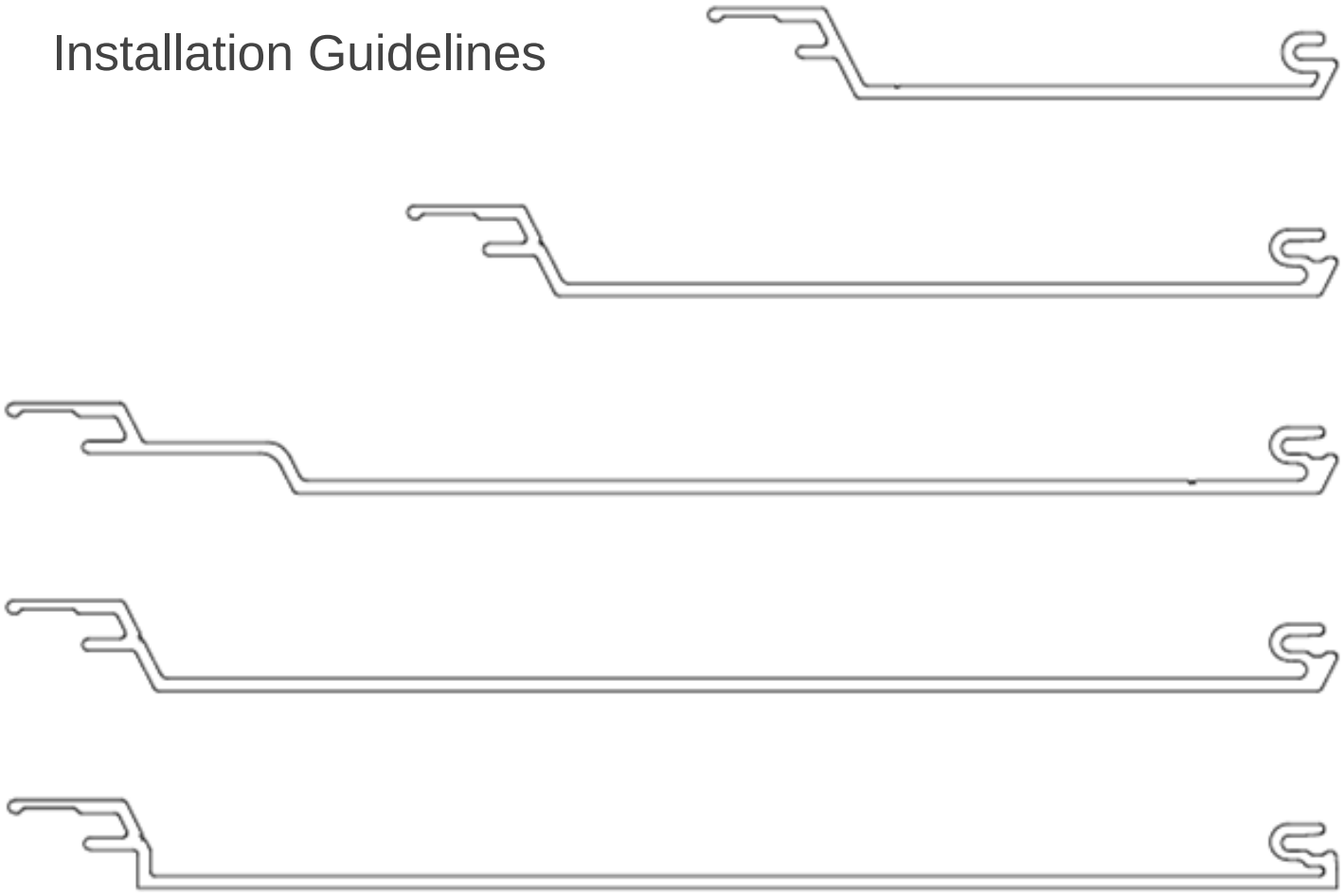
LONGBOARD®
INSPIRING ARCHITECTURE

Endura Linear Ceilings

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 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℃ (54℉) temperature range. Due to this range of movement, the following expansion components should be installed perpendicular to planks every:

- 24' (7.3m) max[1] Perpendicular to Planks: Traditional Flat Reveal, U-Reveal Set

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

Other options (Perpendicular to Planks only)

- 12' (3.7m) -Craftsman U-Reveal Set
- 6'- 8' (1.8- 2.4m) -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, 192 LF) w. 90pcs Quick-Screen Clips included
  4" V-Groove: 96 SQ FT/Box (12/24's, 288 LF) w. 144 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

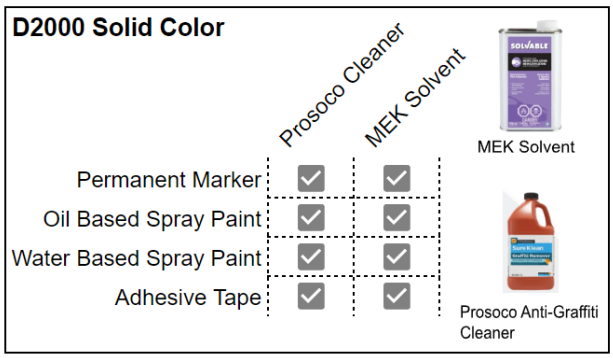
⚠Registration is required for the warranty to be in effect.

Graffiti Removal

Standard Woodgrain

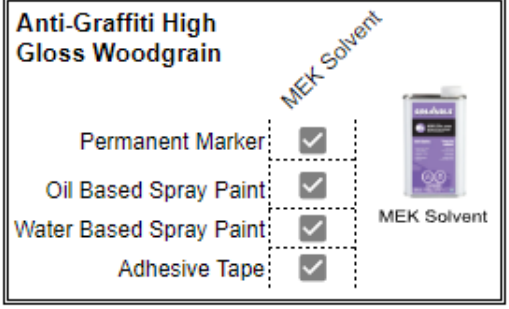
Use Standard soap & water only

D2000 Solid Color



SPECIAL ORDER - EXT. LEAD TIMES CONTACT LB

Anti-Graffiti High Gloss Woodgrain



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

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

Butt-Joint Fastening Kit

Smooth Planks

Size	12' *	24' ‡	12' Perf *	24' Perf ‡
6"	6PSP.145	6PSP.289	6PSPP.145	6PSPP.289

Quick-Screen Clip

Channel Planks

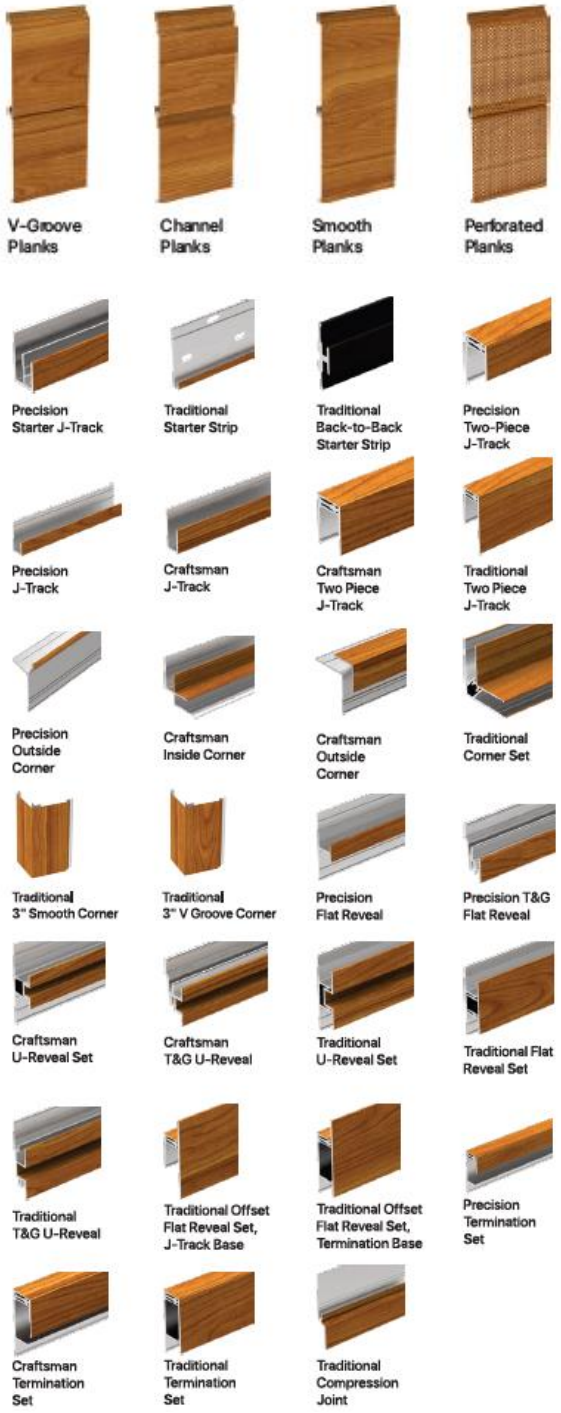
Size	12' *	24' ‡
6"	6CH.145	6CH.289

Accessories

Product	Qty	SKU
Quick Screen Clips	1750, box	CLIP.N1750
Quick Screen Clips	100, bag	CLIP.N100
1/16" U-SHIM	250, bag	SHIM.1001
Butt- Joint Fastening Kit (6")	20 kits, bag	TGBJKIT
Touch Up Pens *Reach out to confirm color with account manager.*	N/A	TUP

Trim Components

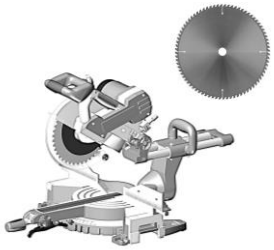
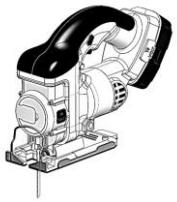
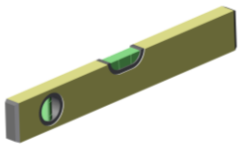
Type	Style	Product	Dimensions	SKU
Starter	Precision	Starter J-Track	(5/8") - 12'	1SJT.145
Starter	Traditional	Starter Strip	(1-7/8") - 12'	2SS.145
Starter	Traditional	Back-to-Back Starter Strip	(1-1/4")	2BTBSS.145
J-Track	Precision	Two Piece J-Track	(5/8") - 12'	1X1JT.145
J-Track	Precision	J-Track	(5/8") - 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'	1OC.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'	2OFFJ.145
Reveal	Traditional	Offset Flat Reveal Set, Termination Base	(2") - 12'	2OFFT.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



Tools/Cutting/Fastening

Tools

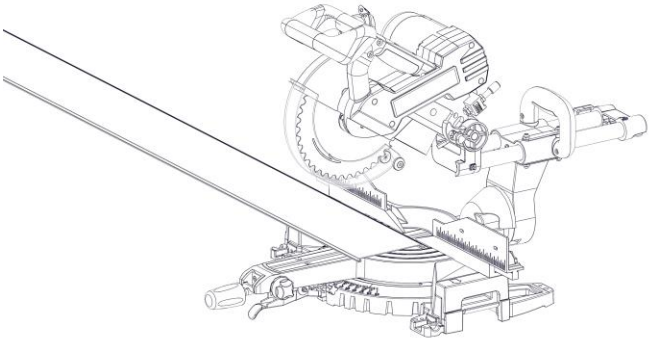
Commonly used tools for install.

