

Interior

# **Panelboard™ Walls**

**Installation Guidelines** 



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#### **Material Specifications**

#### **Finishes**

- Longboard Products are available in a wide range of powder coated finishes.
- 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 staggering each plank approx. 1-2' (305-610mm) from the
  previous plank to achieve a random pattern aesthetic. It is recommended to create an onsite mock-up to
  produce a suitable pattern.

Longboard extruded 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.

#### **Expansion & Contraction**

Planks & components expand & contract 1/4" (6mm) over 24' (7.3m) in all directions, measured over a 30°C (54°F) 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<sup>1 2</sup> Perpendicular to Planks: Traditional U-Reveal Set
 Parallel to Planks (at each floor elevation): Compression Joint

#### Vertical Install

• 24' (7.3m) max² Parallel and/or Perpendicular to Planks: Traditional U-Reveal Set, J-Tracks back-to-back

<sup>1</sup>Note: 40' (12.2m) max if using staggered butt-joints.

<sup>2</sup>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:	Most Popular Finishes -ready to ship within 1 week Additional Finishes -ready to ship within 14 weeks 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: <a href="mailto:info@longboardproducts.com">info@longboardproducts.com</a> 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**

- Initial and periodic cleaning for best looking product
- Basic methods use a combination of moderate water pressure, soft sponge/brush and a mild detergent (Safe for your hands, safe for the product)

⚠ 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.

\*See Cleaning Guide for full requirements & cleaning schedule:

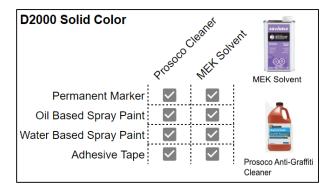
longboardproducts/resources/care-maintenance.com

#### Warranty

Upon substantial completion of the project, register for warranty online here: <a href="longboardproducts.com/warranty">longboardproducts.com/warranty</a>
<a href="mailto:Negistration">Negistration</a> is required for the warranty to be in effect.

#### **Graffiti Removal**







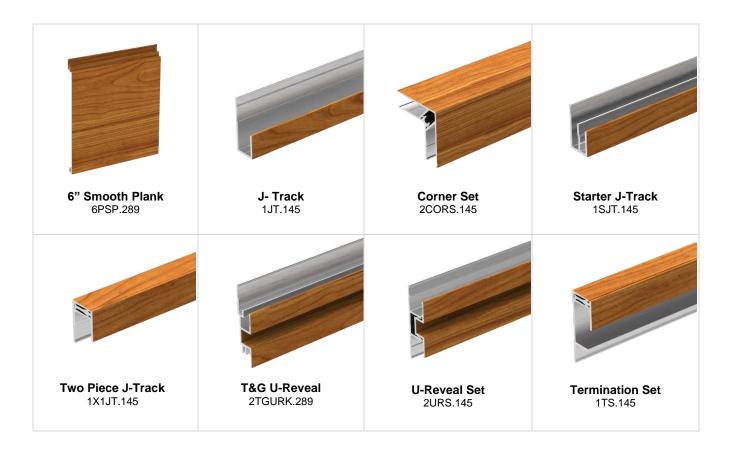
Note: Cleaning the surface with a cleanser that is not diluted as per instructions, may result in damage to the coating.



### 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.





#### **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
Dulch an Mallat		11-1- 0	Length, thread and point to suit substrate
Rubber Mallet (or Hammer)	Level	Hole Saw (for lighting fixtures)	#8 Pan Head Screws

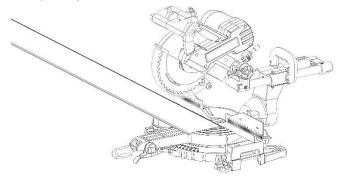
#### Cutting

⚠ 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, furring or strapping. For vertical applications when the framing member is not available, install diagonal furring strips or horizontal metal strapping 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.

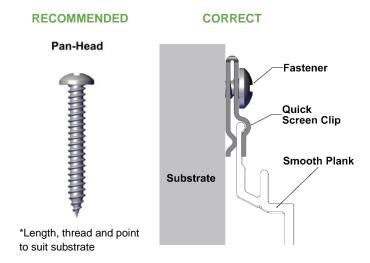
Planks & starter components are secured using Longboard Quick-Screen Clips fastened to the substrate using #8 pan-head screws (supplied by others).

