Installation Manual – Column, Beams & Privacy Walls / Screens

CHAMCLAD®
TRANSFORMING SPACES

Revised: August 22, 2025

Supersedes July 30th, 2024.

Scan Code for Install Videos for both Soffits and Walls.

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1.0 BEFORE YOU BEGIN

- Read the install instructions completely. These installation instructions illustrate the “Best Practices” to install ChamClad® cladding and trim.
  - ChamClad® does not accept any liability or responsibility under their written warranty for product failure caused by improper installation.
- To ensure you are up to date with the most recent install instructions, please visit our website https://ChamClad.com and view manual in conjunction with the technical bulletin advisory.
- Our research and development team are committed to improving product durability and performance. As a result, specifications may change from time to time. Please check our website for updated technical information and profile drawings.
- While this Installation Manual provides typical methods, tools, and techniques based on standard industry practices, it may not address every question or condition that could arise during installation. We encourage designers and installers to review these guidelines thoroughly and identify any site-specific conditions not covered. In such cases, please contact ChamClad® at engineering@chamclad.com, and our team will assist in developing a mutually satisfactory solution. It is the responsibility of the design authority and installer to ensure proper layout and compliance with relevant codes.
- 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.
- 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.

2.0 FIRST STEPS FOR A SUCCESSFUL INSTALLATION

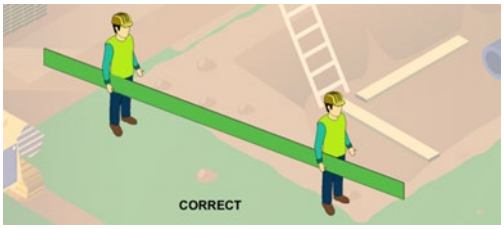
Inspect all material for any breakage, defects, damage, and colour before installing. Do not install product that is questionable. Contact ChamClad® customer service or your dealer for assistance. Installing defective material may void your product Warranty.

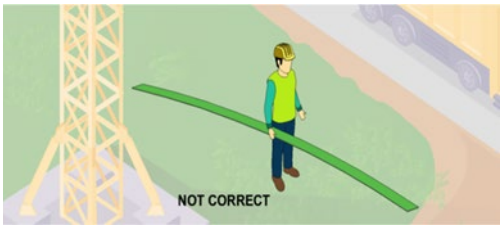
Before installing ChamClad® cladding it is very important that installers read and understand the installation recommendations and topics covered in this manual.

2.1 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).

2.2 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

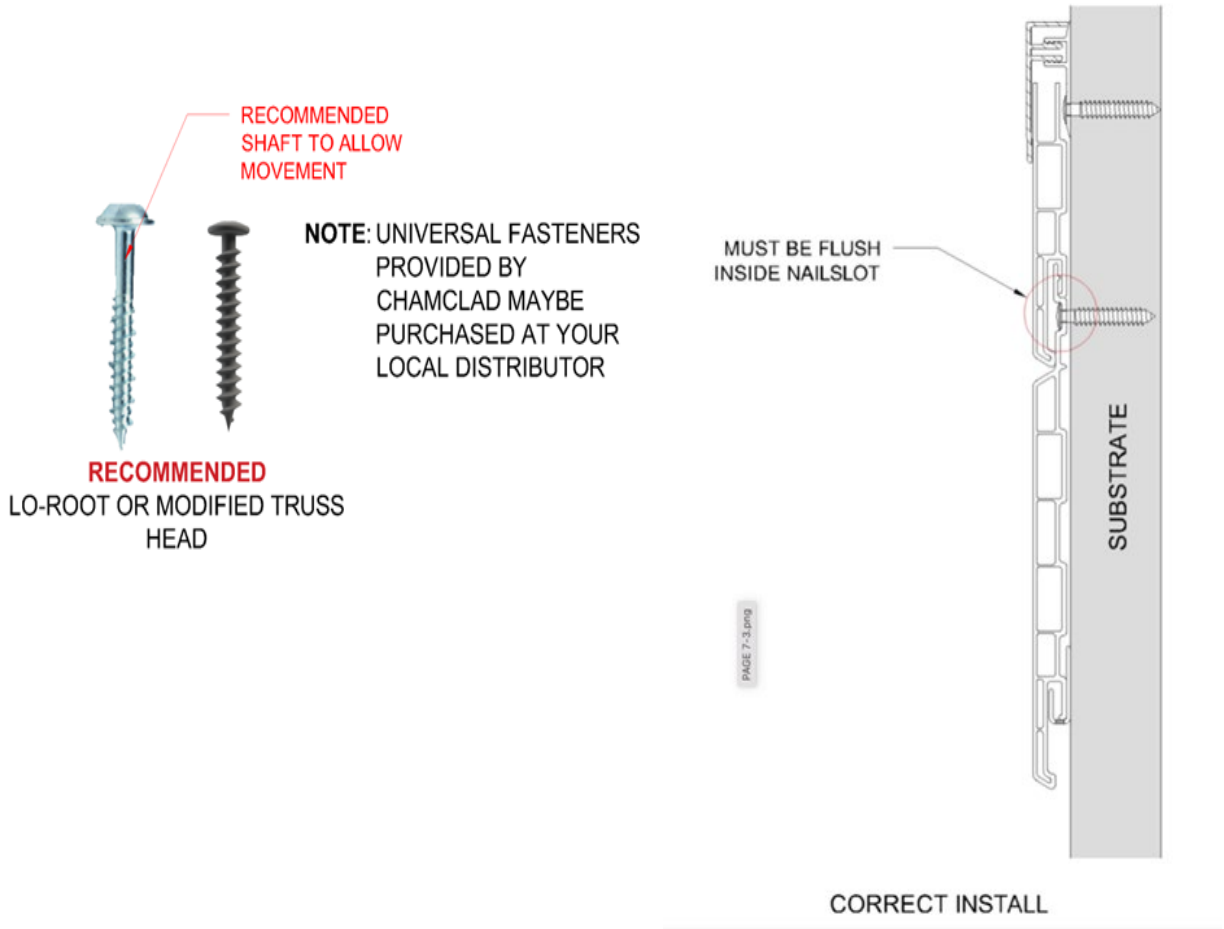
3.0 BEST PRACTICE GUIDE

These installation instructions illustrate the “Best Practices” to install ChamClad® cladding, and trim. ChamClad® does not accept any liability or responsibility under their written warranty for product failure caused by improper installation.

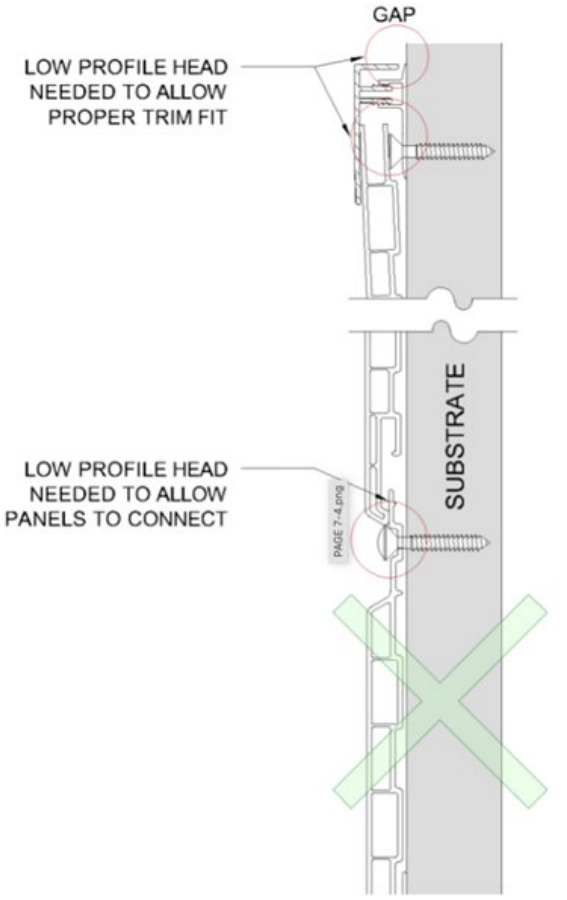
It is the responsibility of the installer to observe the requirements of the local Building Code as they relate to installation in any given area. Most Building Codes are derived from National Building Codes. In Canada, the primary model is the National Building Code (NBC), which is published by the 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).

It is the responsibility of the builder or contractor, to understand the local code and how it pertains to the location where ChamClad® is being installed.

3.1 Fasteners



DO NOT USE
PAN-HEAD OR LOW TRUSS



INCORRECT INSTALL

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)

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.

3.2 Essential Details

Random ChamClad® Panel Pattern

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.

Classic Panel (1 Panel, 2 Looks)

ChamClad® offers a simple tongue and groove system with the product stacking from the bottom up. For a U-Channel profile, insert to the first stop. For a V-Groove profile, take a non-marking rubber mallet and tap to the next stop. Does not apply for Shadowline Panel.

Vented Cavity

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. All panels must be fastened every 16–24" (400–600mm) on center. To ensure proper installation and meet warranty requirements, refer to CCMC/ICCES evaluations for assembly requirements. For alternate cavity solutions, contact engineering@chamclad.com.

Exterior Rigid Insulation

When installing ChamClad® exterior cladding over rigid insulation, it is critical that all fasteners penetrate through the insulation and securely anchor into the structural substrate (e.g., wood or steel framing). The preferred method is installing furring (strapping) over the face of the rigid insulation and attaching cladding directly to the furring, which provides both a vented cavity and the necessary structural support.

Installers are responsible for ensuring that the wall assembly, fasteners, and anchoring methods are compatible with the project requirements and comply with local Building Codes. Failure to properly secure the cladding to a structural substrate may compromise the performance and safety of the system. For alternate application, contact engineering@chamclad.com

Wall Flashings and Penetrations

Windows, doors, and utility penetrations must be flashed and trimmed properly. It is the responsibility of the installer/designer/builder to ensure it is done to local codes and best industry practice. If sealants are required, ChamClad® recommends ASTM 920 Elastomeric Joint Sealants (e.g., Tremco Spectrum 2).

2PC Trim - Vertical Installation

When installing 2pc trims vertically (2PC Outside Corner, 2PC J-Trim, 2PC H-Trim), in order to prevent downward migration, it is recommended to fasten the base trim at the highest point of the nail slot with all other fasteners located in the centre of the remaining slots (every 8-12” (200-300mm)).

Before applying the top cap, it is recommended to add a small dab of sealant (1” or 25mm) between the teeth at the top and bottom of the base trim. This is especially important around doors and windows where you are not completing a full perimeter wrap.

Aluminum Trim - Film Shrink Back

Occasionally, 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.

Compatibility

ChamClad® products should not be stored in bags on asphalt surfaces, such as driveways or roads, before installation or left on asphalt for extended periods. Prolonged exposure to asphalt can cause it to leach into the panels, potentially weakening or discoloring them. If ChamClad® products are exposed to asphalt, clean them immediately using a non-solvent cleaning product. Instead, opt for storage on grass, in a garage, or in a shaded area.

4.0 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.

The below guide provides expansion/contraction examples based on different panel lengths and temperature fluctuations.

4.1 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)			

4.2 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.

4.3 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.

4.4 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.

4.5 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.

5.0 CARE AND MAINTENANCE OF CHAMCLAD® PRODUCTS

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 at info@ChamClad.com

12" Quick Click Column and Beam in Cinnamon Walnut

CHAMCLAD® COLUMN & BEAM

EXTERIOR & INTERIOR

8" Quick Click Column and Beam in Toffee

6.0 CHAMCLAD COLUMN & BEAM

6.1 Assembly / System Types

- 2PC Column Wrap 7”
- 4PC Quick Click Column System
- 4PC Quick Click Beam System
- 3PC Quick Click Beam System
- 2PC Faux Beam 5.5” x 3.35”

7.0 CHAMCLAD 2PC COLUMN WRAP 7

Refer to Installation Details CS-09 thru to CS-15

7.1 PRODUCTS – 2PC Column Wrap 7”

Dimensions

Exterior dimensions of the column are 7” x 7” (178mm x 178mm).
Internal cleared dimensions of the column are 6” x 6 ½” (152mm x 165mm).
Architectural trim dimensions are 3/4” x 3 5/8” (19mm x 92mm).
Column lengths available in pairs at 8 (2.4m), 10 (3m), and 12ft (3.7m) lengths.

7.2 Loading

- 2PC Column Wrap is **non-structural**.

7.3 Installation – Standard Option

- The internal structural support should be straight, square, and within the dimensions specified above.
- Cut 2PC columns shorter than column height requirements (refer to gap chart pg. 14) to allow for expansion and contraction at **one** location (top **or** bottom).
- Wrap the 2PC columns around the vertical internal structural support by engaging the arrowhead in one panel into the groove of the second panel. Do this on both ends of the “L” shaped column, using a non-marking rubber mallet to assemble. Ensure a tight wrap around the internal structure to avoid movement and full engagement of the two pieces for a seamless finish. If column is loose or has movement around the internal structural support:
    - Create two collars measuring 6 ½” x 5 ½” (165mm x 140mm) around the base and top of the support structure. Install the 2PC column, which will form a tight fit around the collars. This will prevent movement of the 2PC column.

- **Note:** To ensure the column remains straight, always start snapping the pieces at the top working towards the bottom. Avoid starting from the middle.
- Connect the column wrap using ChamClad universal screws on two sides at one location (top **or** bottom), countersinking the screw to be flush with the column face. This will allow for the trim to sit flat and allows movement for expansion and contraction.

7.4 Installation – Adhesive Option:

To install a 2PC Column Wrap using LePage QuadMax adhesive (ASTM C920 or equivalent) follow instructions outlined below:

- **Preparation**: Ensure the column will fit properly by adding wood backing if necessary.
- **Apply**: Apply four diagonal strips of QuadMax adhesive to prevent water from sitting on top. (refer to drawing “Standard Adhesive Application” on page 29)
- **Secure Installation**: Apply the adhesive 1-3 inches (25mm-75mm) inside the locking edges on both the top and bottom sides of the column pieces.
- **Engage Columns**: Align the column pieces together for a tight and stable fit. Position them against the adhesive to secure them in place.
- **Use a Shim**: If your expansion gap is at the bottom, use a shim to hold the gap while the adhesive cures.

7.5 Finishing Options

- Option: 1” x 4” Architectural Trim OR Column Cap/ Base Trim
- Refer to page 30 for additional information and installation instructions.

8.0 CHAMCLAD 4PC QUICK CLICK COLUMN SYSTEM

Refer to Installation Details CS-01 thru to CS-8, CS-13 and CS-16

8.1 PRODUCTS - 8", 10" and 12" Quick Click Columns

Dimensions

- Exterior dimensions of the column available are:
  - 8" x 8" (200mm x 200mm),
  - 10" x 10" (250mm x 250mm),
  - 12" x 12" (300mm x 300mm)
  - Check Detailed drawings (Figure 1 on page 20) for the internal clearance dimensions before ordering.
  - (Mix and match dimensions are also available.) (Figure 2 on page 21)

- Columns available in 10ft (3m) and 20ft (6m) lengths.

3" Quick Click Adapter

- 10' and 20' Lengths

8.2 Loading

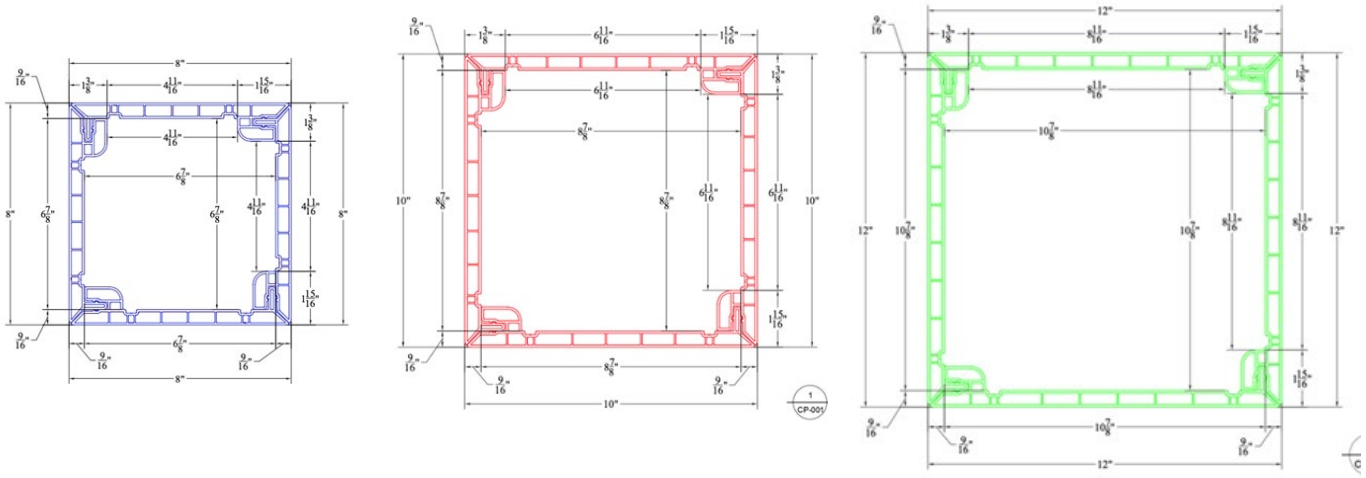
- Quick Click Columns are **non-structural**.

8.3 Installation

- Always climatize product 24hrs before installation.
- The internal structural support should be straight, square, and within the dimensions specified in the detailed drawing.
- To keep column straight, pack with dimensional lumber top or bottom, minimum two sides.
- For expansion and contraction in exterior application, start by measuring your column height and cut column wrap to desired length (refer to gap chart on pg. 14).
- Apply 1" (25mm) of QuadMax adhesive or equivalent at the top and bottom of each corner.
- On the ground, snap together 2 of the 4PC into a 'L' shape using a rubber mallet. Repeat with the remaining 2PC for the other side.

- Apply four diagonal strips of adhesive to prevent water from sitting on top. Apply adhesive 1-3" (25-75mm) inside the locking edges on both the top and bottom sides of the column pieces. (refer to drawing “Standard Adhesive Application” on page 29)
- Join the column pieces together, ensuring a tight and stable fit.
- Place the column pieces against the adhesive to secure them in place. If your expansion gap is at the bottom, use a shim to hold the gap while the adhesive cures. This will ensure the column stays in place.
- Note: To ensure the column remains straight, always start snapping the pieces at the top working towards the bottom. Avoid starting from the middle.

Figure 1 – Exterior and Interior Detailed Column and Beam Dimension



8” x 8” 10” x 10” 12” x 12”

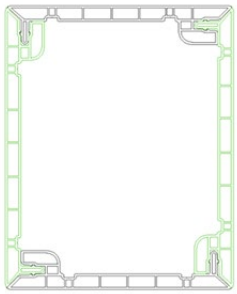
8.4 Finishing Options

- Option: 1” x 4” Architectural Trim OR Column Cap or Base Trim
- Refer to page 30 for additional information and installation instructions

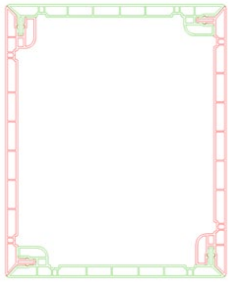
8.5 INTEGRATION – COLUMN TO BEAM

ChamClad® columns and beams are designed to be modular and versatile, allowing different sizes—including 3", 8", 10", and 12" profiles—to be mixed and matched to achieve custom configurations. Columns can be seamlessly integrated with beams to create clean, continuous transitions and tailored structural designs. Below are several examples showcasing possible column and beam combinations. **For additional guidance on unique or more complex installation scenarios, please refer to details BS-04, BS-05, BS-06, BS-08 thru to BS-11.**

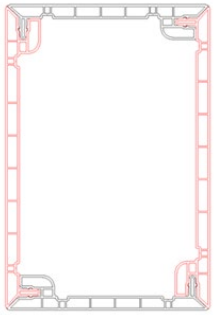
Figure 2 Mix and Match Options – 4PC Column and Beams



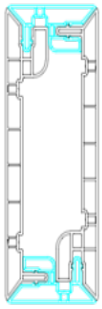
8” x 10” Beam Assembly



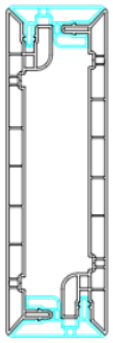
10” x 12” Beam Assembly



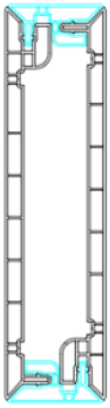
8” x 12” Beam Assembly



3” x 8” Beam Assembly



3” x 10” Beam Assembly



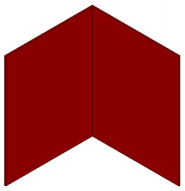
3” x 12” Beam Assembly

8.6 Column to Beam Assembly- Products

3” Quick Click Adapter
10’ and 20’ Lengths

Quick Click Columns / Beams
8”, 10” and 12”

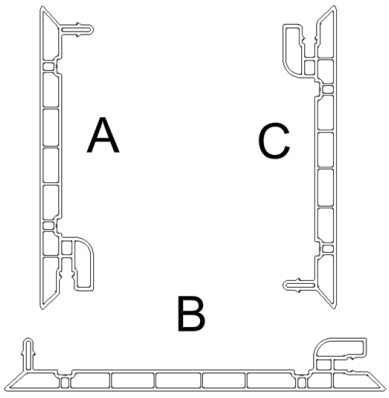
QuadMax® Adhesive
Or approved alternative



Metal Angle Bracket (supplied by others)
3” min.

