

Endura Linear Ceilings

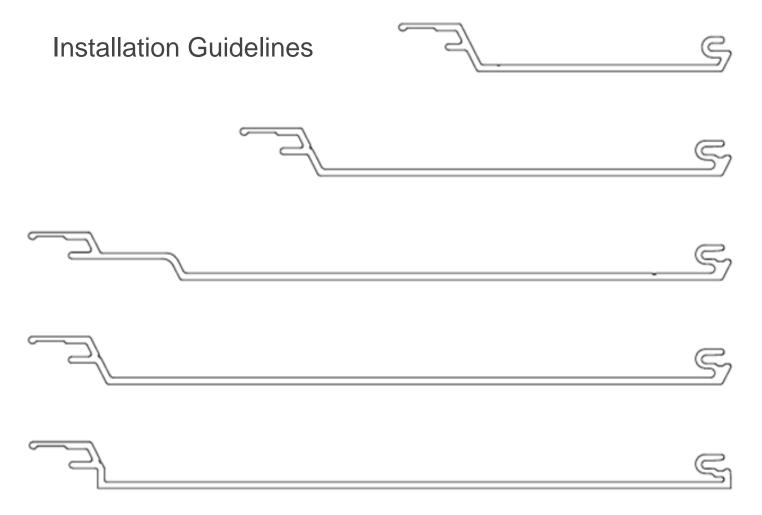




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Material Specifications

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 Products are not recommended for use on marine applications in direct contact with salt water.

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 perpendicular to planks every:

• 24' (7.3m) max¹ Perpendicular to Planks: Traditional Flat Reveal, U-Reveal Set

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

Other options (Perpendicular to Planks only)

12' (3.7m) -Craftsman U-Reveal Set
 6' 8" (2m) -Precision Flat Reveal

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" Planks: 96 SQ FT/Box (8/24's) w. 90pcs Quick-Screen Clips included 4" V-Groove: 96 SQ FT/Box (12/24's) w. 135 Quick-Screen Clips included 2 1/2" V-Groove: 20 SQ FT/Box (8/12's, 96 LF) w. 45 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: 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

- 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.

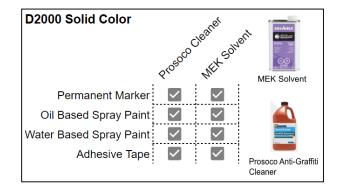
*See Cleaning Guide for full requirements & cleaning schedule: longboardproducts/resources/care-maintenance.com

Warranty

Upon substantial completion of the project, register for warranty online here: longboardproducts.com/warranty
Negistration 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)

Endura Linear Ceiling system consists of many components used in conjunction with each other to create a seamless look. For all LB components go to longboardproducts.com.

V-Groove Planks * 48 sq. ft. box quantities # 96 sq. ft. box quantities

Size	12' *	24'*	12' Perf *	24' Perf *
2½"	3V.145	-	3VP.145	-
4"	4V.145	4V.289	-	-
6"	6V.145	6V.289	6VP.145	6VP.289

Smooth Planks

S	ize	12'*	24'*	12' Perf *	24' Perf *
6	;"	6PSP:145	6PSP.289	6PSPP.145	6PSPP.289

Channel Planks

6CH:145 6CH.289

Accessories

Product	Qty	SKU
Quick Screen Clips	1750,bax	CLIP.N1750
Quick Screen Clips	100,bag	CLIP.N100
Touch Up Pens Resch out to confirm color with	N/A	TUP