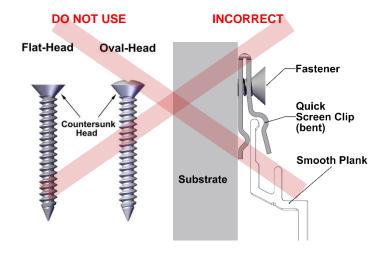
Typically, every 32" (813mm) O.C.

Always consult the project engineer, architect or authority having jurisdiction to understand the project specific fastening requirements.

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

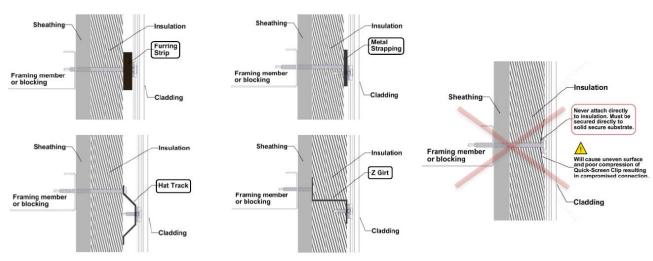
#### Fastener types





#### Fastening options onto exterior insulation

\*Never direct to insulation. Must be secured directly to solid secure substrate.





#### Framing requirements

Always consult the local building authority and follow local building code requirements. When attaching to **Hitch Cladding attachment System** refer to Hitch Install Guide for requirements.

#### Wood Framing

- Size: 2x4 minimum
- Spacing: see Appendix Table 3 & 4 for reference

#### Metal Framing

- Gauge: 20 ga. minimum (see Appendix Table 3 & 4 for reference)
- Spacing: see Appendix Table 3 & 4 for reference

#### **Furring recommendations**

#### Wood Furring

Attached back to wood or metal framing/blocking.

- Size: 3/8" minimum
- Spacing: See Appendix Table 3 & 4 for reference

#### Metal Furring/Strapping

Attached back to wood or metal framing/blocking.

- Size: 20 ga. minimum
- Spacing: 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: See Appendix Table 3 & 4 for reference

#### Metal Furring:

- Size: 20 ga. minimum (See Appendix Table 3 & 4 for reference)
- Type: Hat channel, Stud, or Z-Girt.
- Spacing: See Appendix Table 3 & 4 for reference

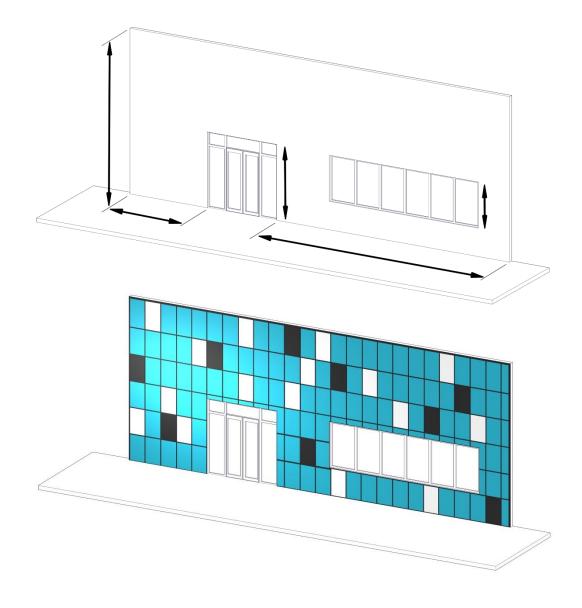
#### System Install

#### 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. Consider using butt-joints along runs to minimize waste. Apply the same methodology for horizontal planks and vertical planks.

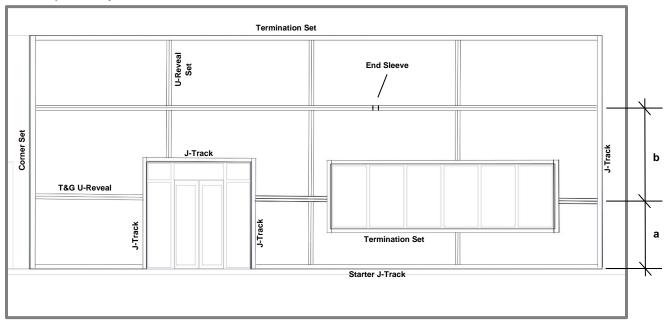
• Longboard system typical dimensions:

Planks width - 6" (152mm)
Planks depth - 1/2" (12mm)
Planks and Quick-Screen Clips depth - 9/16" (14mm)
Trim Components depth - 5/8" (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 \$\psi\$
- (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")

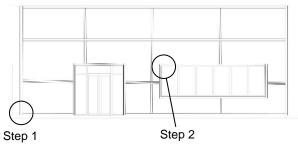
Location: Parallel to Planks along top of the installation area, underside of windows (horizontal cladding

only), sides of windows/doors (vertical cladding only) and other penetrations.

