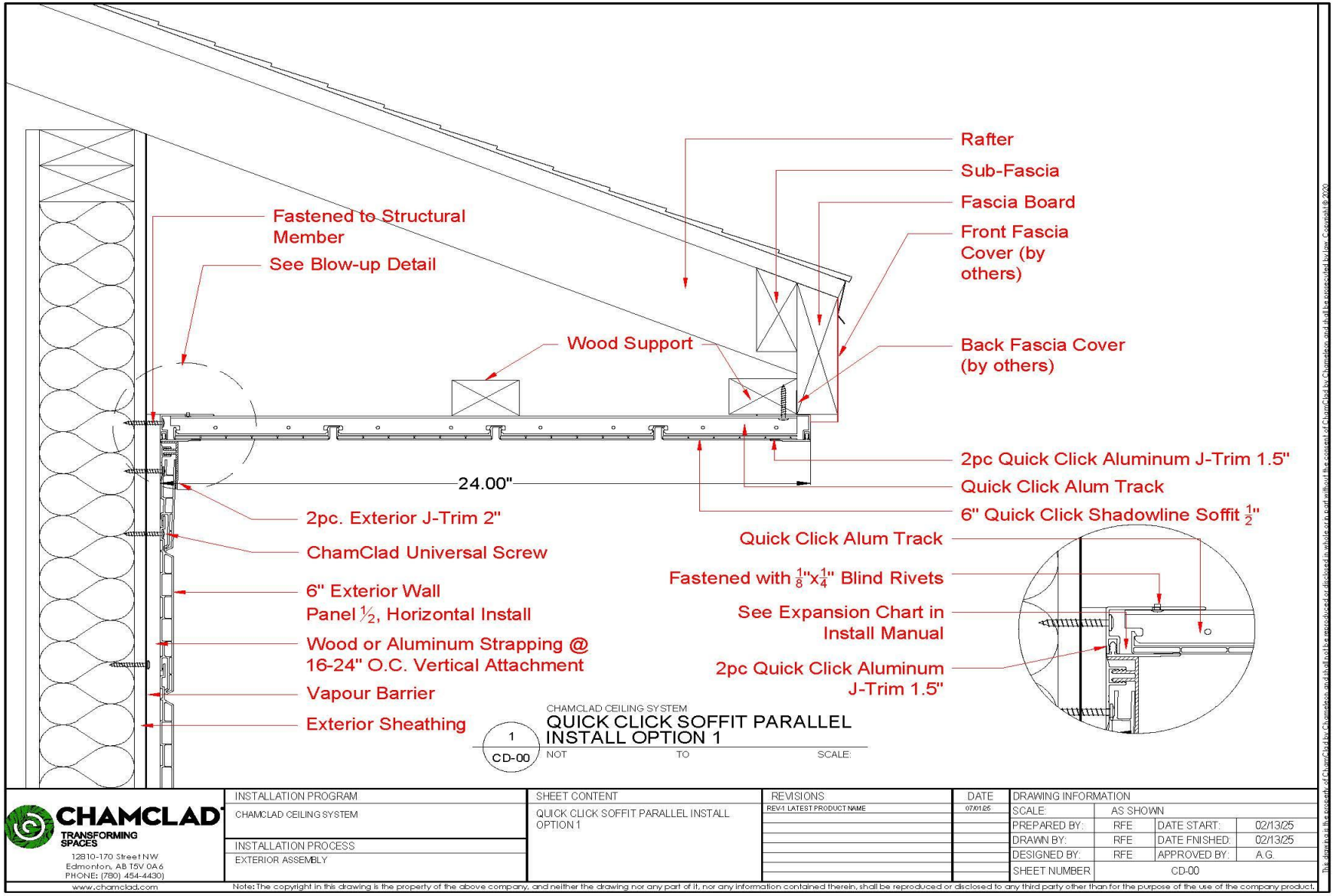


15.5 Quick Click Track Spacing on Perpendicular to the Wall

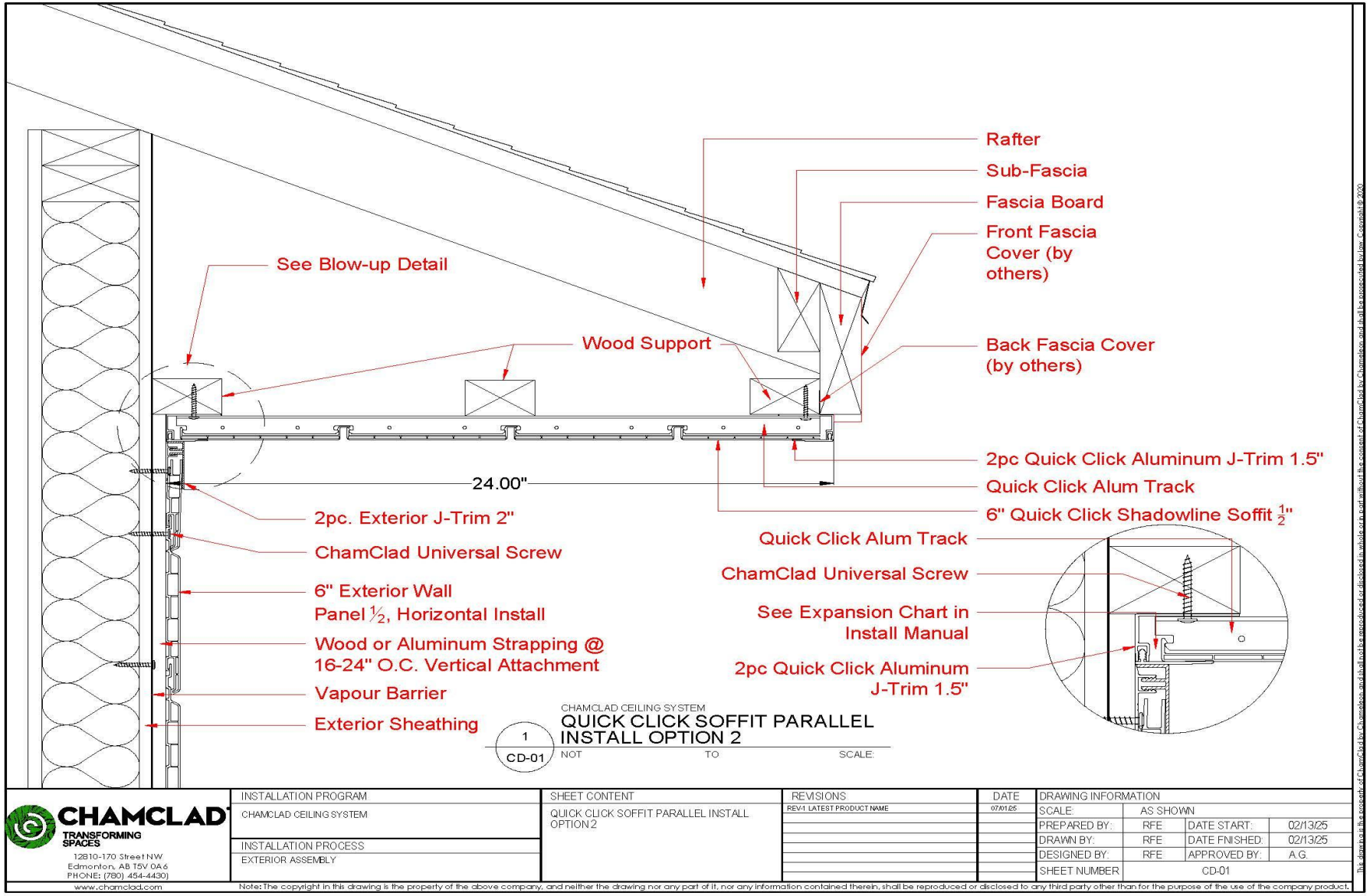