Trim Components

Туре	Style	Product	Dimensions	SKU
Starter	Precision	Starter J-Track	(5/8") - 12'	1SJT.145
Starter	Traditional	Starter Strip	(1-7/8") - 12'	2SS.145
Starter	Traditional	Back-to-Back Starter Strip	(1-1/4")	2BTBSS.145
J-Track	Precision	Two Piece J-Track	(5/8") - 12'	1X1JT.145
J-Track	Precision	J-Track	(5/8") - 12'	1JT.145
J-Track	Craftsman	J-Track	(7/8") - 12'	JT23.145
J-Track	Craftsman	Two Piece J-Track	(7/8") - 12'	JT23S.145
J-Track	Traditional	Two Piece J-Track	(1-3/8") - 12'	1X2JT.145
Corner	Precision	Outside Corner	(3/16") - 12'	05OC.145
Corner	Craftsman	Inside Corner	(3/4") - 12'	1IC.145
Corner	Craftsman	Outside Corner	(1") - 12'	10C.145
Corner	Traditional	Corner Set	(2") - 12'	2CORS.145
Corner	Traditional	3" Smooth	(3") - 24	3SCP.289
Corner	Traditional	3" V-Groove	(3") - 24'	3SVP.289
Reveal	Precision	Flat Reveal	(1/2") - 12'	1FR.145
Reveal	Precision	T&G Flat Reveal	(1/2") - 24'	1TGFR.289
Reveal	Craftsman	U-Reveal Set	(3/4") - 12'	1URS.145
Reveal	Craftsman	T&G U-Reveal	(3/4) - 24'	1TGURK.289
Reveal	Traditional	U-Reveal Set	(1-1/2") - 12'	2URS.145
Reveal	Traditional	Flat Reveal Set	(1-1/2") - 12'	2FRS.145
Reveal	Traditional	T&G U-Reveal	(1 1/2") - 24'	2TGURK.289
Reveal	Traditional	Offset Flat Reveal Set, J-Track Base	(2") - 12'	20FFJ.145
Reveal	Traditional	Offset Flat Reveal Set, Termination Base	(2") - 12'	20FFT.145
Termination	Precision	Termination Set	(5/8") - 12'	1TS.145
Termination	Craftsman	Termination Set	(7/8") - 12'	TS23S.145
Termination	Traditional	Termination Set	(1-3/8") - 12'	2TS.145
Compression Joints	Traditional	Compression Joint	(1-3/8") - 24'	2CJ.289



V-Groove Planks



Channel Planks



Smooth Planks



Perforated Planks

































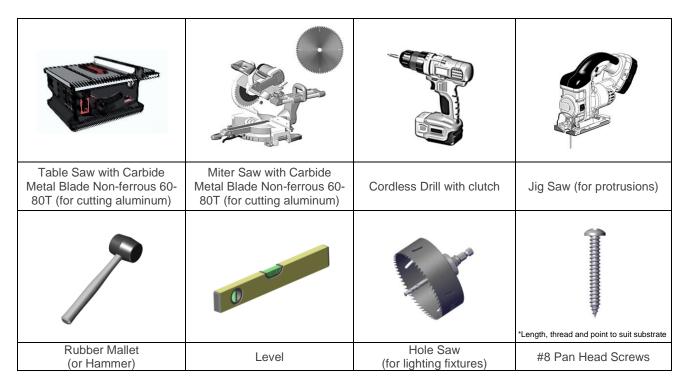
Traditional Offset Flat Reveal Set, J-Track Base



Tools/Cutting/Fastening

Tools

Commonly used tools for install.



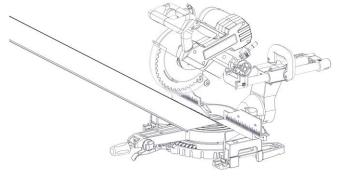
Cutting

⚠ 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.







Planks with Soundtex®

*During mechanical-thermal processing (e.g. grinding, cutting), irritant (fibre) dusts and traces of irritant volatile components may possibly be released. In these cases, vacuum equipment should be present or at least proper ventilation should be implemented.

Recommended PPE:

- Respiratory protection: the use of a respirator is recommended
- Hand protection: wearing of protective gloves is recommended
- Eye protection: wearing of safety glasses is recommended
- Skin protection: avoidance of intense skin contact is recommended

*Ref. TSIS -page 2, #8



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 any applications when the framing member is not available, install furring strips or metal strapping to securely fasten planks.