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



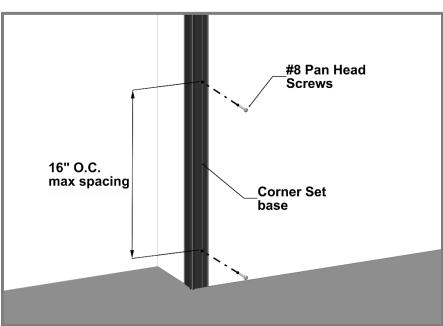
#### Install steps



Step 1 - Corners

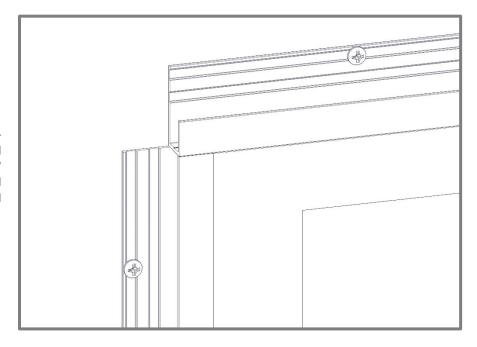
Install inside and outside corner bases, fastening every 16" O.C. with #8 Pan Head Screws. Corners typically extend from top to bottom of the area of application.

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

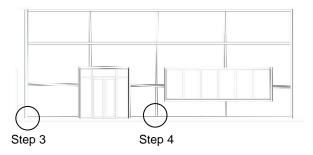


#### Step 2 - J-Track

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.





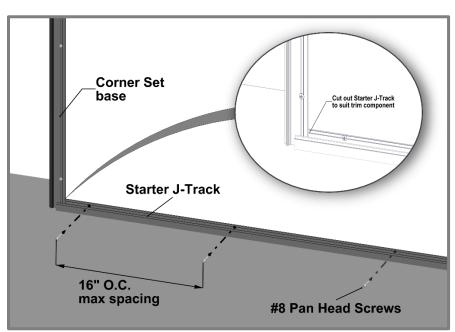


Step 3 - Starter J-Track

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

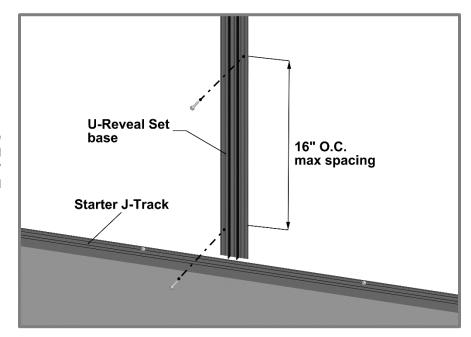
Notch the Starter J-Track to suit the trim component.

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

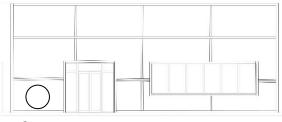


#### Step 4 - U-Reveal

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





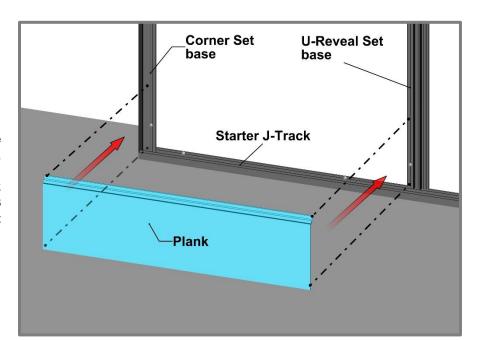


Step 5



## PLANK PREPARATION DURING INSTALL

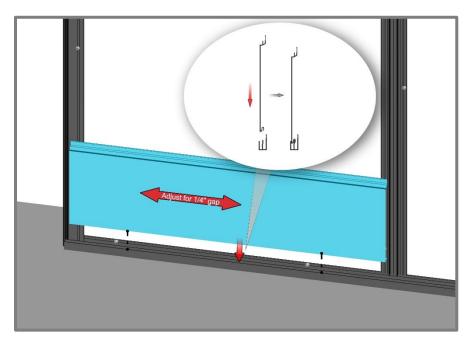
- 1. No Taped/Drilled ends (cut off 1/2" each end).
- 2. No Damage/dents and correct plank sequence per project.
- 3. Confirm allowance for expansion/contraction & confirm trim/caps cover.
- 4. Confirm level substrate, shims might be required for a flat /straight plank install.



