LONGBOARD®
ARCHITECTURAL PRODUCTS

Interior

Panelboard Walls

Installation Guidelines

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Material Specifications

Finishes

- Longboard Products are available in a wide range of woodgrains and solid colors
- Custom solid colors are available upon request
- Longboard woodgrains have a repeat pattern, shipped in sets mated back-to-back in each box. Install these as they come out of the box, as an A&B pattern (need to assess onsite), staggering each plank approx. 1-2' (305-610mm) from the previous plank to achieve a random pattern aesthetic.
- Longboard Products are not recommended for use on marine applications in direct contact with salt water.

All Longboard Products are produced 1" (25mm) oversized, as one end is drilled for the coating process, and both ends have 1/2" (12mm) of masking tape (woodgrains only) which must be cut off for best results.
Longboard Cladding is to be installed outboard of a weather resistant barrier, including all flashings, following code, and building requirements.

Expansion & Contraction

Planks & components expand & contract 1/4" (6mm) over 24' (7.3m) in all directions, measured over a 30℃ (54℉) temperature range. Due to this range of movement, the following expansion components should be installed parallel and perpendicular every:

Horizontal Install

● 24' (7.3m) max[1] [2]	Perpendicular to Planks: Traditional U-Reveal Set Parallel to Planks (at each floor elevation): Compression Joint

Vertical Install

● 24' (7.3m) max[2]	Parallel and/or Perpendicular to Planks: Traditional U-Reveal Set, J-Tracks back-to-back

[1]Note: 40' (12.2m) max if using staggered butt-joints.
[2]Note: Through-wall flashing (where required) at every floor elevation.

Other options (Perpendicular to Planks only)

● 12' (3.7m)	-Craftsman U-Reveal Set

When using expansion components, each plank must terminate into a minimum of one (1) component to allow for expansion & contraction.
See: Appendix for tables of expansion/contraction calculations per foot/meter of material.

Material Ordering & Delivery

● Packaging:	Planks are sold in box quantities: 6" Smooth: 96 SQ FT/Box (8/24's) w. 90pcs Quick-Screen Clips included Components are sold individually by the 12' (3.7m) length.
● Shipping:	Lead time is 3-6 business days* + shipping *(*subject to change)*, delivered on 24' (7.3m) long skids weighing up to 2000 lbs. A mechanical lift with forks is required on site to receive the order.
● QC:	Always inspect the delivery for damage and contact LB ASAP if there are any issues: info@longboardproducts.com or 1-800-604-0343 and include your PO# and any pictures if possible. Mark the delivery receipt as "damaged" and accept the delivery as-is. Longboard is not responsible for the installation of blemished or damaged material.

Storage & Handling
Be sure to store the material flat, keep it dry, safe & secure and remain in unopened cartons until ready to be installed.
See Appendix for proper handling and care instructions.

Cleaning Recommendations
While Longboard finishes require zero maintenance, we do recommend periodic cleaning to keep the product looking its best. Our finish is tested to withstand corrosion, fading and normal wear, however, neglect and rough conditions could have negative effects on the surface finish. Your Longboard products should be cleaned immediately after installation. See the cleaning guide for our suggestions based on soil level. Basic methods use a combination of moderate water pressure, soft sponge/brush and a mild detergent.

See Cleaning Guide for full requirements: longboardproducts.com

⚠ NEVER use aggressive acid or alkaline cleaners on Longboard finishes. Do not use cleaners containing Trisodium Phosphate, Phosphoric Acid, Hydrochloric Acid, Hydrofluoric Acid, Fluorides, or any other compound that is known to react with metal.
Always follow the product instructions for dilution. Cleaning the surface with a cleanser that is not diluted may result in damage to the coating.

Warranty
Upon substantial completion of the project, register for warranty online here: longboardproducts.com/warranty
⚠ Registration is required for the warranty to be in effect.

Components

Components (Typical)

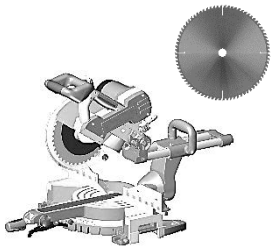
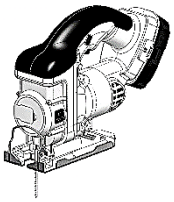
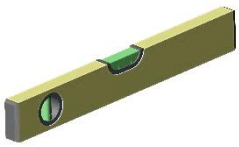
The Panelboard system consists of many components used in conjunction with each other to create a panelized look. For all LB components go to longboardproducts.com.

 **6” Smooth Plank** 6PSP.289	 **J- Track** 1JT.145	 **Corner Set** 2CORS.145	 **Starter J-Track** 1SJT.145
 **Two Piece J-Track** 1X1JT.145	 **T&G U-Reveal** 2TGURK.289	 **U-Reveal Set** 2URS.145	 **Termination Set** 1TS.145

Tools/Cutting/Fastening

Tools

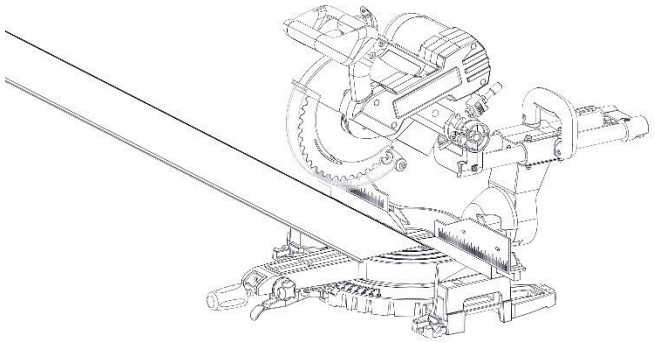
Commonly used tools for Panelboard install.

			
Table Saw with Carbide Metal Blade Non-ferrous 60-80T (for cutting aluminum)	Miter Saw with Carbide Metal Blade Non-ferrous 60-80T (for cutting aluminum)	Cordless Drill with clutch	Jig Saw (for protrusions)
			 *Length, thread and point to suit substrate
Rubber Mallet (or Hammer)	Level	Hole Saw (for lighting fixtures)	#8 Pan Head Screws

Cutting

⚠ Always be sure to wear appropriate PPE: eye & hearing protection.

Cut planks using a Miter Saw and Table Saw, always allowing for expansion & contraction. Trim the taped/drilled ends of all stock length material by at least **1/2“ (12mm) each end** and discard.



Fastening

Fasteners must be corrosion resistant and comply with all local building codes.

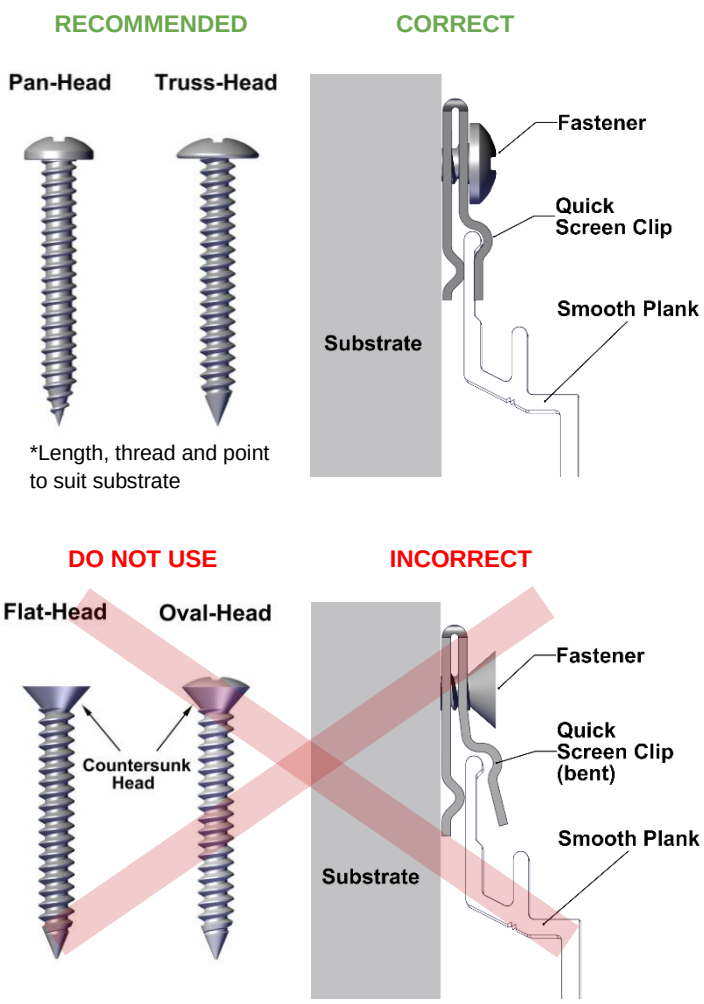
⚠ All fasteners should be suitable for exterior use and be compatible with the substrate type. **Fasteners should be anchored into a solid secure framing member, blocking or furring strip. For vertical applications when the framing member is not available, install diagonal furring strips to securely fasten planks.**

Perimeter components should be hard fastened every **16" (406mm) O.C.** directly through the flange using #8 pan-head screws (supplied by others). These components should be fastened within **8" (203mm)** of the end for secure fastening.

Planks & starter components are secured using Longboard **Quick-Screen Clips** fastened to the substrate every **32" (813mm) O.C.** using #8 pan-head screws (supplied by others). The Quick-Screen Clips are included in the order for 32" (813mm) spacings.