			
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)	#10 Pan Head Screws (by others)

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

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

Typical spacing:
-using **#10 Fasteners (by others)**

Trim components including Starter Strip

- **16” (406mm) O.C.**
- **24” (610mm) O.C. (for direct to truss)**

Planks
Standard

- **32” (813mm) O.C.**
  (Quick-Screen Clips included with order for this spacing)

Higher PSF loads

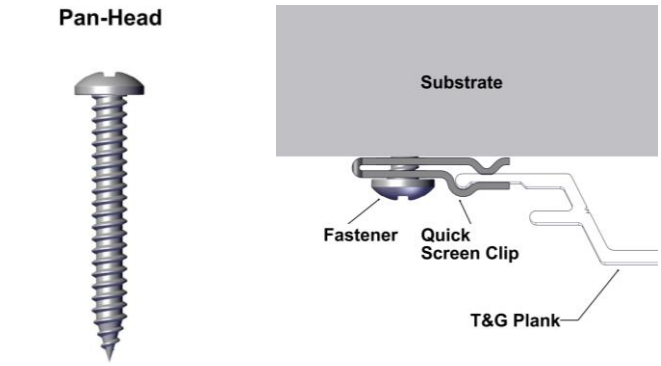
- **16” (406mm) O.C.**
  (Add extra Quick-Screen Clips to order)

See **Appendix for fastening specs:**
Fastening to Structure -Table 3
Fastening to Sheathing Tables 4-6
Fastening to Interior T-Bar Table 7

Framing/Furring 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.
See **Appendix for framing/furring/sheathing specs: Tables 3-6**

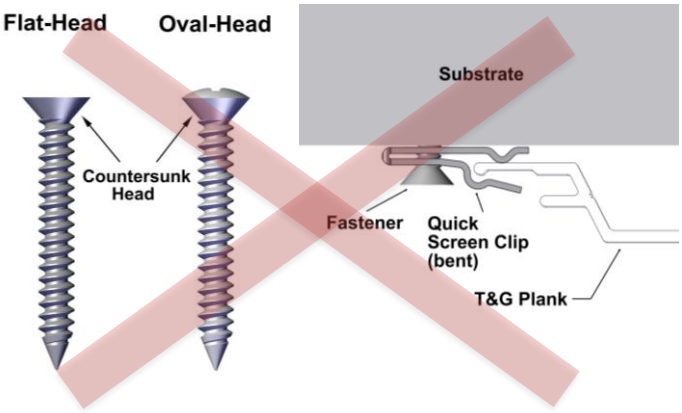
Fastener types

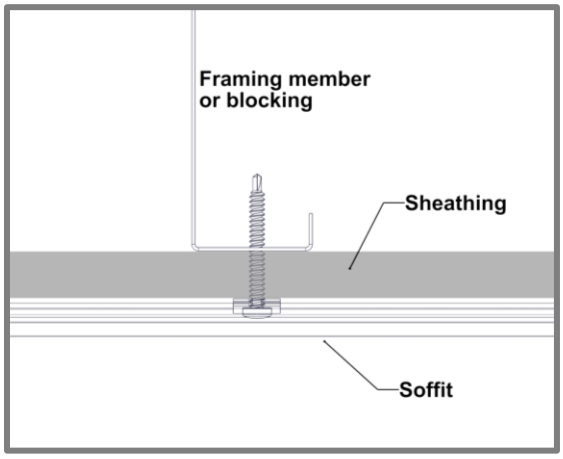
RECOMMENDED **CORRECT**



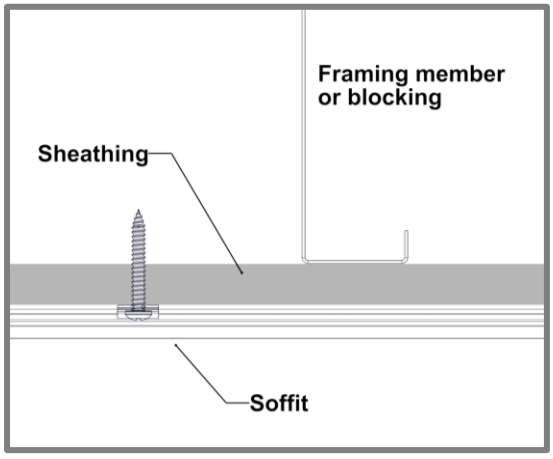
*Length, thread and point to suit substrate

DO NOT USE **INCORRECT**





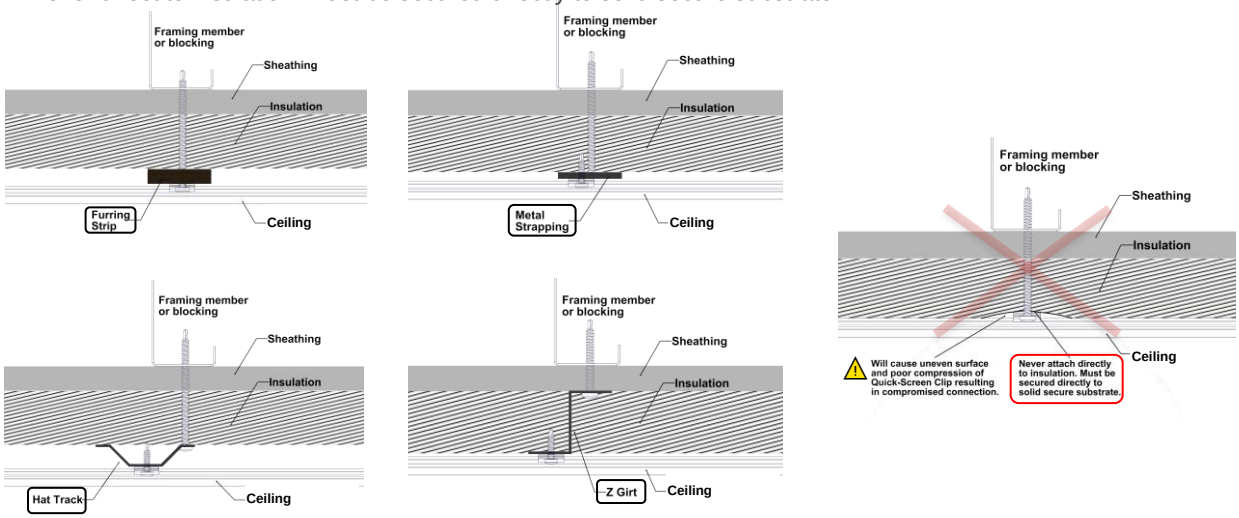
Fastening to Structure
(see Table 3 for specs)



Fastening to Sheathing
(see Tables 4-6 for specs)