Step 5 - Planks

Place the planks into the groove of the Starter J-Track, engaging the tongue.

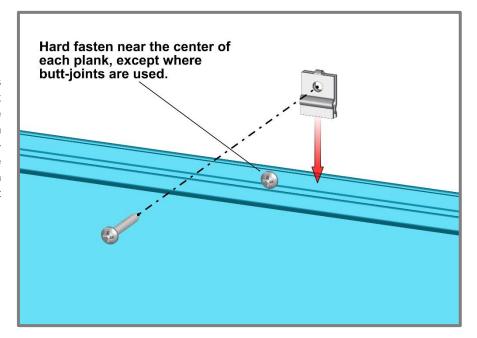
It is good practice to check your installation every 2-3 rows for level or plumb and flat or straight, for best results.



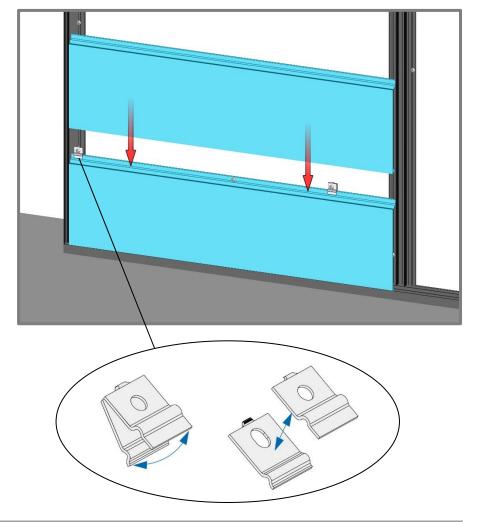
Ensure there is sufficient room for expansion and contraction of each Plank, also confirming component caps will cover.



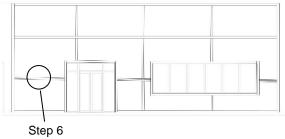
Install Quick Screen Clips every 32" (813mm) O.C. max spacing. Hard fasten only one point near the center of each plank or fasten at the butt-joints where butt-joints are used. Shim Quick-Screen Clips where needed to correct any substrate inconsistencies.



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.







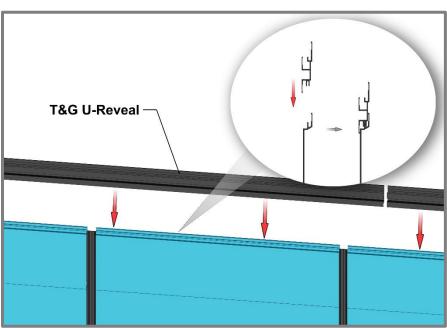
Step 6 - T&G U-Reveal

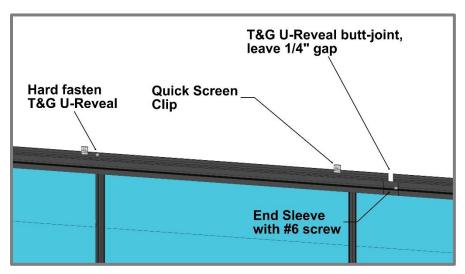
Install T&G U-Reveal at the Panelized width locking it into the tongue of the Planks.

⚠ 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 1/4" buttjoints. 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.