⚠ See **Appendix for project specific fastener specs:**
Quick Screen Clip - Wind Load Tables 3 & 4

Fastener types



Framing requirements

Always consult your local building authority and follow local building code requirements.

Wood Framing

- Size: 2x4 minimum
- Spacing: 16" (406mm) O.C. (see Appendix Table 3 & 4 for reference)

Metal Framing

- Gauge: 20 ga. minimum (see Appendix Table 3 & 4 for reference)
- Spacing: 16" (406mm) O.C. (see Appendix Table 3 & 4 for reference)

Concrete/CMU

Wood or metal furring is recommended over concrete and CMU.

Wood Furring:

- Size: 2x2 minimum
- Type: Pressure treated lumber
- Spacing: 16" (406mm) O.C.

Metal Furring:

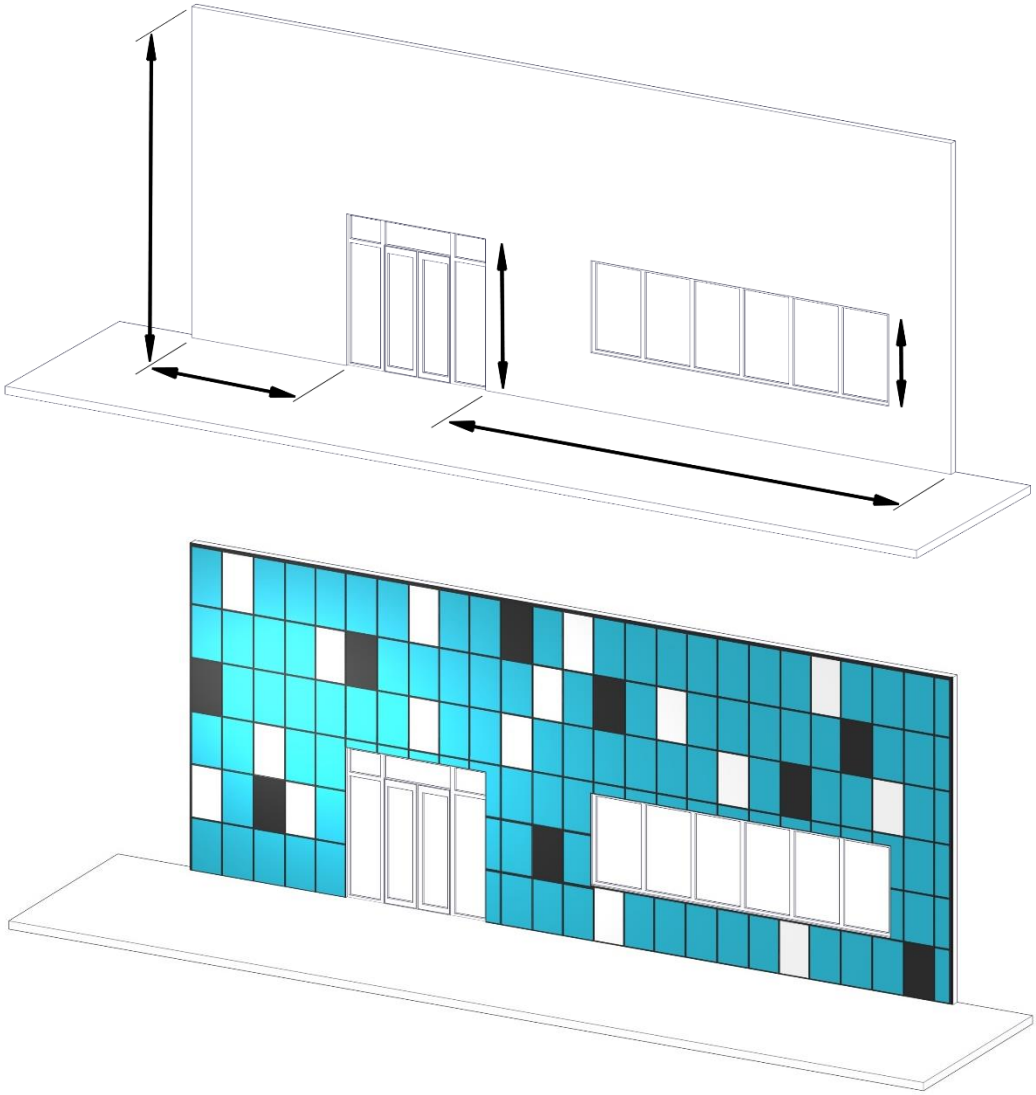
- Size: 20 ga. minimum (see Appendix Table 3 & 4 for reference)
- Type: Hat channel, c-stud, or z-furring.
- Spacing: 16" (406mm) O.C.

Perimeter and field area limitations

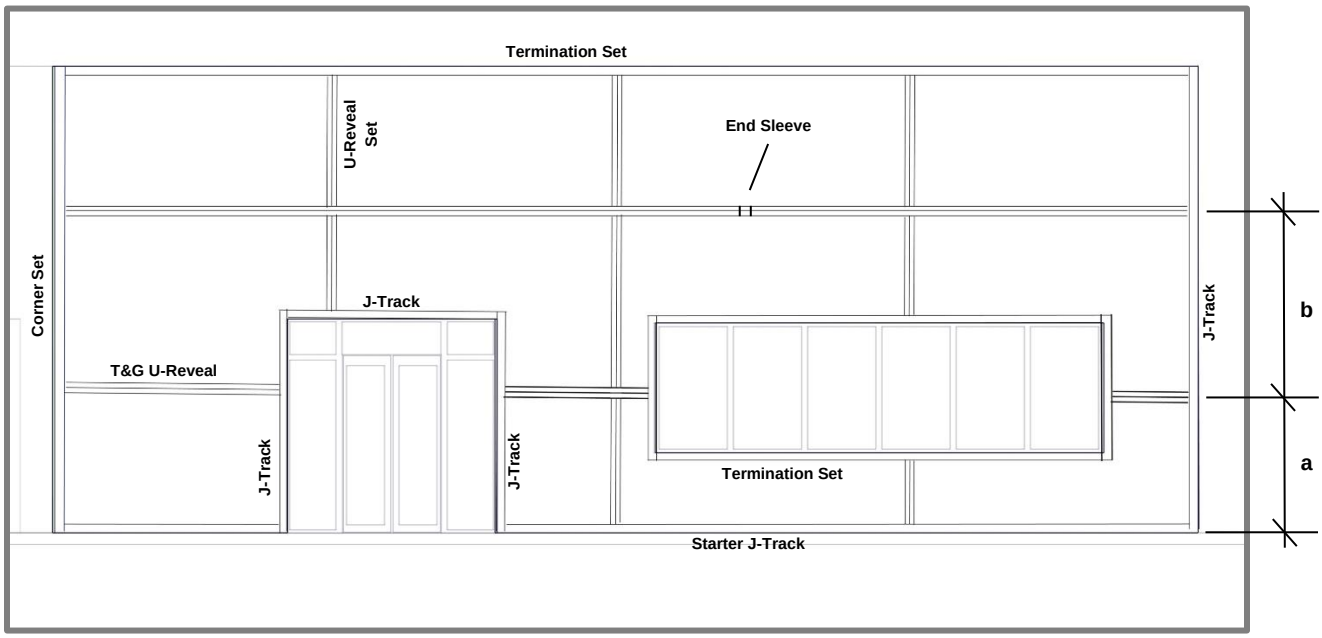
Measure and layout your wall area to consider plank & component alignment with fixtures, penetrations, and adjacent walls, for desired appearance. Apply the same methodology for horizontal planks and vertical planks.

- Longboard system typical dimensions:

Planks width	- 6” (152mm)
Planks depth	- 1/2” (12mm)
Planks and components total depth	- 9/16” (15mm)



Component layout



Measurement considerations:

1 1/2" (38mm) T&G U-Reveal (up to 24' length panels)

(a) Start to Panel - Measuring from outer edge of the Starter J-Track to the center of the 1 1/2" U-Reveal, add 5/8" (16mm) to the dimension of the Plank area. = 6"(X) + 5/8" to ¢

(b) Panel to Panel - Measuring from center to center of the 1 1/2" U-Reveal, add 1" (25mm) to the dimension of the Plank area. = 6"(X) + 1" to ¢

3/4" (19mm) T&G U-Reveal (up to 12' length panels)

(a) Start to Panel - Measuring from outer edge of the Starter J-Track to the center of the 3/4" U-Reveal,

add 1/4" (6mm) to the dimension of the Plank area. = 6"(X) + 1/4" to ¢

(b) Panel to Panel - Measuring from center to center of the 3/4" U-Reveal, add 3/8" (10mm) to the dimension of the Plank area. = 6"(X) + 3/8" to ¢

COMPONENTS -12' Stock lengths unless otherwise noted

Corner Set 2", Outside Corner 1", Inside Corner 3/4"

Location: Inside & outside corners of the installation area.

Details: Corner Set 2" recommended for vertical cladding installs.

J-Track 5/8", Two Piece J-Track (5/8, 7/8", 1 3/8")

Location: Perpendicular to Planks (eg: sides of windows and doors), along gable end walls, other angled conditions, window/door headers and other penetrations.

Details: Notch the flange at the ends where they meet corner components.