QUICK CLICK TRACK SPACING GUIDE ON PERPENDICULAR TO THE WALL SOFFIT PANEL INSTALL

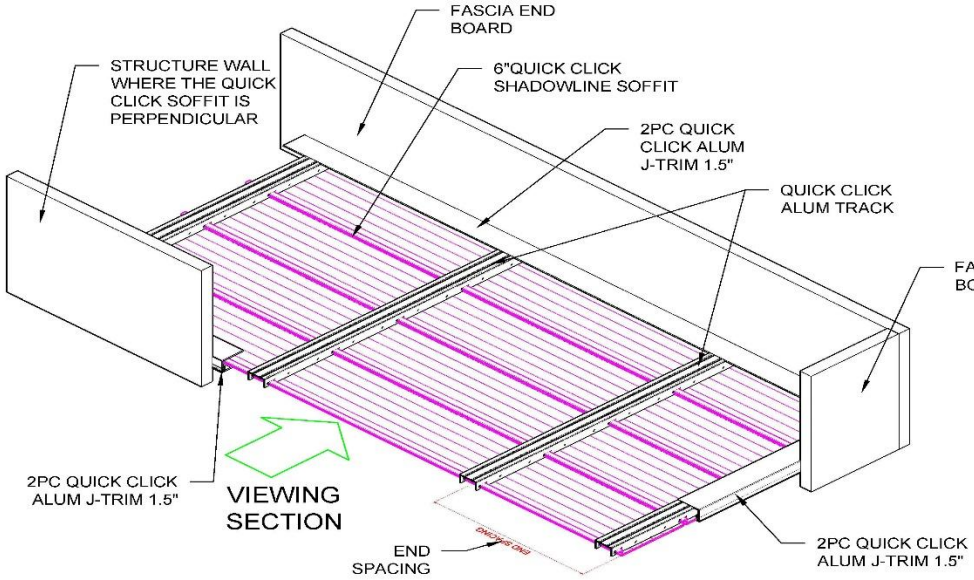
15.6 CD-00 Quick Click Soffit Parallel Install Option 1