8.7 Column to Beam Assembly- Installation

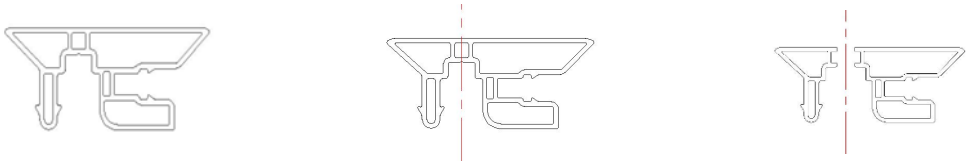
- Refer to installation sequence drawings **BS-08 thru to BS-11**.
- Before proceeding with installation, carefully plan the layout details of your column to beam interface. Key items to consider include:
  - Column and beam size that you will wrapping.
  - Determining what is the longest side of the mitre joint on column wrap as this will determine what side to start on. **In this manual, Panel “A” is the longest mitre joint and starting point and configuration/position of panel as shown below.**



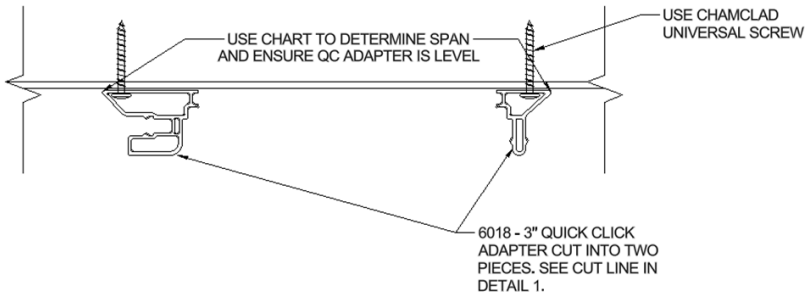
IMPORTANT: To ensure a proper and secure installation, it is critical to follow the sequencing outlined in this manual. Failure to follow the prescribed sequence may result in compromised connections, including bowing, misalignment, or separation at the joints.

Step 1: Plan Layout and Install 3" Quick Click Adapter to Substrate

- Start by measuring the length of your beam. Cut the Quick Click Beam to the desired length.
  - **Note:** In exterior application, cut beam to allow for expansion and contraction. Refer to gap chart on pg. 14.
- Cut the 3" (75mm) Quick Click Adapter as shown below. Ensure cuts are square and clean.



- Attach it to the substrate by countersinking screws on both sides. Ensure the 3" (75mm) QC Adapters are levelled properly. Use the chart to measure the correct length to leave between them based on the required width.

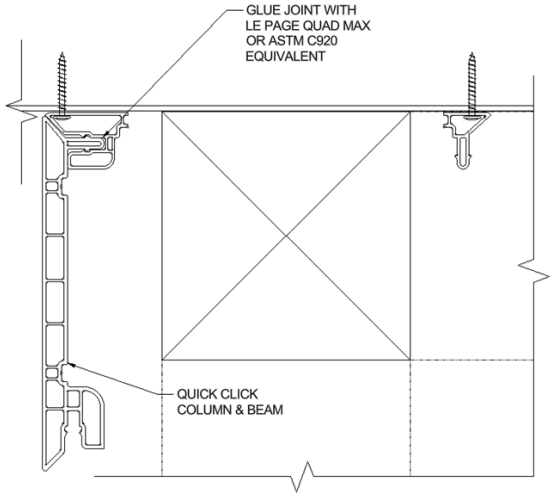


SPAN DISTANCE - FROM END TO END
8" X 8" COLUMN WIDTH = 7 7/8"
10" X 10" COLUMN WIDTH = 9 7/8"
12" X 12" COLUMN WIDTH = 11 7/8"

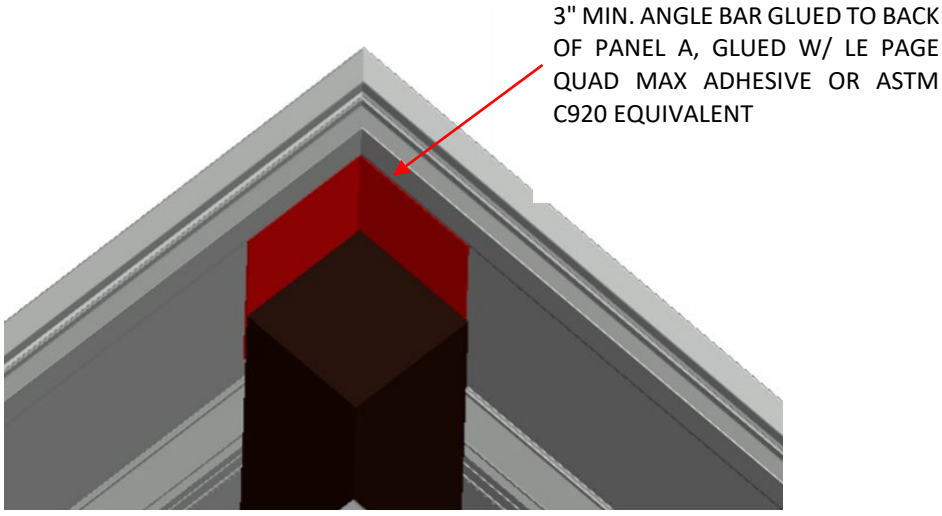
- Make sure the ChamClad universal screws are fastened into a joist or stud. If there is no solid backing, it must be added before installation.

Step 2: Install Panel "A" at Perimeter

- Position Panel A into the Quick Click Adapter at entire perimeter.
- Glue joint with LePage Quad Max or pre-approved alternate. Use a thin, even bead of adhesive to prevent squeeze out during assembly.

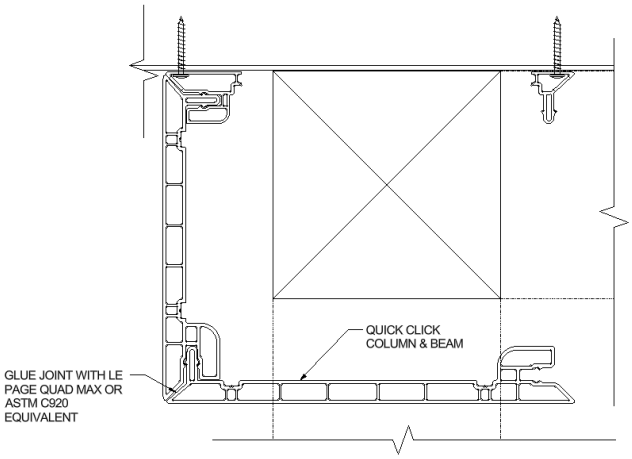


- At mitred corners, glue a minimum 3" metal angle bracket to the back of the front panel for reinforcement.
- NOTE: Do not glue mitred corner edges.

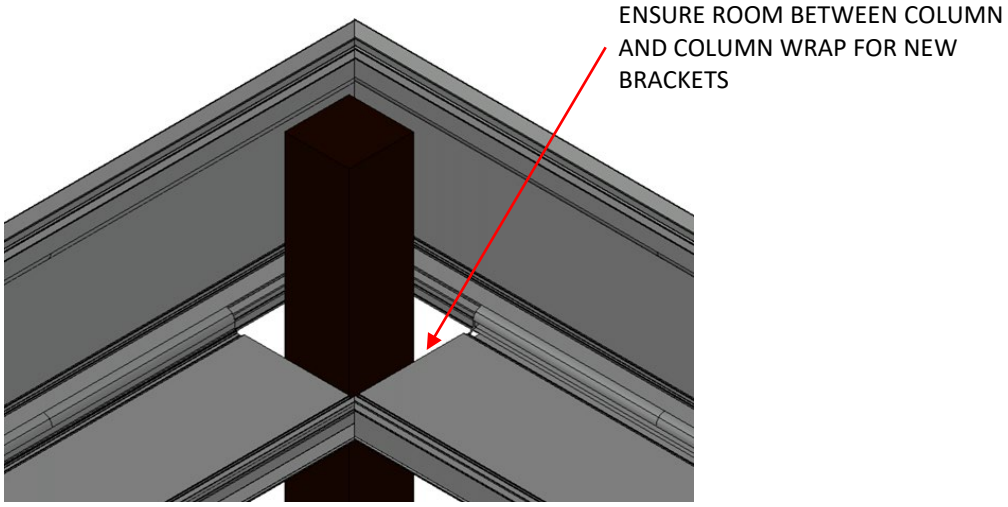


Step 3: Install Panel "B"

- Align and install Panel B into Panel A
- Glue joint with LePage Quad Max or pre-approved alternate. Use a thin, even bead of adhesive to prevent squeeze out during assembly.

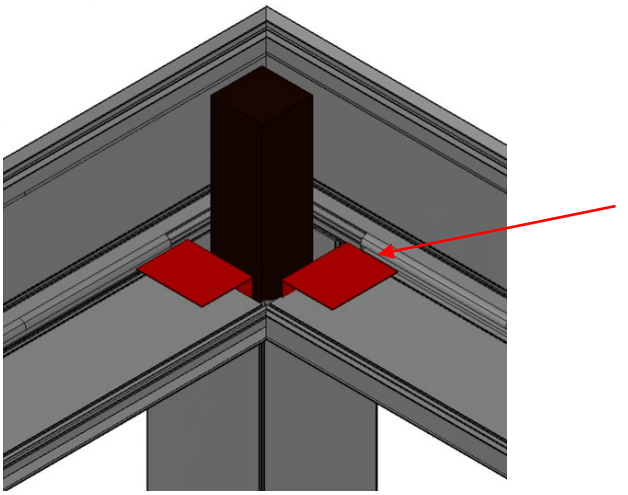


- At column location:
  - Mitre Panel B corners to fit around columns.
  - Ensure adequate spacing for new 3" min. angle bracket installation between the column and the wrap.



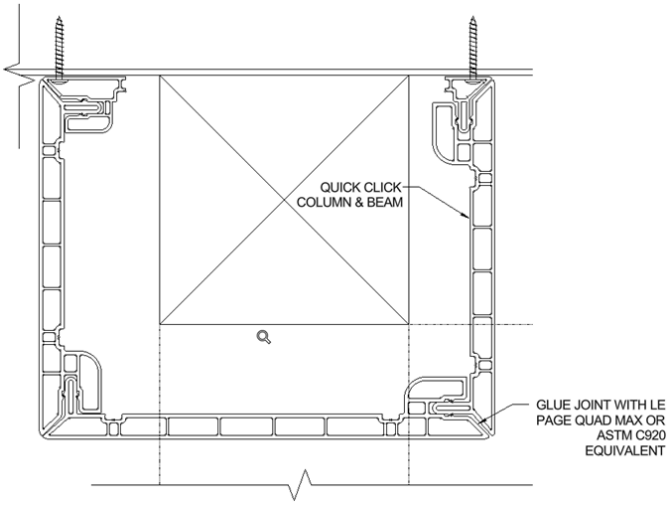
Step 4: Install Column Wrap and Brackets

- Complete the installation of the column wrap around the column structure. Refer to ChamClad® 4PC Quick Click Column System for installation instructions. See pages 19 & 20 in this manual.
- Glue two new 3” min. angle brackets at back of Panel B and to back of column wrap. Refer to drawing BS-08 for location of brackets.
- Use LePage Quad Max® or an equivalent sealant compliant with ASTM C920.

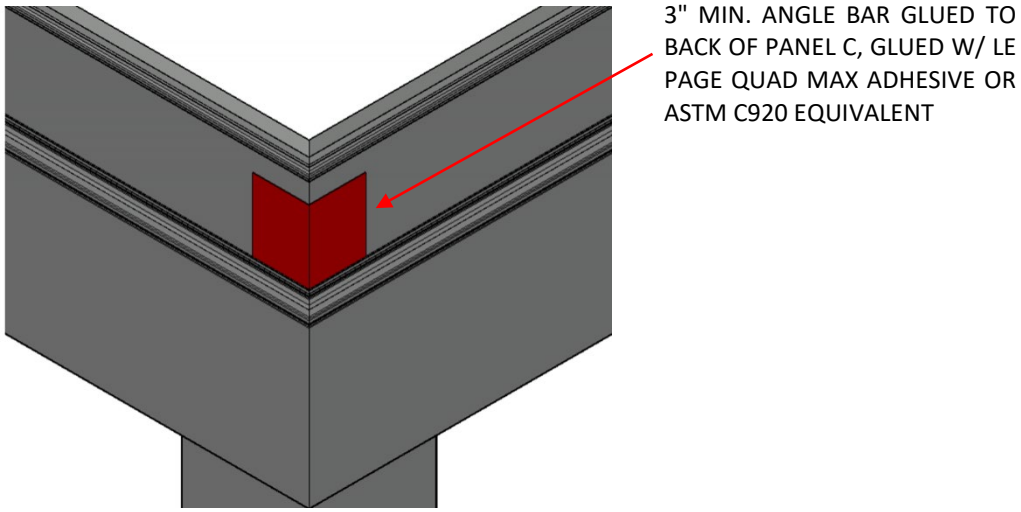


Step 5: Install Panel “C”

- Aligned Panel C into the Quick Click Adapter and slide the bottom portion of Panel C into Panel B.
- Glue joint with LePage Quad Max or pre-approved alternate. Use a thin, even bead of adhesive to prevent squeeze out during assembly.



- At mitred corners, glue a minimum 3” angle bracket to the back of the front panel for reinforcement.
- NOTE: Do not glue mitred corner edges.



Step 6: Final Touches

- Review all joints to ensure all are secure and aligned.

9.0 CHAMCLAD 4PC QUICK CLICK BEAM SYSTEM

9.1 PRODUCTS – 8”, 10” and 12” Quick Click Beams

Dimensions

- Available in 8" (200mm), 10" (250mm), and 12" (300mm) face sizes, in 10' (3m) or 20' (6m) stocked lengths you can mix and match to create stunning faux beams.
- Use with the 3” Quick Click Adapter as end caps for smaller or to increase the size of your column or beam.

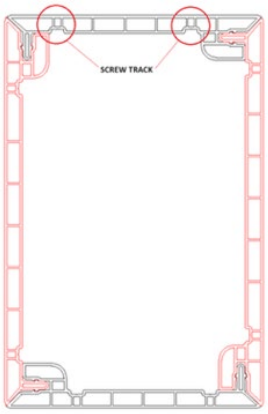
9.2 Loading

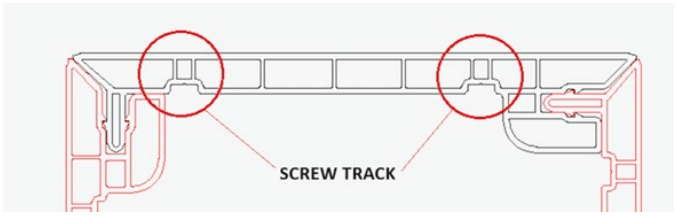
- ChamClad® **4PC Beam System** is not load bearing and should not be used as the primary source of weight.

9.3 Installation

- Start by measuring your beam length and cut the ChamClad Beam to the desired length.
- **Note:** In exterior application, cut beam to allow for expansion and contraction (refer to gap chart pg. 14)
- Snap together 2 of the 4PC into a ‘L’ shape using a rubber mallet. 1-3" (25-75mm) of QuadMax is recommended in corners.
- Fasten preassembled beam wrap using universal screws every 16-24” (400-600mm) along the screw track Figure 3 – Beam Screw Track.
- Ensure ChamClad Universal Screws are fastened into a joist or a stud. If no solid backing is available, it must be added before installation.
- Apply 1-3" (25-75mm) of QuadMax in corners, then snap together the final 2 of the 4pcs in place using a rubber mallet.

Figure 3 – Beam Screw Track



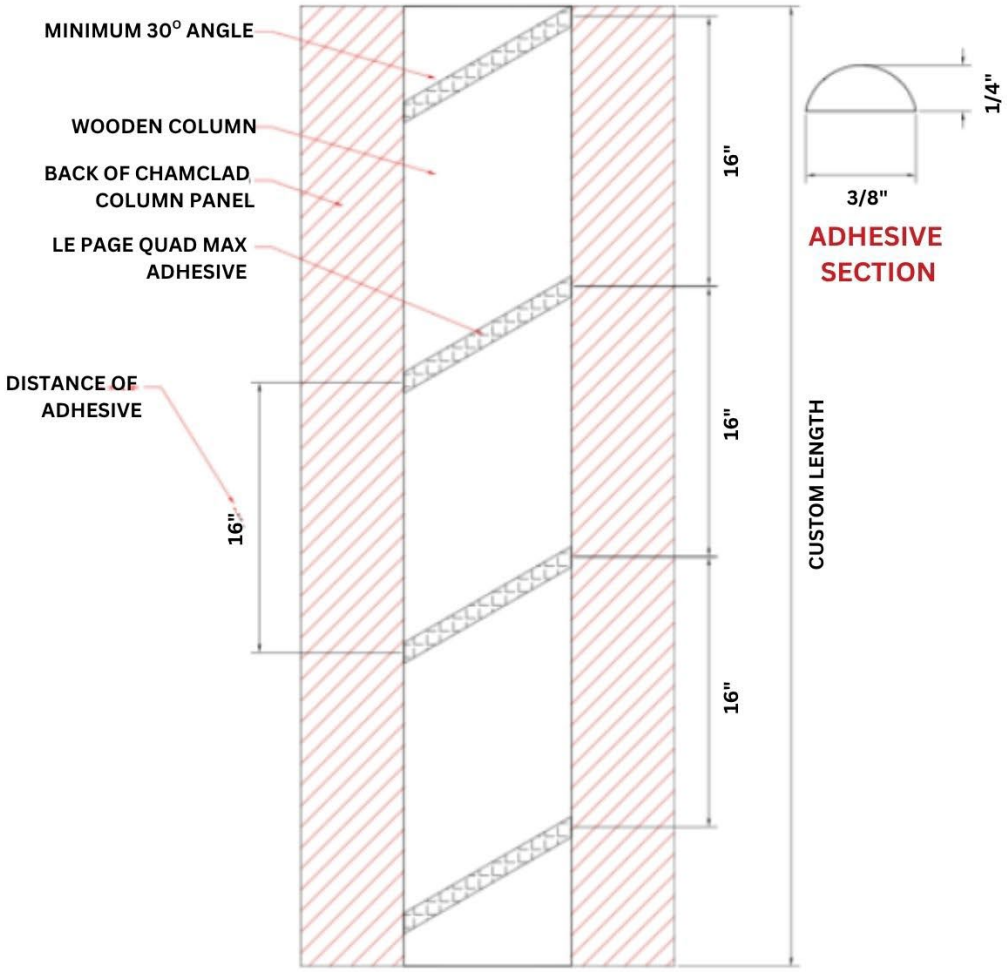


9.4 Finishing Options

- Option: 1” x 4” Architectural Trim
- Refer to page 30 for additional information and installation instruction.

STANDARD ADHESIVE APPLICATION

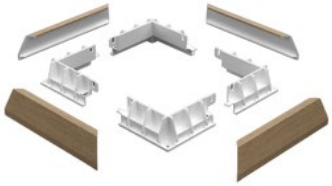
Regardless of the type of on-site attachment,
the standard adhesive application procedure must be followed



10.0 OPTIONAL TRIMS

1” x 4” Architectural Trim

- Chamclad® offers use of architectural trims to finish the ends of the columns.
- Measure and cut architectural trims at 45-degrees. Ensure the trim is pressed firmly against the column when determining the edge of the 45-degree cut.
- Touch up exposed cut edges with touch-up paint. Paint cans or touch up pens available through ChamClad®.
- Apply QuadMax (or equivalent) on the back of each cut trim and position along column base or cap. **Do not** apply adhesive at miter.
- Wrap a fastening strap around trims and allow to cure for 24-72hrs.



Column Cap or Base Trim

- Chamclad® offers precut Column Cap & Base trim to complete the (175mm) 2PC Column Wrap 7” installation.
- Place the column brackets around each corner of the column base and snap bracket together. Ensure they are level and anchor the bracket to the deck or substrate through the predrilled holes in the corners.
- Touch up exposed cut edges with touch-up paint if required
- Snap on the 4pc column cap/face provided until they click.

11.0 CHAMCLAD 3PC QUICK CLICK BEAM SYSTEM

Refer to Installation Details BS-00, BS-02, BS-03, BS-07.