Starter J-Track 5/8", Starter Strip

Location: Where starting with a full width Plank, typically along the bottom of the installation for horizontal Planks.

Details: Alternatively, Starter Strip can be used back-to-back for vertical installs at the center of each cladding area for equal width ends.

U-Reveal Set (3/4”, 1 1/2”)

Location: Perpendicular to Planks, used to set panelized widths.

Details: Two-piece component (cap & base).

T&G U-Reveal (3/4”, 1 1/2”)

Location: Parallel to Planks, used to set panelized widths.

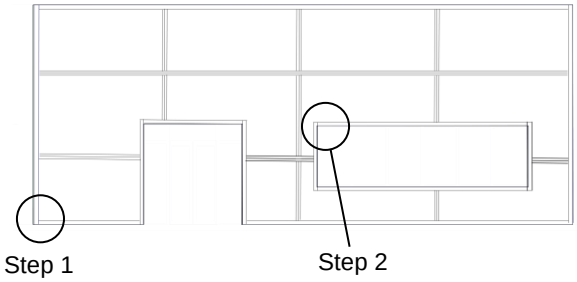
Details: Single-piece component, use End Sleeve (included) every 24’ max. (24’ Stock lengths)

Termination Set (5/8”, 7/8”, 1 3/8”)

Location: Parallel to Planks along top of the installation area, underside of windows (horizontal cladding only), sides of windows/doors (vertical cladding only) and other penetrations.

Details: Install base only to start and cap after planks are installed.

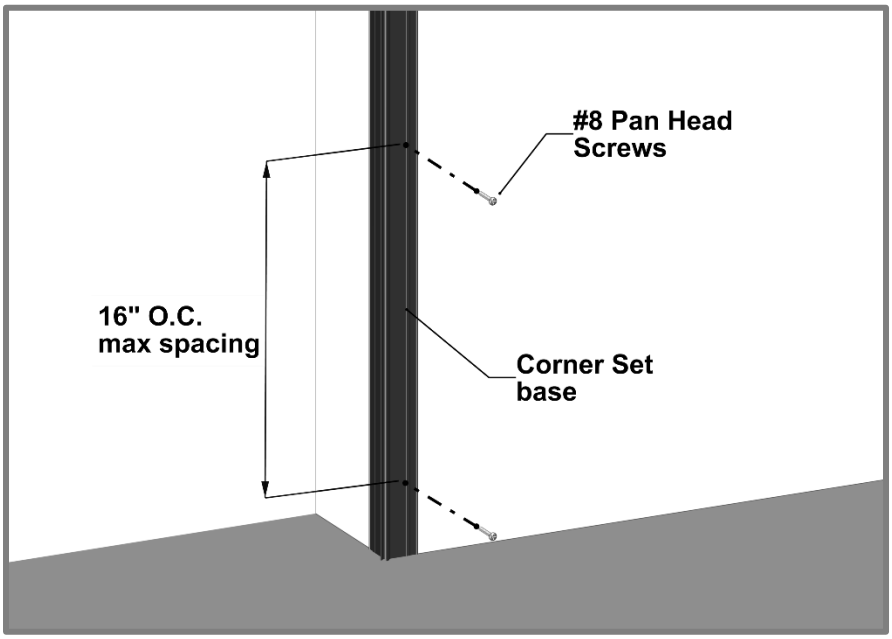
Install steps



Step 1 - Corners

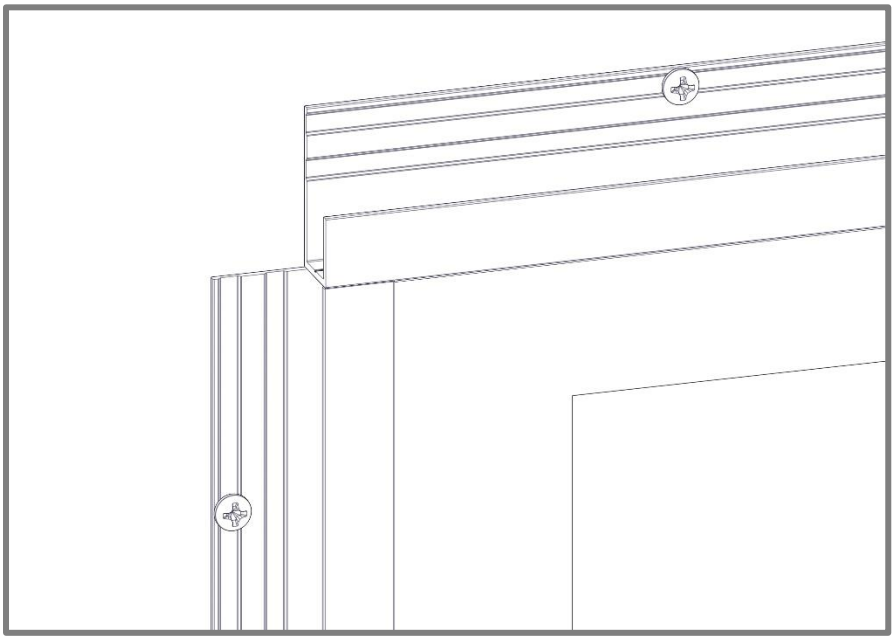
Install inside and outside corner bases, fastening every 16” O.C. with #8 Pan Head Screws. Corners typically extend from top to bottom of the area of application.

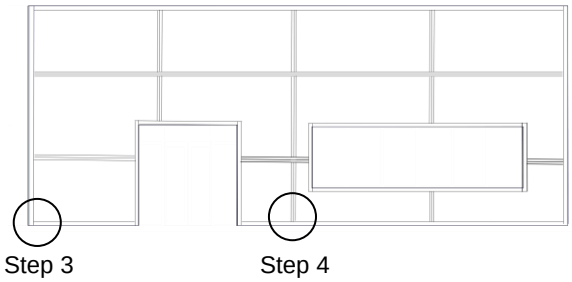
⚠ Check that components are level or plumb and flat or straight, for best results.



Step 2 - J-Track

Install J-Track or Two-Piece J-Track around windows and doors, fastening every 16” O.C. with #8 Pan Head Screws. Trims can be mitered for a clean corner look.

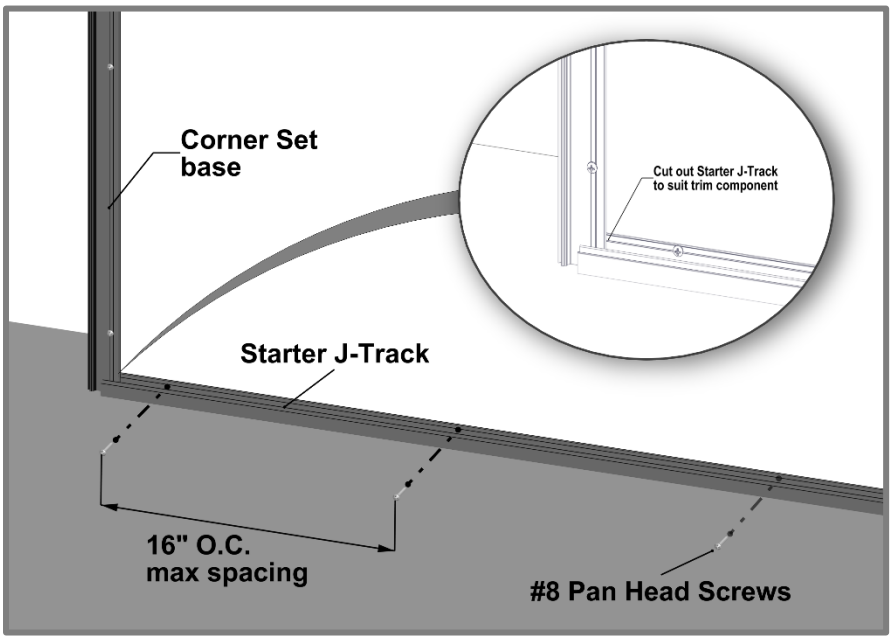




Step 3 - Starter J-Track

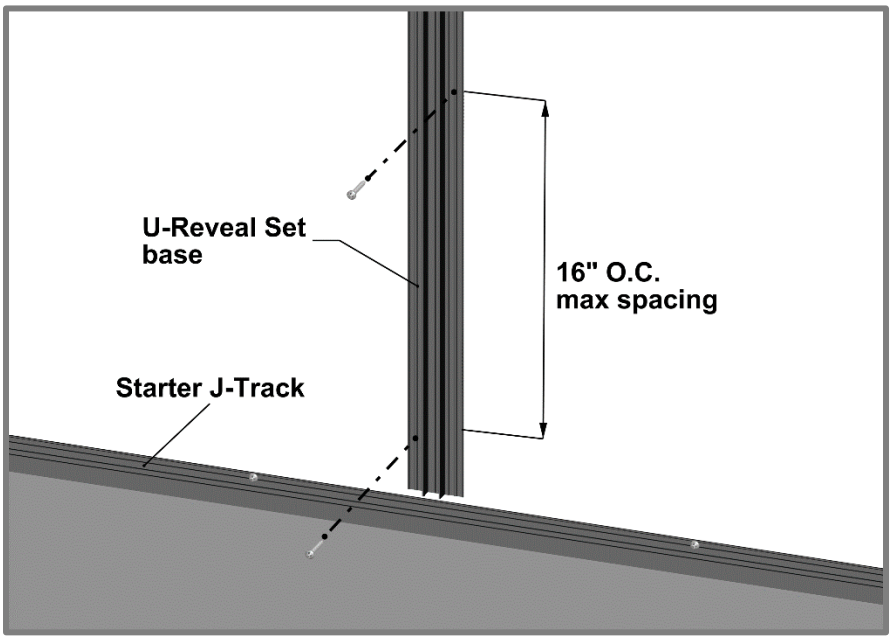
Install Starter J-Track or Starter Strip along the bottom of the wall(s), fastening every 16” O.C. with #8 Pan Head Screws.
Notch the Starter J-Track to suit the trim component.