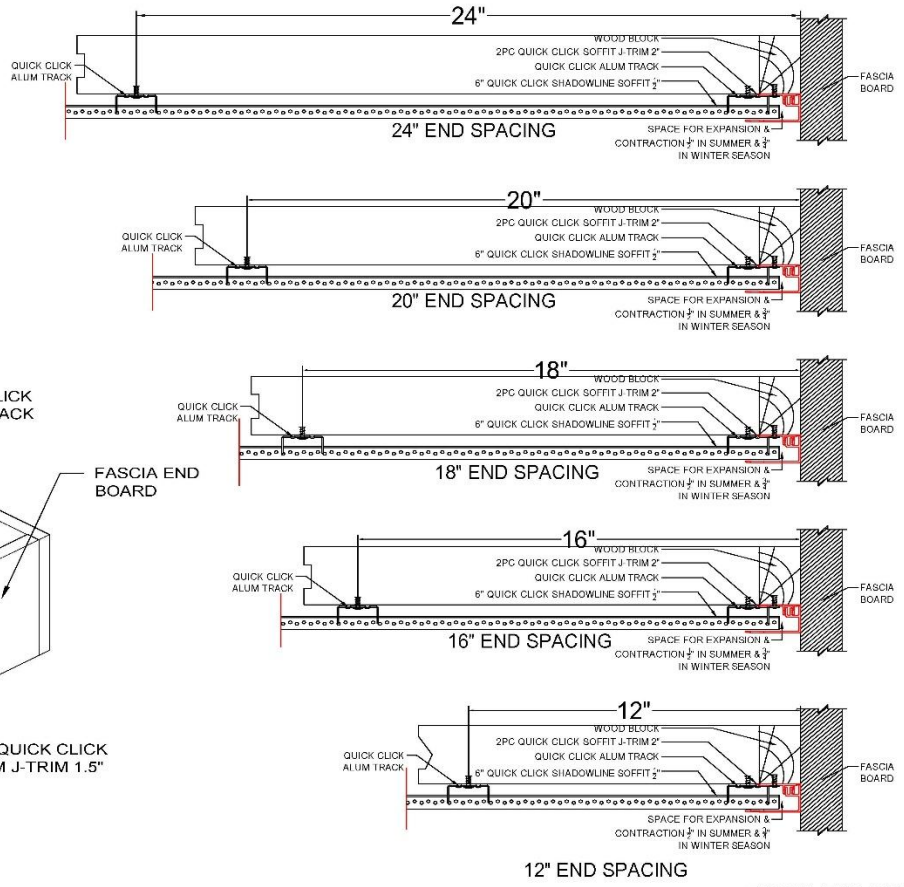


15.7 CD-01 Quick Click Soffit Parallel Install Option 2



15.8 Quick Click Soffit Track Spacing Guide on Parallel to the Wall Soffit Panel Install

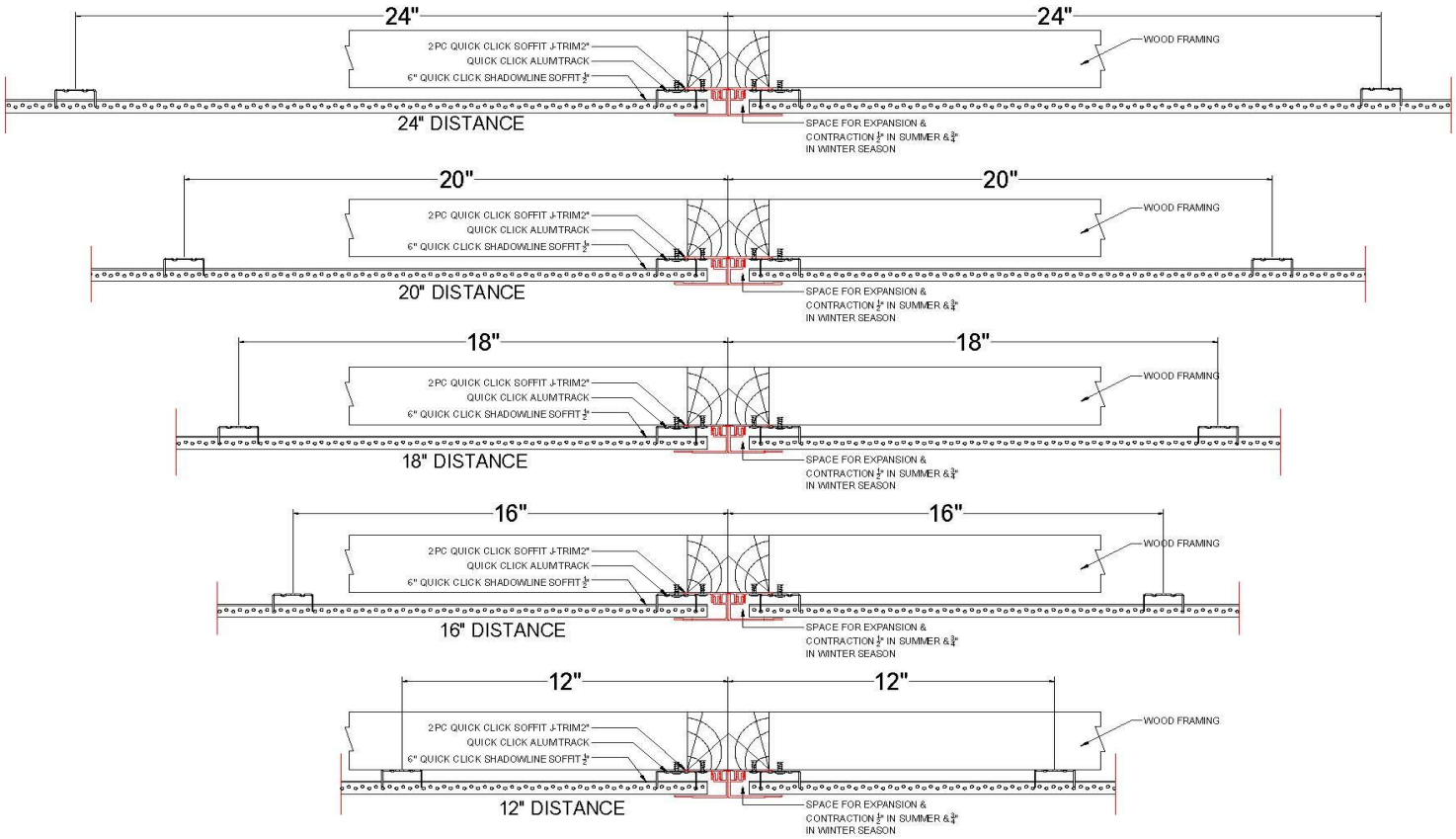