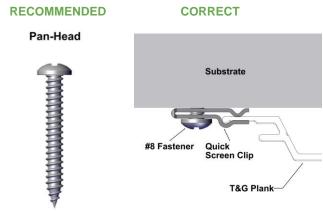
Perimeter components should be hard fastened every 16" (406mm) O.C. directly through the flange using #8 pan-head screws (supplied by others). These components should be fastened within 8" (203mm) of the end for secure fastening.

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

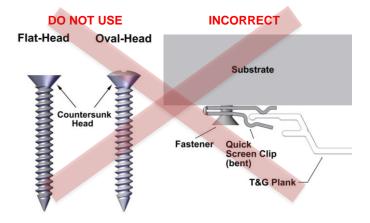
Typically, every 32" (813mm) O.C.

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

Fastener types

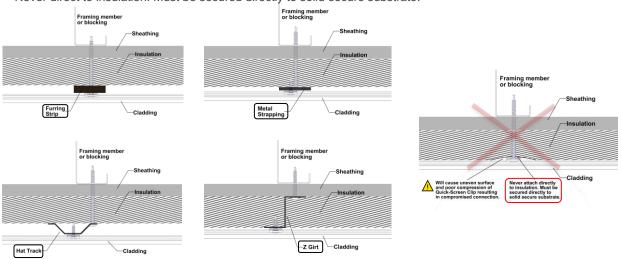


*Length, thread and point to suit substrate



Fastening options onto 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.

Wood Framing

• Size: 2x4 minimum

Metal Framing

• Gauge: 20 ga. minimum

Furring recommendations

Wood Furring

Attached back to wood or metal framing/blocking.

• Size: 3/8" minimum

Metal Furring/Strapping

Attached back to wood or metal framing/blocking.

Size: 20 ga. minimum

Concrete/CMU

Wood or metal furring is recommended over concrete and CMU.

Wood Furring:

Size: 2x2 minimum

Type: Pressure treated lumber

Metal Furring:

• Size: 20 ga. minimum

• Type: Hat channel, Stud, or Z-Girt.

Acoustical Performance

Metal Linear Ceilings Closed Joint Systems	NRC	SAA	Backer
6" V-Groove Plank	0.15	0.12	-
6" V-Groove Plank with Insulation	0.10	0.11	Fiberglass 1" thickness @ 3lbs/ft ³
6" Perforated Plank with 1" Insulation	0.70	0.70	Fiberglass 1" thickness @ 3lbs/ft ³
6" Perforated Plank with 2" Insulation	0.95	0.96	Fiberglass 2" thickness @ 3lbs/ft ³
6" Perforated Plank with Soundtex [®]	0.75	0.75	Soundtex Scrim
2-1/2" Perforated Planks with Insulation	0.70	0.72	Fiberglass 1" thickness @ 3lbs/ft ³
2-1/2" Perforated Planks	0.05	0.03	-

The test reported in this document conformed explicitly with ASTM C423-17 "Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method."



Perimeter and field area limitations & venting

- Measure and layout your ceiling area to consider plank & component alignment with fixtures, penetrations, and adjacent walls and edges, for desired appearance. Consider using butt-joints along runs to minimize waste.
- Longboard system typical dimensions:

Planks width

Perforated Planks width

Planks and Quick-Screen Clips depth

Trim Components depth

- 2 1/2" (64mm), 4" (102mm), 6" (152mm)

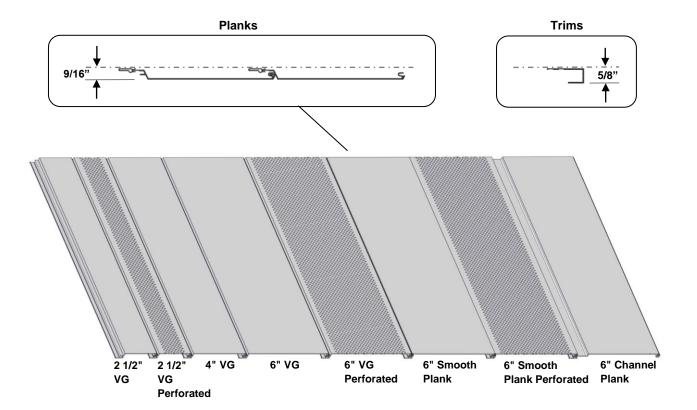
- 2 1/2" (64mm), 6" (152mm)