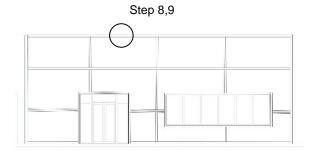




Step 7 - Next sections

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

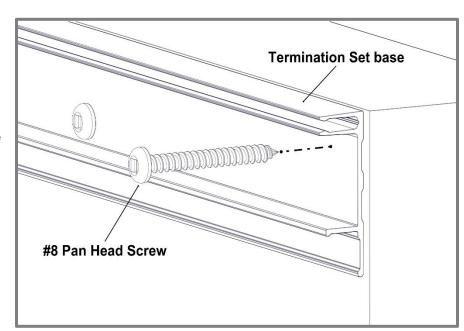


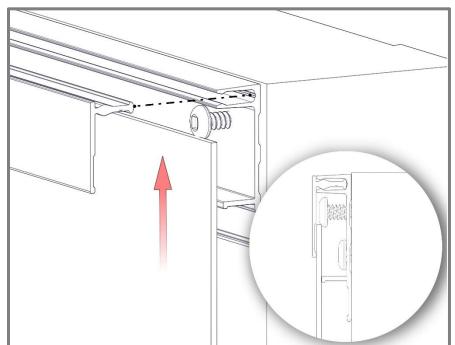


Step 8 - Termination Set

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.



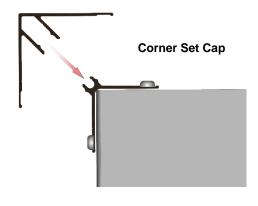
Step 10 - Once planks are installed, finish off the perimeter trims with caps from two-piece sets.

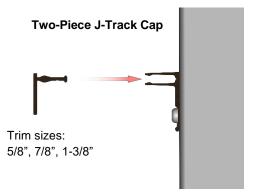
#### **Component Caps**

Location: Installed onto the base of the two-piece sets.

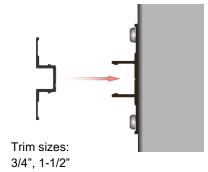
Details: If required, use a rubber mallet or hammer and block to protect the finish during this

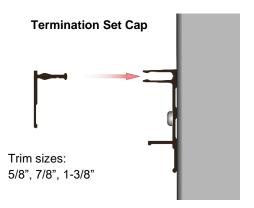
process.





#### **U-Reveal Set Cap**







#### **Details**

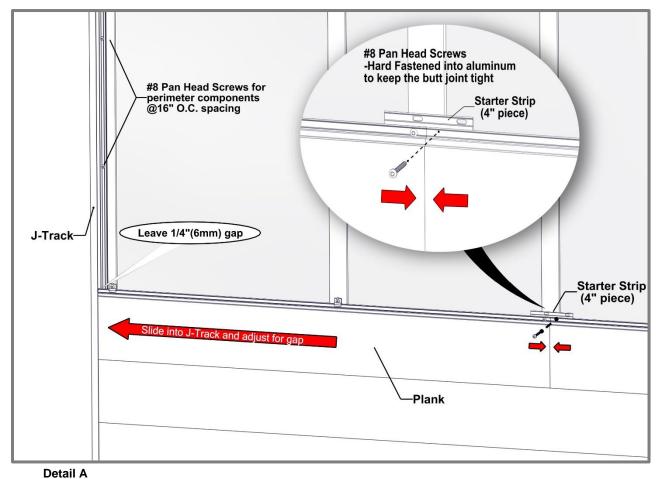
#### **Butt-Joints**

- Consider using butt-joints along runs to minimize waste.
- 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 placed at the uppermost location of the plank flange, to not interfere with the next plank engaging the tongue and groove properly. At the butt-joint, fasteners should be anchored into a 4" length of Strater Strip.
- On exposed cuts such as butt-joints, trim ends or similar, 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.
- Hard fasten only:

Situation Location

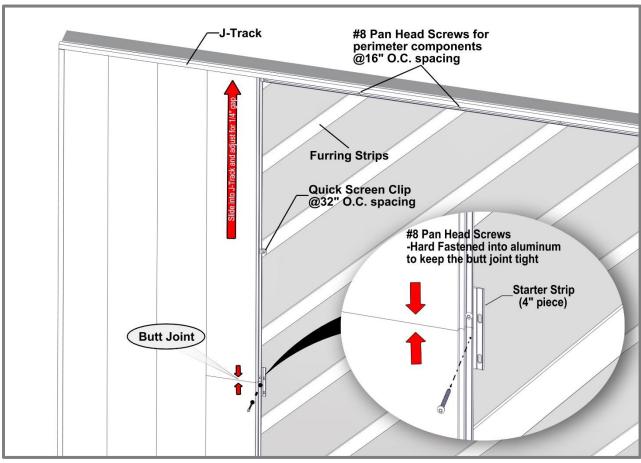
No butt-joints: -Near the center of planks