11.1 PRODUCTS – 8”, 10” and 12” Quick Click Beams

Dimensions

- Exterior dimensions of the column available are:
  - 8” x 8” (200mm x 200mm),
  - 10” x 10” (250mm x 250mm),
  - 12” x 12” (300mm x 300mm)
  - Check Detailed drawings (Figure 1 on page 20) for the internal clearance dimensions before ordering.
  - (Mix and match dimensions are also available.) (Figure 2 on page 21)

- Columns available in 10ft (3m) and 20ft (6m) lengths.

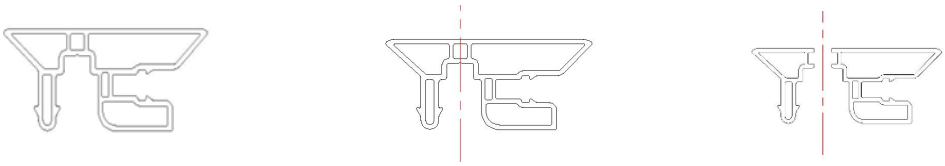
3” Quick Click Adapter

- 10’ and 20’ Lengths

11.2 Installation

- Start by measuring the length of your beam. Cut the ChamClad® beam to the desired length.
  - **Note:** In exterior application, cut beam to allow for expansion and contraction. Refer to gap chart on pg. 14)

- Cut the 3” (75mm) Quick Click Adapter as shown below.



- Attach it to the ceiling by countersinking screws on both sides. Ensure the 3” (75mm) QC Adapters are levelled properly. Use the chart to measure the correct length to leave between them based on the required width.

Distance From End to End (shown in red in picture)
8” x 8” Column/ Beam width = 7 7/8”
10” x 10” Column/ Beam width = 9 7/8”
12” x 12” Column/ Beam width = 11 7/8”

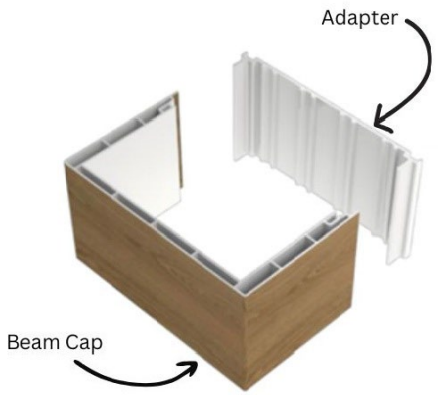
- Make sure the ChamClad universal screws are fastened into a joist or stud. If there is no solid backing, it must be added before installation.
- Insert one side of the beam as shown below.

- Snap together the two remaining pieces to form an L shape using a rubber mallet and QuadMax adhesive.
- Attach the L-shaped assembly to the remaining beam along its entire length with a rubber mallet to ensure the beam is properly engaged.

12.0 CHAMCLAD 2 PC FAUX BEAM

Refer to Installation Detail BS-01.

12.1 PRODUCTS – 2 PC Faux Beam 5.5” x 3.35”



2 PC Faux Beam 5.5” x 3.35”

- Exterior dimensions of the beam are 5-1/2” x 3-3/8” (140mm x 86mm).
- Internal cleared dimensions of the beams are 4 3⁄4” x 3” (120mm x 75mm).
- Beam Cap and Adapter lengths available in pairs at 10ft (3m), 16ft (4.9m), and 20ft (6m) lengths.

Beam Bracket 3.5”

Beam End Cap

12.2 Loading

- ChamClad® 2PC Beam System is not load bearing and should not be used as primary source of weight support.
- Internal Weight Capacity of Beam = 24.11 kg/m (16.17 lbs/ft) (equally distributed weight).
  o Weight of Beam and Adapter = 1.84 kg/m (1.23 lbs/ft)

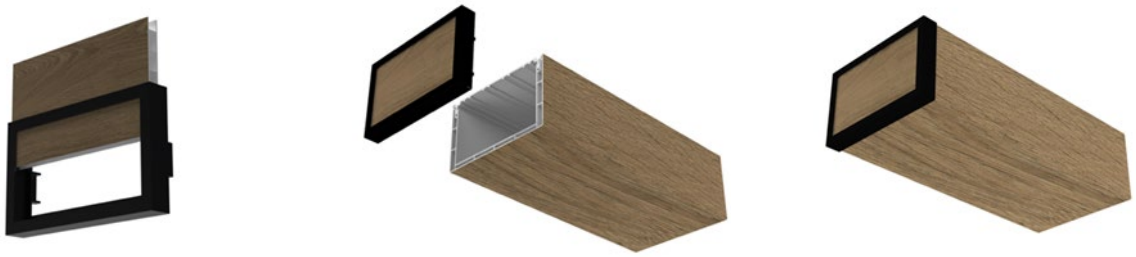
12.3 Installation

- ChamClad ® 2PC beam is compatible for interior applications.
- Allow 2PC beam system to climatize to installation temperatures prior to cutting. Measure and mark beam length using a square edge.
- If fitting against an angled wall or ceiling, a T-bevel may be helpful to determine the cut angle.
- Add ChamClad® beam bracket to close any spacing between wall and beam (2 per pack plus screws, #8 1 ½” flat quadrex course thread plated black zinc) 8 per bag.
- Use a fine-toothed circular saw to cut beam cap and adapter. Ensure equal lengths of both adapter and beam are cut.
- Mark ceiling with a chalk line to ensure a straight installation of the beam base.

- Fasten adapter using ChamClad® universal screws every 16-24” (400-600mm). Ensure fasteners are fastened into a joist or a stud.

12.4 Finishing – Beam End Cap Option

- Trim the supplied 3/8” panel to 5 ½” X 3 ¼” (You may also use a matching 3/8” panel from the job).
- Slide the panel into the Beam End Cap ensuring the panel is to the bottom of the cap and no panel is exposed above the trim.
- Add a small dab of QuadMax (ASTM C920 or equivalent) adhesive into the cavity of the beam on 2 sides.
- Fit the Beam Cap End onto the beam.



CHAMCLAD®
PRIVACY WALL/ SCREENS

EXTERIOR & INTERIOR

13.0 PRIVACY WALL / SCREENS

13.1 IMPORTANT INFORMATION- DISCLAIMER

ChamClad® Privacy Walls are intended for **decorative purposes only** and must be securely affixed at both the top and bottom as part of standard installation.

Any alternative use—including but not limited to structural support, load-bearing applications, or installation where lateral forces (e.g., wind load, occupant interaction) are a concern—**requires the review and approval of a qualified Structural Engineer** to assess appropriate attachment methods, load requirements, and safety considerations.

For **exterior applications**, it is the responsibility of the Builder, Contractor, or Installer to:

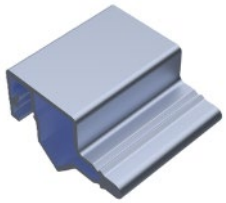
- Ensure **all penetrations and connection points are properly waterproofed**,
- Confirm **material compatibility** between ChamClad® components and the surrounding building envelope, and
- Comply with **all applicable local building codes and regulations** as enforced by the Authority Having Jurisdiction (AHJ).

ChamClad® does not assume liability for improper installation, structural use, or failure to meet local code requirements.

13.2 Products

3” Quick Click Adapter
10’ and 20’ Lengths

Quick Click Columns
8”, 10” and 12”



Quick Click Connector (QCC)
10’ Lengths

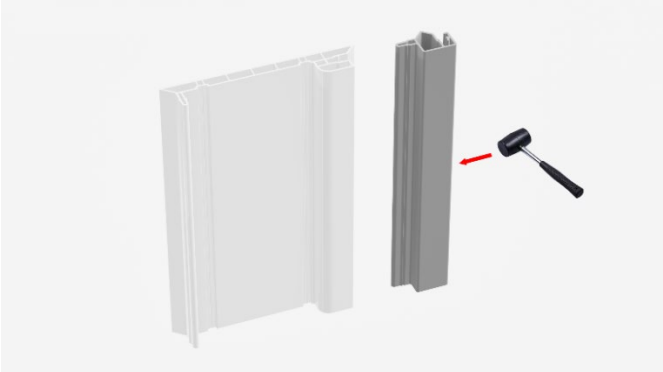
13.3 Installation

Plan the Privacy Wall/ Screen Design

- Before proceeding with installation, carefully plan the layout details of your privacy wall or screen. Key questions to address include:
  - What is the required length and height of the privacy wall or screen.
  - The standard wall height is 10 feet. Shorter walls will require cutting.
- NOTE: Walls must be affixed at base and top.

IMPORTANT: To ensure a proper and secure installation, it is critical to follow the sequencing outlined in this manual. Failure to follow the prescribed sequence may result in compromised connections, including bowing, misalignment, or separation at the joints.

- **Step 1 – Insert Quick Click Connector (QCC) into Column**
  Insert the QCC (grey piece) into the vertical channel of the ChamClad® Column. Use a non-marking rubber mallet to gently tap the QCC into place, ensuring the fin is fully seated and aligned.

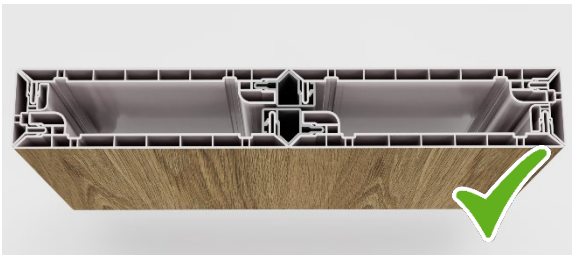


- **Step 2 – Install Opposite Column into QCC**
  Take the second ChamClad® Column and align it with the exposed channel on the installed QCC. Tap it into place using a rubber mallet to form the complete column assembly.

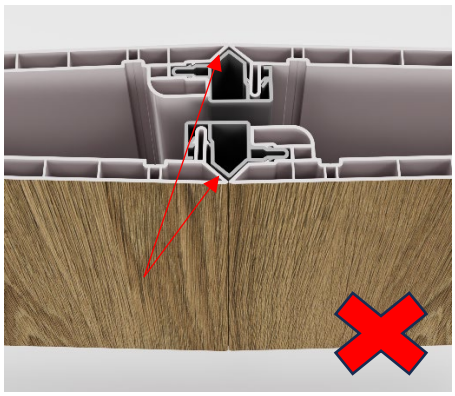
IMPORTANT NOTE:
To prevent bowing or loosening of the privacy wall, the QCC must be fully and securely seated within the column channel, with no visible gaps.

Note: This step is highly dependent on correct sequencing. Deviating from the recommended order of operations at this stage may lead to improper alignment and connection issues.

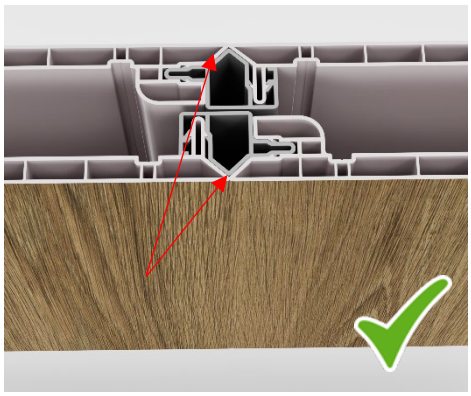
Incorrect installation of QCC to column piece as gaps are present.



Correct installation of column piece where the pieces are snug together.



Gap at the connection which will cause bowing



Correct installation with no gaps present

- **Step 3 – Apply Adhesive and Insert 3" Quick Clip Adapter**

  Apply a small bead of QuadMax® (or approved adhesive) along the edge of the 3" Adapter — avoid over-application to prevent squeeze-out. Insert the 3” Adaptor into the open channel of the column, tapping gently with a rubber mallet until fully seated. This forms the first L-shaped panel assembly.

- **Step 4 – Anchor Internal Blocking for Support**

  After creating the two L-shaped panel assemblies, internal support must be added to anchor the wall structure securely.

  - Install wood blocking or metal L-brackets inside the panel cavity at both the top and bottom of each panel side, as shown in the illustrations.
  - Fasten all supports from the interior side only; ensuring that no exterior fasteners or penetrations are visible from the finished face.

- Each support must be securely attached to a suitable supporting member or substrate (e.g., framing, concrete slab) using appropriate fasteners for the material.
- For interior applications, the type and method of support may vary depending on your finish and substrate. These recommendations are intended as general guidance.

Note on Exterior Use:
While this product is approved for both interior and exterior applications, this installation instruction is primarily intended for **interior use**. For **exterior installations**, refer to the general disclaimer regarding waterproofing, structural anchoring, and material compatibility. The installer is responsible for ensuring compliance with all local building codes and requirements.

Example of Wood Blocking

Example of Metal L- Bracket w/ Blocking

Example of Metal L- Bracket

Step 5 – Complete the Assembly

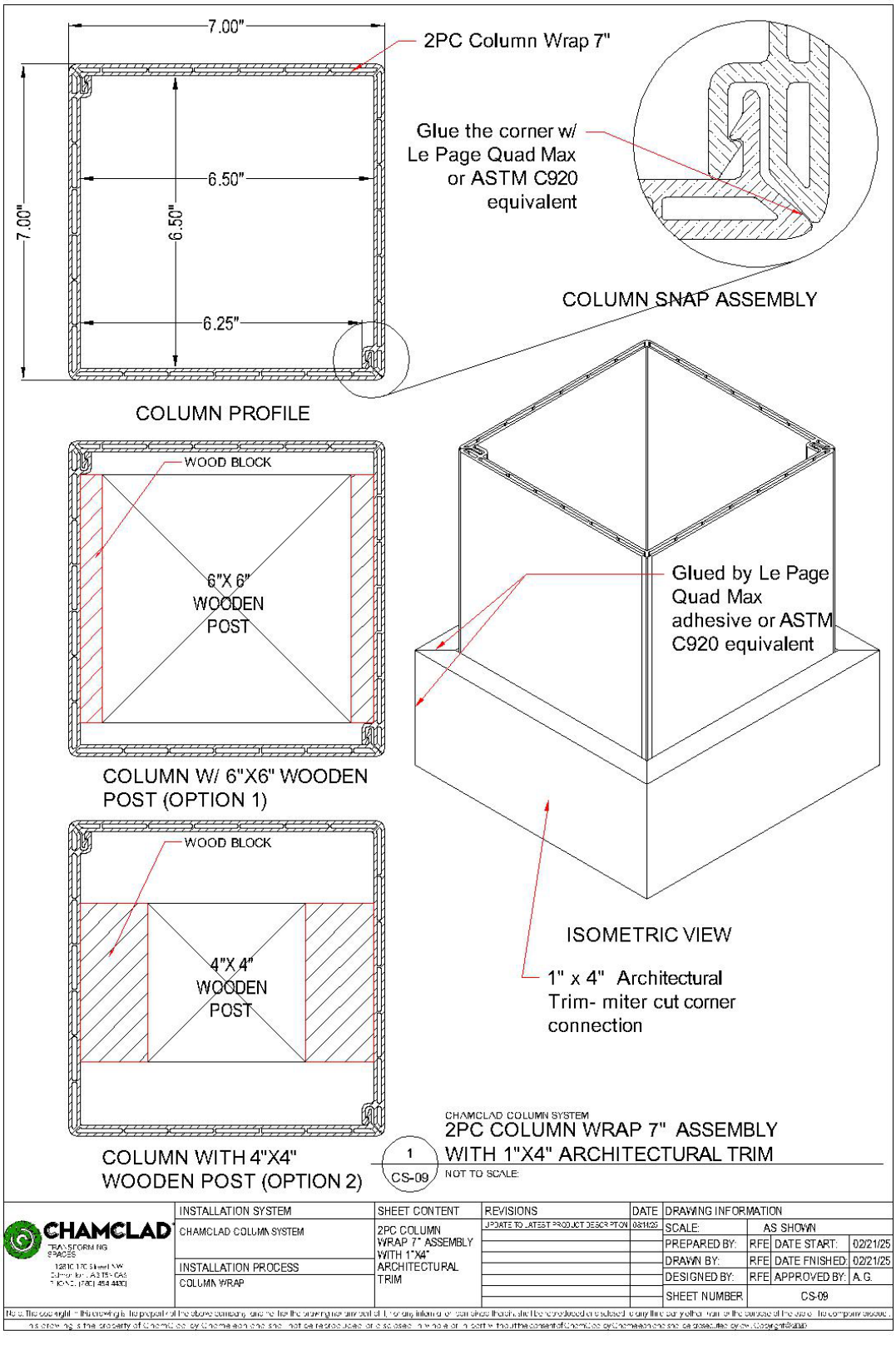
- Before closing the panel, apply a small bead of QuadMax® (or approved adhesive) at the top and bottom PVC-to-PVC connection points, in the same adhesive locations used for the 3" Adapter in Step 3. Avoid over-application to prevent squeeze-out.
- Next, bring the second L-shaped panel assembly into position and carefully align it with the internal blocking installed in the first panel.
- Tap or press the two assemblies together using a non-marking rubber mallet or your hands until the structure is fully closed, and the panels are securely joined.

Step 6 – Final Assembly

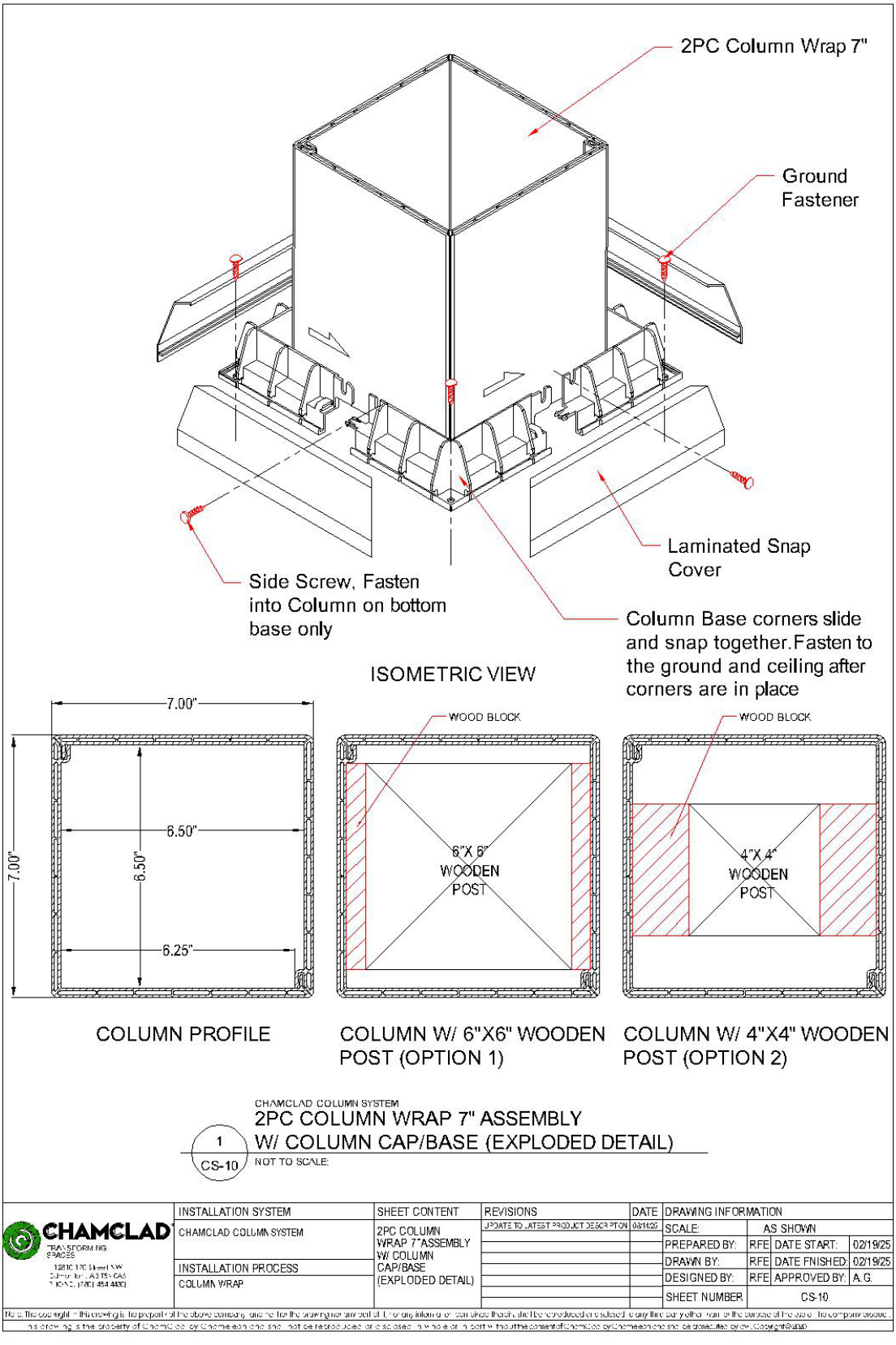
Ensure all connections are tight and aligned.