- 9/16" (14mm)

- 5/8" (15mm)



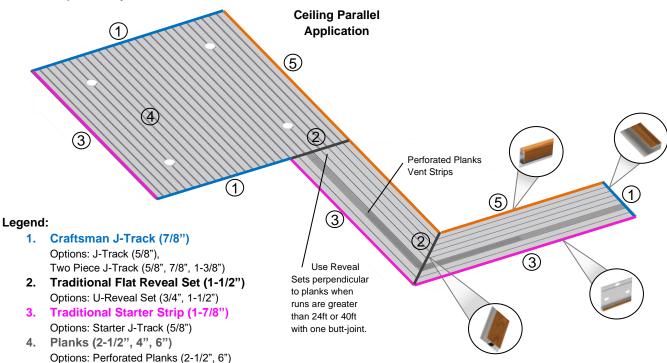
Perforated Planks	NFA (open area)	Hole size(mm)	Lengths
2 1/2" V-Groove	18%	3.18	12'
6" V-Groove	21%	3	12'/24'
6" Smooth Plank	21%	3	12;/24'

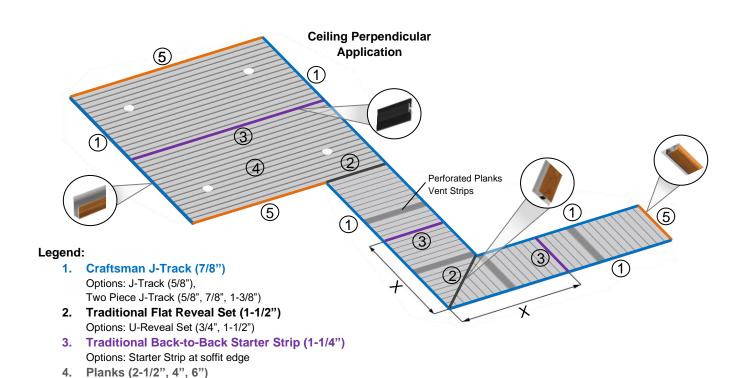




Component layout

Craftsman Termination Set (7/8")
 Options: Termination Set (5/8", 1-3/8")





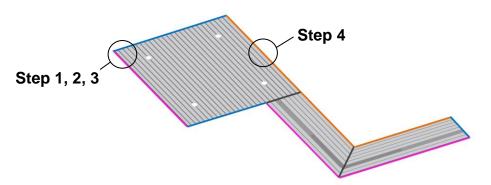
Options: Perforated Planks (2-1/2", 6")

Craftsman Termination Set (7/8")

Options: Termination Set (5/8", 1-3/8")

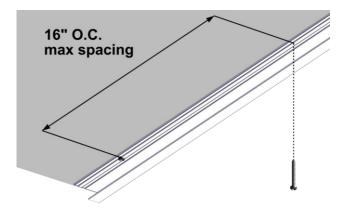


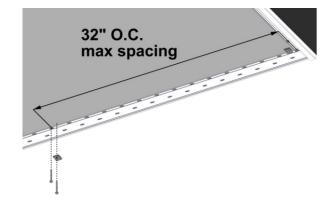
Install Steps - Parallel to the wall





Flat Reveal (Only if required for long runs) Install the Flat Reveal Set base at the desired plank lengths.



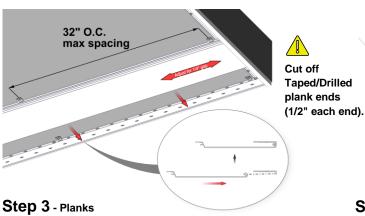


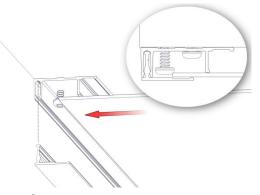
Step 1 - J-Track

Install J-Track or Two-Piece J-Track perpendicular to Planks (e.g.: sides of ceiling areas), or around penetrations or cutouts. Fasten every 16" O.C. with #8 Pan Head Screws. Trims can be mitered for a clean corner look.