Butt-joints: -At the joints



Panelboard™ Walls Installation Guide



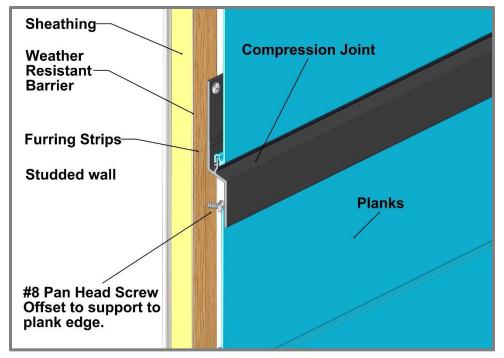


Detail B



#### Floor elevation

#### Compression Joint



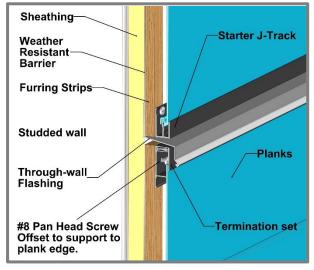
#### Floor elevation

Type: Compression Joint, Termination set/Starter J-Track, J-Track back-to-back.

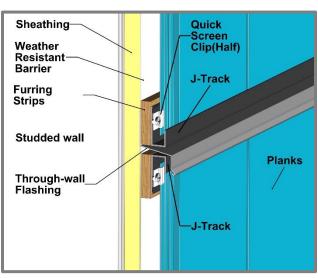
Location: Typically, at every floor elevation and where through-wall flashing is required.

Details: Note the orientation of planks for through-wall flashing install.