FASCIA END SIDE

QUICK CLICK TRACK SPACING GUIDE ON PARALLEL TO THE WALL SOFFIT PANEL INSTALL

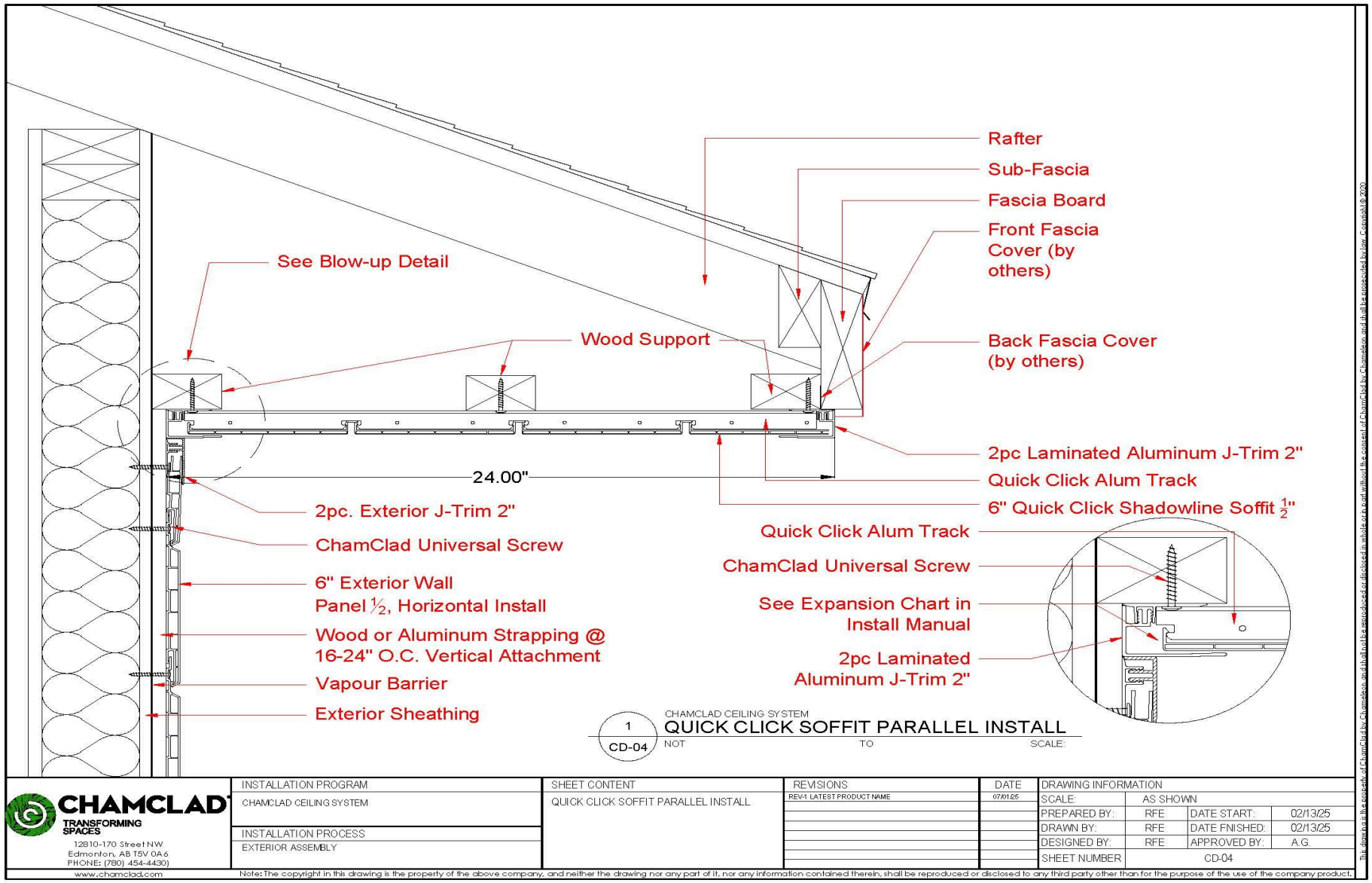
15.9 Quick Click Soffit Track Spacing Guide on Parallel to the Wall Soffit Panel with H-Trim Install