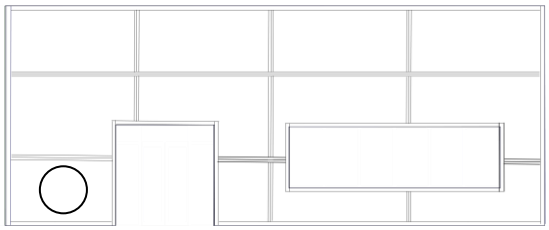
⚠Use J-Track and Back-to-Back Starter for vertical plank installations. (Not Shown)



Step 4 - U-Reveal

Install U-Reveal Set (base only) at the desired panelized length, fastening every 16” O.C. with #8 Pan Head Screws.

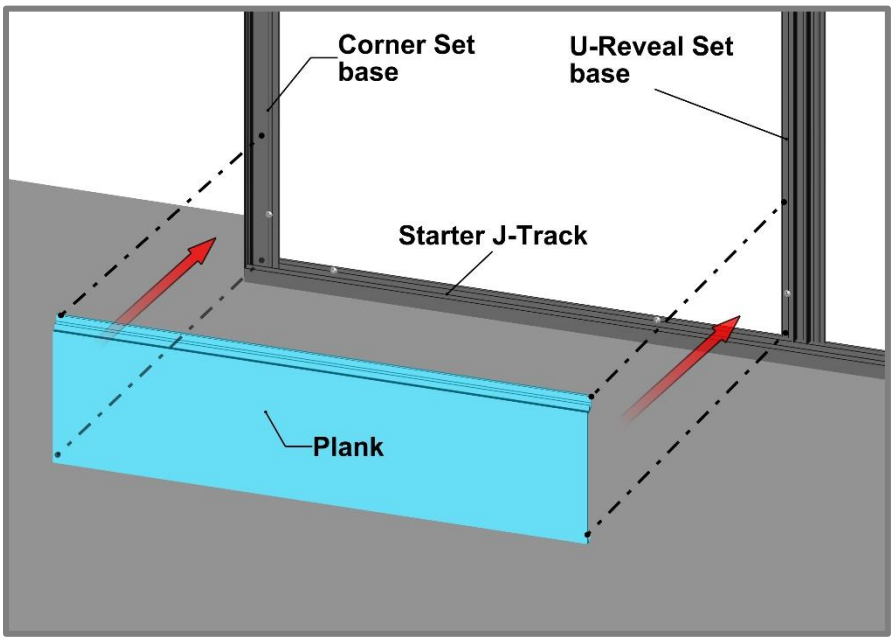




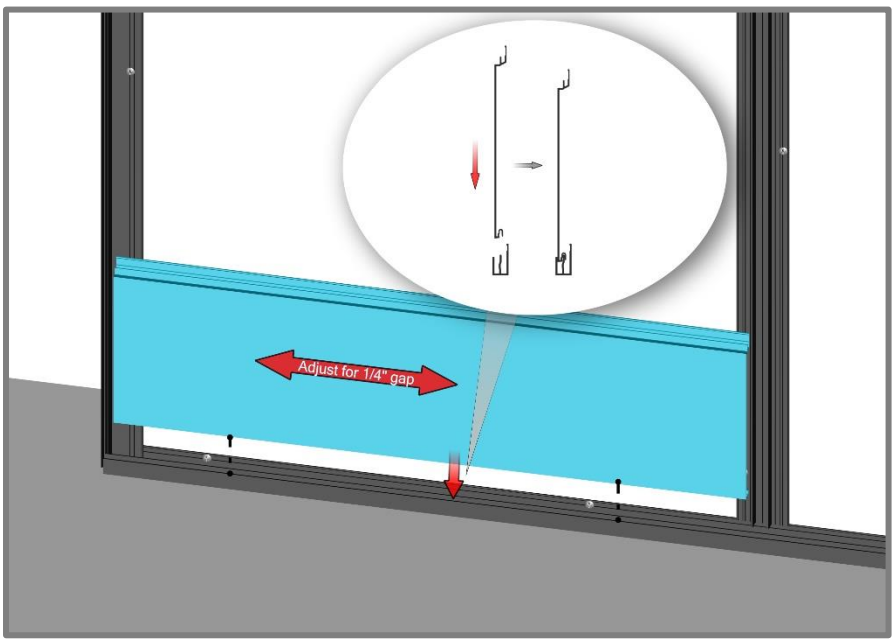
Step 5

Step 5 - Planks

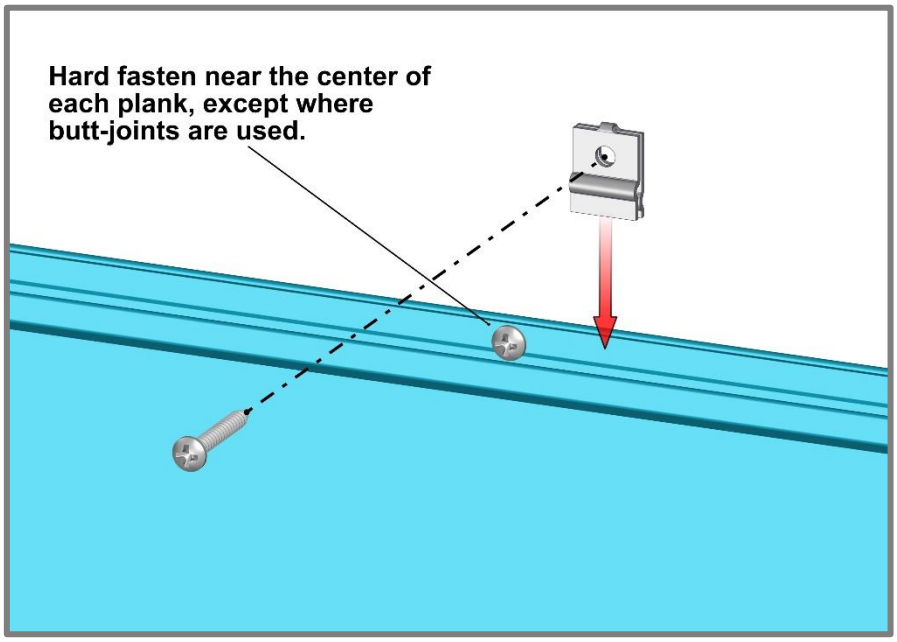
Place the planks into the groove of the Starter J-Track, engaging the tongue.
It is good practice to check your installation every 2-3 rows for level or plumb and flat or straight, for best results.



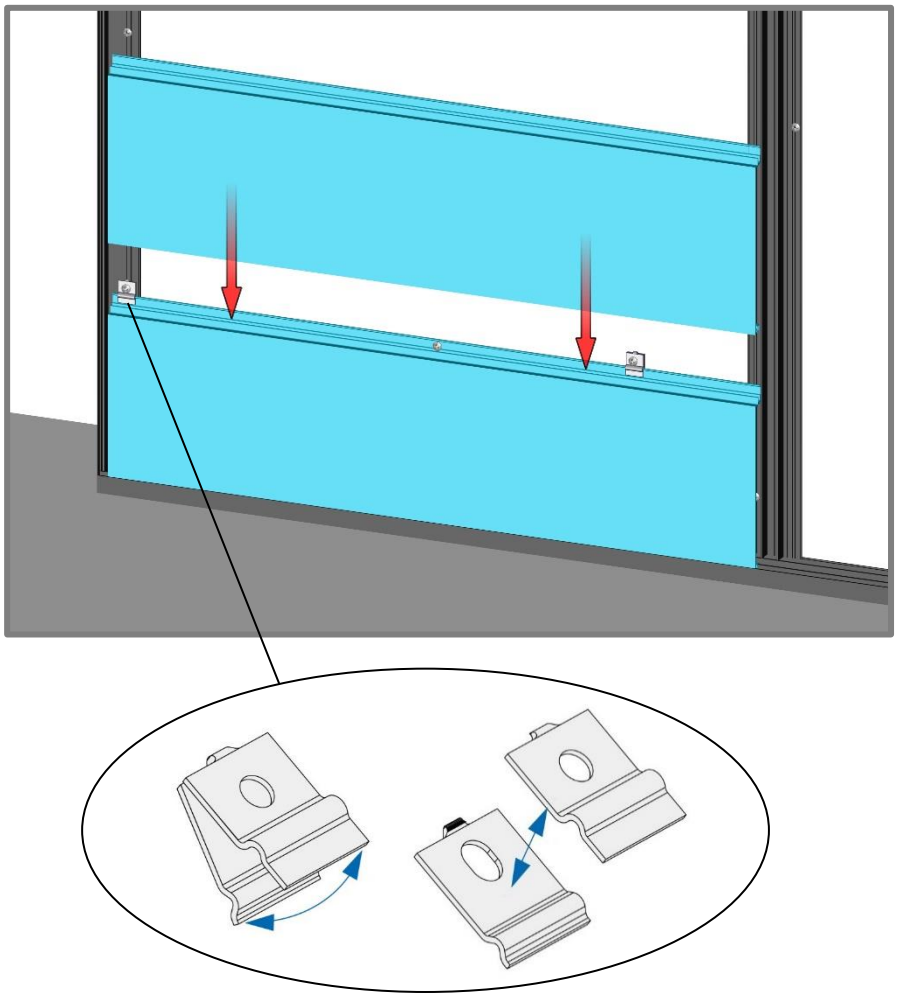
Ensure there is sufficient room for expansion and contraction of each Plank, also confirming component caps will cover.