Fastening options onto exterior insulation

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

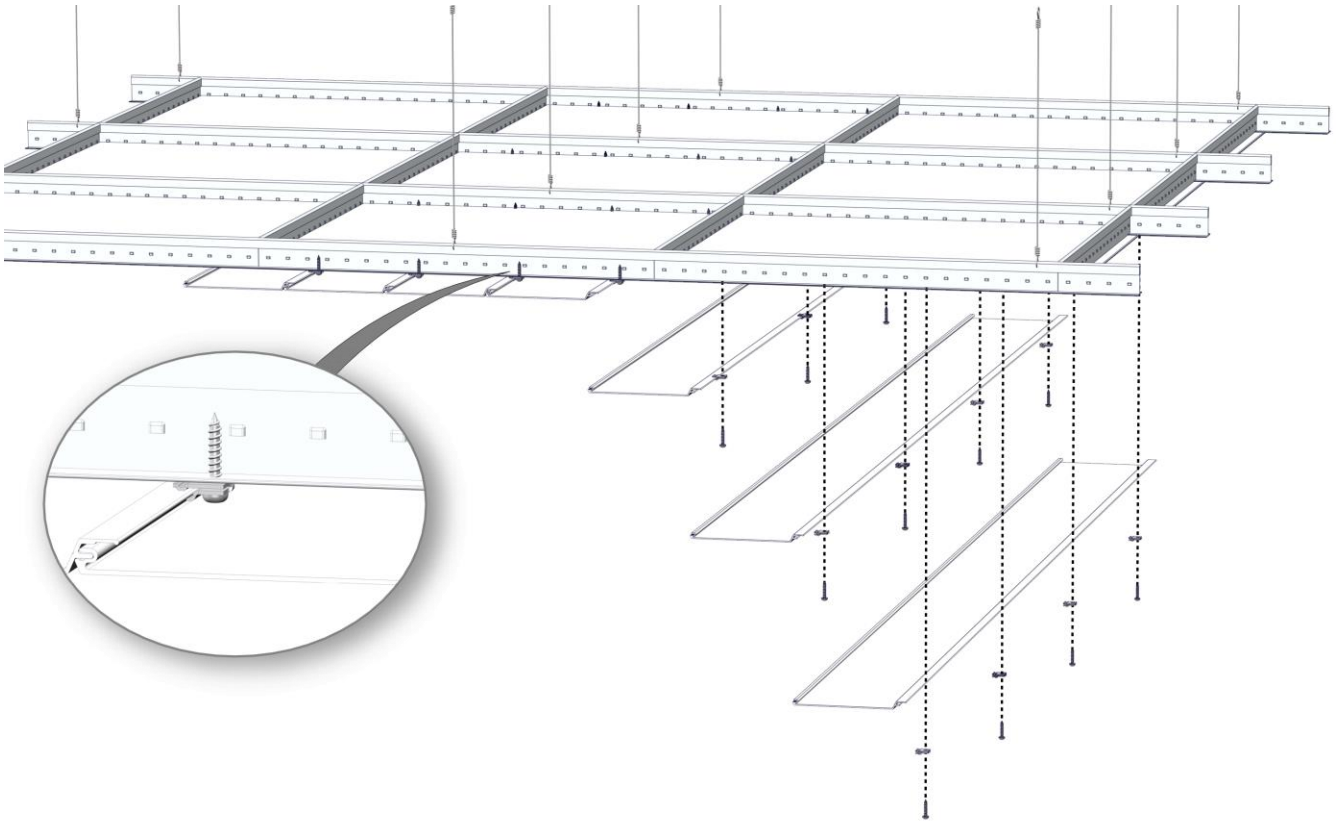


Acoustical Performance

Metal Linear Ceilings -Closed Joint Systems	Backer (Insulation)	NRC	SAA
PROVIDED BY LONGBOARD			
2-1/2" Perforated Plank	No Backer	0.05	0.03
6" V-Groove Plank	No Backer	0.15	0.12
6" Perforated Plank	Soundtex®	0.75	0.75
LONGBOARD PLANKS WITH BACKER PROVIDED BY OTHERS			
2-1/2" Perforated Plank	Fiberglass 1" thickness @ 3lbs/ft3	0.70	0.72
6" V-Groove Plank	Fiberglass 1" thickness @ 3lbs/ft3	0.10	0.11
6" Perforated Plank	Fiberglass 1" thickness @ 3lbs/ft3	0.70	0.70
6" Perforated Plank	Fiberglass 2" thickness @ 3lbs/ft3	0.95	0.96

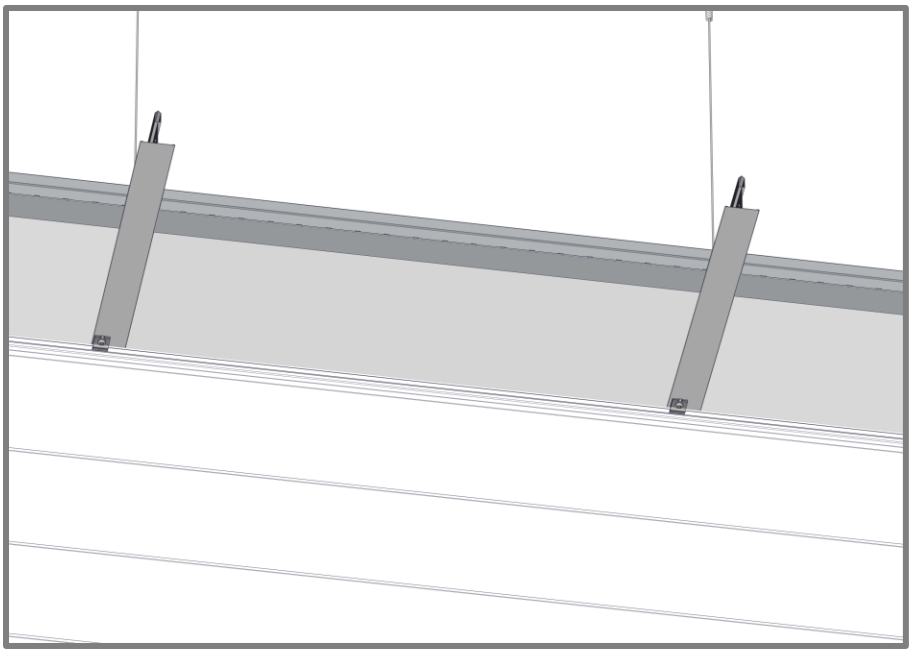
The test reported in this document conformed explicitly with ASTM C423-17 "Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method."

Fastening to Interior T-Bar Grid



When fastening to T-Bar Grids confirm the required gauge of the T-Bar for secure attachment and consider the distribution of Planks taking into account the weight allowance of the substructure.

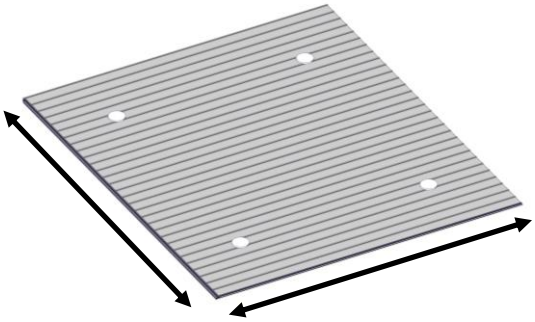
See **Appendix -Table 7 Fastening to T-Bar Grid for specs and details.**



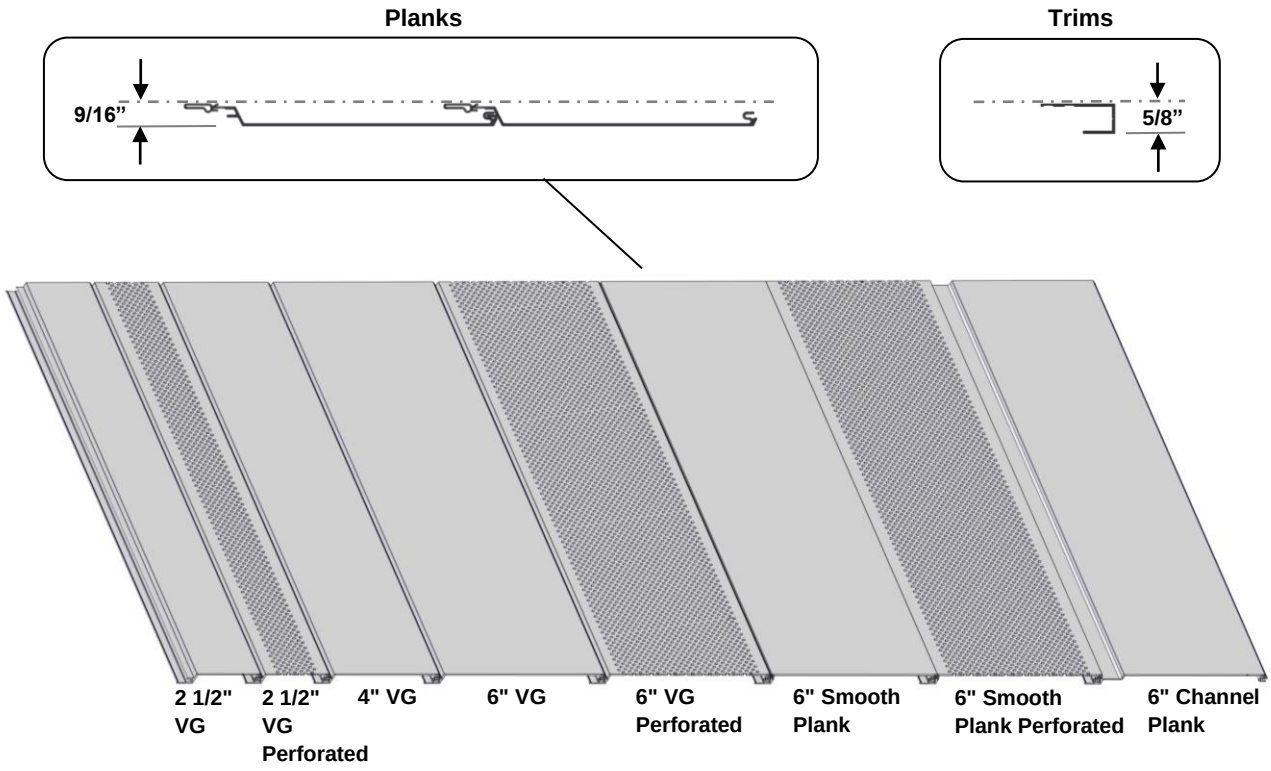
Perimeter and field area limitations & venting

- 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	- 2 1/2” (64mm), 4” (102mm), 6” (152mm)
Perforated Planks width	- 2 1/2" (64mm), 6” (152mm)
Planks and Quick-Screen Clips depth	- 9/16” (14mm)
Trim Components depth	- 5/8” (15mm)

