

Endura Linear Ceilings

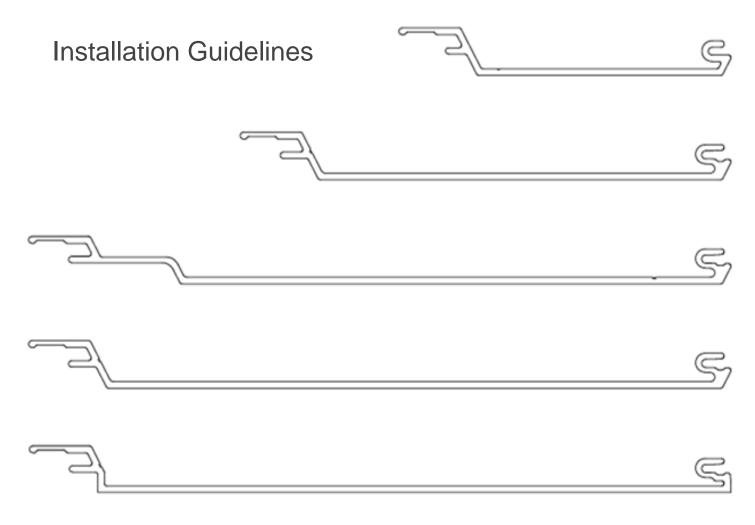


Table of Contents

Material Speci	fications	3
Finish	es	3
Expan	sion and contraction	3
Materi	al ordering and deliveries	3
Storag	ge and handling	3
Cleani	ing	4
Warra	nty	4
Graffit	i removal	4
Components		5
Comp	onents (Typical)	5
Tools/Cutting/	Fastening	6
Tools		6
Cutting	g	6
Faster	ning/Fastener types	7
Framir	ng/Furring requirements	7
Faster	ning options onto exterior insulation	8
Acous	tical Performance	8
Faster	ning to Interior T-Bar Grid	9
System Install		10
Perime	eter and field area limitations & venting	10
Comp	onent layout	11
	J-Track	11
	Flat Reveal	11
	Starter Strip	11
	Back-to Back Starter	11
	Termination Set	11
Install	Steps	12
	Parallel to the building	12
	Perpendicular to the building	13
	Final Steps	14
Details	3	15
	Single Butt-Joints	15-16
	Multiple Floating Butt-Joints	17
Appendix		18
	s 1&2 - Expansion & contraction	18
	3 – Fastening to Structure	19
	s 4-6 – Fastening to Sheathing	20-22
	7 – Fastening to Interior T-Bar Grid	23
	s table	24
	ing and care of products	25
Conta		26

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' (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: <u>info@longboardproducts.com</u> 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: <u>longboardproducts.com/warranty</u> \triangle Registration 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 (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 <u>longboardproducts.com</u>.