14.0 ASSEMBLY DRAWINGS

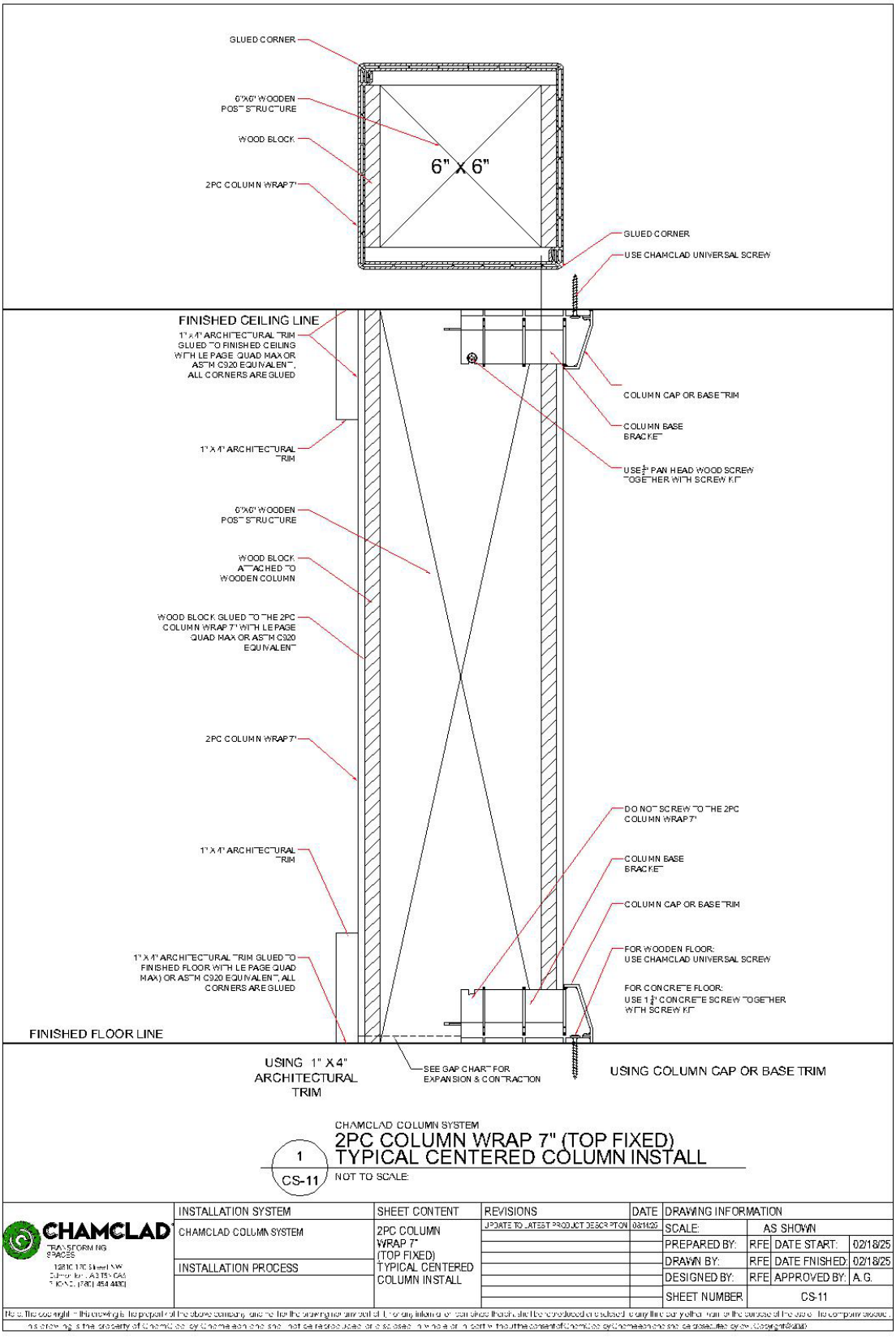
14.1 CS-09 - 2PC Column Wrap 7” Assembly with 1” x 4” Architectural Trim



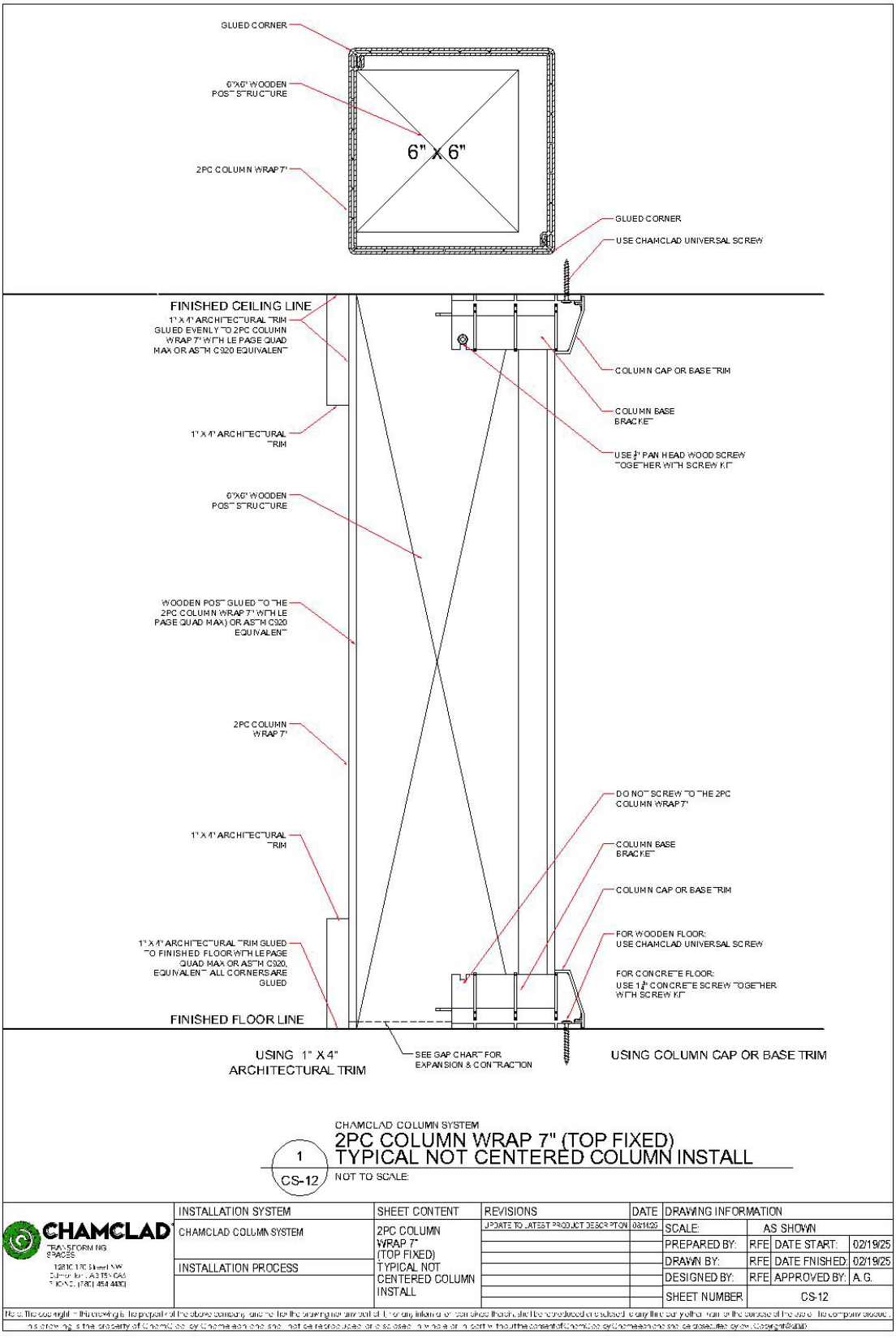
14.2 CS-10 - 2PC Column Wrap 7” Assembly with Column Cap Base



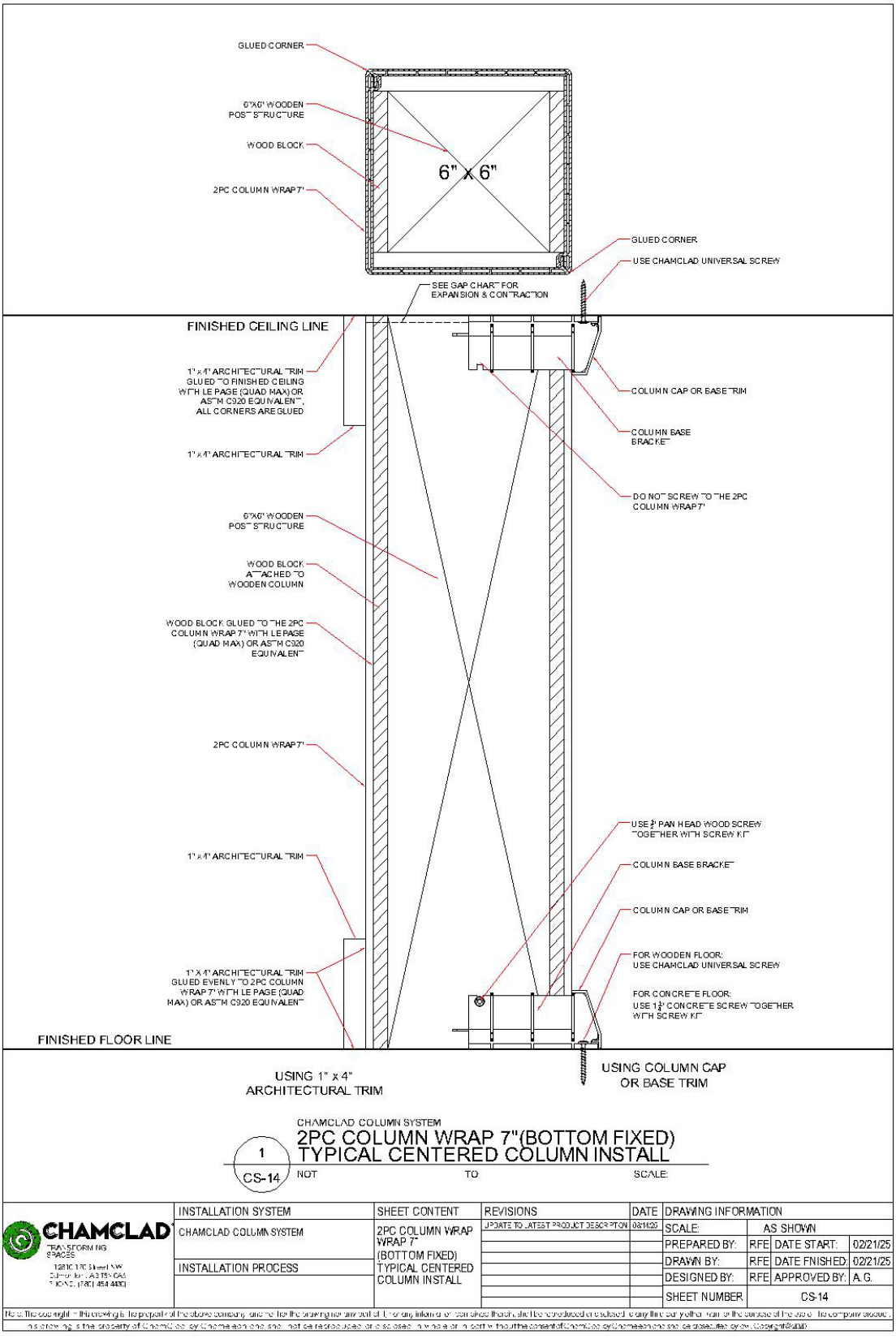
14.3 CS-11 - 2PC Column Wrap 7” (Top Fixed) Typical Centered Column Install



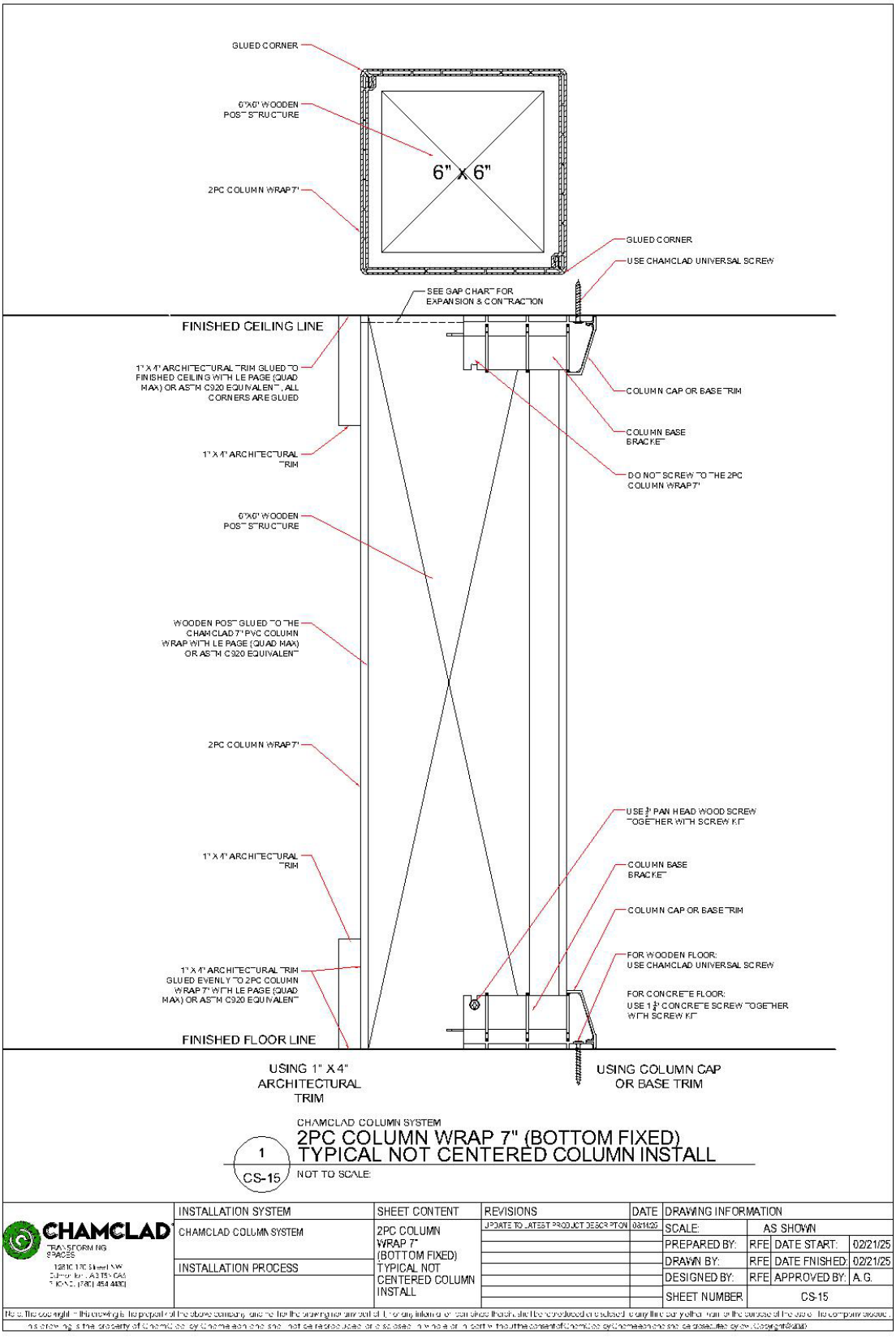
14.4 CS-12 - 2PC Column Wrap 7” (Top Fixed) Typical Not Centered Column Install



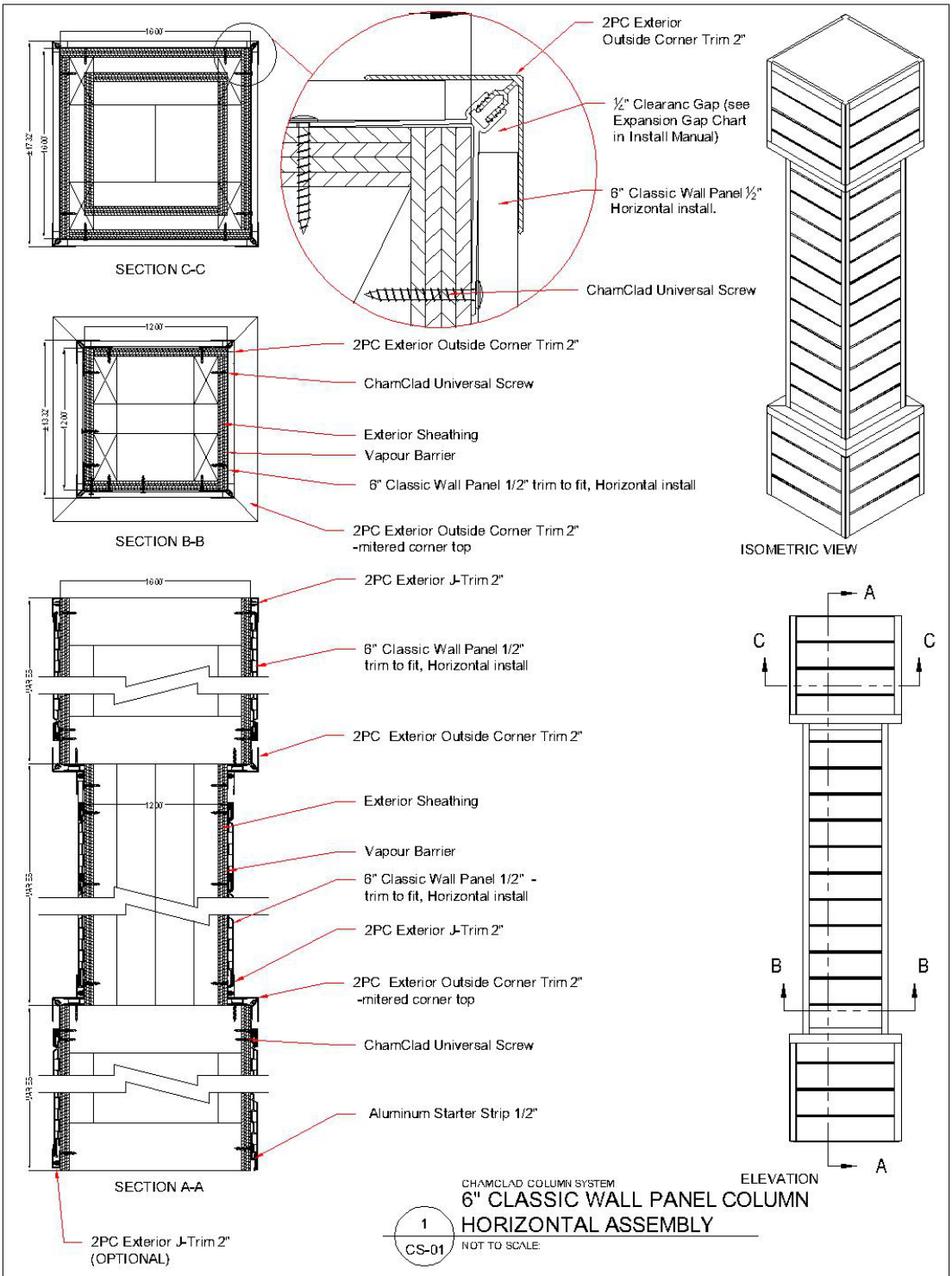
14.5 CS-14 - 2PC Column Wrap 7” (Bottom Fixed) Typical Centered Column Install