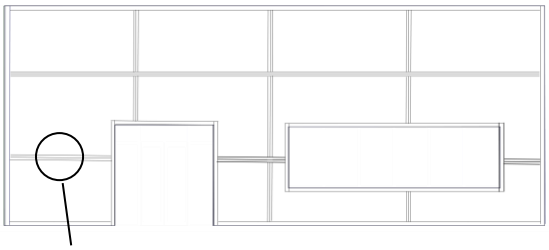


Install Quick Screen Clips every 32” (813mm) O.C. max spacing. Hard fasten only one point near the center of each plank or fasten at the butt-joints where butt-joints are used. Shim Quick-Screen Clips where needed to correct any substrate inconsistencies.



Where anchoring the planks securely can only be achieved over component flanges; split the Quick Screen Clip and use one piece on the front. This will maintain each Planks ability to expand and contract.





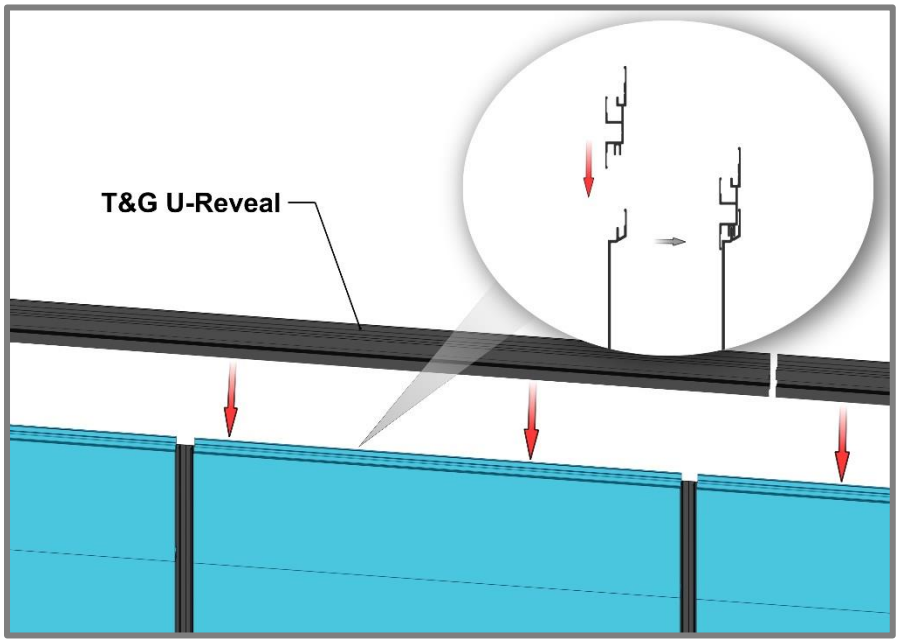
Step 6

Step 6 - T&G U-Reveal

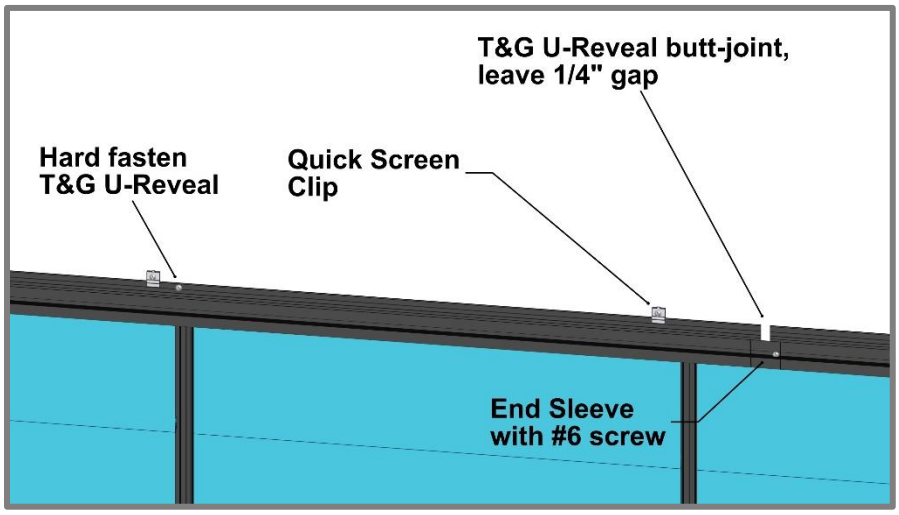
Install T&G U-Reveal at the Panelized width locking it into the tongue of the Planks.

⚠Do Not use fasteners or Quick-Screen Clips on Planks which engage with the groove side of the T&G U-Reveal.

Fasten T&G U-Reveal with Quick Screen Clips and fasteners every 32” O.C. Hard fasten near the center of each T&G U-Reveal length. Where using multiple lengths of T&G U-Reveal, leave a 1/4” gap between butt-joints for thermal movement.



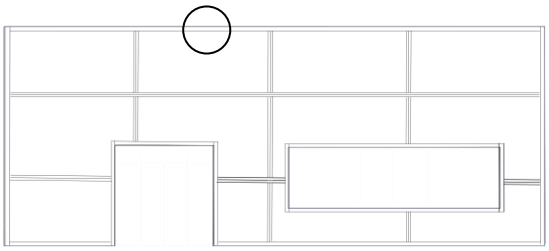
- Where using the Craftsman T&G U-Reveal (3/4”), install the included Craftsman End Sleeve to cover the ¼” butt-joints. Use a small amount of structural silicone on a single side of the End Sleeve, leaving the opposite side dry and free to expand and contract.
- Where using the Traditional T&G U-Reveal (1-1/2”), install the included Traditional End Sleeve to cover the opposite side, free to expand and contract.



Step 7 – Next sections

Repeat install steps 4-6. Install Compression Joints at floor elevations or anywhere else required by local building authority.

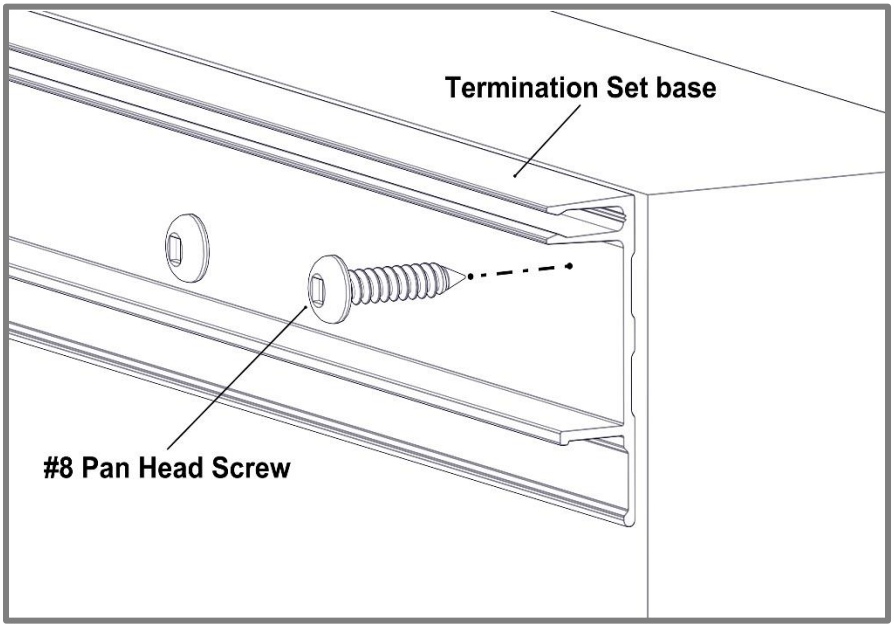
Step 8,9



Step 8 – Termination Set

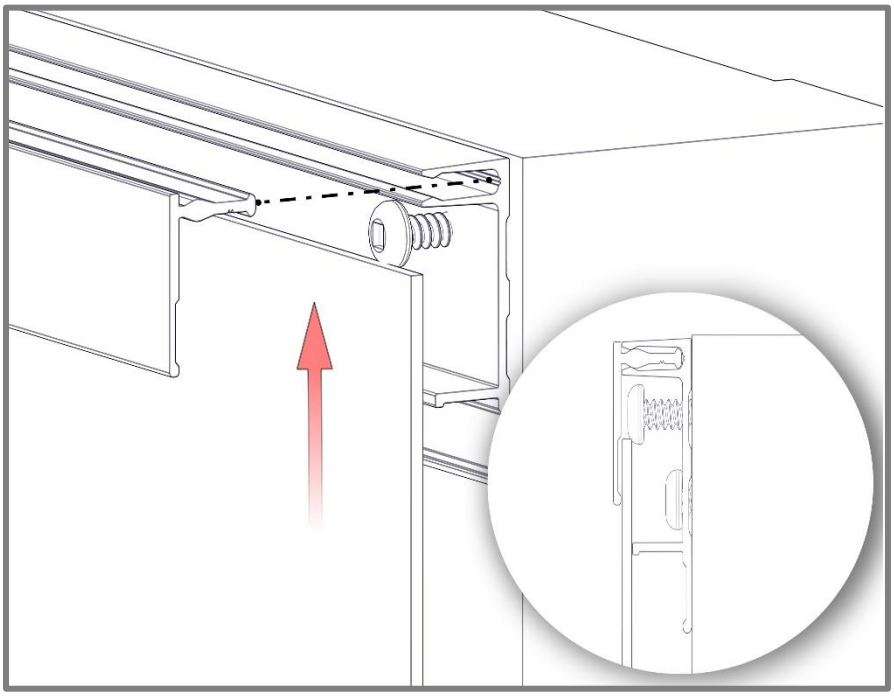
Install Termination Set (base only), fastening every 16” O.C.