Step 2 - Starter Strip

Install the Starter Strip along the edge of the ceiling(s), fastening every 32" O.C. max with Quick Screen Clips & #8 Pan Head Screws. Notch the Starter J-Track to suit the trim component if required.





Place the planks onto the tongue of the Starter Strip, fully engaging tongue. Fasten with Quick Screen Clips & #8 Pan Head Screws @32" O.C. max spacing. Hard fasten only one point preferably near the center of each plank. It is good practice to check your installation every 2-3 rows for level/plumb and flat or straight, for best results. Ensure there is sufficient room for expansion & contraction, also confirming component caps will cover.

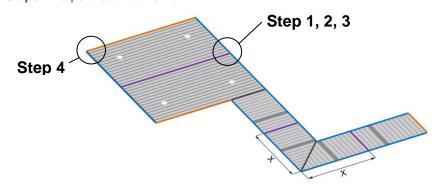
Step 4 - Termination

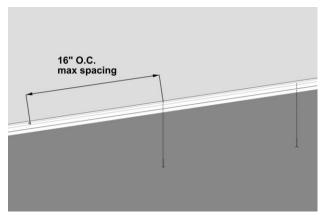
Before the last Plank, install Termination Set base fastening 16" O.C. typ.

Confirm the trim component caps will cover the last Plank and adjust accordingly. Where terminating cut planks, provide a positive stop approximately every 16" (406mm). Finish off the trims with caps from two-piece sets.



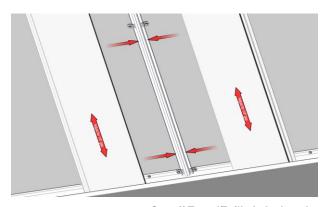
Install Steps - Perpendicular to the wall





Step 1 - J-Track

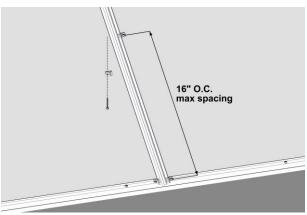
Install J-Track or Two-Piece J-Track perpendicular to Planks (e.g.: sides of ceiling areas), or around penetrations or cutouts. Fasten every 16" O.C. with #8 Pan Head Screws. Trims can be mitered for a clean corner look.



Step 3 - Planks

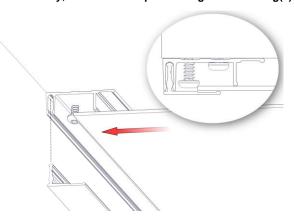
Cut off Taped/Drilled plank ends. (1/2" each end).

Place the planks onto the tongue of the Back-to-Back Starter, fully engaging tongue. Fasten with Quick Screen Clips & #8 Pan Head Screws @32" O.C. max spacing. Hard fasten only one point preferably near the center of each plank. It is good practice to check your installation every 2-3 rows for level/plumb and flat or straight, for best results. Ensure there is sufficient room for expansion & contraction, also confirming component caps will cover.



Step 2 - Back-to-Back Starter

Install the Back-to-Back Starter at the center of areas to achieve equal width ends. Fasten both sides every 16" O.C. max with Quick Screen Clips & #8 Pan Head Screws. Alternatively, use Starter Strip at the edge of the ceiling(s).



Step 4 - Termination

Before the last Plank, install Termination Set base fastening 16" O.C. typ.

Confirm the trim component caps will cover the last Plank and adjust accordingly to the suit the profile. Where terminating cut planks, provide a positive stop approximately every 16" (406mm).

When all Planks are installed finish off the trims with caps from two-piece sets.