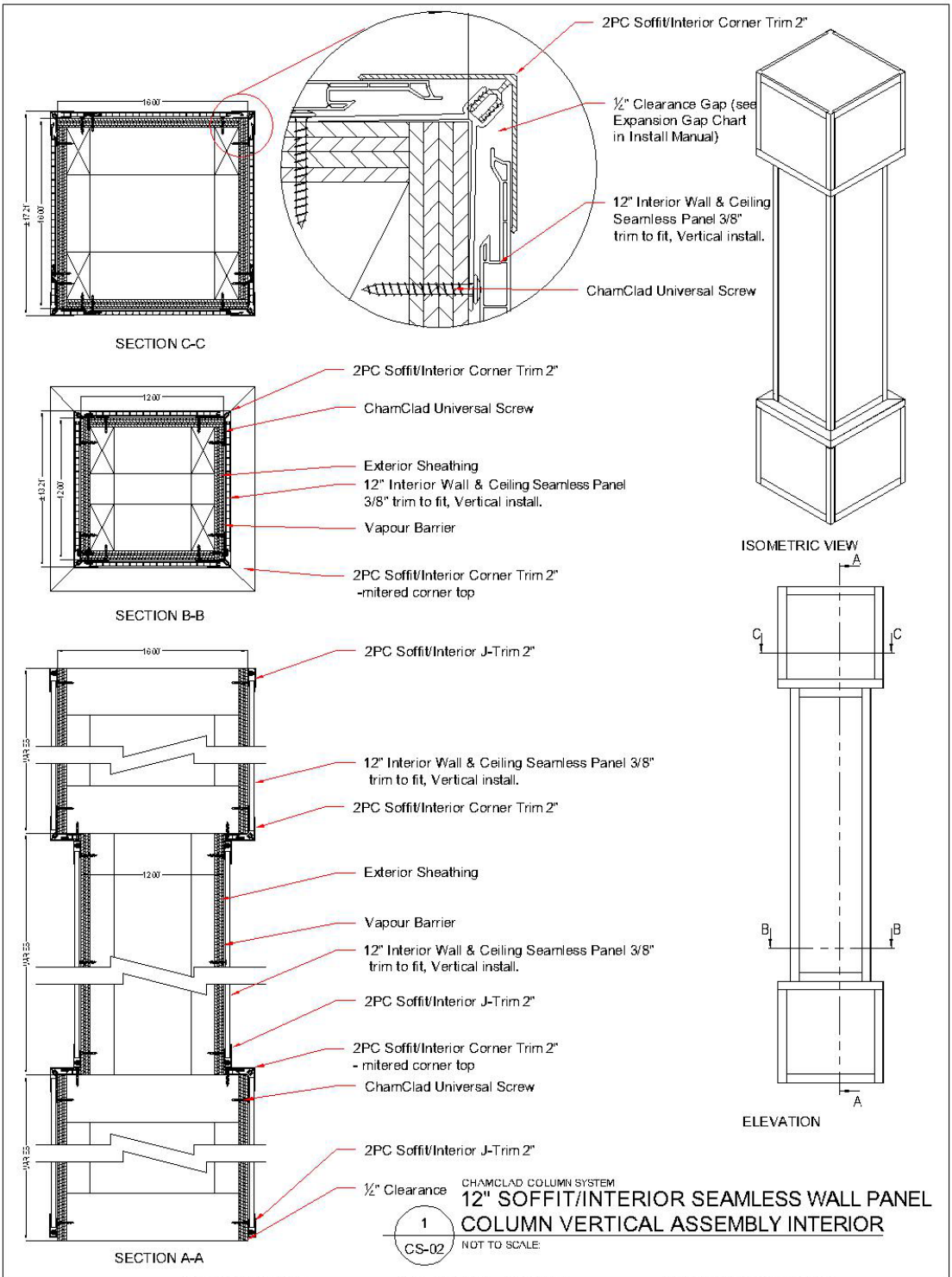
14.6 CS-15 - 2PC Column Wrap 7” (Bottom Fixed) Typical Not Centered Column Install



14.7 CS-01 - 6” Exterior Wall Panel Column – Horizontal Assembly

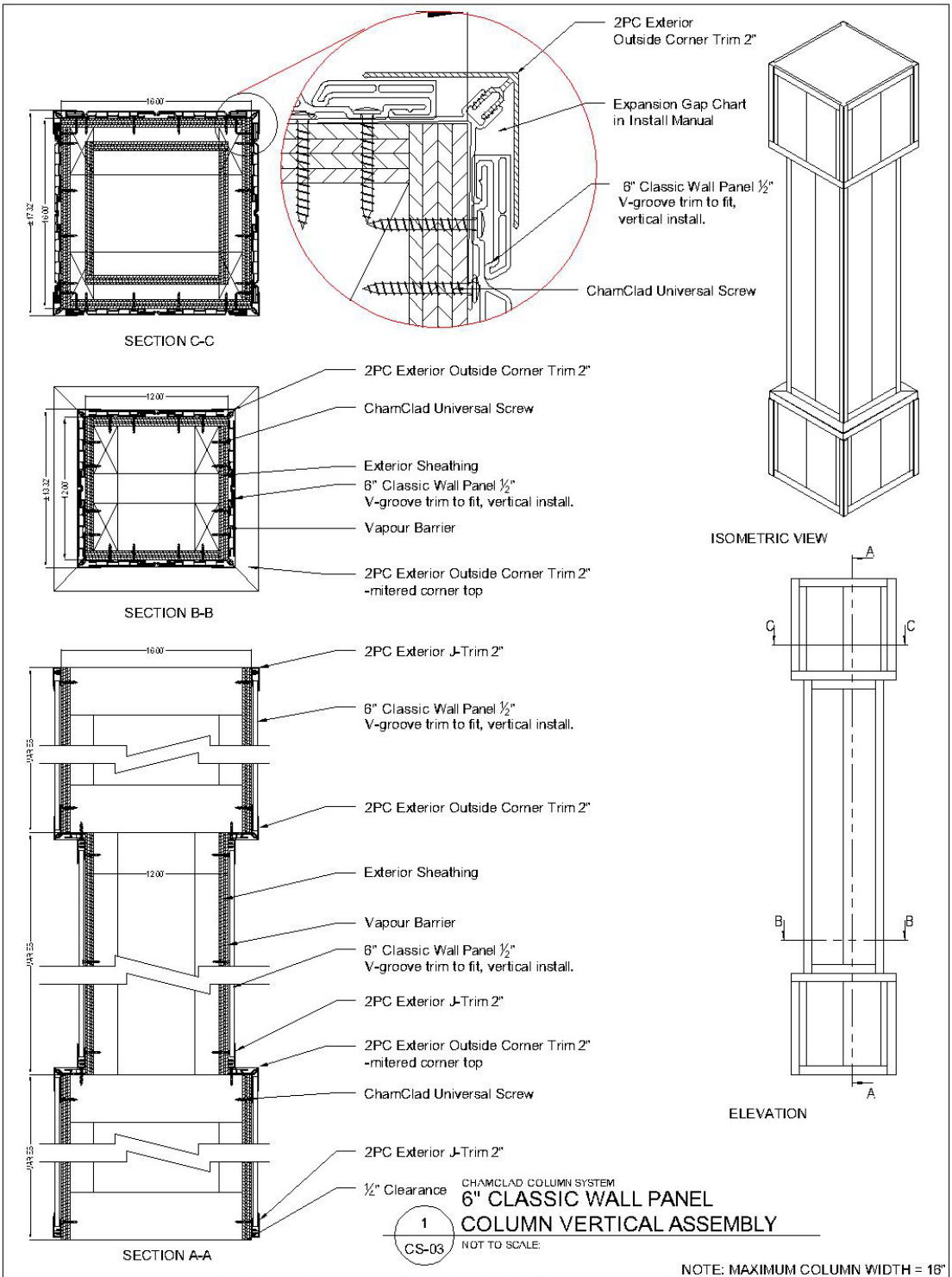


14.8 CS-02 - 12” Soffit/Interior Seamless Wall Panel- Column Vertical Assembly- Interior



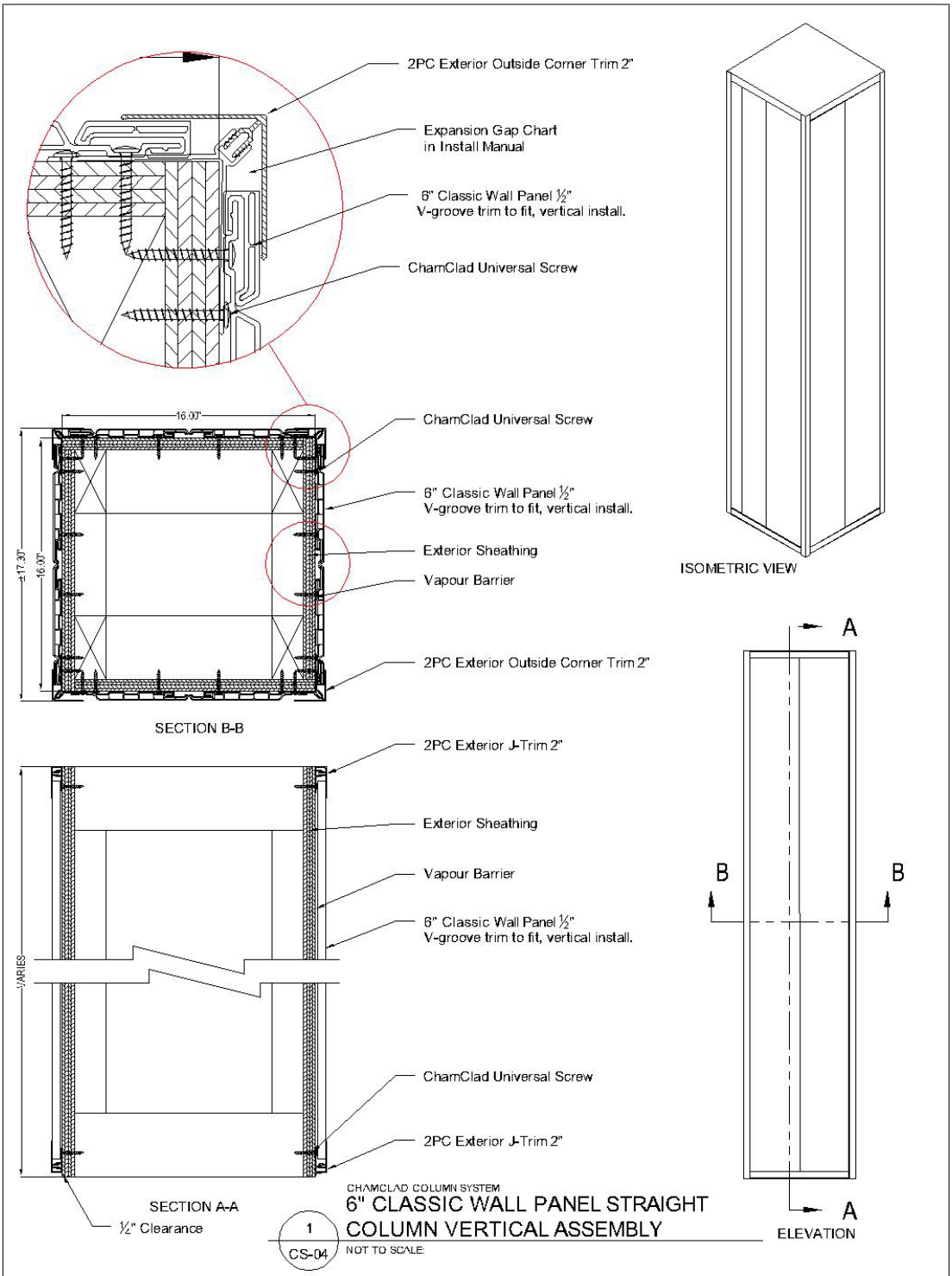
CHAMCLAD TRANSFORMING SPACES	INSTALLATION SYSTEM	SHEET CONTENT	REVISIONS	DATE	DRAWING INFORMATION
	CHAMCLAD COLUMN SYSTEM	12" SOFFIT/INTERIOR SEAMLESS WALL PANEL COLUMN VERTICAL ASSEMBLY INTERIOR	UPDATE TO LATEST PRODUCT DESCRIPTION	08/14/25	SCALE: AS SHOWN
	INSTALLATION PROCESS				PREPARED BY: RFE DATE START: 02/21/25
	VERTICAL INSTALLATION				DRAWN BY: RFE DATE FINISHED: 02/21/25
					DESIGNED BY: RFE APPROVED BY: A.G.
					SHEET NUMBER: CS-02

14.9 CS-03 - 6” Exterior Wall Panel Column – Vertical Assembly



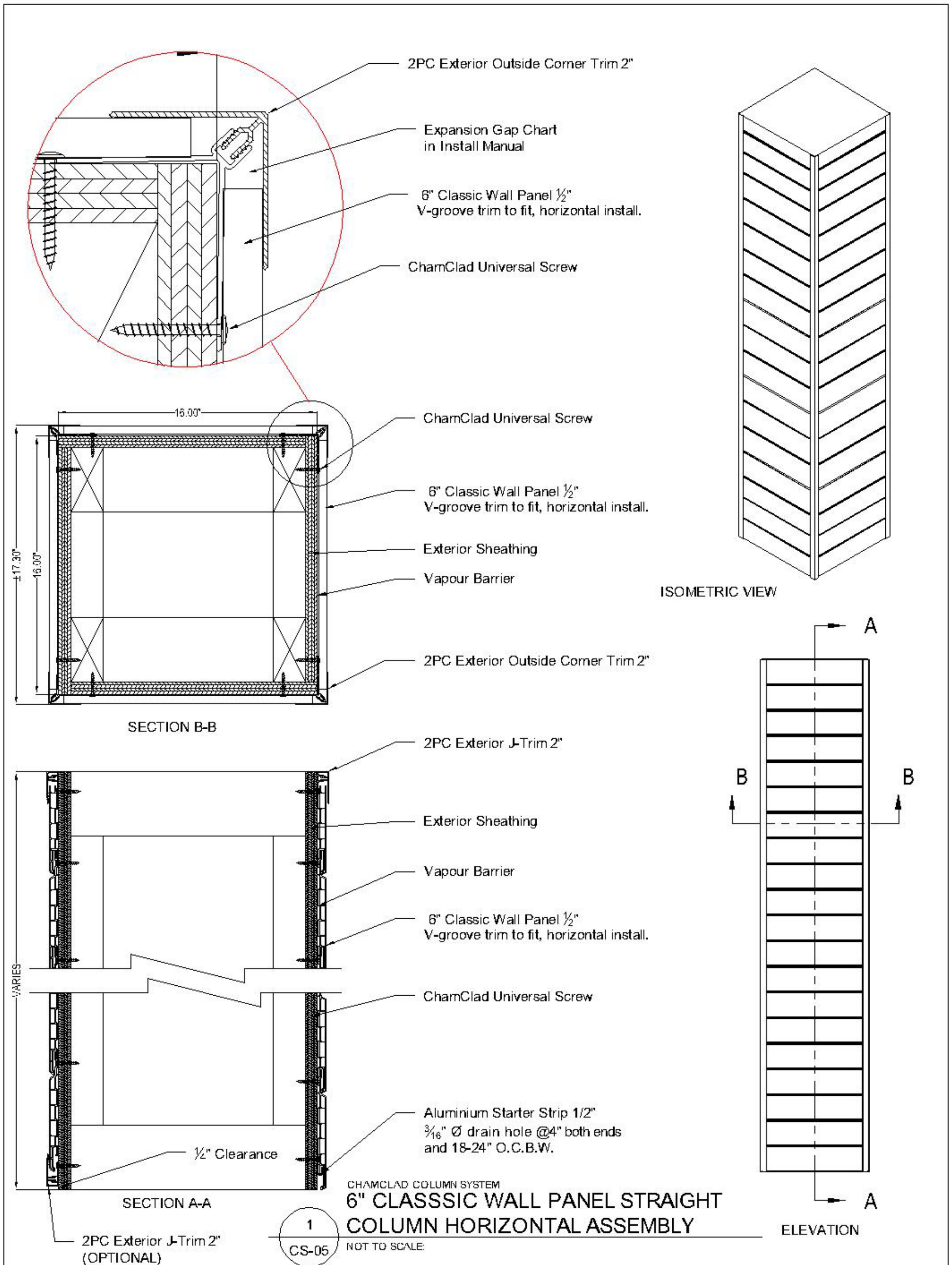
CHAMCLAD TRANSFORMING SPACES	INSTALLATION PROGRAM	SHEET CONTENT	REVISIONS	DATE	DRAWING INFORMATION	
	CHAMCLAD COLUMN SYSTEM	6" CLASSIC WALL PANEL COLUMN VERTICAL ASSEMBLY	UPDATE TO LATEST PRODUCT DESCRIPTION	08/11/25	SCALE:	AS SHOWN
	INSTALLATION PROCESS				PREPARED BY: RFE	DATE START: 11/12/23
	VERTICAL INSTALL				DRAWN BY: RFE	DATE FINISHED: 11/12/23
					DESIGNED BY: RFE	APPROVED BY: A.G.
					SHEET NUMBER	CS-03

14.10 CS-04 - 6” Exterior Wall Panel Straight Column – Vertical Assembly



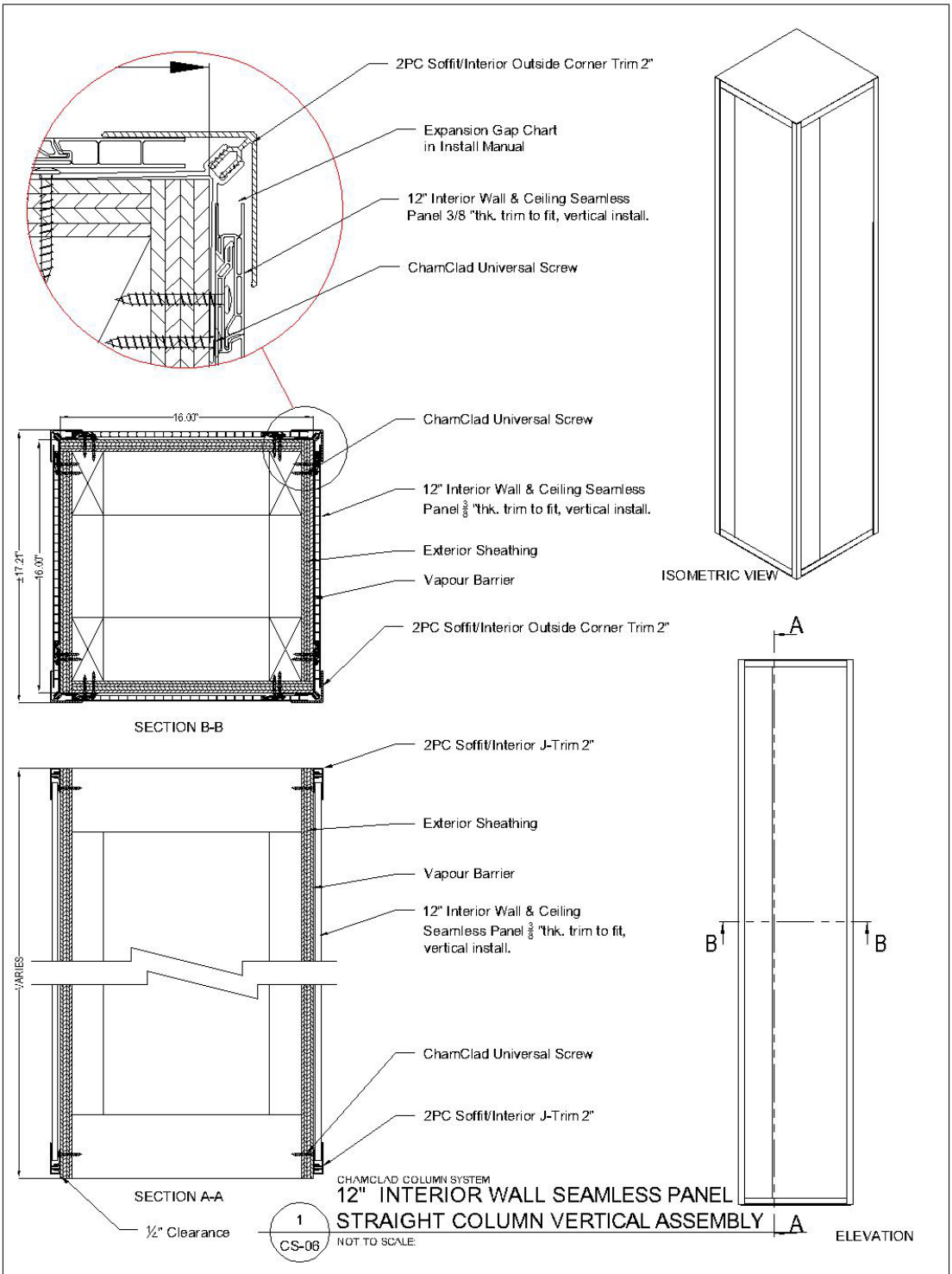
CHAMCLAD TRANSFORMING SPACES	INSTALLATION SYSTEM: CHAMCLAD COLUMN SYSTEM	SHEET CONTENT: 6" CLASSIC WALL PANEL STRAIGHT COLUMN VERTICAL ASSEMBLY	REVISIONS: UPDATE TO LATEST PRODUCT DESCRIPTION	DATE: 04/14/25	DRAWING INFORMATION: SCALE: AS SHOWN; PREPARED BY: RFE; DATE START: 11/15/23; DRAWN BY: RFE; DATE FINISHED: 11/15/23; DESIGNED BY: RFE; APPROVED BY: A.G.; SHEET NUMBER: CS-04
	INSTALLATION PROCESS: VERTICAL INSTALLATION				