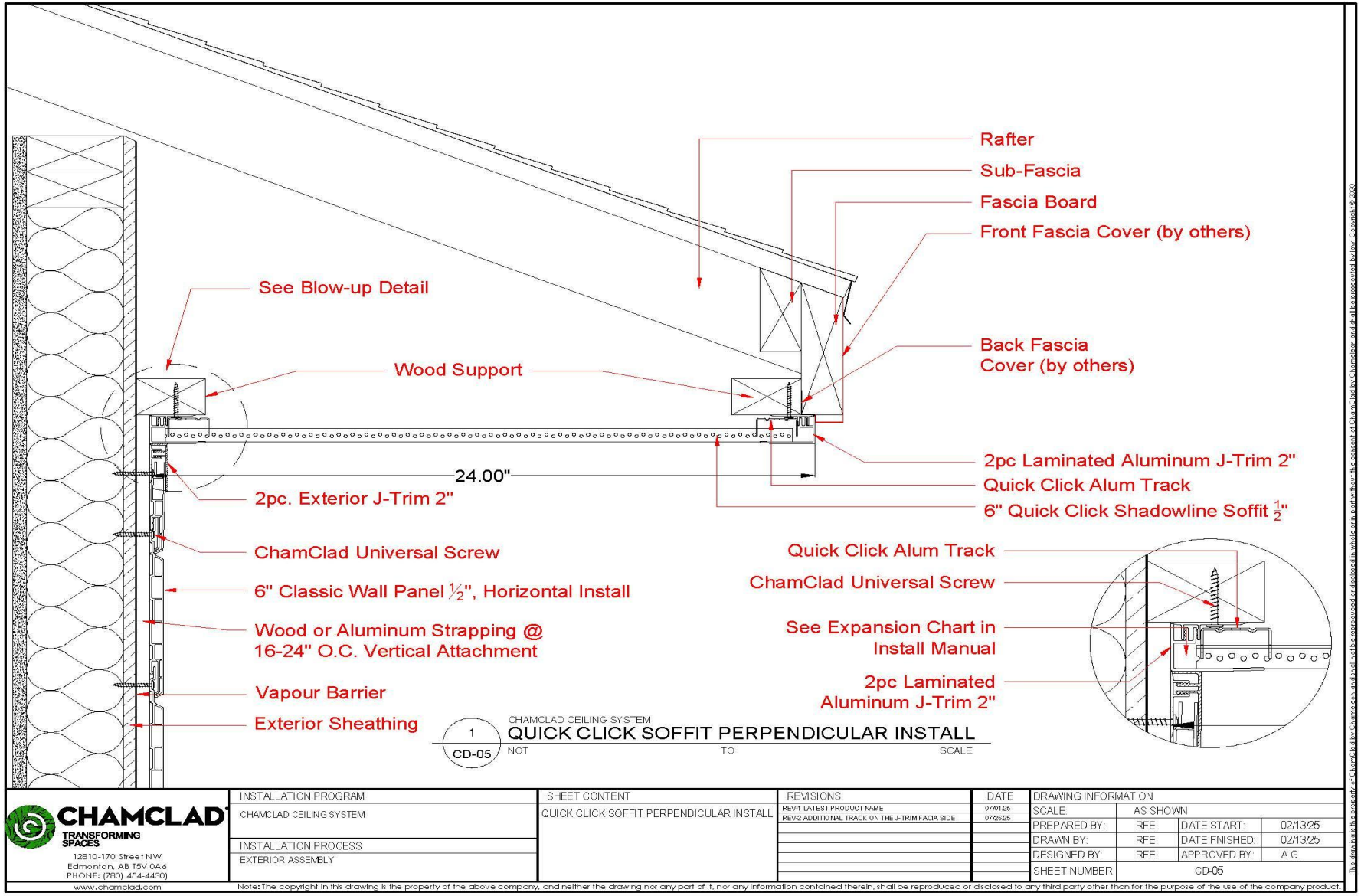
2 J-TRIM AS H-TRIM

QUICK CLICK TRACK SPACING GUIDE ON PARALLEL TO THE WALL SOFFIT PANEL WITH H-TRIM INSTALL

15.10 CD-04 Quick Click Soffit Parallel Installation – Laminated Version



15.11 CD-05 Quick Click Soffit Perpendicular Installation – Laminated Version



APPENDIX A – GENERAL INFORMATION & ADVISORY

This bulletin provides non-procedural information that supports—but does not replace—the Installation Manual. It covers certifications, product behavior notes, storage compatibility, and code responsibilities.

Certifications

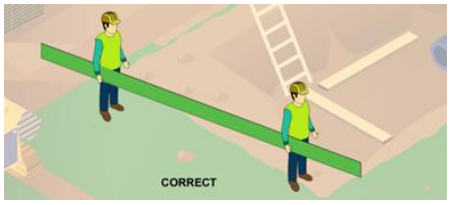
Certification scope, test standards, and applicability vary by profile and application. Always verify current evaluation reports and project-specific requirements.

Product Background & Manufacturing Notes

- **Continuous improvement**: Our research and development team are committed to improving product durability and performance. As a result, documentation may change from time to time. Please check our website for the most recent documentation and bulletins.
- **Minor manufacturing irregularities**: Occasionally, you may come across minor irregularities that happen naturally during the manufacturing process. This occurrence will not affect the aesthetics and performance of the product.
- **Aluminum trim film shrink-back**: Periodically, you may encounter aluminum accessories where the ends need trimming due to the film shrinking back during the curing process. This occurrence will not affect the performance of the product.
- **Pattern repeat**: ChamClad® wall panels are laminated with a repeating pattern (48" or 1.2m). ChamClad® makes every effort to ensure the patterns are mixed in each bag to minimize repeat patterns. It is suggested to randomly check panels at the job site for repeat patterns and adjust as required. To avoid excessive repetition when cutting boards 4' (1.2m) or less, use 2 boards with different patterns.
- **Inspection of Materials:** Inspect all material for any breakage, defects, damage, and colour before installing. Do not install product that is questionable. Contact ChamClad® customer service or your dealer for assistance. Installing defective material may void your product Warranty.