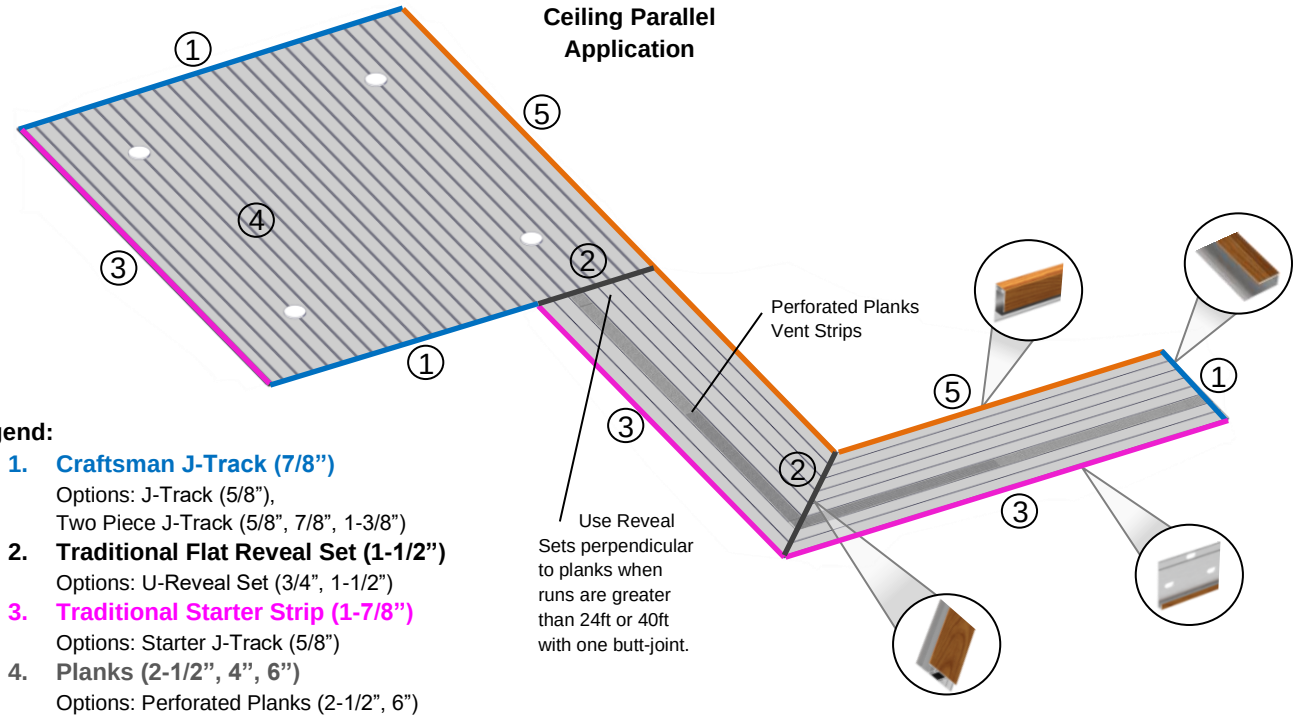


Perforated Planks	NFA (open area)	Hole size(mm)	Lengths
2 1/2" V-Groove	15%	3	12’
6” V-Groove	21%	3	12’/24’
6” Smooth Plank	21%	3	12;/24’



Component layout

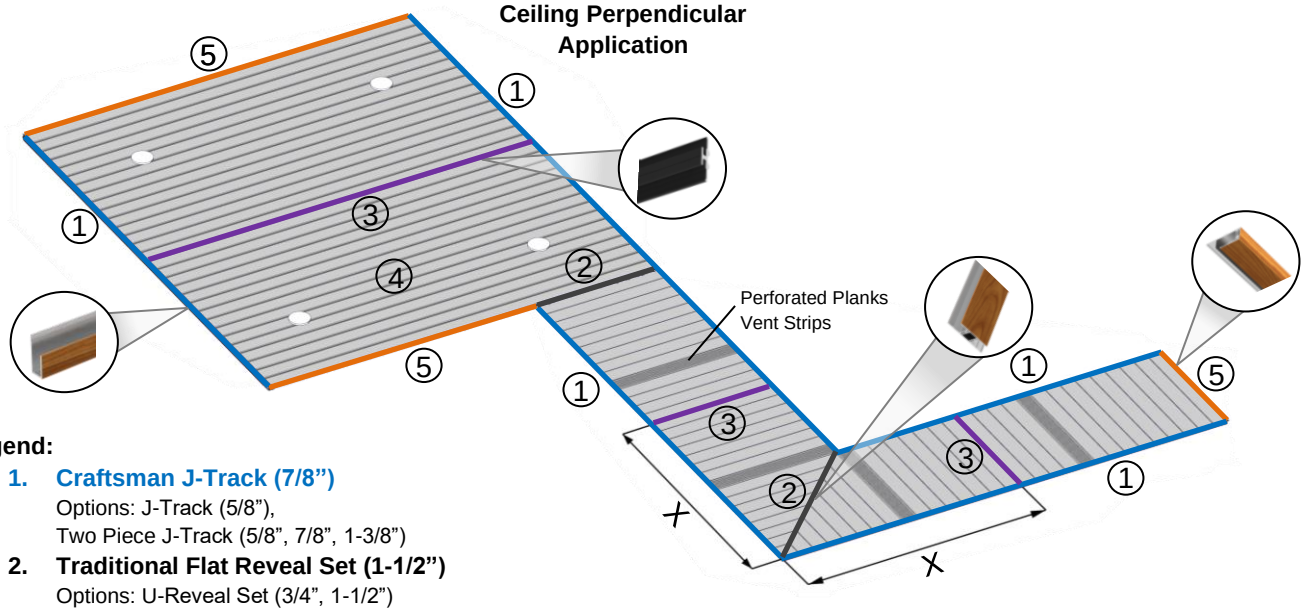
Ceiling Parallel Application



Legend:

1. **Craftsman J-Track (7/8”)**
   Options: J-Track (5/8”),
   Two Piece J-Track (5/8”, 7/8”, 1-3/8”)
2. **Traditional Flat Reveal Set (1-1/2”)**
   Options: U-Reveal Set (3/4”, 1-1/2”)
3. **Traditional Starter Strip (1-7/8”)**
   Options: Starter J-Track (5/8”)
4. **Planks (2-1/2”, 4”, 6”)**
   Options: Perforated Planks (2-1/2”, 6”)
5. **Craftsman Termination Set (7/8”)**
   Options: Termination Set (5/8”, 1-3/8”)

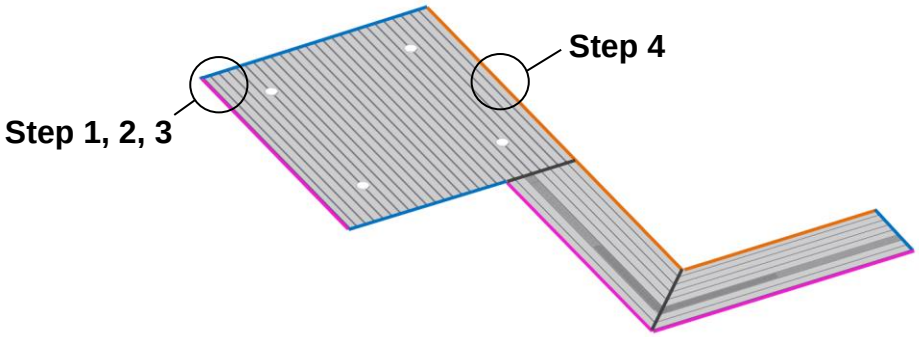
Ceiling Perpendicular Application

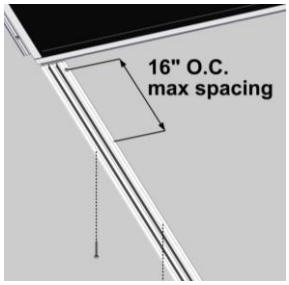


Legend:

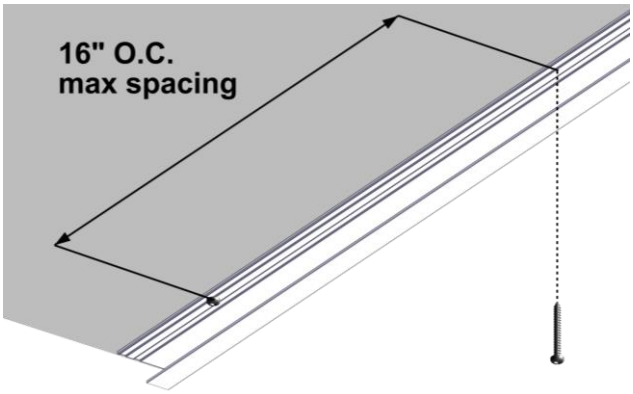
1. **Craftsman J-Track (7/8”)**
   Options: J-Track (5/8”),
   Two Piece J-Track (5/8”, 7/8”, 1-3/8”)
2. **Traditional Flat Reveal Set (1-1/2”)**
   Options: U-Reveal Set (3/4”, 1-1/2”)
3. **Traditional Back-to-Back Starter Strip (1-1/4”)**
   Options: Starter Strip at soffit edge
4. **Planks (2-1/2”, 4”, 6”)**
   Options: Perforated Planks (2-1/2”, 6”)
5. **Craftsman Termination Set (7/8”)**
   Options: Termination Set (5/8”, 1-3/8”)

Install Steps – Parallel to the wall



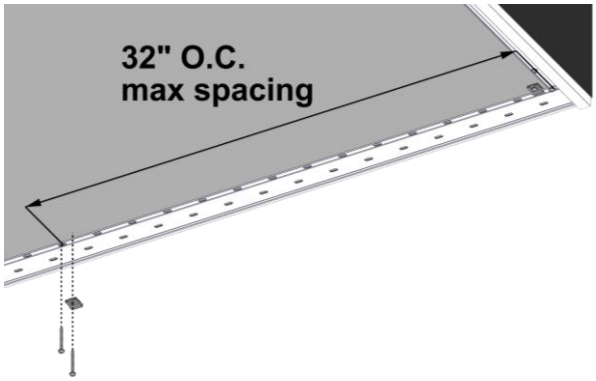


Flat Reveal
(Only if required for long runs)
Install the Flat Reveal Set base at the desired plank lengths.



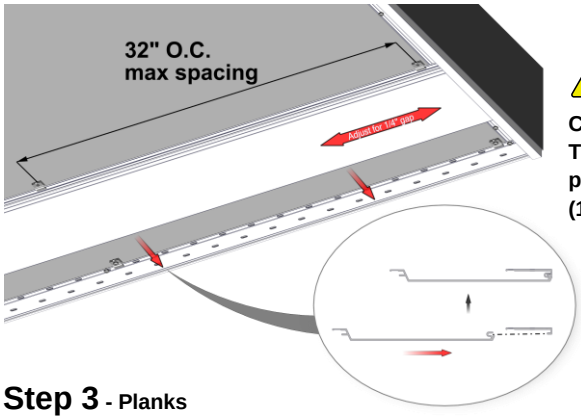
Step 1 - J-Track

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 #10 Pan Head Screws. Trims can be mitered for a clean corner look.

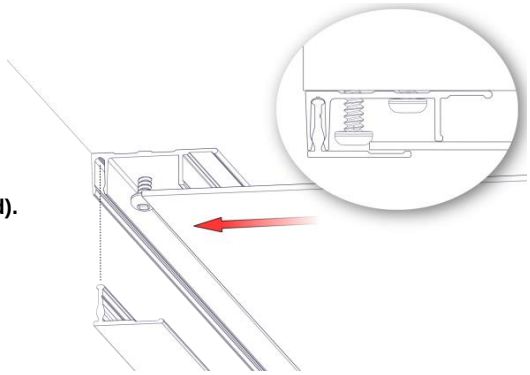


Step 2 - Starter Strip

Install the Starter Strip along the edge of the ceiling(s), fastening every 32" O.C. max with Quick Screen Clips & #10 Pan Head Screws. Notch the Starter J-Track to suit the trim component if required.