-Gro	ove Plan	ks * 48 sq	. ft. box quantities [‡] 96 s	q. ft. box quantities						
Size	12' *	24'*	12' Perf *	24' Perf *	1				2	
21/2"	3V.145	-	3VP.145	-	-		the second	-	1000	
1 ″	4V.145	4V.289	-						1000	
	6V.145	6V.289	6VP.145	6VP.289		Butt-Joint			1000	
						Fastening Kit	and the second	and the second second		
noot	th Plank	S				1	2200			
ize	12'*	24'*	12' Perf*	24' Perf *	_		V-Groove Planks	Channel Planks	Smooth Planks	
	6PSP:145	6PSP.289	6PSPP.145	6PSPP.289		3				
hann	nel Plank	S	Accessor	ies		Quick-Screen Clip				
ize	12' *	24'*	Product		Qty	SKU				
	6CH.145	6CH.289	Quick Screen Cli	ips	1750, box	CLIP.N1750	Precision	Traditional	Traditional	
			Quick Screen Cli	ips	100, bag	CLIP.N100	Starter J-Track	Starter Strip	Back-to-Back	
			1/16" U-SHIM		250, bag	SHIM.1001			Starter Strip	
			Butt- Joint Faster	ning Kit (6")	20 kits, bag	TGBJKIT				
			Touch Up Pens Reach out to conf account manager		N/A	TUP				
im C	Compon		roduct		Dimensions	SKU	Precision J-Track	Craftsman J-Track	Craftsman Two Piece	
pe arter	Style		tarter J-Track		(5/8") - 12'	1SJT.145		000000000000	J-Track	
arter arter			tarter J-Irack		(5/8") - 12"	2SS.145	///			
arter arter			tarter Strip ack-to-Back Starter S	Strip	(1-7/8") - 12"	255.145 2BTBSS.145				
			wo Piece J-Track	outh						
Frack					(5/8") - 12'	1X1JT.145	Precision			
rack	Prec		-Track		(5/8") - 12'	1JT.145	Outside	Craftsman Inside Corner	Craftsman Outside	
'rack			-Track wo Piece J-Track		(7/8") - 12' (7/8") - 12'	JT23.145 JT23S.145	Corner		Corner	
frack frack			wo Piece J-Track			1X2JT.145		A REAL PROPERTY AND		
mer	Prec		wo Piece J-Irack utside Corner		(1-3/8") - 12' (3/16") - 12'	050C.145				
mer			side Corner		(3/16") - 12'	1IC.145				
orner			utside Corner		(3/4") - 12'	10C.145	Traditional	Traditional	Precision	
orner			orner Set		(1") - 12'	2CORS.145	3" Smooth Corner	3" V Groove Corner	Flat Reveal	
orner			" Smooth		(3") - 24	3SCP.289				
orner			"V-Groove		(3") - 24	3SVP.289				
eveal	Prec		at Reveal		(1/2") - 12'	1FR.145		N.		
eveal	Prec		&G Flat Reveal		(1/2") - 12	1TGFR.289	Craftsman	Craftsman	Traditional	
eveal			-Reveal Set		(3/4") - 12'	1URS.145	U-Reveal Set	T&G U-Reveal	U-Reveal Set	
veal			&G U-Reveal		(3/4) - 24'	1TGURK.289				
veal			-Reveal Set		(1-1/2") - 12'	2URS.145			-	
eveal			at Reveal Set		(1-1/2") - 12'	2FRS.145				
eveal			&G U-Reveal		(11/2") - 24'	2TGURK.289				
veal			ffset Flat Reveal Set,	J-Track Base	(11)2) - 24	20FFJ.145	Traditional	Traditional Offset	Traditional Offset	
eveal			ffset Flat Reveal Set,			20FFT.145	T&G U-Reveal	Flat Reveal Set, J-Track Base	Flat Reveal Set, Termination Base	
eveal			ermination Set		(5/8") - 12	1TS.145	and the second	J HOUR Dase	in the second second	
erminat			ermination Set		(5/8") - 12'	TS235.145			10	
erminat			ermination Set		(7/8") - 12"	2TS.145		1100		
					(1-3/8") - 12"	215.145 2CJ.289				
		uuunai C	ompression Joint		(1-3/0) - 24	203.203	Craftsman	Traditional	Traditional	

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)
	0		*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

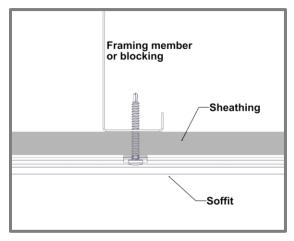
16" (406mm) O.C. (Add extra Quick-Screen Clips to order)

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

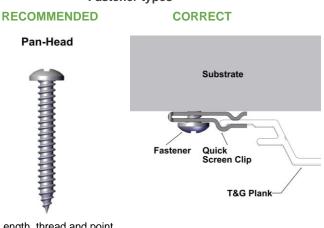
Always consult the local building authority and follow local building code requirements. When attaching to Hitch Cladding attachment System refer to Hitch Install Guide for requirements. See Appendix for framing/furring/sheathing

specs: Tables 3-6



Fastening to Structure (see Table 3 for specs)