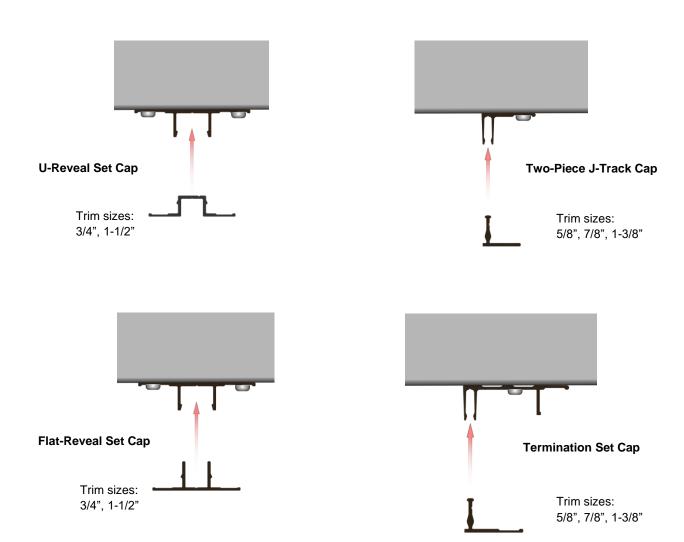


Finishing Steps - Once planks are installed, finish off the perimeter trims with caps from two-piece sets.

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.





Details

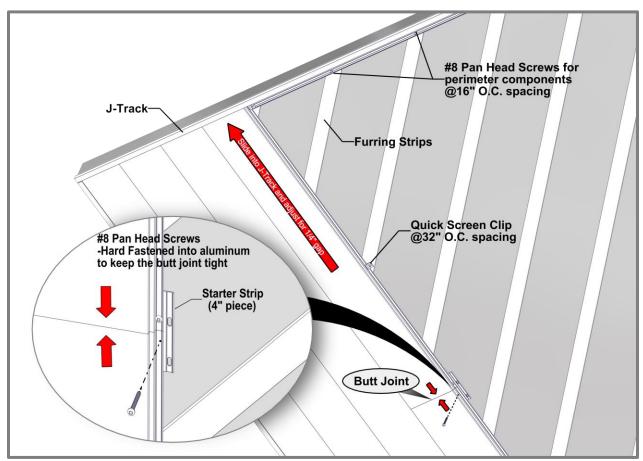
Butt-Joints

- 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). 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 4" length of Starter 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.
- Fasten only:

 Situation
 Location

 No butt-joints:
 -Center of planks

 Butt-joints:
 -At the joints

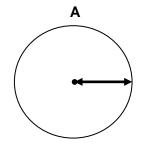


Detail A



Radius Guide for Trims & Planks

Trim Description	Min. Bending Radius	Ref.
Precision J-Track (5/8")	15' (4.57m)	Α
Non-Tempered Precision J-Track (5/8")	1.5' (0.46m)	В
Two-Piece J-Track (5/8")	15' (4.57m)	Α



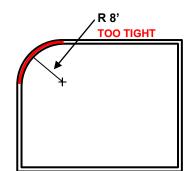




When bending & securing components, bend against solid secure object and take care not to over bend.

С

	Min. B	ending Radiu	S
Plank Description	C (Concave/Convex)	D (Convex)	E (Concave)
4" V-Groove	12' (4.57m)	3' (0.91m)	6' (1.83m)
6" V-Groove	12' (4.57m)	3' (0.91m)	6' (1.83m)
6" Channel	12' (4.57m)	3' (0.91m)	6' (1.83m)