Transportation, Proper Handling & Storage

- When transporting ChamClad® products, keep bags flat. The boards must be supported along the full length. Whenever possible avoid using metal banding. Metal banding will cut into the boards if pulled too tight. Materials are required to be inspected for any damage within 7 days of receipt, recorded on the Bill of Lading, and forwarded to info@ChamClad.com. ChamClad® warranty may be voided if damaged product is installed without prior inspection.
- Always carry ChamClad® cladding by holding it by the narrow edge and pick boards up in the center. ChamClad® pallets should not be stacked more than 2 pallets high and always stored on a flat surface.





- Products must be on a flat surface which supports the entire length of the boards and should be kept dry and out of direct sunlight (when possible). Do not store or place on asphalt or in areas prone to excessive heat buildup. Cover with a tarp leaving ends open to allow for airflow. Store away from areas where there may be falling objects or construction debris that could cause damage. If stacking product, please ensure it is stable.
- ChamClad® packaging is vented to limit the greenhouse effect. Do NOT store uninstalled panels in areas of excessive heat prior to installation; doing so may lead to product distortion.
- Note: It is important that product is not stored for long periods where temperatures could exceed 30 degrees Celsius (86 degrees Fahrenheit).

Building Code Responsibilities

- It is the responsibility of the installer to observe the requirements of the local Building Code as they relate to installation in any given area. Most Building Codes are derived from National Building Codes. In Canada, the primary model is the National Building Code (NBC), which is published by the National Research Council of Canada (www.nrc-cnrc.gc.ca). In the United States, the primary model is based on the International Building Code (IBC), which produces the International Residential Building Code (IRC).

Warranty & Documentation

- Read the **Installation Manual in full** before starting.
- Use the **latest** Manual and Bulletins from ChamClad.com.
- Materials are required to be inspected for any damage within 7 days of receipt, recorded on the Bill of Lading, and forwarded to info@ChamClad.com. ChamClad® warranty may be voided if damaged product is installed without prior inspection.
- Warranty documentation can be found on at Chamclad.com. Technical Resources - ChamClad

Contact

- **Technical/Engineering**: engineering@chamclad.com
- **Customer Service**: info@chamclad.com
- **Website**: https://chamclad.com
- **Warranty**
  - **Registration: info@chamclad.com**
  - **Claims: claims@chamclad.com**

This bulletin contains advisory content only. Follow the Installation Manual for step-by-step procedures and mandatory requirements.

APPENDIX B- FASTENER AND TOOL GUIDE

This appendix provides the technical and field guidance required for properly cutting and fastening ChamClad® panels. It is intended to be used with the Installation Manual.

Tools, Materials and Cutting



- Always ensure you wear proper, appropriate and standard PPE when performing cutting and installation.
- If using a circular saw, cut cladding face down on a clean surface.
- If using a cut-off saw, cut face up
- Carbide-tipped blades with 84+ teeth are recommended. (Aluminum blades are optimal)
- Do not score or snap ChamClad® exterior cladding
- Do not cut ChamClad® with coarse saw blade to avoid chipping or damaging the panel

Fasteners

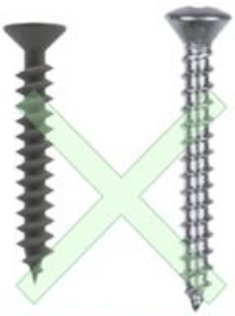
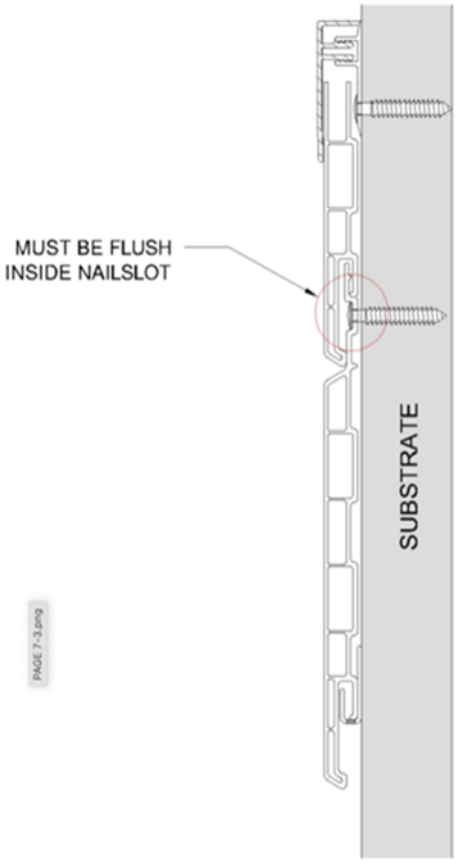
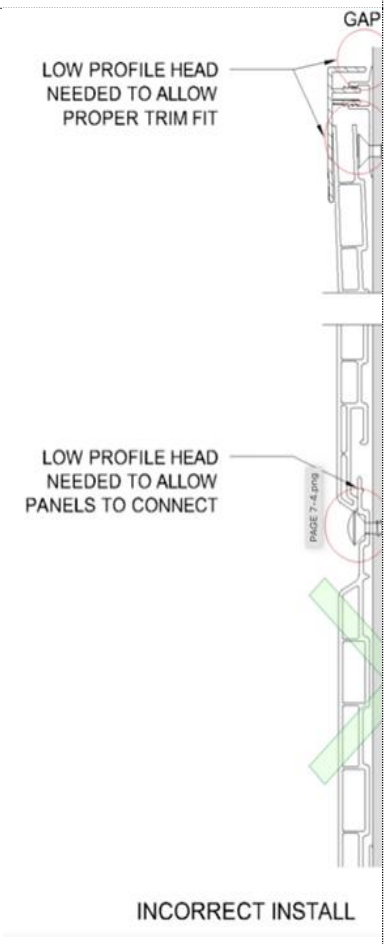
Fastener Size is critical to a successful ChamClad® installation. We recommend the following:

- Screws: It is strongly recommended to use ChamClad® universal self-tapping screws which are available from your local distributor or directly from ChamClad®.
- The fasteners must penetrate the wall to a minimum depth of 1 ¼" (32mm) and allow for the expansion and contraction of the ChamClad® products. If using metal furring strips, use of self-drilling screw is recommended (Modified truss quadrex coarse thread self-drilling screw #8-18 X 1 ½" (38mm)). You must pre-drill pilot holes when using ChamClad's universal self-tapping screws, when screwing into metal.
- If ChamClad® fasteners unavailable, use low profile, corrosion resistant or stainless-steel screws long enough to fasten through the pre-punched flange. Do not use electroplated fasteners. It is important that the fastener head can fit inside the nailing slot. Fastener heads that protrude outside of the nailing slot will hinder ChamClad® tongue and groove locking mechanism.
- When placing fasteners in the center of the designated nail slots, always leave a 1/32" (.8mm) gap between the fastener head and nail flange to allow ChamClad® panels expand/contract as needed.

Recommended Screw	
	**#8-10 ChamClad Universal Self Tapping 1 ½" Screw** #8 quad-drive 1 ½" (38mm)
	**#8-10 ChamClad Universal Self Tapping 2 ¾" Screw** #8 quad-drive 2 ¾" (70mm)
	**#8- 18 ChamClad Universal Self Drilling 1 ½"**
Examples of Alternate Screws:	
	**Exterior Wall** #8 1 ½" (38mm) 17 Self tapping Round Washer Lo-root
	**Modified Truss Quadrex Coarse Thread Screw Self-Drilling** #8 – 18 X 1 ½" (38mm)
Alternate Trim Fasteners	
	**Flat Head Roofing Nail*** 1 ¼" – 1 ½" *Prior to use, confirm that alternate fasteners are permitted by the applicable building code and approved by the local Authority Having Jurisdiction (AHJ).

Note: DO NOT USE a stapler, or nail gun for exterior cladding and soffit panel installation. GLUE IS NOT to be used to fasten strapping or ChamClad® exterior wall boards.

Proper Fastener and Installation

PROPER FASTENERS / INSTALLLATION	INCCORECT FASTENER / INSTALLATION
 **RECOMMENDED** LO-ROOT OR MODIFIED TRUSS HEAD	 **DO NOT USE** PAN-HEAD OR LOW TR
 CORRECT INSTALL	 INCORRECT INSTALL

APPENDIX C– TECHNICAL EXPANSION & CONTRACTION REFERENCE

This appendix provides the technical background and field guidance required to properly account for thermal movement in ChamClad® panels. It is intended to be used with the Installation Manual.

Temperature Changes & Expansion / Contraction

- It is important to remember that ChamClad® materials will expand and contract with regular temperature changes. ChamClad® trims allow for any variance in panel lengths due to expansion/contraction.
- When placing fasteners in the center of the designated nail slots, always leave a 1/32" (.8mm) gap between the fastener head and nail flange to allow ChamClad® panels expand/contract as needed. **Do not leave more than a 1/32" of a gap.**
- The below guide provides expansion/contraction examples based on different panel lengths and temperature fluctuations.

Expansion Guide (by temperature shift)

Temperature Change in °C and °F		**Length of panels (feet)**				**Length of panels (meters)**			
°F	**°C**	**12'**	**20'**	**30'**	**35'**	**3.7m**	**6m**	**9m**	**10.7m**
50	10	0.10"	0.17"	0.25"	0.29"	2.5mm	4.3mm	6.3mm	7.4mm
68	20	0.20"	0.34"	0.50"	0.59"	5mm	8.6mm	13mm	15mm
86	30	0.30"	0.50"	0.75"	0.88"	7.6mm	13mm	19mm	22.3mm
104	40	0.40"	0.67"	1.01"	1.17"	10.2mm	17mm	25.6mm	29.7mm
122	50	0.50"	0.84"	1.26"	1.47"	13mm	21.3mm	32mm	37.3mm
140 (optimal gap)	60	0.60"	1.01"	1.51"	1.76"	15.2mm	25.6mm	38.3mm	44.7mm
158	70	0.70"	1.17"	1.76"	2.05"	17.8mm	29.7mm	44.7mm	52mm
176	80	0.80"	1.34"	2.01"	2.35"	20.3mm	34mm	51mm	60mm
ChamClad®'s Coefficient of linear expansion (CLE): 0.0000698		Total Expansion/ contraction per panel (inches)				Total Expansion/ contraction per panel (millimeters)			

Temperature Shift Example using ChamClad® products.

The change in length of ChamClad® panels due to temperature fluctuations is influenced by three key factors.

1. **The Coefficient of Linear Expansion (CLE):**

For ChamClad® Panels, the CLE is 0.0000698 in/in/°C.