#### Through-wall Flashing



Horizontal Install



Vertical Install



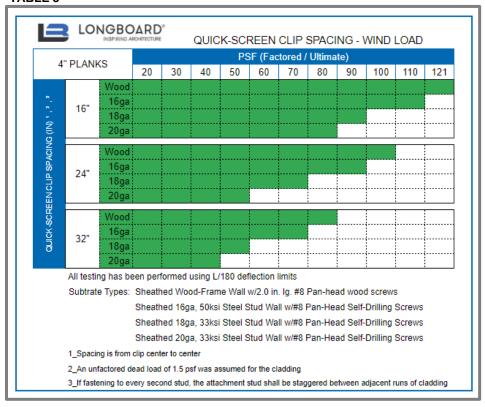
# **Appendix**

# **Expansion and Contraction Tables**

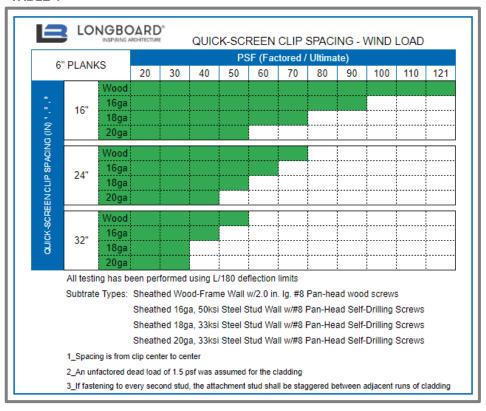
		°C	-50	-40	-30	-20	-10	T TIME OF	10	20	30	40	50
		°F	-58	-40	-22	-4	14	32	50	68	86	104	122
. [	°C	°F				FXPAN	ISION OR C	ONTRACT	ION (INCH	FOOT)			
	-50	-58	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016	-0.019	-0.022	-0.024	-0.027
ı	-40	-40	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016	-0.019	-0.022	-0.024
ı	-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
ı	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
İ	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
- 1		1000	2.250	5/550		0.040		2.2.2	1 1 1 1				
	50 E 2 - M	122 ETRIC	0.027	0.024	0.022	0.019	0.016	0.014	0.011	0.008	0.005	0.003	0.000
		ETRIC			AVERA	GE TEMPE	RATURE A	T TIME OF	CUTTING	& INSTALL	ATION		
			-50 -58	-40 -40							200000000000000000000000000000000000000	0.003 40 104	50
LE	≣ 2 - M	etric °c °f	-50	-40	AVERA	-20 -4	-10 14	T TIME OF 0 32	CUTTING 10 50	& INSTALL 20 68	ATION 30	40	50
LE		ETRIC °C	-50	-40	AVERA	-20 -4	-10 14	T TIME OF	CUTTING 10 50	& INSTALL 20 68	ATION 30	40	
LE	E 2 - M °C	°C °F	-50 -58	-40 -40	AVERA -30 -22	GE TEMPE -20 -4 EXPAN	RATURE A -10 14	T TIME OF  0  32  ONTRACTI	CUTTING 10 50 ON (MM/N	& INSTALL 20 68 METER)	ATION 30 86	40 104	50 122 -2.300
LE	°C -50	°C °F °F -58	-50 -58	-40 -40	-30 -22	-20 -4 EXPAN	-10 14 ISION OR C	T TIME OF 0 32 ONTRACTI	CUTTING 10 50 ON (MM/N	& INSTALL 20 68 METER) -1.610	ATION 30 86	40 104 -2.070	-2.300 -2.070
LE	°C -50 -40	°C °F °F -58 -40	-50 -58 0.000 0.230	-40 -40 -0.230 0.000	-30 -22 -0.460 -0.230	-20 -4 EXPAN -0.690 -0.460	-10 14 ISION OR 0 -0.920 -0.690	T TIME OF 0 32 ONTRACTI -1.150 -0.920	CUTTING 10 50 ON (MM/N -1.380	& INSTALL 20 68 (ETER) -1.610 -1.380	ATION 30 86 -1.840 -1.610	40 104 -2.070 -1.840	-2.300 -2.070 -1.840
LE	°C -50 -40 -30	°C °F °F -58 -40 -22	-50 -58 0.000 0.230 0.460	-40 -40 -0.230 0.000 0.230	-0.460 -0.230 0.000	-20 -4 EXPAN -0.690 -0.460 -0.230	ERATURE A -10 14 ISION OR C -0.920 -0.690 -0.460	T TIME OF 0 32 ONTRACTI -1.150 -0.920 -0.690	CUTTING 10 50 ON (MM/N -1.380 -1.150 -0.920	& INSTALL 20 68 METER) -1.610 -1.380 -1.150	ATION 30 86 -1.840 -1.610 -1.380	-2.070 -1.840 -1.610	-2.300 -2.070 -1.840 -1.610
LE	°C -50 -40 -30 -20	°C °F -58 -40 -22 -4	-50 -58 0.000 0.230 0.460 0.690	-40 -40 -0.230 0.000 0.230 0.460	-0.460 -0.230 0.000 0.230	-20 -4 EXPAN -0.690 -0.460 -0.230 0.000	-10 14 ISION OR 0 -0.920 -0.690 -0.460 -0.230	T TIME OF 0 32 ONTRACTI -1.150 -0.920 -0.690 -0.460	CUTTING 10 50 ON (MM/N -1.380 -1.150 -0.920 -0.690	& INSTALL 20 68 METER) -1.610 -1.380 -1.150 -0.920	ATION 30 86 -1.840 -1.610 -1.380 -1.150	-2.070 -1.840 -1.610 -1.380	-2.300 -2.070 -1.840 -1.610 -1.380
LE	°C -50 -40 -30 -20 -10	°C °F -58 -40 -22 -4 14	-50 -58 0.000 0.230 0.460 0.690 0.920	-40 -40 -0.230 0.000 0.230 0.460 0.690	-0.460 -0.230 0.000 0.230 0.460	-20 -4 EXPAN -0.690 -0.460 -0.230 0.000 0.230	-10 14 SION OR C -0.920 -0.690 -0.460 -0.230 0.000	T TIME OF 0 32 ONTRACTI -1.150 -0.920 -0.690 -0.460 -0.230	CUTTING 10 50 ON (MM/N -1.380 -1.150 -0.920 -0.690 -0.460	& INSTALL 20 68  METER) -1.610 -1.380 -1.150 -0.920 -0.690	ATION 30 86 -1.840 -1.610 -1.380 -1.150 -0.920	-2.070 -1.840 -1.610 -1.380 -1.150	-2.300 -2.070 -1.840 -1.610 -1.380 -1.150
	°C -50 -40 -30 -20 -10 0	°C °F °F -58 -40 -22 -4 14 32	-50 -58 0.000 0.230 0.460 0.690 0.920 1.150	-40 -40 -0.230 0.000 0.230 0.460 0.690 0.920	-0.460 -0.230 0.000 0.230 0.460 0.690	-20 -4 EXPAN -0.690 -0.460 -0.230 0.000 0.230 0.460	ERATURE A -10 14 ISION OR C -0.920 -0.690 -0.460 -0.230 0.000 0.230	T TIME OF 0 32 ONTRACTI -1.150 -0.920 -0.690 -0.460 -0.230 0.000	CUTTING 10 50 ON (MM/N -1.380 -1.150 -0.920 -0.690 -0.460 -0.230	& INSTALL 20 68 IETER) -1.610 -1.380 -1.150 -0.920 -0.690 -0.460	-1.840 -1.610 -1.380 -1.150 -0.920 -0.690	-2.070 -1.840 -1.610 -1.380 -1.150 -0.920	-2.300 -2.070 -1.840 -1.610 -1.380 -1.150 -0.920
LE	°C -50 -40 -30 -20 -10 0 10	°C °F °F -58 -40 -22 -4 14 32 50	-50 -58 0.000 0.230 0.460 0.690 0.920 1.150 1.380	-40 -40 -0.230 0.000 0.230 0.460 0.690 0.920 1.150	-0.460 -0.230 0.000 0.230 0.460 0.690 0.920	-20 -4 EXPAN -0.690 -0.460 -0.230 0.000 0.230 0.460 0.690	ERATURE A -10 14 ISION OR C -0.920 -0.690 -0.460 -0.230 0.000 0.230 0.460	T TIME OF 0 32 ONTRACTI -1.150 -0.920 -0.690 -0.460 -0.230 0.000 0.230	CUTTING 10 50 ON (MM/N -1.380 -1.150 -0.920 -0.690 -0.460 -0.230 0.000	& INSTALL 20 68 (ETER) -1.610 -1.380 -1.150 -0.920 -0.690 -0.460 -0.230	-1.840 -1.610 -1.380 -1.150 -0.920 -0.690 -0.460	-2.070 -1.840 -1.610 -1.380 -1.150 -0.920 -0.690	50 122
	°C -50 -40 -30 -20 -10 0 10 20	°C °F °F -58 -40 -22 -4 14 32 50 68	-50 -58 0.000 0.230 0.460 0.690 0.920 1.150 1.380 1.610	-40 -40 -0.230 0.000 0.230 0.460 0.690 0.920 1.150 1.380	-0.460 -0.230 0.000 0.230 0.460 0.690 0.920 1.150	-20 -4 EXPAN -0.690 -0.460 -0.230 0.000 0.230 0.460 0.690 0.920	-10 14 ISION OR 0 -0.920 -0.690 -0.460 -0.230 0.000 0.230 0.460 0.690	T TIME OF 0 32 ONTRACTI -1.150 -0.920 -0.690 -0.460 -0.230 0.000 0.230 0.460	CUTTING 10 50 ON (MM/N -1.380 -1.150 -0.920 -0.690 -0.460 -0.230 0.000 0.230	& INSTALL 20 68 METER) -1.610 -1.380 -1.150 -0.920 -0.690 -0.460 -0.230 0.000	-1.840 -1.610 -1.380 -1.150 -0.920 -0.690 -0.460 -0.230	-2.070 -1.840 -1.610 -1.380 -1.150 -0.920 -0.690 -0.460	-2.300 -2.070 -1.840 -1.610 -1.380 -1.150 -0.920 -0.690