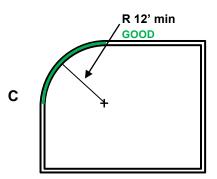
















Appendix

Expansion and Contraction Tables

567,000		/PERIAL			AVERA	GE LEMPE	KATUKE A	T TIME OF	CUTTING	& INSTALL	ATION		
		°C	-50	-40	-30	-20	-10	0	10	20	30	40	50
		°F	-58	-40	-22	-4	14	32	50	68	86	104	122
<u>.</u> [°C	°F				EXPAN	ISION OR C	ONTRACT	ION (INCH/	FOOT)			
CONSTRUCTION LEMP.	-50	-58	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016	-0.019	-0.022	-0.024	-0.027
2	-40	-40	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016	-0.019	-0.022	-0.024
ξl	-30	-22	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016	-0.019	-0.022
ž [-20	-4	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016	-0.019
2	-10	14	0.011	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016
3	0	32	0.014	0.011	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014
7	10	50	0.016	0.014	0.011	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011
MIN/MAX POST	20	68	0.019	0.016	0.014	0.011	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008
₹ I	30	86	0.022	0.019	0.016	0.014	0.011	0.008	0.005	0.003	0.000	-0.003	-0.005
Ž	40	104	0.024	0.022	0.019	0.016	0.014	0.011	0.008	0.005	0.003	0.000	-0.003
												0.000	
	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
	0.0000	ETRIC		5/41/2004/00/09/5/6/4/6	AVERA	GE TEMPE	0.016	0.014	CUTTING	0.008	0.005 ATION	0.003	
	0.0000	ETRIC °C	-50	-40	AVERA	GE TEMPE	0.016 RATURE A -10	0.014 T TIME OF	CUTTING 10	0.008 & INSTALL 20	0.005 ATION 30	0.003	50
	0.0000	ETRIC		5/41/2004/00/09/5/6/4/6	AVERA	GE TEMPE	0.016	0.014	CUTTING	0.008	0.005 ATION	0.003	
BLE	0.0000	ETRIC °C	-50	-40	AVERA	-20 -4	0.016 RATURE A -10	0.014 T TIME OF 0 32	CUTTING 10 50	0.008 & INSTALL 20 68	0.005 ATION 30	0.003	50
BLE	Ē 2 - M	etric °c °f	-50	-40	AVERA	-20 -4	0.016 ERATURE A -10 14	0.014 T TIME OF 0 32	CUTTING 10 50	0.008 & INSTALL 20 68	0.005 ATION 30	0.003	50
BLE	€ 2 - M °C	ETRIC °C °F	-50 -58	-40 -40	AVERA -30 -22	GE TEMPE -20 -4 EXPAN	0.016 ERATURE A -10 14 ISION OR C	0.014 T TIME OF 0 32 ONTRACTI	CUTTING 10 50 ON (MM/M	0.008 & INSTALL 20 68	0.005 ATION 30 86	0.003 40 104	50 122
BLE	°C -50	°C °F °F -58	-50 -58	-40 -40	-30 -22	-20 -4 EXPAN	0.016 RATURE A -10 14 ISION OR C -0.920	0.014 T TIME OF 0 32 ONTRACTI -1.150	CUTTING 10 50 ON (MM/N	0.008 & INSTALL 20 68 METER) -1.610	0.005 ATION 30 86	0.003 40 104 -2.070	50 122 -2.300
BLE	°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	0.016 RATURE A -10 14 SION OR C -0.920 -0.690	0.014 T TIME OF 0 32 ONTRACTI -1.150 -0.920	CUTTING 10 50 ON (MM/M -1.380	0.008 & INSTALL 20 68 METER) -1.610 -1.380	0.005 ATION 30 86 -1.840 -1.610	0.003 40 104 -2.070 -1.840	50 122 -2.300 -2.070
BLE	°C -50 -40 -30 -20 -10	°C °F °F -58 -40 -22	-50 -58 0.000 0.230 0.460	-40 -40 -0.230 0.000 0.230 0.460 0.690	-0.460 -0.230 0.000 0.230 0.460	-20 -4 EXPAN -0.690 -0.460 -0.230	0.016 RATURE A -10 14 ISION OR C -0.920 -0.690 -0.460 -0.230 0.000	0.014 T TIME OF 0 32 ONTRACTI -1.150 -0.920 -0.690	CUTTING 10 50 ON (MM/M -1.380 -1.150 -0.920	0.008 & INSTALL 20 68 IETER) -1.610 -1.380 -1.150	0.005 ATION 30 86 -1.840 -1.610 -1.380	-2.070 -1.840 -1.380 -1.150	-2.300 -2.070 -1.840