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



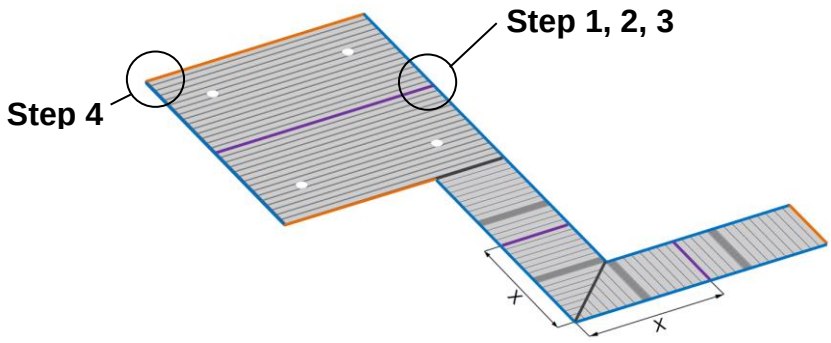
Step 3 - Planks

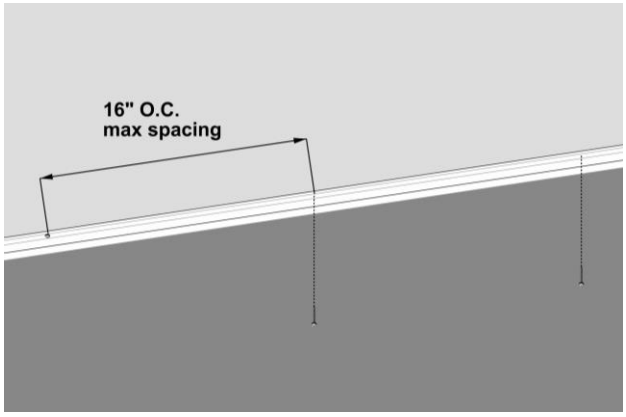
Place the planks onto the tongue of the Starter Strip, fully engaging tongue. Fasten with Quick Screen Clips & #10 Pan Head Screws @32" O.C. max spacing (See Tables 3-7 for fastening requirements). Hard fasten only one point preferably near the center of each plank. It is good practice to check your 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.

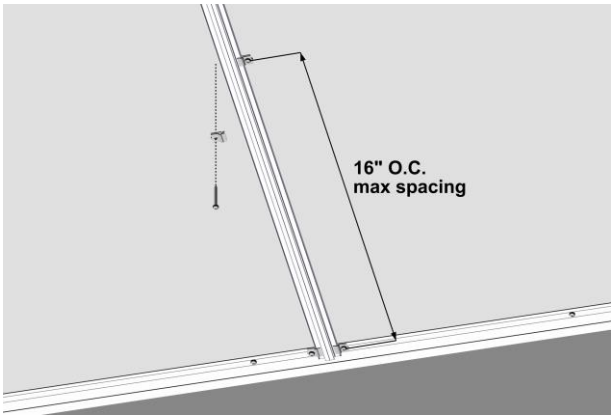
Install Steps – Perpendicular to the wall





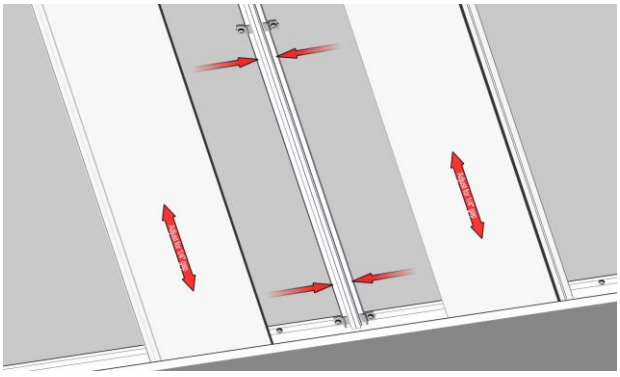
Step 1 - J-Track

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 #10 Pan Head Screws. Trims can be mitered for a clean corner look.



Step 2 - Back-to-Back Starter

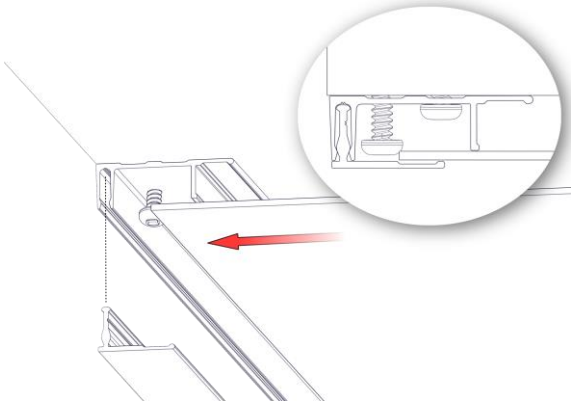
Install the Back-to-Back Starter at the center of areas to achieve equal width ends. Fasten both sides every 16" O.C. max with Quick Screen Clips & #10 Pan Head Screws. Alternatively, use Starter Strip at the edge of the ceiling(s).



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 & #10 Pan Head Screws @32" O.C. max spacing (See Tables 3-7 for fastening req.). 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 to the suit the profile. Where terminating cut planks, provide a positive stop approximately every 16" (406mm).

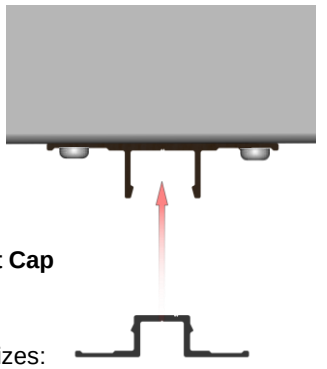
When all Planks are installed finish off the trims with caps from two-piece sets.

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

Component Caps

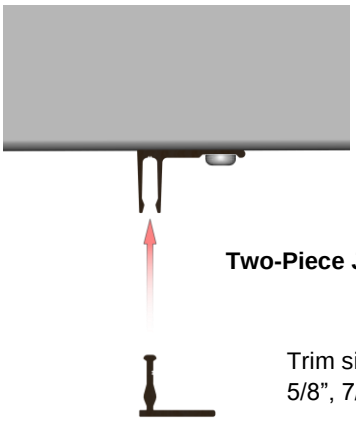
Location: Installed onto the base of the two-piece sets.

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



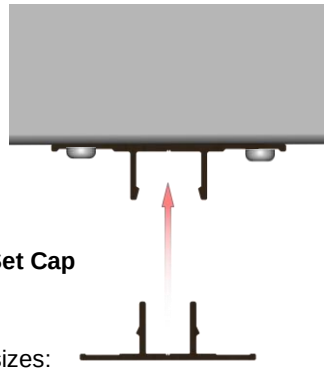
U-Reveal Set Cap

Trim sizes:
3/4”, 1-1/2”



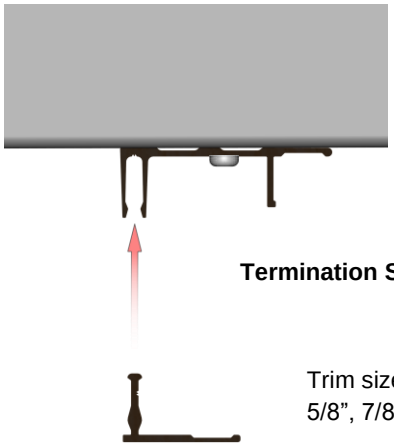
Two-Piece J-Track Cap

Trim sizes:
5/8”, 7/8”, 1-3/8”



Flat-Reveal Set Cap

Trim sizes:
3/4”, 1-1/2”