2. **Original Length of the Panel:**

The length of the panel at the time of installation.

3. **Net Temperature Change**

The difference between the installation temperature and the ambient temperature during use.

Expansion/Contraction Formula

To calculate the change in length of a ChamClad® panel, use the following formula:

Change in Length (in inches) =
(Original Length in inches) × (Temperature Change in °C) × (CLE)

Example

A 12 ft (144") ChamClad® panel is installed at **20°C (68°F)** and later exposed to **0°C (32°F)**.

Calculation:

144 × 20 × 0.0000698 = 0.20 inches (approximately 7/32")

The panel will contract by 0.20 inches, resulting in a new length of 143.80 inches. When the temperature returns to 20°C (68°F), the panel is expected to expand back to its original length of 144 inches.

General Rules

Based on a temperature change of 40°C (104°F), for example: 0°C (32°F) in cooler months and reaching 40°C (104°F) in warmer months:

- General rule of thumb, in summer and winter months.
  - **For panels up to 16' (4.9m)** leave a gap on each side of 1/2" (13mm)
  - **For panels up to 24' (7.3m)** leave a gap on each side of 5/8" (16mm)
  - **For panels 25' (7.6 m) and longer,** always pin at the midpoint by fastening directly through the nail rail (not the slot center). To determine the gap, use the distance from the pin to the panel end (half the total panel length) and refer to the gap chart below (page 14)
  - **Gaps 5/8" or greater**, we recommend using larger faced trims to allow for expansion and contraction (3.5" 2pc Finish Trim, 3.5" 2pc Outside Corner, larger faced H-Trim).

It is imperative that ChamClad® panels are cut to fit the coverage of trim pieces.

The temperature the day of installation factors into the expansion and contraction gap you leave. If installing on a cooler day allow for more expansion and a larger gap, if installing on a warmer day allow for less expansion and a smaller gap. The below guide provides recommended spacing based on temperature and panel length.

Recommended Gap Allowance Temperature Guide

OUTSIDE TEMP.		GAP PER SIDE (inches)					GAP PER SIDE (Millimeters)				
°F	**°C**	**≤ 12'**	**16'**	**20'**	**25' ***	**30' ***	**≤ 3.6m**	**4.9m**	**6.1m**	**7.6m**	**9.1m**
14	-10	3/8	1/2	5/8	3/8	1/2	9	13	16	19	22
32	0	3/8	7/16	1/2	3/8	7/16	9	11	13	16	19
50	10	5/16	3/8	7/16	5/16	3/8	8	9	11	13	16
68	20	1/4	5/16	3/8	1/4	5/16	6	8	9	11	13
86	30	3/16	1/4	1/4	3/16	1/4	5	6	6	8	9
104	40	1/8	3/16	3/16	1/8	3/16	3	5	5	5	6

***** Gap allowance is based on panel being pinned (fastened directly through nail rail, not in center of nail slot) to equalize expansion and contraction.

Guidelines

- Take into consideration the temperature on date of installation and season you are installing in.
- Installation in weather colder than -10°C (14°F) is not recommended due to potential chipping or cracking of the panels. Should that occur warranty may be voided.

It is important to acclimate panels and accessories for a minimum of 24 hours prior to installation.

APPENDIX D: CARE AND MAINTENANCE

ChamClad® products are designed to be low maintenance, and our laminate films have exceptional properties that ensure ease of cleaning and surface longevity. They are highly ultra-violet, scratch, and salt air resistant. The film's low surface tension makes it inherently dirt-repellent and therefore easy to clean. ChamClad® finishes include anti-graffiti properties and, in most cases can be easily removed using a garden hose and mild kitchen detergent and warm water.

To preserve the lifespan of your ChamClad® product and maintain its warranty, regular cleaning and inspection are essential.

- Minimum Cleaning Frequency: In normal or urban environments, we recommend cleaning your ChamClad® product every 12-18 months.
- High-Exposure Areas: In areas subject to high pollutants, such as industrial or coastal environments, we recommend cleaning your ChamClad® product every 8-12 months.
- Regular Inspections: Inspect the product frequently and promptly remove any debris or contaminants such as bird droppings. Prolonged contact with such materials may lead to staining, uneven wear, or surface damage.

Refer to the recommended maintenance guidelines below to ensure optimal care for your ChamClad® product.

General Cleaning:

- You may clean the surface with a soft cloth, sponge or soft bristle brush and a neutral detergent. It is recommended to use ChamClad® Product Cleaner (supplied by ChamClad®) and/or a soap, or liquid cleaner (in non-concentrated form) such as Simple Green. Follow with a thorough rinsing of fresh water to ensure all cleaner has been removed.
- If marking has occurred from board-to-board friction, you may clean it with a soft cloth soaked in water and soap. Allow the cloth to sit on the area for 60 seconds. Panels should be rinsed thoroughly with clean water.
- To avoid streaking start at the top of the wall – working your way to the bottom.
- You may pressure wash ChamClad® panels with a low PSI pressure washer. DO NOT exceed 1500 PSI.

DO NOT:

- Do not use solvents when cleaning panels. Solvents may damage the protective layers in the film.
- Do not wash panels with a pressure washer at close range.
- Do not use abrasive, erosive, or caustic solvents to clean ChamClad® panels as they can dull and/or damage the panel finish and will void the warranty.

Should you experience removal difficulties, please contact us via email.


CHAMCLAD®
TRANSFORMING
SPACES