CONSTRUCTION LEMP.	°C -50 -40 -30 -20 -10 0	*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	0.016 RATURE A -10 14 SION OR C -0.920 -0.690 -0.460 -0.230 0.000 0.230	0.014 T TIME OF 0 32 ONTRACTI -1.150 -0.920 -0.690 -0.460 -0.230 0.000	CUTTING 10 50 ON (MM/M -1.380 -1.150 -0.920 -0.690 -0.460 -0.230	0.008 & INSTALL 20 68 -1.610 -1.380 -1.150 -0.920 -0.690 -0.460	0.005 ATION 30 86 -1.840 -1.610 -1.380 -1.150	-2.070 -1.840 -1.610 -1.380 -1.150 -0.920	-2.300 -2.070 -1.840 -1.610 -1.380 -1.150
CONSTRUCTION LEMP.	°C -50 -40 -30 -20 -10 0 10	*F	-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	0.016 ERATURE A -10 14 SION OR C -0.920 -0.690 -0.460 -0.230 0.000 0.230 0.460	0.014 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/M -1.380 -1.150 -0.920 -0.690 -0.460 -0.230 0.000	0.008 & INSTALL 20 68 IETER) -1.610 -1.380 -1.150 -0.920 -0.690 -0.460 -0.230	0.005 ATION 30 86 -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	-2.300 -2.070 -1.840 -1.610 -1.380 -1.150 -0.920
CONSTRUCTION LEMP.	°C -50 -40 -30 -20 -10 0 10 20	*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	-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	0.016 ERATURE A -10 14 SION OR C -0.920 -0.690 -0.460 -0.230 0.000 0.230 0.460 0.690	0.014 T TIME OF 0 32 ONTRACTI -1.150 -0.920 -0.690 -0.460 -0.230 0.000	CUTTING 10 50 ON (MM/M -1.380 -1.150 -0.920 -0.690 -0.460 -0.230	0.008 & INSTALL 20 68 -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
BLE	°C -50 -40 -30 -20 -10 0 10	*F	-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	0.016 ERATURE A -10 14 SION OR C -0.920 -0.690 -0.460 -0.230 0.000 0.230 0.460	0.014 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/M -1.380 -1.150 -0.920 -0.690 -0.460 -0.230 0.000	0.008 & INSTALL 20 68 IETER) -1.610 -1.380 -1.150 -0.920 -0.690 -0.460 -0.230	0.005 ATION 30 86 -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	-2.300 -2.070 -1.840 -1.610 -1.380 -1.150 -0.920
BLE	°C -50 -40 -30 -20 -10 0 10 20	*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	0.016 ERATURE A -10 14 SION OR C -0.920 -0.690 -0.460 -0.230 0.000 0.230 0.460 0.690	0.014 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	0.008 & INSTALL 20 68 -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

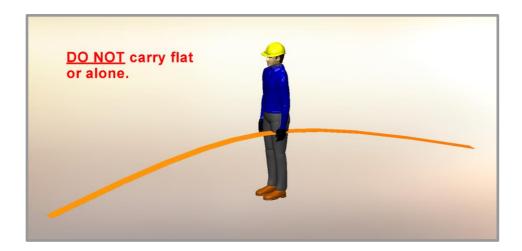


Proper Handling of Longboard Products

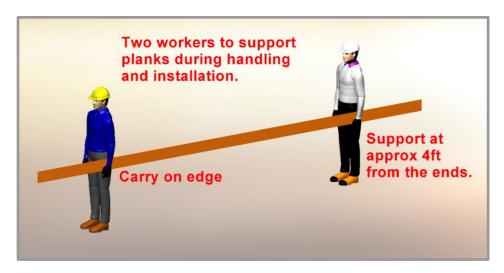


To help avoid injury and product damage, Longboard products require proper handling to and from storage areas during installation. When carrying or installing any products it is recommended that they be moved or carried by at least two people with each support point approximately 4ft from the ends. Carrying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



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Every effort has been made to ensure that the information in these installation guidelines are 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.