Where terminating cut planks, provide a positive stop approximately every 16” (406mm).



Step 9 – Last Row of Planks

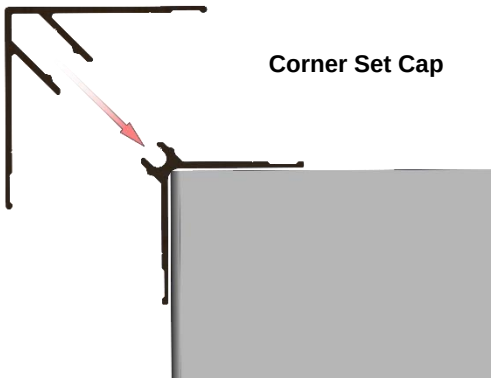
Rip the last Plank, cutting it to width to suit the installation area(s). Install edge plank with a 1/4” gap and screw to lock the plank into place.



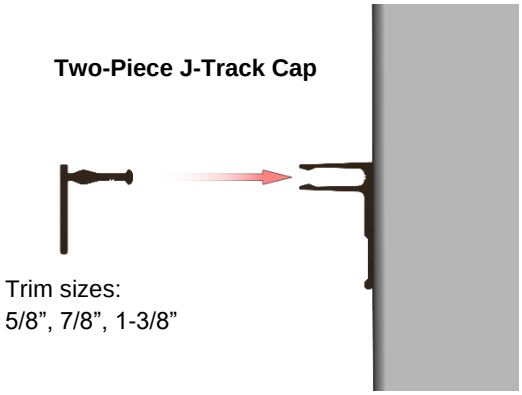
Step 10 - Once planks are installed, finish off the perimeter trims with caps from two-piece sets.

Component Caps	
Location:	Installed onto the base of the two-piece sets.
Details:	If required, use a rubber mallet or hammer and block to protect the finish during this process.

Corner Set Cap

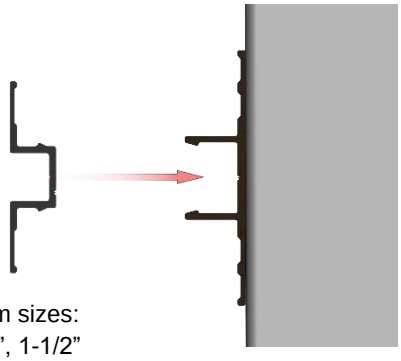


Two-Piece J-Track Cap



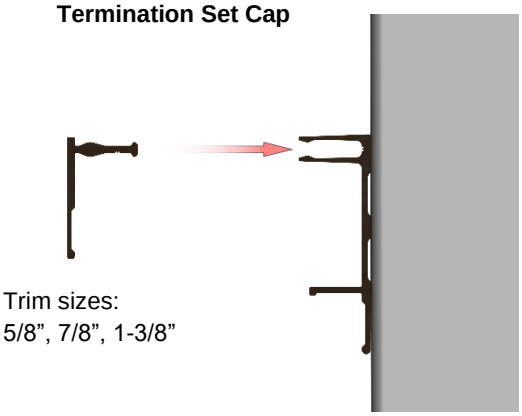
Trim sizes:
5/8”, 7/8”, 1-3/8”

U-Reveal Set Cap



Trim sizes:
3/4”, 1-1/2”

Termination Set Cap



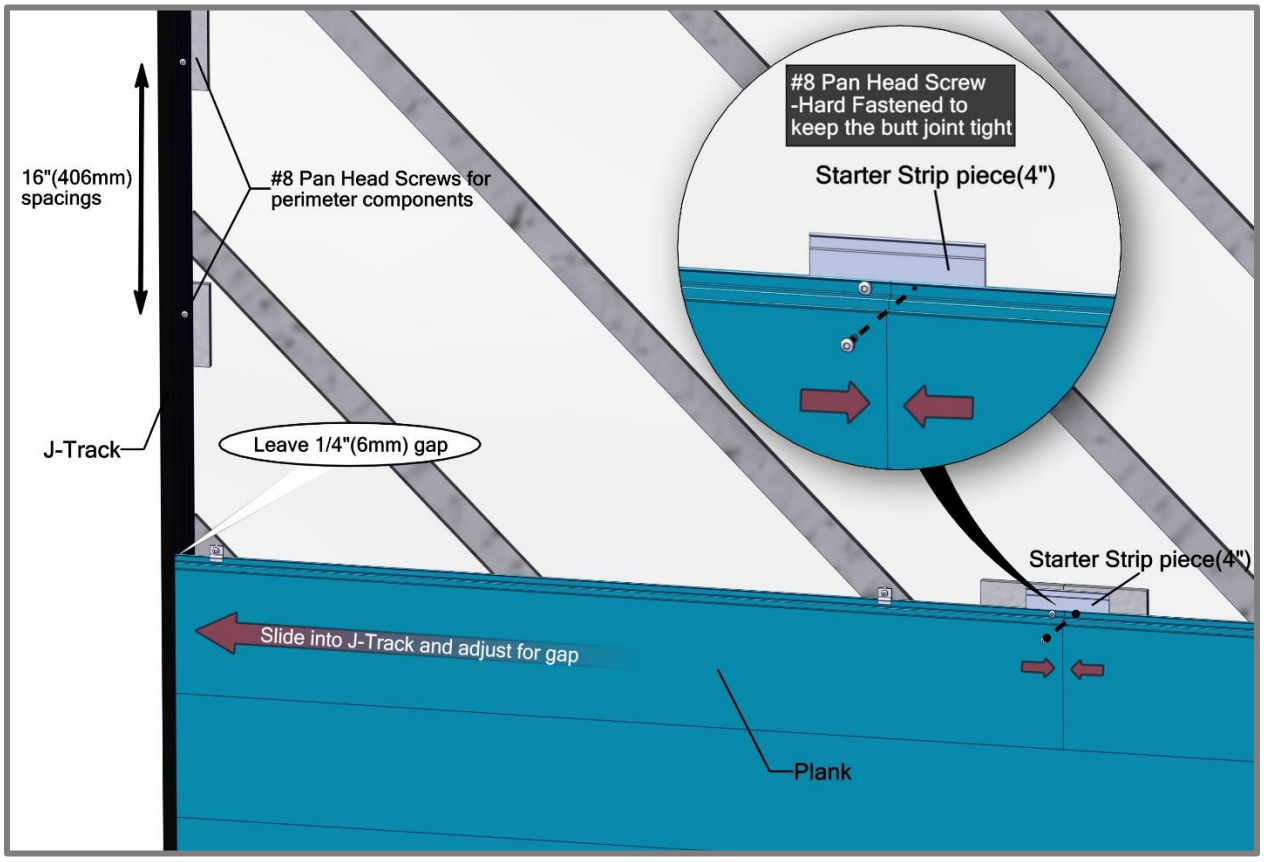
Trim sizes:
5/8”, 7/8”, 1-3/8”