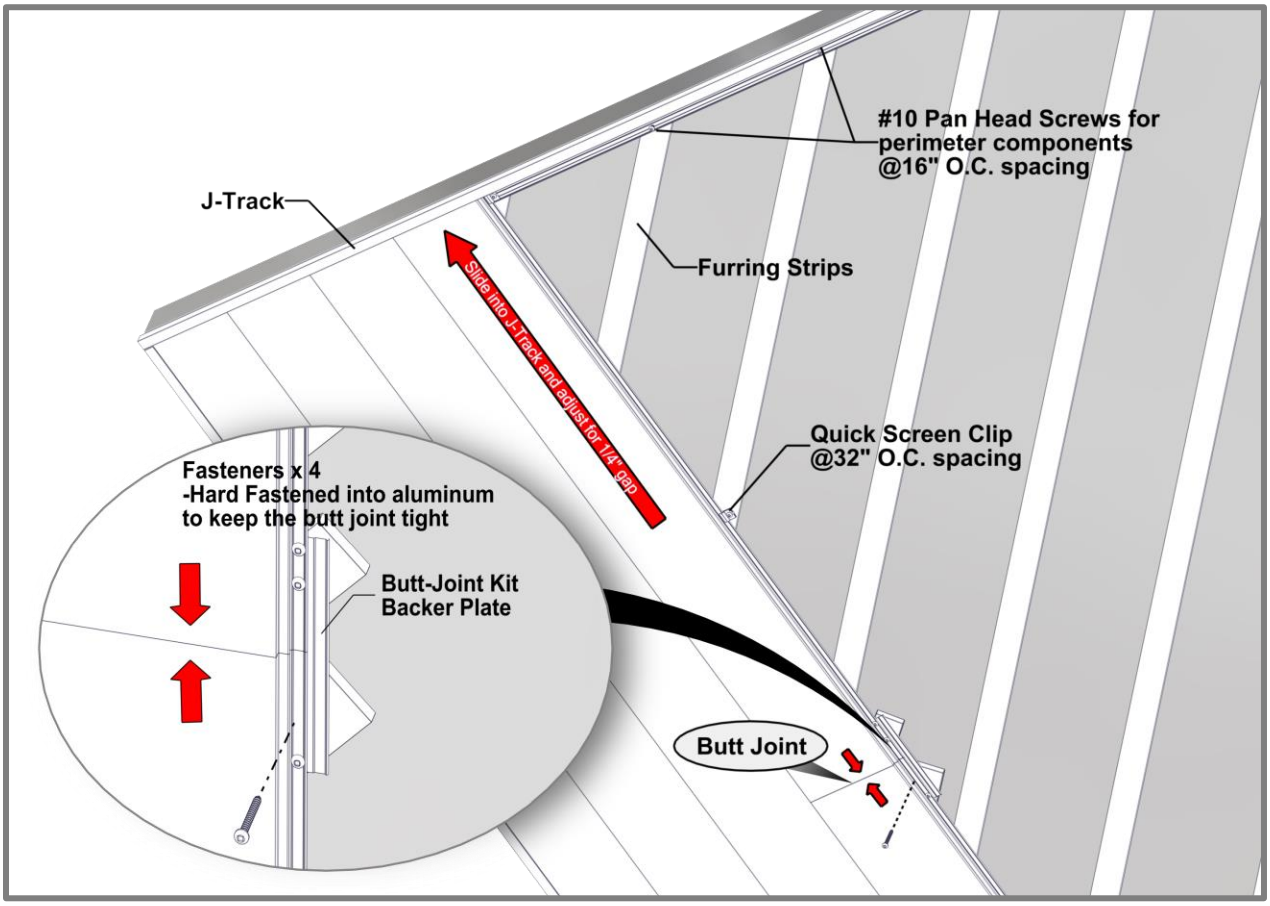
Termination Set Cap

Trim sizes:
5/8”, 7/8”, 1-3/8”

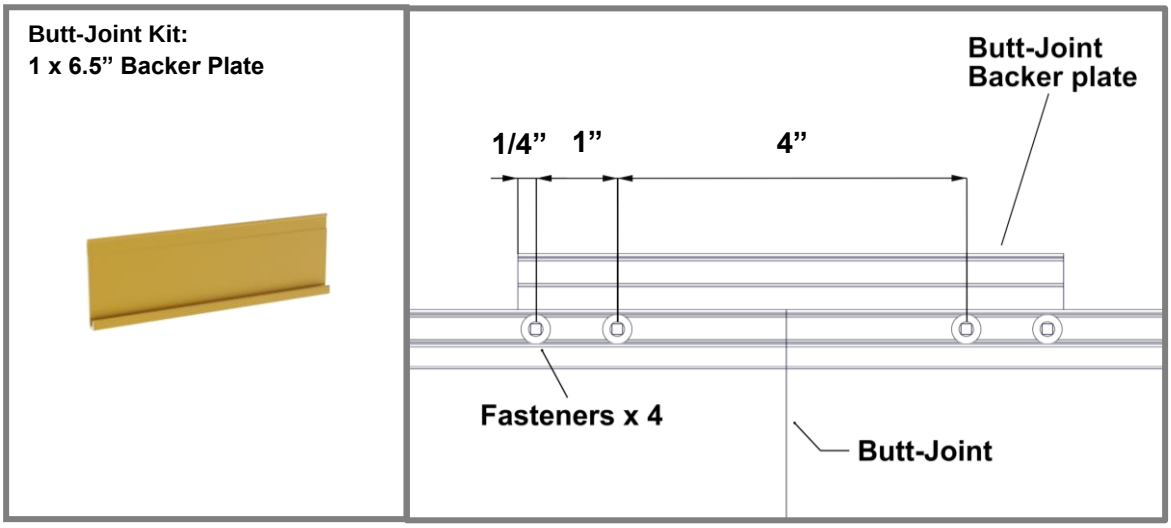
Details

Single Butt-Joints

- Consider using butt-joints along runs to minimize waste.
- ⚠ When installing staggered butt-joints, use the Butt-Joint Fastening Kit 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 the Butt-Joint backer plate. **(See Detail B)**
- Rivets can be used for single butt-joints, however clearance of the rivets and room for movement is required.
- 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 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 at the butt-joint or the center of each plank run.



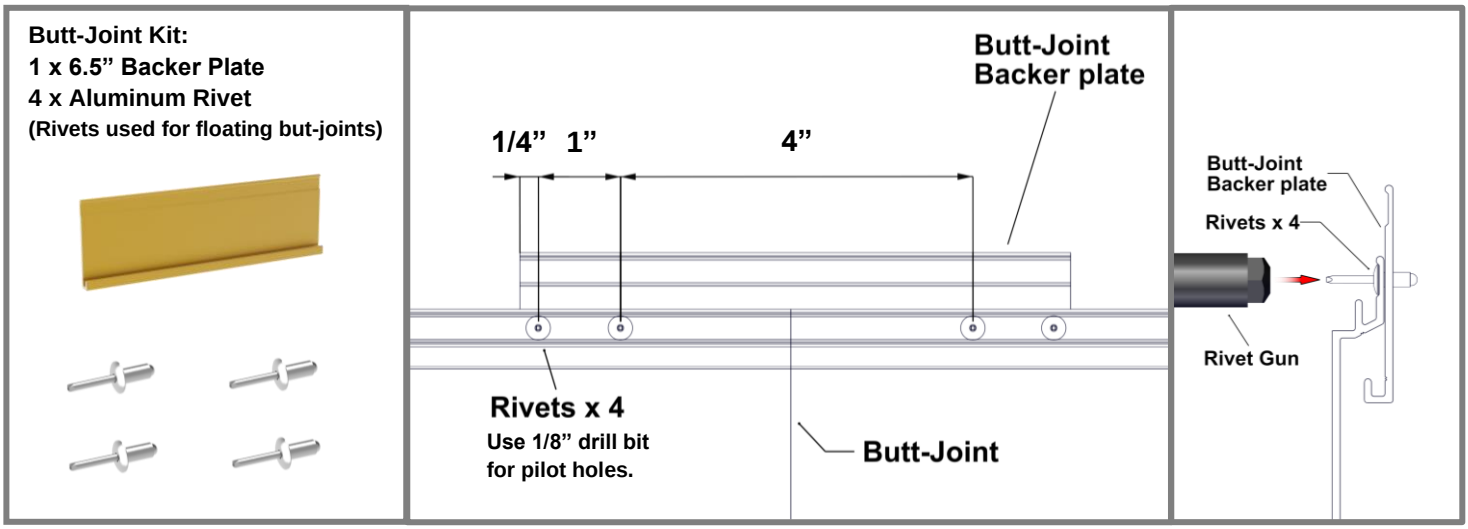
Detail A



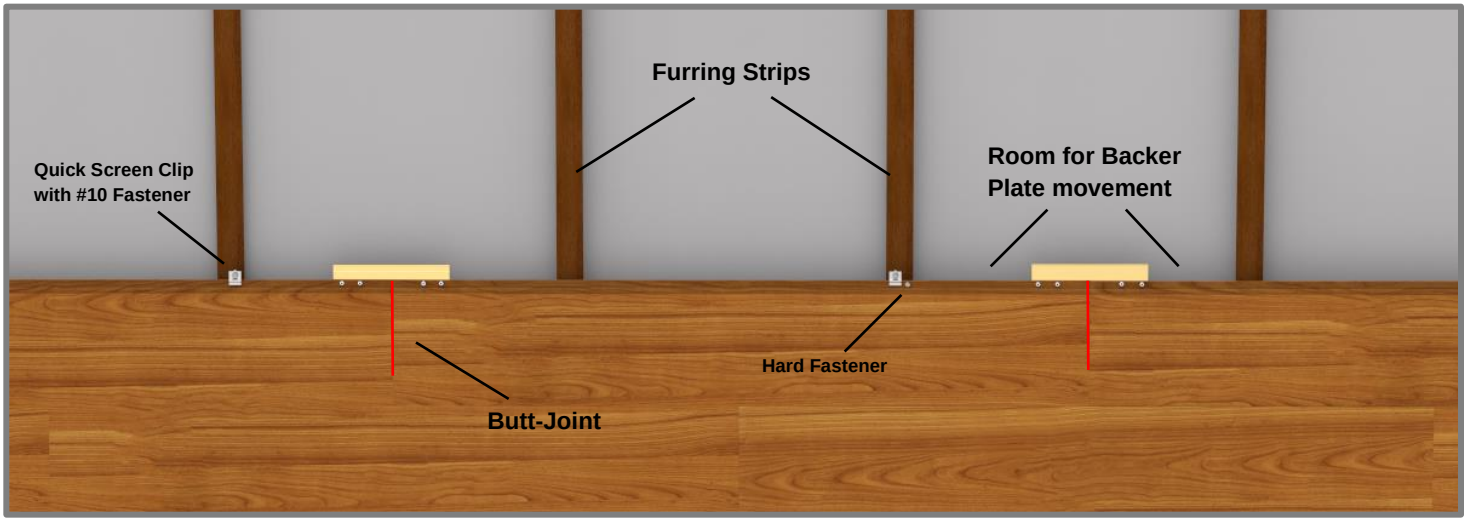
Detail B -Backer Plate (Hard Fastened)

Multiple Floating Butt-Joints

- ⚠ When installing staggered multiple floating butt-joints, use the Butt-Joint Fastening Kit to ensure joints do not open up. Rivets should be placed at the center of the plank flange, to not interfere with the next plank engaging the tongue and groove properly. **(See Detail C)**
- MUST HAVE furring strips or girts to allow room for movement.
- Recommended to be installed between furring strips or framing members to avoid contact which would restrict movement. **(See Detail D)**
- 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 hard-fasten a plank to a component trim, as this will restrict its ability to expand & contract into the component.
- DO NOT hard-fasten more than one (1) location per multiple plank run.
- Hard fasten near the center of the multiple plank run.