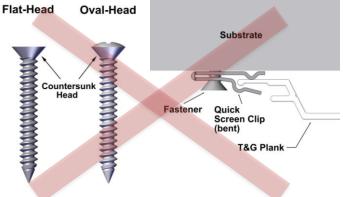
Fastener types

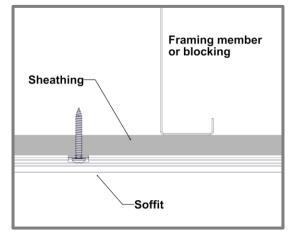


*Length, thread and point to suit substrate







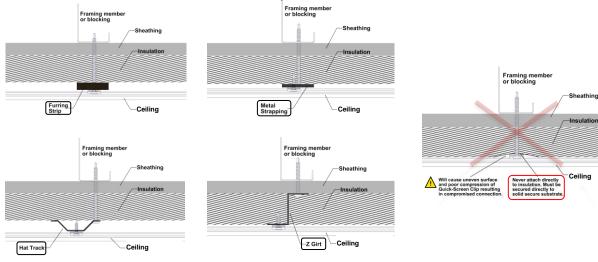


Fastening to Sheathing (see Tables 4-6 for specs)

Endura Linear Ceilings Installation Guide ELC_IG_RH_V14

Fastening options onto exterior insulation

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

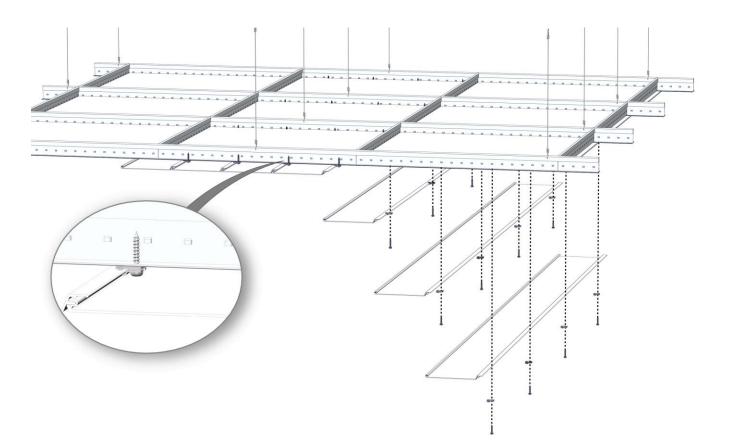


Acoustical Performance

Metal Linear Ceilings -Closed Joint Systems	Backer (Insulation)	NRC	SAA
PROVIDED E	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	OTHE	RS
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

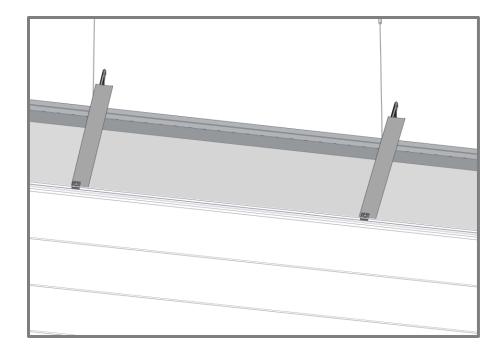
The test reported in this document conformed explicitly with ASTM C423-17 "Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method."

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.