14.11 CS-05 - 6” Exterior Wall Panel Straight Column –Horizontal Assembly

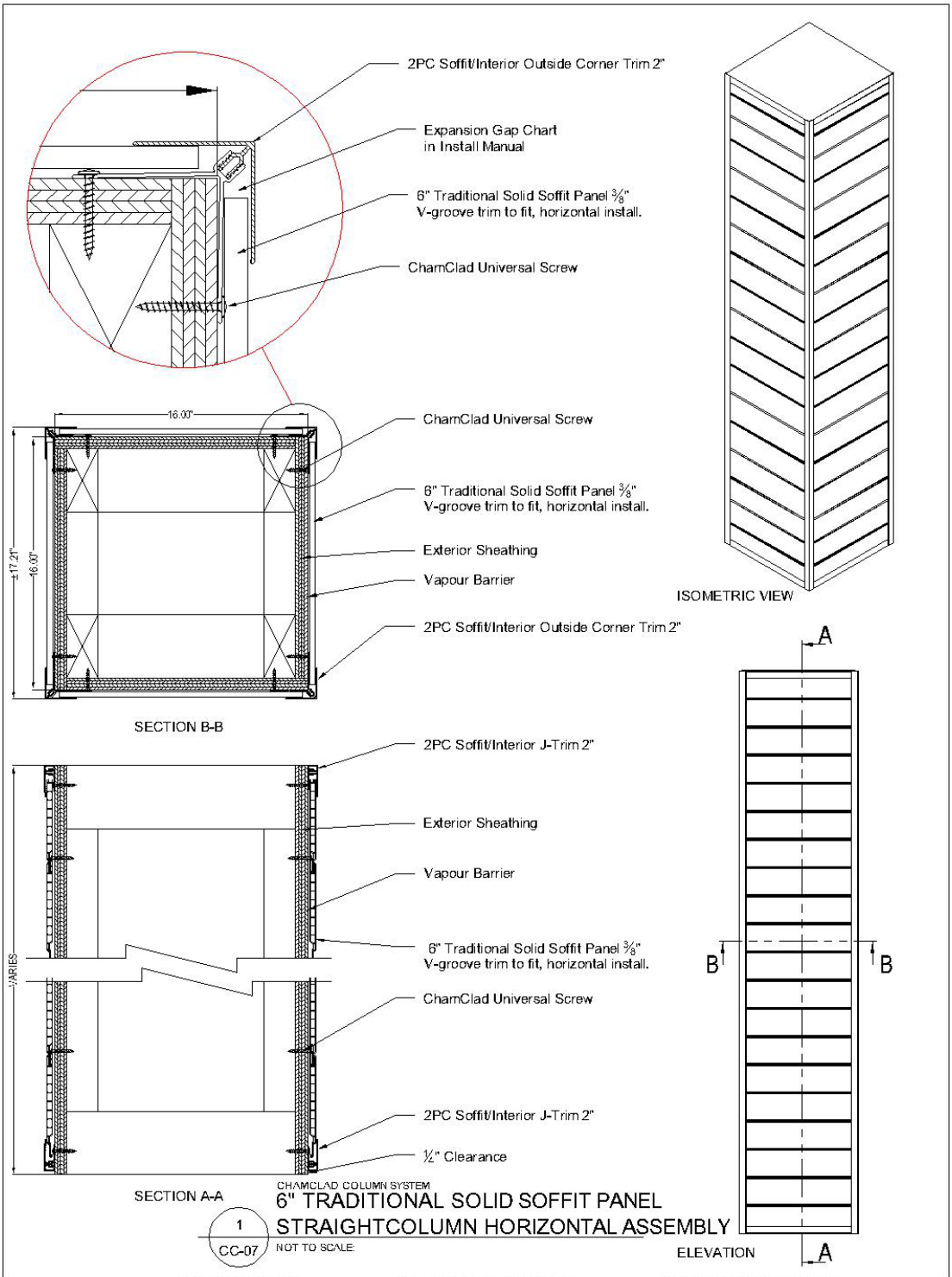


CHAMCLAD TRANSFORMING SPACES	INSTALLATION SYSTEM	SHEET CONTENT	REVISIONS	DATE	DRAWING INFORMATION			
	CHAMCLAD COLUMN SYSTEM	6" CLASSIC WALL STRAIGHT COLUMN HORIZONTAL ASSEMBLY	UPDATE TO LATEST PRODUCT DESCRIPTION	08/14/25	SCALE:	AS SHOWN		
					PREPARED BY:	RFE	DATE START:	11/12/23
	INSTALLATION PROCESS				DRAWN BY:	RFE	DATE FINISHED:	11/12/23
	HORIZONTAL INSTALLATION				DESIGNED BY:	RFE	APPROVED BY:	A.G.
					SHEET NUMBER	CS-05		

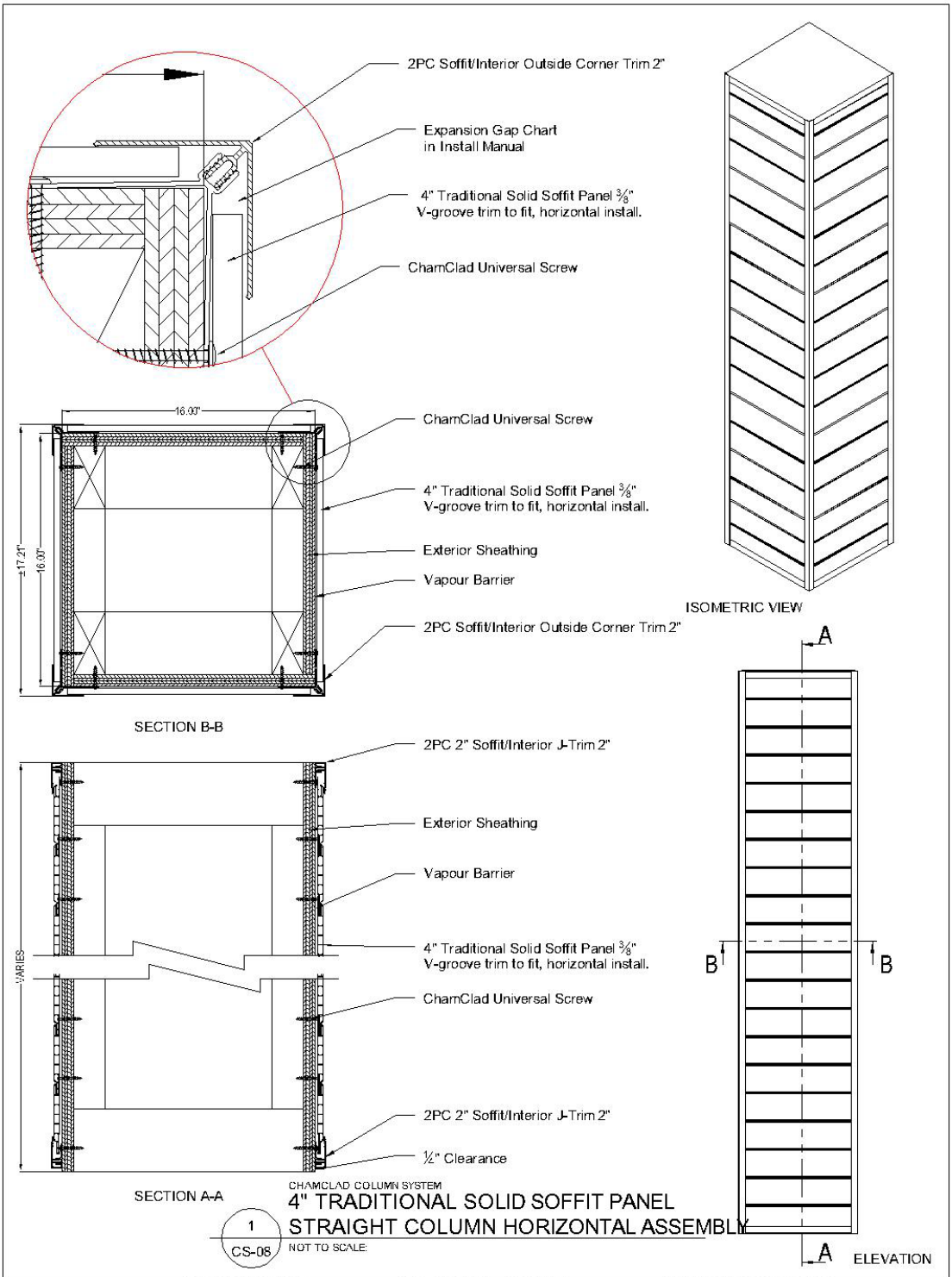
14.12 CS-06 - 12” Interior Wall Seamless Panel Straight Column – Vertical Assembly



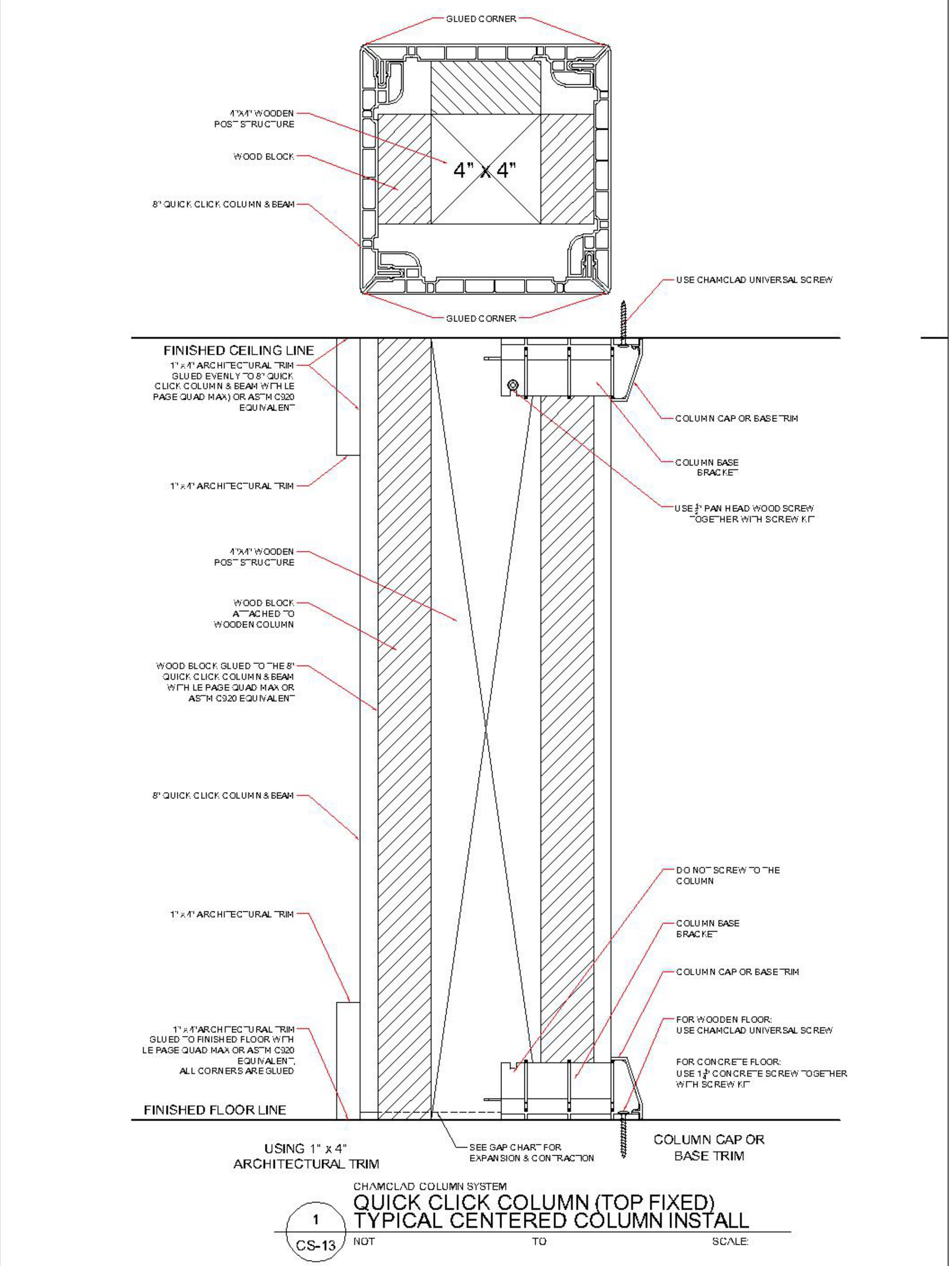
14.13 CS-07 - 6” Traditional Soffit Panel Straight Column – Horizontal Assembly



14.14 CS-08 - 4” Traditional Soffit Panel Straight Column – Horizontal Assembly

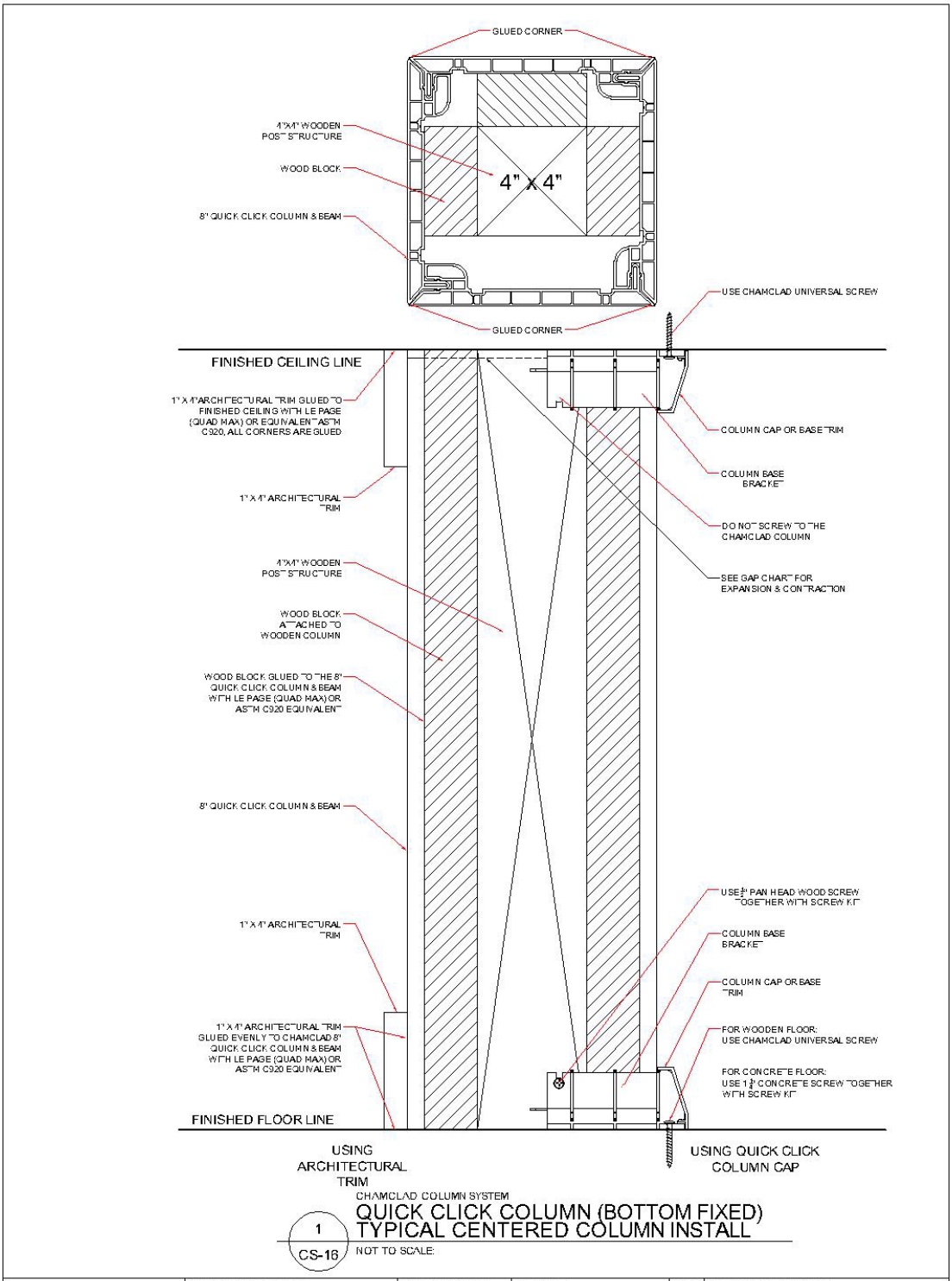


14.15 CS-13 - Quick Click Column (Top Fixed) Typical Centered Column Install

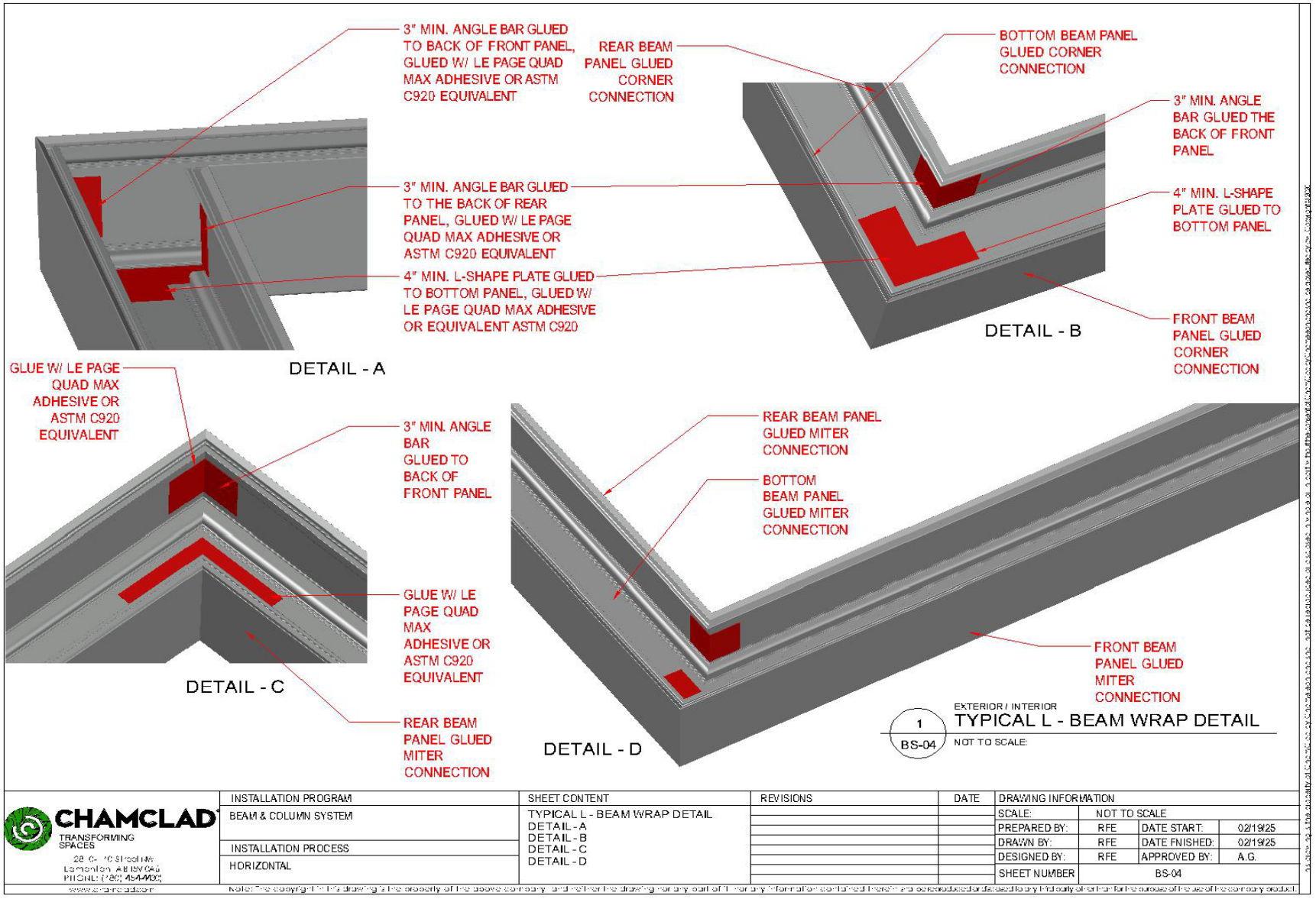


CHAMCLAD	INSTALLATION SYSTEM	SHEET CONTENT	REVISIONS	DATE	DRAWING INFORMATION			
TRANSFORMING SPACES	CHAMCLAD COLUMN SYSTEM	QUICK CLICK COLUMN (TOP FIXED) TYPICAL CENTERED COLUMN INSTALL	UPDATE TO LATEST PRODUCT DESCRIPTION	08/14/25	SCALE:	AS SHOWN		
					PREPARED BY:	RFE	DATE START:	02/19/25
	INSTALLATION PROCESS				DRAWN BY:	RFE	DATE FINISHED:	02/19/25
					DESIGNED BY:	RFE	APPROVED BY:	A.G.
					SHEET NUMBER	CS-13		