Detail C -Floating Butt-Joint



Detail D -Butt-Joint Movement

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.		EXPANSION OR CONTRACTION (INCH/FOOT)										
°C	°F											
-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.		EXPANSION OR CONTRACTION (MM/METER)										
°C	°F											
-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 - Fastener to Structure

LONGBOARD® INSPIRING ARCHITECTURE

v.1.1

FASTENER TO STRUCTURE SPACING - WIND LOAD

T&G PLANKS		PSF (Factored / Ultimate)										
		20	30	40	50	60	70	80	90	100	110	120
QUICK-SCREEN CLIP SPACING (IN)	16"											
	24"											
	32"											

Plank Profiles: V-Groove (2-1/2", 4", 6"), Smooth (6"), Channel (6"), Lap Siding (6"), Board & Batten Siding (7")

TRIM COMPONENTS*		PSF (Factored / Ultimate)										
		20	30	40	50	60	70	80	90	100	110	120
	16"											
Soffit direct to truss	24"											

*Starter Strip requires Two (2) installation anchors at each fastener location: 1 Quick-Screen Clip + 1 Mid-Point slotted hole

Calculations are using L/180 deflection limits

SUBSTRATE TYPE	SUBSTRATE REQUIREMENTS	ANCHOR DESCRIPTION	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD	Min. specific gravity = 0.55 wood	#10 Pan Head Screw	1-1/2"	3/4"
STEEL	Min. 18 ga., min. 33 ksi.	#10 Tek Screw (grade 5)	3 threads penetration past metal structure	1/2"
CONCRETE**	Min. 3000 psi	3/16" ITW Tapcon	1"	1"
MASONRY - CMU**	Grout-filled block per ASTM C-90, min. 2000 psi		1"	2"

**For Concrete and Masonry/CMU; Furring Strips are recommended, where possible

GENERAL NOTES:

1. Adequacy of the structural stud framing (wood and/or metal) and concrete/masonry as a main wind force resiting system capable of withstanding and transferring applied product loads to the foundation is the responsibilty of the engineer or architect of record for the project of installation.
2. Substrate shall be designed and anchored to properly transfer all loads to the structure buck design and installation is the responsibilty of the engineer or architect of record for the project of installation.
3. The installation details described herein are generic and may not reflect actual conditions for a specific site. If site conditions cause installation to deviate from the requirements detailed herein, a licensed engineer or architect shall prepare site specific documents for use with this document.
4. An unfactored dead load of 1.5 psf was assumed for the cladding.

INSTALLATION NOTES:

1. One (1) installation anchor is required at each Quick-Screen Clip location. Minimum of two (2) anchors per plank.
2. Spacing is from clip/fastener center to center.
3. The number of installation anchors per the table is the minimum number of anchors to be used for product installation.
4. Install individual installation anchors within a tolerance of +/- 1/2" of the specified spacings. Tolerances are not cumulative from one installation anchor to the next.
5. If fastening to every second stud, the attachment stud shall be staggered between adjacent runs of cladding.
6. Minimum embedment and edge distance exclude wall finishes, including but not limited to wood furrings, stucco, foam, brick veneer, sheathing and siding.
7. Installation anchors and associated hardware must be made of corrosion resistant material or have a corrosion resistant coating. Common fastener types can be equal or better to a & b listed below:
    a. Zinc plated fasteners for moderate climate zones
    b. 316 Stainless Steel fasteners for coastal climate zones
8. For CMU grout filled block, do not install installation anchors into mortar joints. Edge distance is measured from free edge of block or edge of mortar joint into face shell of block.
9. Installation anchors shall be installed in accordance with anchor manufacturer's installation instructions, and anchors shall not be used in substrates with strengths less than the minimum strength specified by the anchor manufacturer.

Table 4 - Fastener to Sheathing (2-1/2” Planks)

LONGBOARD®
INSPIRING ARCHITECTURE

V1.1

FASTENER TO WOOD SHEATHING SPACING - WIND LOAD

2-1/2" PLANKS		PSF (Factored / Ultimate)										
		20	30	40	50	60	70	80	90	100	110	120
QUICK-SCREEN CLIP SPACING (IN)	24"											
	32"											
Plank Profile: 2-1/2" V-Groove												

TRIM COMPONENTS*		PSF (Factored / Ultimate)										
		20	30	40	50	60	70	80	90	100	110	120
	16"											

*Starter Strip requires Two (2) installation anchors at each fastener location: 1 Quick-Screen Clip + 1 Mid-Point slotted hole

Calculations are using L/60 deflection limits

SUBSTRATE TYPE	SUBSTRATE REQUIREMENTS	ANCHOR DESCRIPTION	MIN. SCREW LENGTH	MIN. EMBEDMENT	MIN. EDGE DISTANCE
7/16" OSB/PLYWOOD	APA rated sheathing or better	#10 Pan Head Wood Screw	1"	7/16"	1"

GENERAL NOTES:

1. Substrate shall be designed and anchored to properly transfer all loads to the structure buck design and installation is the responsibilty of the engineer or architect of record for the project of installation.
2. The installation details described herein are generic and may not reflect actual conditions for a specific site. If site conditions cause installation to deviate from the requirements detailed herein, a licensed engineer or architect shall prepare site specific documents for use with this document.
3. An unfactored dead load of 1.5 psf was assumed for the cladding.

INSTALLATION NOTES:

1. One (1) installation anchor is required at each Quick-Screen Clip location. Minimum of two (2) anchors per plank.
2. Spacing is from clip/fastener center to center.
3. The number of installation anchors per the table is the minimum number of anchors to be used for product installation.
4. Install individual installation anchors within a tolerance of +/- 1/2" of the specified spacings. Tolerances are not cumulative from one installation anchor to the next.
5. Installation anchors and associated hardware must be made of corrosion resistant material or have a corrosion resistant coating. Common fastener types can be equal or better to a & b listed below:
   a. Zinc plated fasteners for moderate climate zones
   b. 316 Stainless Steel fasteners for coastal climate zones
6. Installation anchors shall be installed in accordance with anchor manufacturer's installation instructions, and anchors shall not be used in substrates with strengths less than the minimum strength specified by the anchor manufacturer.

REFERENCED DATA:

2023 Florida Building Code

2018 National Design Specification for Wood Construction

Fastener Loads for Plywood - Screws (2011 APA - Engineered Wood Association)

Table 5 - Fastener to Sheathing (4” Planks)

LONGBOARD®
INSPIRING ARCHITECTURE

V.1.1

FASTENER TO WOOD SHEATHING SPACING - WIND LOAD

4" PLANKS		PSF (Factored / Ultimate)										
		20	30	40	50	60	70	80	90	100	110	120
QUICK-SCREEN CLIP SPACING (IN)	16"											
	24"											
	32"											
Plank Profile: 4" V-Groove												

TRIM COMPONENTS*		PSF (Factored / Ultimate)										
		20	30	40	50	60	70	80	90	100	110	120
	16"											

*Starter Strip requires Two (2) installation anchors at each fastener location: 1 Quick-Screen Clip + 1 Mid-Point slotted hole

Calculations are using L/60 deflection limits

SUBSTRATE TYPE	SUBSTRATE REQUIREMENTS	ANCHOR DESCRIPTION	MIN. SCREW LENGTH	MIN. EMBEDMENT	MIN. EDGE DISTANCE
7/16" OSB/PLYWOOD	APA rated sheathing or better	#10 Pan Head Wood Screw	1"	7/16"	1"

GENERAL NOTES:

1. Substrate shall be designed and anchored to properly transfer all loads to the structure buck design and installation is the responsibilty of the engineer or architect of record for the project of installation.
2. The installation details described herein are generic and may not reflect actual conditions for a specific site. If site conditions cause installation to deviate from the requirements detailed herein, a licensed engineer or architect shall prepare site specific documents for use with this document.
3. An unfactored dead load of 1.5 psf was assumed for the cladding.

INSTALLATION NOTES:

1. One (1) installation anchor is required at each Quick-Screen Clip location. Minimum of two (2) anchors per plank.
2. Spacing is from clip/fastener center to center.
3. The number of installation anchors per the table is the minimum number of anchors to be used for product installation.
4. Install individual installation anchors within a tolerance of +/- 1/2" of the specified spacings. Tolerances are not cumulative from one installation anchor to the next.
5. Installation anchors and associated hardware must be made of corrosion resistant material or have a corrosion resistant coating. Common fastener types can be equal or better to a & b listed below:
   a. Zinc plated fasteners for moderate climate zones
   b. 316 Stainless Steel fasteners for coastal climate zones
6. Installation anchors shall be installed in accordance with anchor manufacturer's installation instructions, and anchors shall not be used in substrates with strengths less than the minimum strength specified by the anchor manufacturer.

REFERENCED DATA:

2023 Florida Building Code

2018 National Design Specification for Wood Construction

Fastener Loads for Plywood - Screws (2011 APA - Engineered Wood Association)

Table 6 - Fastener to Sheathing (6” Planks)

LONGBOARD®
INSPIRING ARCHITECTURE

V.1.1

FASTENER TO WOOD SHEATHING SPACING - WIND LOAD

6" Planks, 6" Lap Siding, 7" Board & Batten		PSF (Factored / Ultimate)										
		20	30	40	50	60	70	80	90	100	110	120
QUICK-SCREEN CLIP SPACING (IN)	12"											
	16"											
	24"											
	32"											

Plank Profiles: 6" V-Groove, 6" Smooth, 6" Channel, 6" Lap, 7" Board & Batten

TRIM COMPONENTS*		PSF (Factored / Ultimate)										
		20	30	40	50	60	70	80	90	100	110	120
	16"											

*Starter Strip requires Two (2) installation anchors at each fastener location: 1 Quick-Screen Clip + 1 Mid-Point slotted hole

Calculations are using L/60 deflection limits

SUBSTRATE TYPE	SUBSTRATE REQUIREMENTS	ANCHOR DESCRIPTION	MIN. SCREW LENGTH	MIN. EMBEDMENT	MIN. EDGE DISTANCE
7/16" OSB/PLYWOOD	APA rated sheathing or better	#10 Pan Head Wood Screw	1"	7/16"	1"

GENERAL NOTES:

1. Substrate shall be designed and anchored to properly transfer all loads to the structure buck design and installation is the responsibilty of the engineer or architect of record for the project of installation.
2. The installation details described herein are generic and may not reflect actual conditions for a specific site. If site conditions cause installation to deviate from the requirements detailed herein, a licensed engineer or architect shall prepare site specific documents for use with this document.
3. An unfactored dead load of 1.5 psf was assumed for the cladding.