#### **TABLE 3**



#### **TABLE 4**



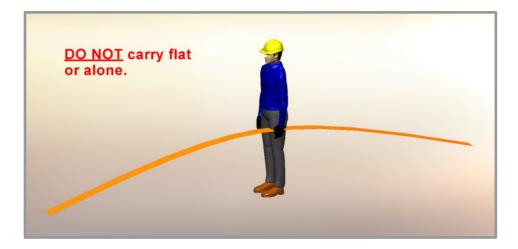


# **Proper Handling of Longboard Products**

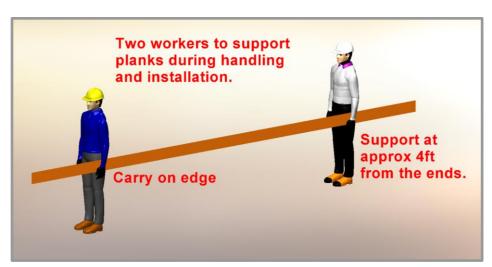


To help avoid injury and product damage, Longboard products require proper handling to and from storage areas during installation. When carrying or installing any products it is recommended that they be moved or carried by at least two people with each support point approximately 4ft from the ends. Carrying 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.









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- Always inspect the delivery for damage and contact LB ASAP if there
  are any issues: <a href="mailto:info@longboardproducts.com">info@longboardproducts.com</a> 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.



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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.