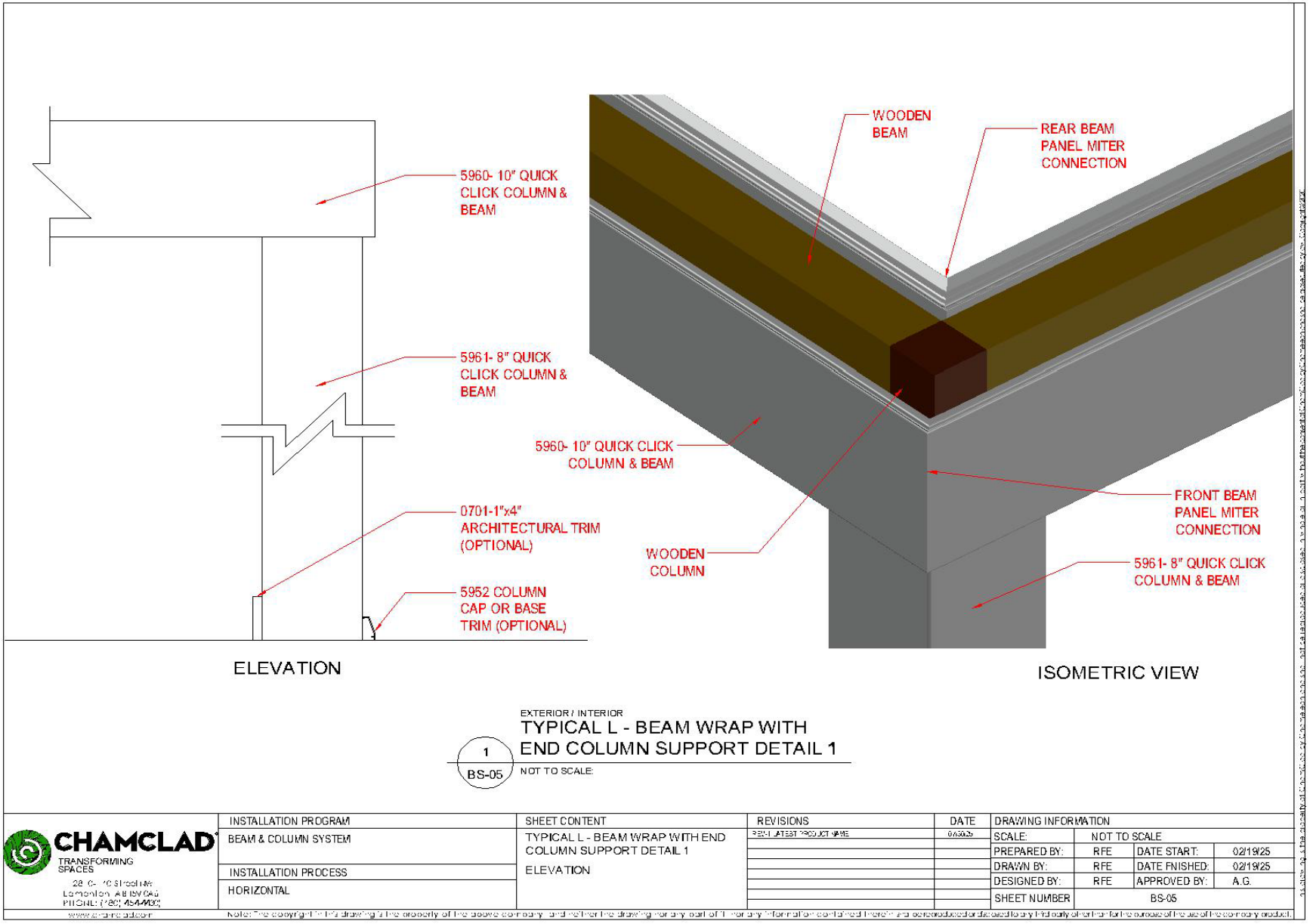
14.16 CS-16 - Quick Click Column (Bottom Fixed) Typical Centered Column Install



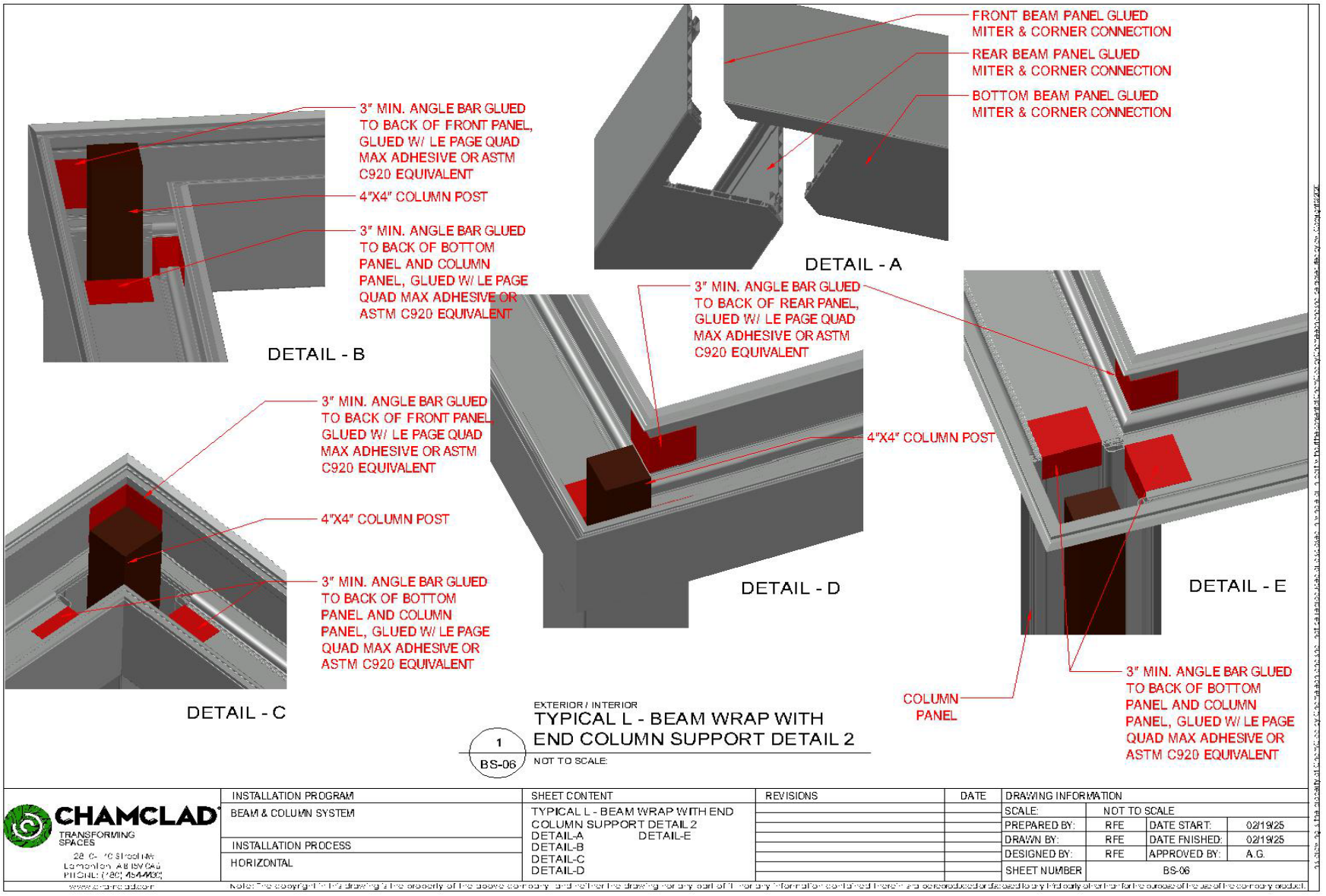
14.17 BS-04 – Typical L- Beam Wrap Detail



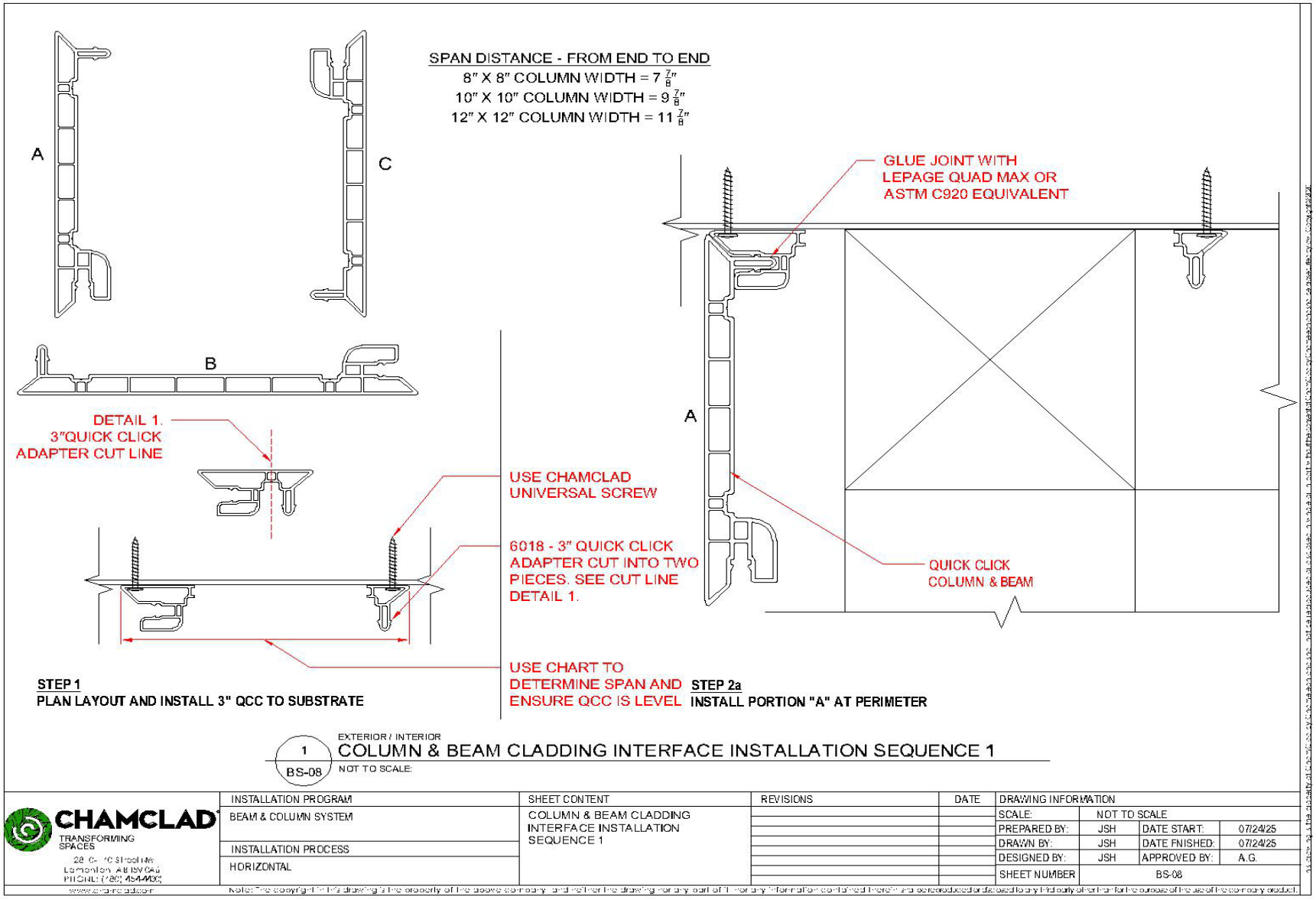
14.18 BS-05 - Typical L- Beam Wrap Detail with End Column Support Detail 1



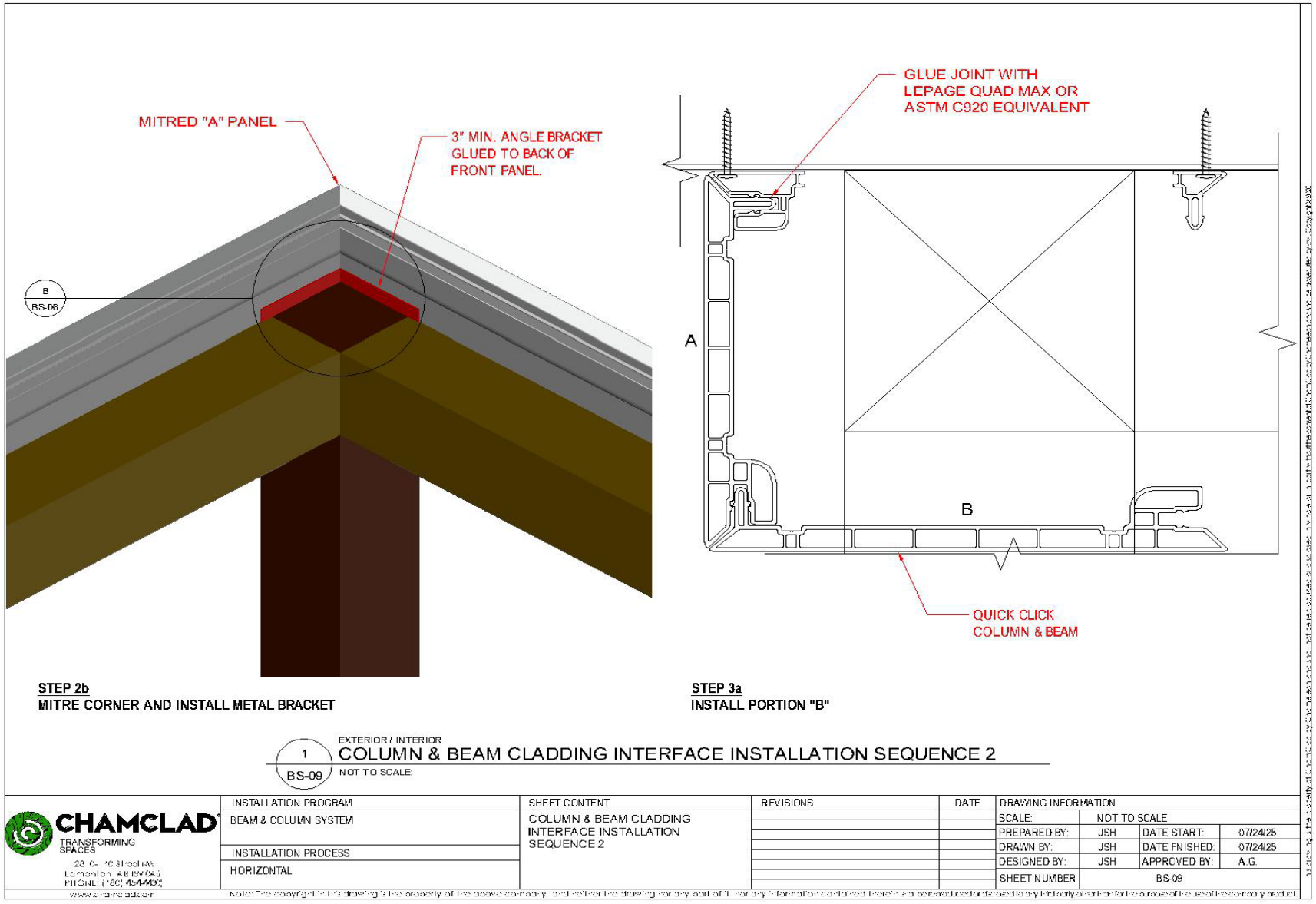
14.19 BS-06 - Typical L- Beam Wrap Detail with End Column Support Detail 2



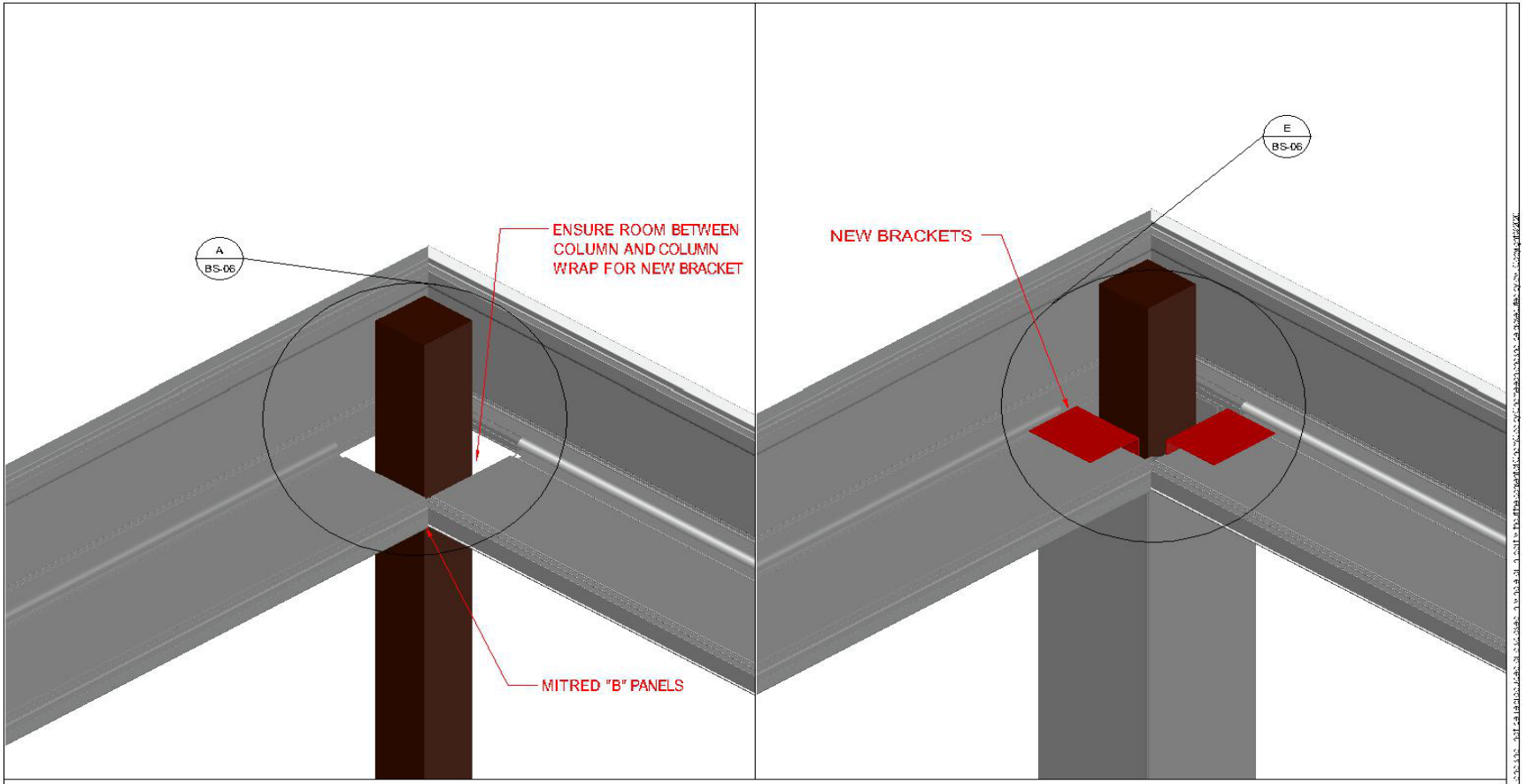
14.20 BS 08 – Column & Beam Cladding Interface Installation Sequence 1



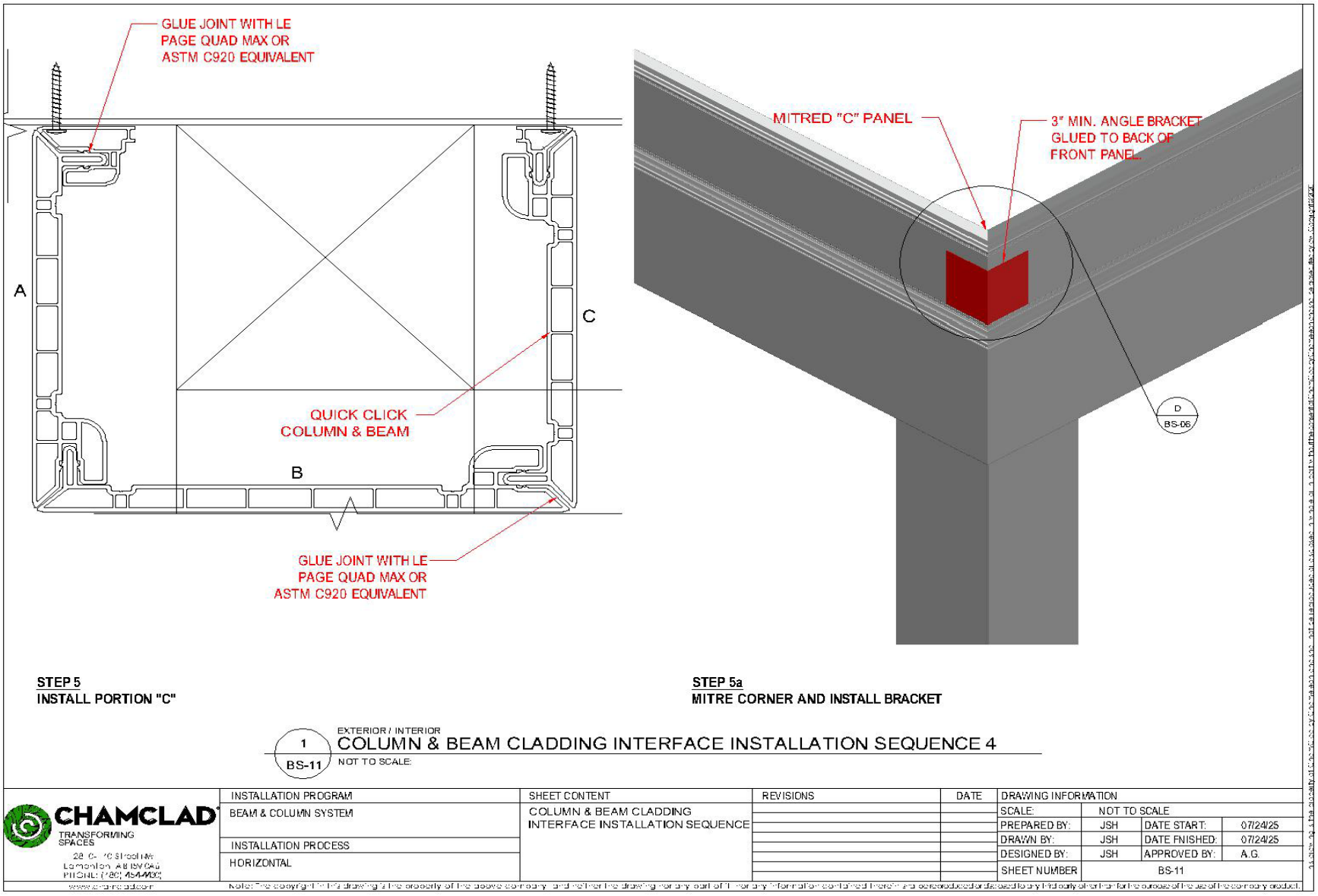
14.21 BS-09 - Column & Beam Cladding Interface Installation Sequence 2