INSTALLATION NOTES:

1. One (1) installation anchor is required at each Quick-Screen Clip location. Minimum of two (2) anchors per plank.
2. Spacing is from clip/fastener center to center.
3. The number of installation anchors per the table is the minimum number of anchors to be used for product installation.
4. Install individual installation anchors within a tolerance of +/- 1/2" of the specified spacings. Tolerances are not cumulative from one installation anchor to the next.
5. Installation anchors and associated hardware must be made of corrosion resistant material or have a corrosion resistant coating. Common fastener types can be equal or better to a & b listed below:
   a. Zinc plated fasteners for moderate climate zones
   b. 316 Stainless Steel fasteners for coastal climate zones
6. Installation anchors shall be installed in accordance with anchor manufacturer's installation instructions, and anchors shall not be used in substrates with strengths less than the minimum strength specified by the anchor manufacturer.

REFERENCED DATA:

2023 Florida Building Code

2018 National Design Specification for Wood Construction

Fastener Loads for Plywood - Screws (2011 APA - Engineered Wood Association)

Table 7 - Fastener to Interior T-Bar Grid

LONGBOARD
INSPIRING ARCHITECTURE

v.1.0

FASTENER TO INTERIOR T-BAR GRID

ENDURA (T&G) PLANKS		PSF (Factored / Ultimate)										
		20	30	40	50	60	70	80	90	100	110	120
QUICK-SCREEN CLIP SPACING (IN)	12"											
	16"											
	24"											

Plank Profiles: V-Groove (2-1/2", 4", 6"), Smooth (6"), Channel (6")

TRIM COMPONENTS*		PSF (Factored / Ultimate)										
		20	30	40	50	60	70	80	90	100	110	120
FASTENER SPACING (IN)	12"											
	16"											
	24"											

*Starter Strip requires Two (2) installation anchors at each fastener location: 1 Quick-Screen Clip + 1 Mid-Point slotted hole

Calculations are using L/180 deflection limits

SUBSTRATE TYPE	SUBSTRATE REQUIREMENTS	ANCHOR DESCRIPTION	MIN. EMBEDMENT	MIN. EDGE DISTANCE
STEEL T-BAR GRID	Min. 20 ga., min. 33 ksi.	#10 Tek Screw (grade 5)	3 threads penetration past metal structure	1/2"

GENERAL NOTES:

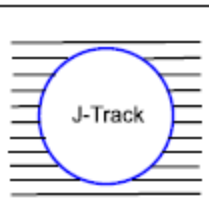
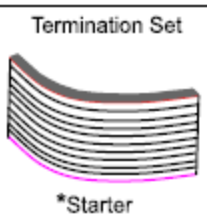
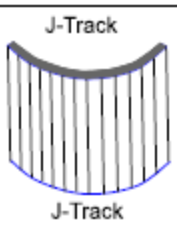
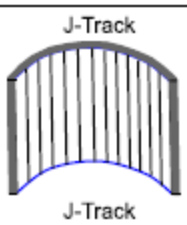
1. Adequacy of the T-Bar Grid as a main suspension system capable of carrying and withstanding applied product loads is the responsibilty of the engineer or architect of record for the project of installation.
2. Substrate shall be designed and anchored to properly transfer all loads to the structure design and installation is the responsibilty of the engineer or architect of record for the project of installation.
3. The installation details described herein are generic and may not reflect actual conditions for a specific site. If site conditions cause installation to deviate from the requirements detailed herein, a licensed engineer or architect shall prepare site specific documents for use with this document.
4. An unfactored dead load of 1.5 psf was assumed for the cladding.

INSTALLATION NOTES:

1. One (1) installation anchor is required at each Quick-Screen Clip location. Minimum of two (2) anchors per plank.
2. Spacing is from clip/fastener center to center.
3. The number of installation anchors per the table is the minimum number of anchors to be used for product installation.
4. Install individual installation anchors within a tolerance of +/- 1/2" of the specified spacings. Tolerances are not cumulative from one installation anchor to the next.
5. If fastening to every second grid member, the attachment member shall be staggered between adjacent runs of cladding.
6. Minimum embedment and edge distance exclude wall finishes, including but not limited to wood furrings, gypsum board, and sheathing.
7. Installation anchors and associated hardware must be made of materials compatible with the substrate.
8. Installation anchors shall be installed in accordance with anchor manufacturer's installation instructions, and anchors shall not be used in substrates with strengths less than the minimum strength specified by the anchor manufacturer.

LONGBOARD®
INSPIRING ARCHITECTURE

Radius Table

APPLICATION	A -Circular	B -Curved walls	C -Convex	D -Concave
DIAGRAMS				
TRIMS	**Minimum Radius**			
Non-Tempered Precision J-Track (5/8")	**1.5' (0.46m)**	N/A	**1.5' (0.46m)**	**2' (0.61m)**
Precision J-Track (5/8")	15' (4.57m)	N/A	N/A	N/A
Precision Two-Piece J-Track w. J-base	15' (4.57m)	N/A	8' (2.44m)	8' (2.44m)
Precision Termination Set	N/A	12' (4.57m)	N/A	N/A
Non-Tempered Craftsman J-Track (7/8")	**6' (1.83m)**	N/A	**6' (1.83m)**	**6' (1.83m)**
Craftsman J-Track (7/8")	38' (11.6m)	N/A	20' (6.1m)	20' (6.1m)
Craftsman Two-Piece J-Track w. J-Base	20' (6.1m)	N/A	8' (2.44m)	8' (2.44m)
Craftsman Termination Set	N/A	12' (4.57m)	N/A	N/A
Traditional Two-Piece J-Track w. J-base	38' (11.6m)	N/A	8' (2.44m)	8' (2.44m)
Traditional Termination Set	N/A	12' (4.57m)	N/A	N/A
PLANKS	**Minimum Radius**			
2 1/2" V-Groove	N/A	12' (4.57m)	**1.5' (0.46m)**	**2' (0.61m)**
2 1/2" V-Groove Perforated	N/A	12' (4.57m)	**1.5' (0.46m)**	**2' (0.61m)**
4" V-Groove	N/A	12' (4.57m)	3' (0.91m)	6' (1.83m)
6" V-Groove	N/A	12' (4.57m)	3' (0.91m)	6' (1.83m)
6" Channel	N/A	12' (4.57m)	3' (0.91m)	6' (1.83m)
6" Smooth Plank	N/A	12' (4.57m)	3' (0.91m)	6' (1.83m)
6" V-Groove Perforated	N/A	12' (4.57m)	3' (0.91m)	6' (1.83m)
6" Smooth Plank Perforated	N/A	12' (4.57m)	3' (0.91m)	6' (1.83m)
4" Castellation	N/A	12' (4.57m)	3' (0.91m)	6' (1.83m)
8" Castellation	N/A	12' (4.57m)		
6" Triple Bevel	N/A	19' (5.8m)	3' (0.91m)	6' (1.83m)
8" V-Groove	N/A	12' (4.57m)		

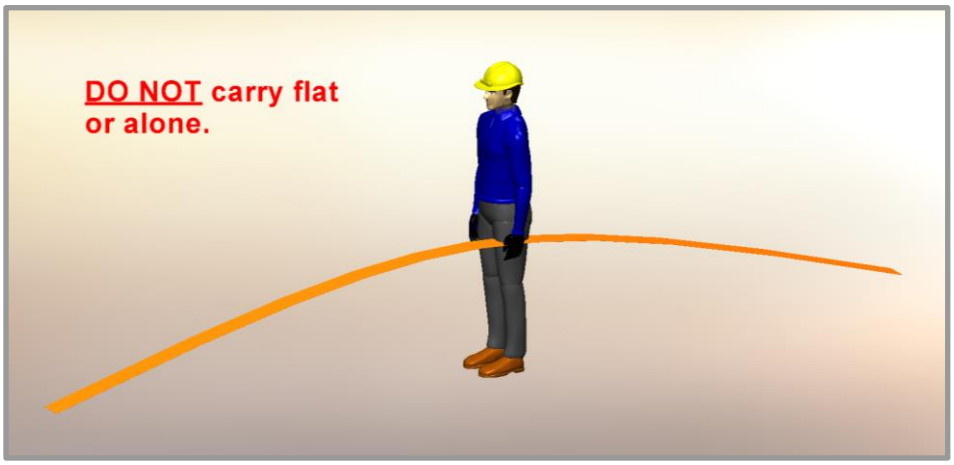
Note 1: When considering tight radii bends, use Non-Tempered Trim components for the minimum radius.

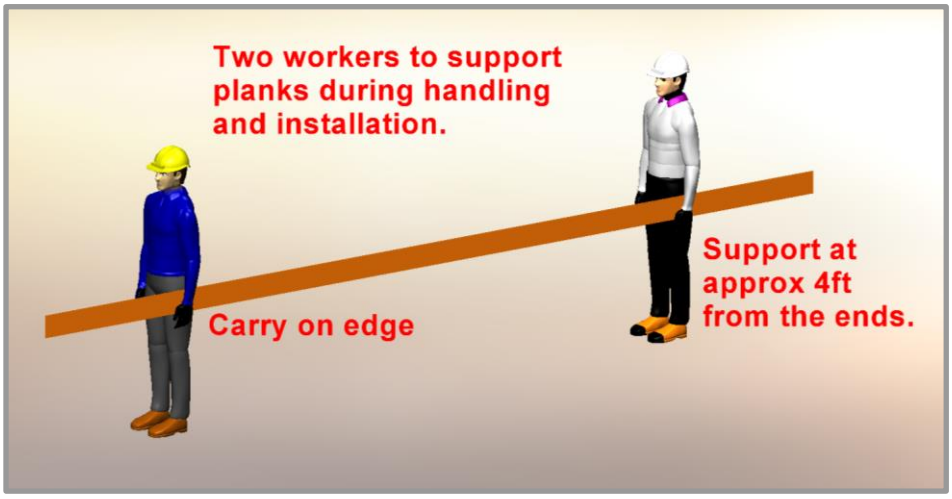
Note 2: When bending and securing components, bend against solid secure object and take care not to over bend.

*Note 3: Starter Strip meets or exceeds the performance of all the listed application and limitations.

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.