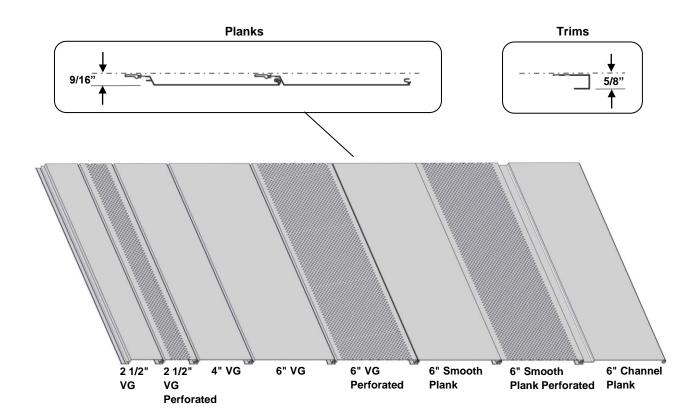
System Install

Perimeter and field area limitations & venting

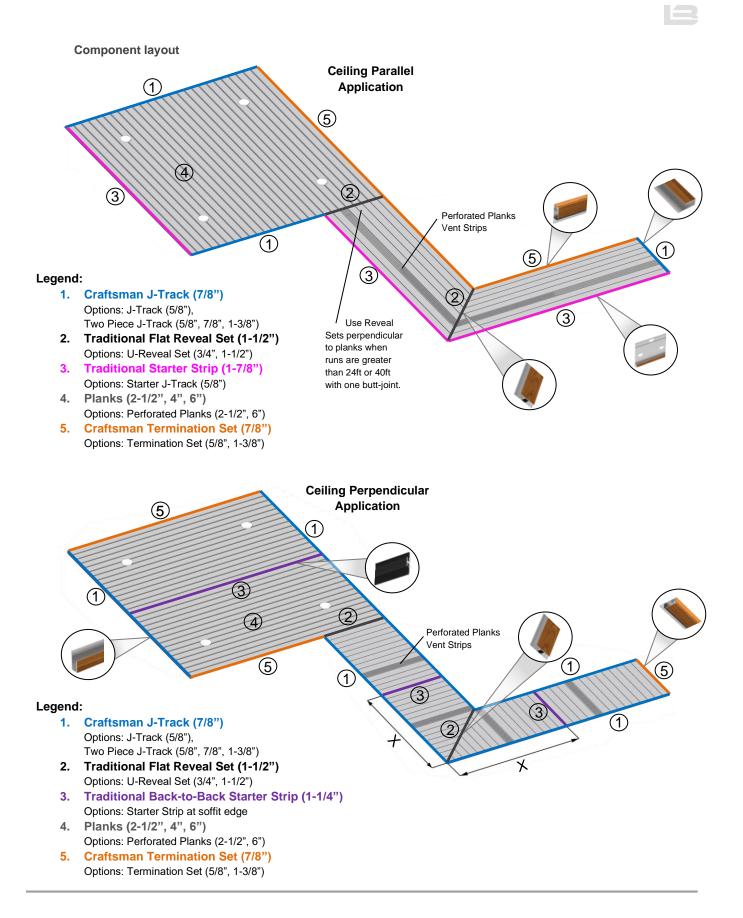
- Measure and layout your ceiling area to consider plank & component alignment with fixtures, penetrations, and adjacent walls and edges, for desired appearance. Consider using butt-joints along runs to minimize waste.
- Longboard system typical dimensions:
 - Planks width Perforated Planks width Planks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

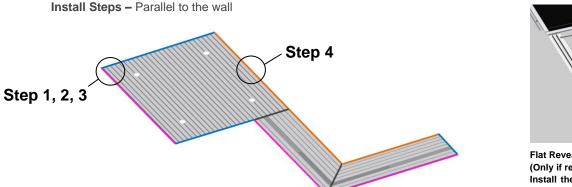


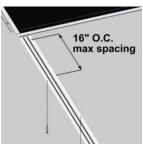
Perforated Planks	NFA (open area)	Hole size(mm)	Lengths
2 1/2" V-Groove	15%	3	12'
6" V-Groove	21%	3	12'/24'
6" Smooth Plank	21%	3	12;/24'



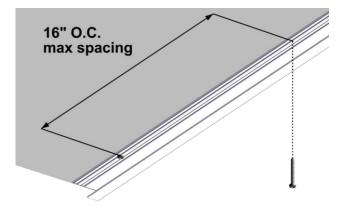
Endura Linear Ceilings Installation Guide ELC_IG_RH_V14

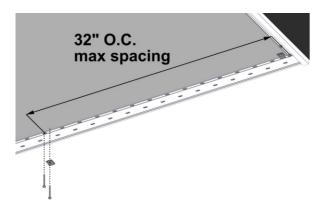






Flat Reveal (Only if required for long runs) Install the Flat Reveal Set base at the desired plank lengths.



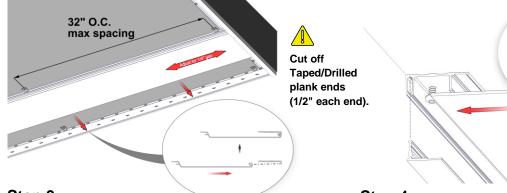


Step 1 - J-Track

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.