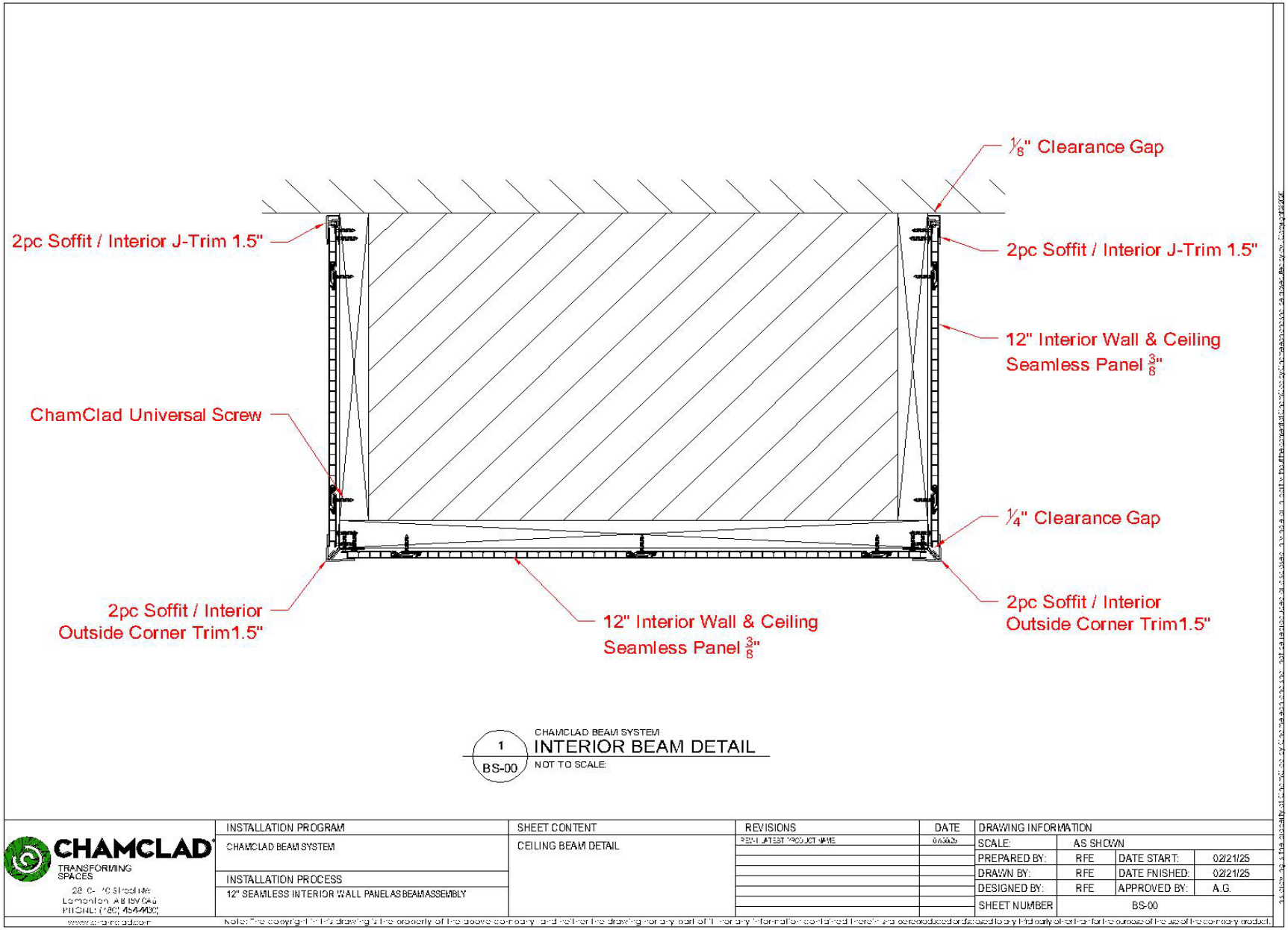
14.22 BS-10 - Column & Beam Cladding Interface Installation Sequence 3



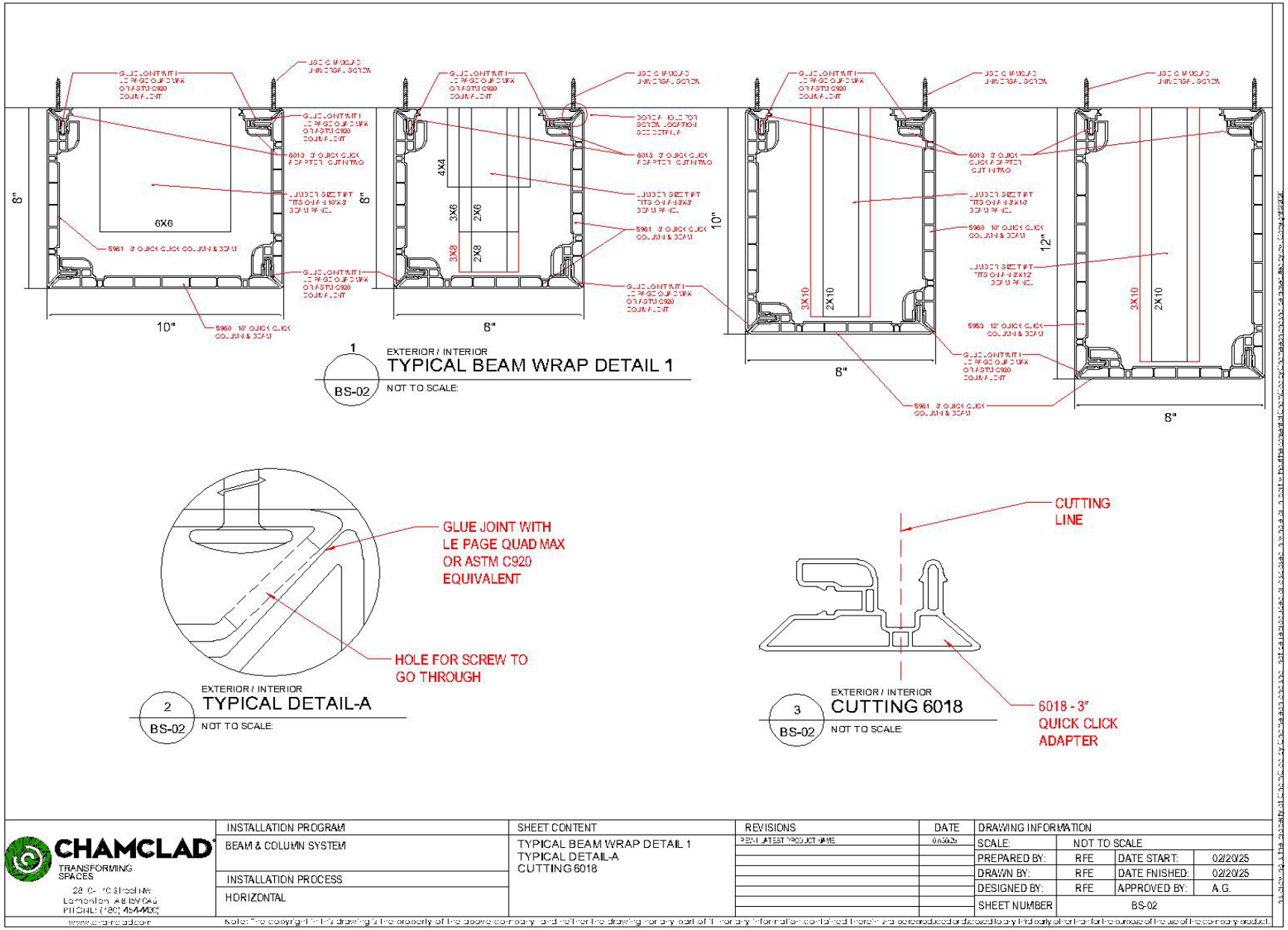
14.23 BS-11 - Column & Beam Cladding Interface Installation Sequence 4



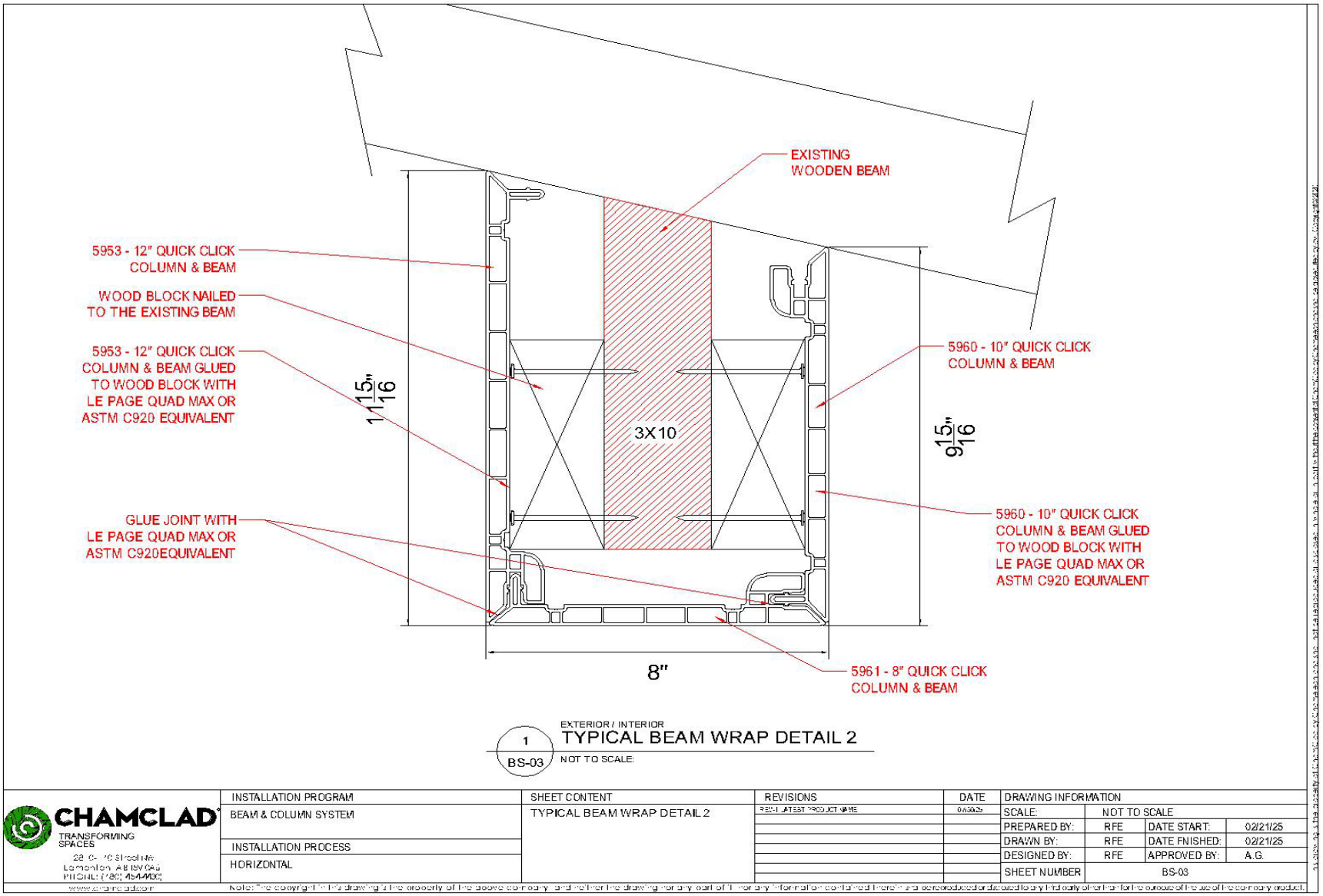
14.24 BS-00 – Interior Beam Detail



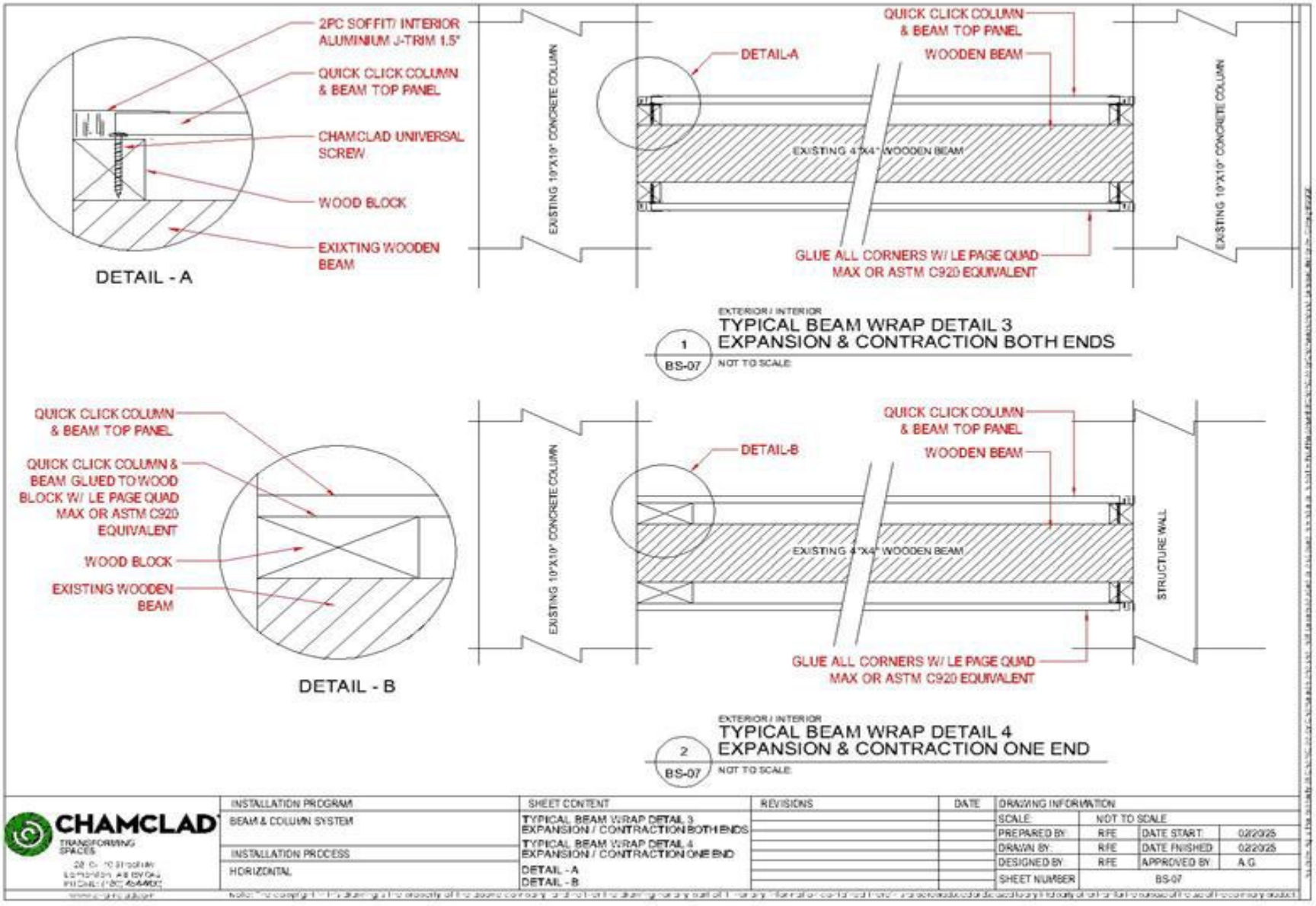
14.25 BS-02 – Typical Beam Wrap Detail 1



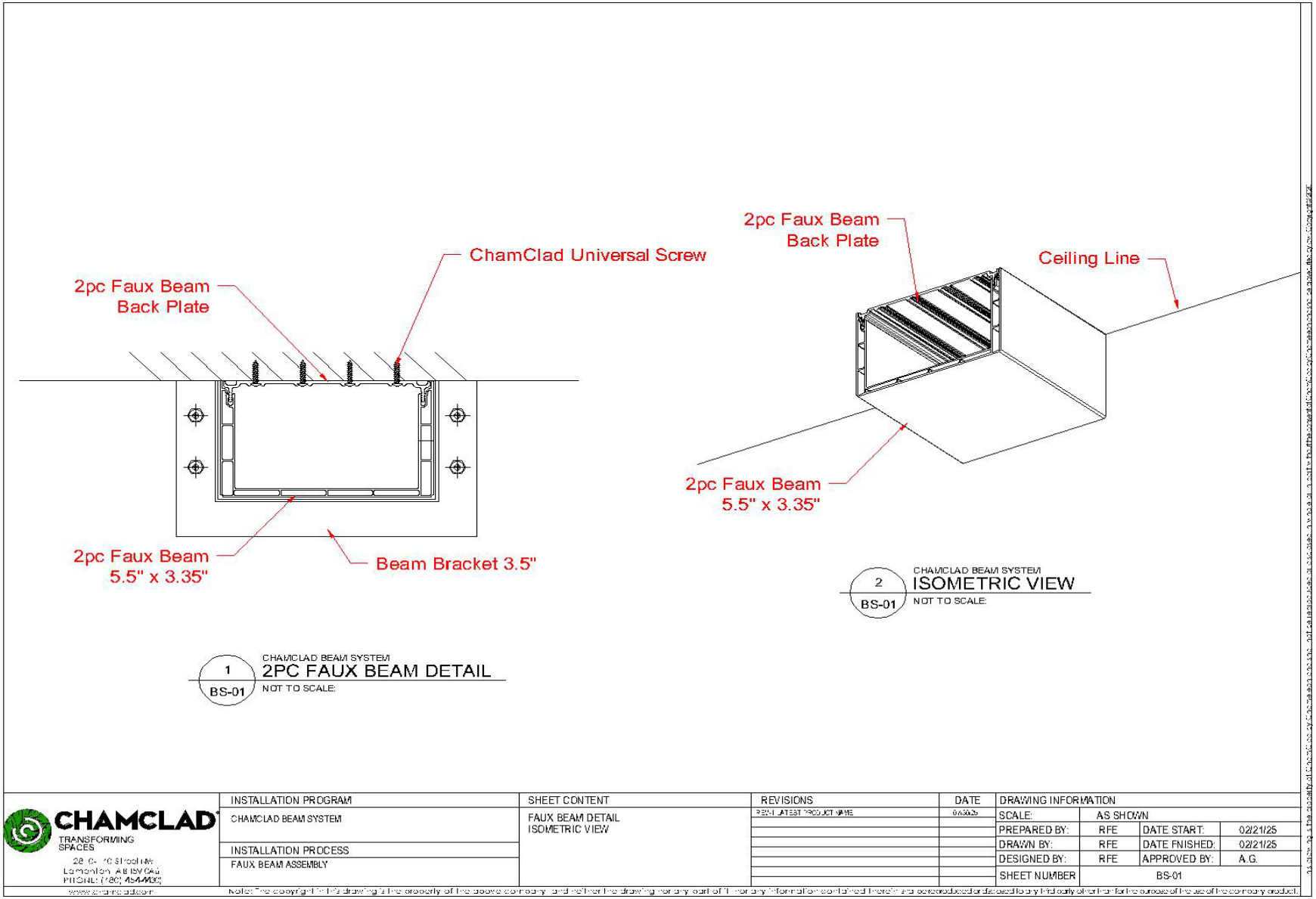
14.26 BS-03 – Typical Beam Wrap Detail 2



14.27 BS-07 - Typical Beam Wrap Detail 3 and 4 – Expansion & Contraction Both Ends



14.28 BS-01 – 2PC Faux Beam Detail



Revised August 22, 2025