Details

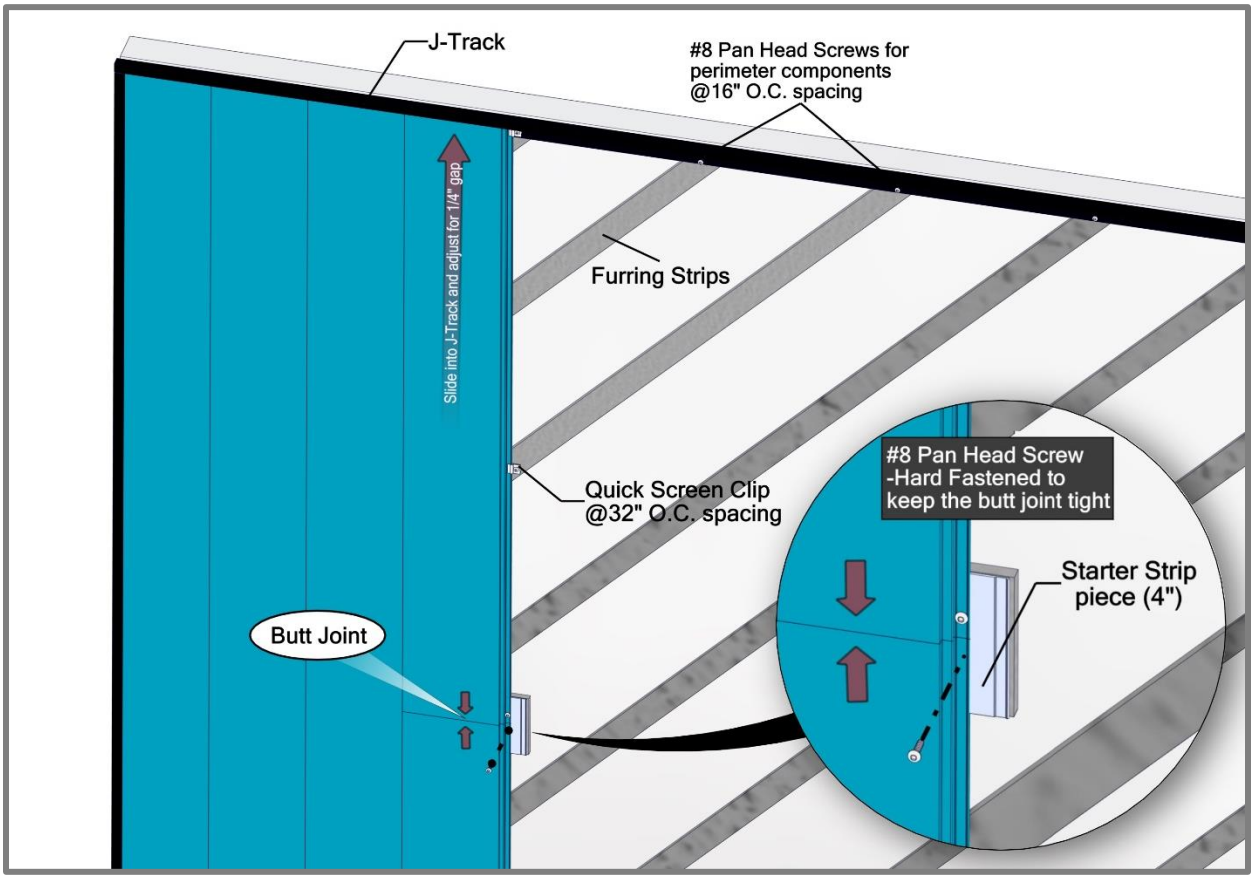
Butt-Joints

- ⚠When installing staggered butt-joints, hard-fasten the two planks at the butt-joint to ensure joints do not open up (**See Detail A & B**. Fasteners should be anchored into a solid secure framing member, blocking, furring strip, or backer plate, etc.
- If needed, use touch-up paint pens (purchased separately) to finish the ends of the two (2) planks at the butt- joint.
- DO NOT install more than one (1) butt-joint between two components
- DO NOT hard-fasten a plank to a component trim, as this will restrict its ability to expand & contract into the component.
- If no butt joints along the length, it is good practice to hard-fasten each plank directly through the flange near the center, to keep the planks from migrating.
- DO NOT hard-fasten more than one (1) location per plank.
- Fasten only:

Situation	Location
No butt-joints:	-Center of planks
Butt-joints:	-At the joints



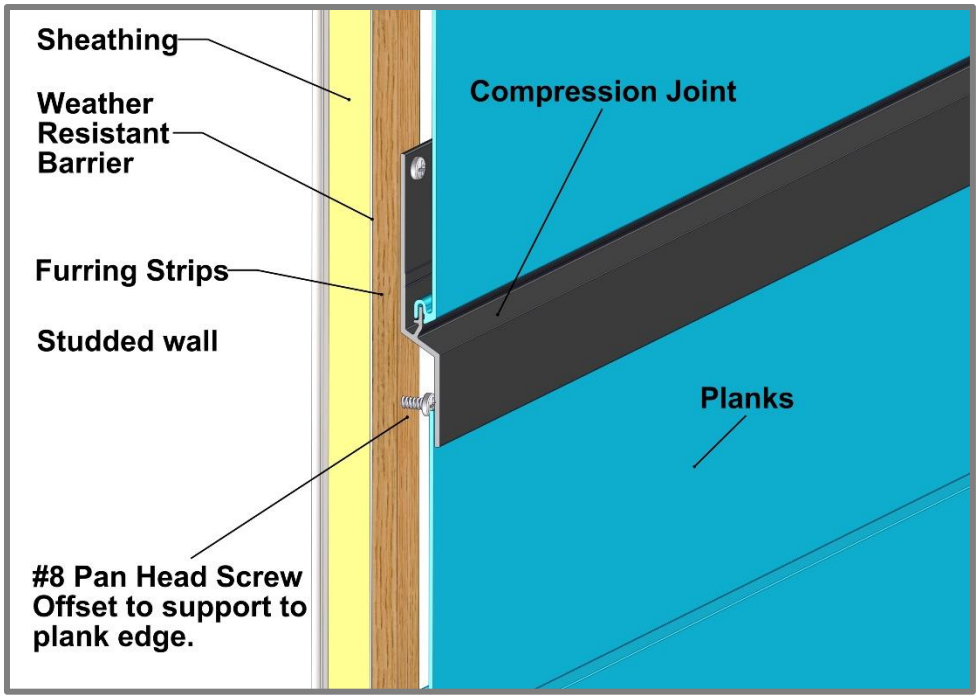
Detail A


J-Track
#8 Pan Head Screws for perimeter components @16" O.C. spacing
Slide into J-Track and adjust for 1/4" gap
Furring Strips
Quick Screen Clip @32" O.C. spacing
#8 Pan Head Screw -Hard Fastened to keep the butt joint tight
Starter Strip piece (4")
Butt Joint

Detail B

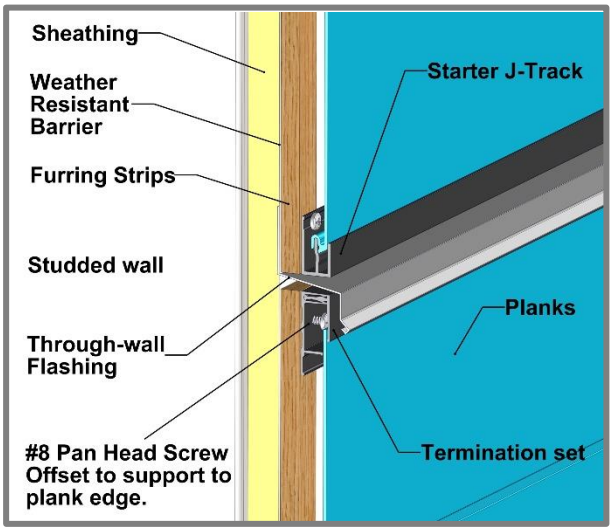
Floor elevation

Compression Joint

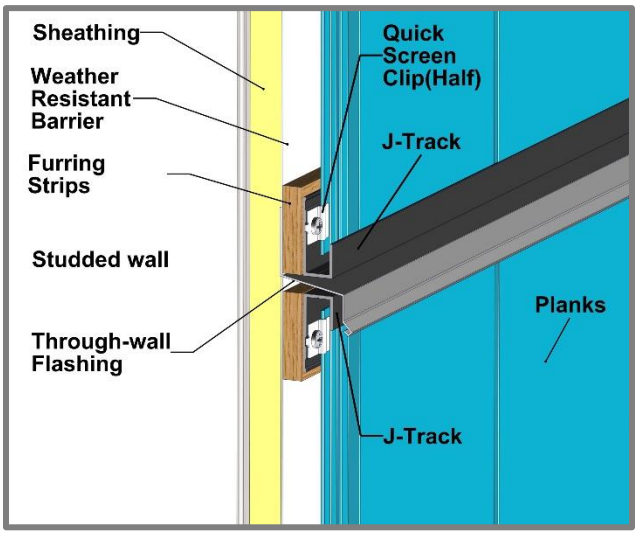


Floor elevation	
Type:	Compression Joint, Termination set/Starter J-Track, J-Track back-to-back.
Location:	Typically, at every floor elevation and where through-wall flashing is required.
Details:	Note the orientation of planks for through-wall flashing install.

Through-wall Flashing



Horizontal Install



Vertical Install

Appendix

Expansion and Contraction Tables

TABLE 1 - IMPERIAL

		AVERAGE TEMPERATURE AT TIME OF CUTTING & INSTALLATION										
	°C	-50	-40	-30	-20	-10	0	10	20	30	40	50
	°F	-58	-40	-22	-4	14	32	50	68	86	104	122
MIN/MAX POST CONSTRUCTION TEMP. °C	MIN/MAX POST CONSTRUCTION TEMP. °F	EXPANSION OR CONTRACTION (INCH/FOOT)										
-50	-58	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016	-0.019	-0.022	-0.024	-0.027
-40	-40	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016	-0.019	-0.022	-0.024
-30	-22	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016	-0.019	-0.022
-20	-4	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016	-0.019
-10	14	0.011	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016
0	32	0.014	0.011	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014
10	50	0.016	0.014	0.011	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011
20	68	0.019	0.016	0.014	0.011	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008
30	86	0.022	0.019	0.016	0.014	0.011	0.008	0.005	0.003	0.000	-0.003	-0.005
40	104	0.024	0.022	0.019	0.016	0.014	0.011	0.008	0.005	0.003	0.000	-0.003
50	122	0.027	0.024	0.022	0.019	0.016	0.014	0.011	0.008	0.005	0.003	0.000

TABLE 2 - METRIC

		AVERAGE TEMPERATURE AT TIME OF CUTTING & INSTALLATION										
	°C	-50	-40	-30	-20	-10	0	10	20	30	40	50
	°F	-58	-40	-22	-4	14	32	50	68	86	104	122
MIN/MAX POST CONSTRUCTION TEMP. °C	MIN/MAX POST CONSTRUCTION TEMP. °F	EXPANSION OR CONTRACTION (MM/METER)										
-50	-58	0.000	-0.230	-0.460	-0.690	-0.920	-1.150	-1.380	-1.610	-1.840	-2.070	-2.300
-40	-40	0.230	0.000	-0.230	-0.460	-0.690	-0.920	-1.150	-1.380	-1.610	-1.840	-2.070
-30	-22	0.460	0.230	0.000	-0.230	-0.460	-0.690	-0.920	-1.150	-1.380	-1.610	-1.840
-20	-4	0.690	0.460	0.230	0.000	-0.230	-0.460	-0.690	-0.920	-1.150	-1.380	-1.610
-10	14	0.920	0.690	0.460	0.230	0.000	-0.230	-0.460	-0.690	-0.920	-1.150	-1.380
0	32	1.150	0.920	0.690	0.460	0.230	0.000	-0.230	-0.460	-0.690	-0.920	-1.150
10	50	1.380	1.150	0.920	0.690	0.460	0.230	0.000	-0.230	-0.460	-0.690	-0.920
20	68	1.610	1.380	1.150	0.920	0.690	0.460	0.230	0.000	-0.230	-0.460	-0.690
30	86	1.840	1.610	1.380	1.150	0.920	0.690	0.460	0.230	0.000	-0.230	-0.460
40	104	2.070	1.840	1.610	1.380	1.150	0.920	0.690	0.460	0.230	0.000	-0.230
50	122	2.300	2.070	1.840	1.610	1.380	1.150	0.920	0.690	0.460	0.230	0.000

TABLE 3

LONGBOARD® ARCHITECTURAL PRODUCTS

QUICK-SCREEN CLIP SPACING - WIND LOAD

4" PLANKS			PSF (Factored / Ultimate)										
QUICK-SCREEN CLIP SPACING (IN) [1, 2, 3]			20	30	40	50	60	70	80	90	100	110	121
	16"	Wood	■	■	■	■	■	■	■	■	■	■	■
		16ga	■	■	■	■	■	■	■	■	■	■	
		18ga	■	■	■	■	■	■	■	■			
		20ga	■	■	■	■	■	■	■				
	24"	Wood	■	■	■	■	■	■	■	■	■		
		16ga	■	■	■	■	■	■	■	■			
		18ga	■	■	■	■	■	■					
		20ga	■	■	■	■							
	32"	Wood	■	■	■	■	■	■	■				
		16ga	■	■	■	■	■	■					
		18ga	■	■	■	■							
		20ga	■	■	■								

Subtrate Types: Sheathed Wood-Frame Wall w/2.0 in. lg. #8 Pan-head wood screws
Sheathed 16ga, 50ksi Steel Stud Wall w/#8 Pan-Head Self-Drilling Screws
Sheathed 18ga, 33ksi Steel Stud Wall w/#8 Pan-Head Self-Drilling Screws
Sheathed 20ga, 33ksi Steel Stud Wall w/#8 Pan-Head Self-Drilling Screws

1_Spacing is from clip center to center

2_An unfactored dead load of 1.5 psf was assumed for the cladding

3_If fastening to every second stud, the attachment stud shal be staggered between adjacent runs of cladding

TABLE 4

LONGBOARD® ARCHITECTURAL PRODUCTS

QUICK-SCREEN CLIP SPACING - WIND LOAD

6" PLANKS			PSF (Factored / Ultimate)										
QUICK-SCREEN CLIP SPACING (IN) [1, 2, 3]			20	30	40	50	60	70	80	90	100	110	121
	16"	Wood	■	■	■	■	■	■	■	■	■	■	■
		16ga	■	■	■	■	■	■	■	■			
		18ga	■	■	■	■	■	■					
		20ga	■	■	■	■							
	24"	Wood	■	■	■	■	■	■					
		16ga	■	■	■	■	■						
		18ga	■	■	■	■							
		20ga	■	■	■								
	32"	Wood	■	■	■	■							
		16ga	■	■	■								
		18ga	■	■									
		20ga	■	■									

Subtrate Types: Sheathed Wood-Frame Wall w/2.0 in. lg. #8 Pan-head wood screws
Sheathed 16ga, 50ksi Steel Stud Wall w/#8 Pan-Head Self-Drilling Screws
Sheathed 18ga, 33ksi Steel Stud Wall w/#8 Pan-Head Self-Drilling Screws
Sheathed 20ga, 33ksi Steel Stud Wall w/#8 Pan-Head Self-Drilling Screws

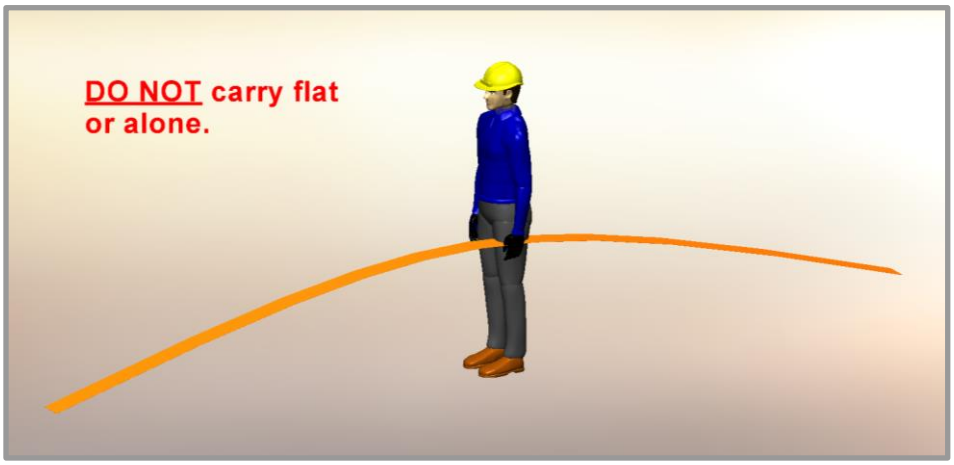
1_Spacing is from clip center to center

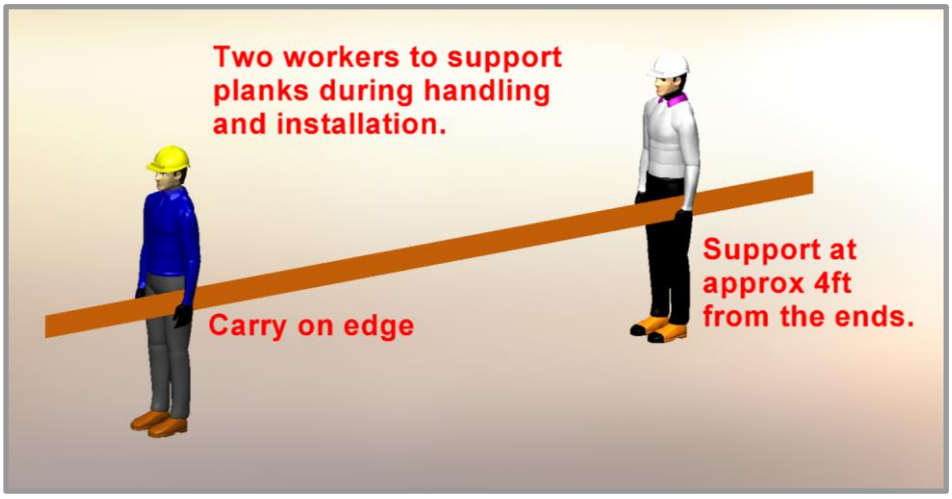
2_An unfactored dead load of 1.5 psf was assumed for the cladding

3_If fastening to every second stud, the attachment stud shal be staggered between adjacent runs of cladding

Proper Handling of Longboard Products

To help avoid injury and product damage, Longboard products require proper handling to and from storage areas during installation. When carrying or installing any products it is recommended that they be moved or carried by at least two people with each support point approximately 4ft from the ends. **Carrying products without proper support can cause excessive bending which may damage the appearance or finish of the product.** Any short cut lengths should also be carried on edge while supporting the material. See below for details.





⚠ Delivery, Storage & Handling ⚠

- Always inspect the delivery for damage and contact LB ASAP if there are any issues: info@longboardproducts.com or 1-800-604-0343 and include your PO# and any pictures if possible. Longboard is not responsible for the installation of blemished or damaged material.
- Be sure to store the material flat, keep it dry, safe & secure and remain in unopened cartons until ready to be installed.
- Always wear appropriate PPE when handling products.

Longboard Architectural Products Inc.

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Abbotsford, BC V2T 8X8
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longboardproducts.com

Every effort has been made to ensure that the information in these installation guidelines is accurate. Longboard is not responsible for printing or clerical errors.

For more information, contact client care at info@longboardproducts.com or call toll free 1-800-604-0343.