Step 3 - Planks

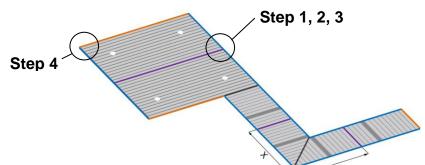
Place the planks onto the tongue of the Starter Strip, fully engaging tongue. Fasten with Quick Screen Clips & #10 Pan Head Screws @32" O.C. max spacing (See Tables 3-7 for fastening requirements). Hard fasten only one point preferably near the center of each plank. It is good practice to check your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

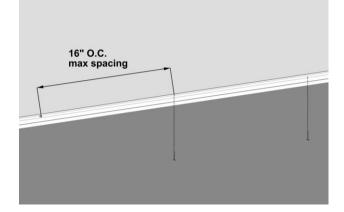


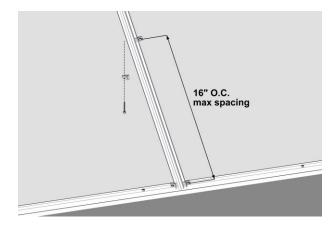
Before the last Plank, install Termination Set base fastening 16" O.C. typ.

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

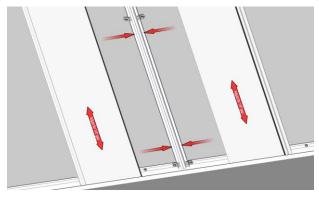






Step 1 - J-Track

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.

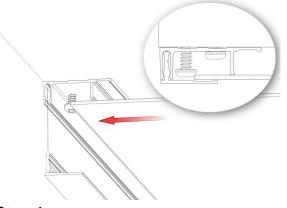


Step 3 - Planks (1/2" each end).

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 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 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.



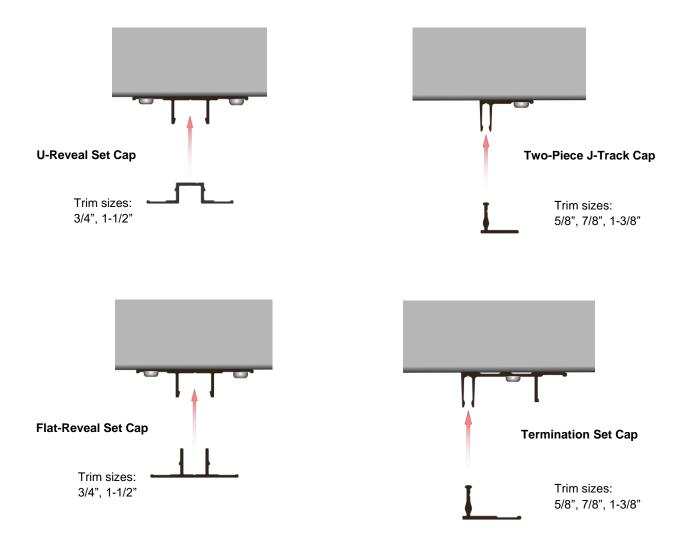
Finishing Steps - Once planks are installed, finish off the perimeter trims with caps from two-piece sets.

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

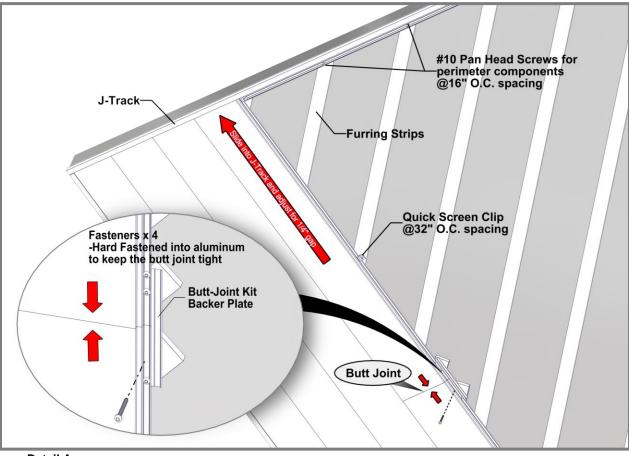
Single Butt-Joints

- Consider using butt-joints along runs to minimize waste.
- A When installing staggered butt-joints, use the Butt-Joint Fastening Kit to ensure joints do not open up (See Detail A)

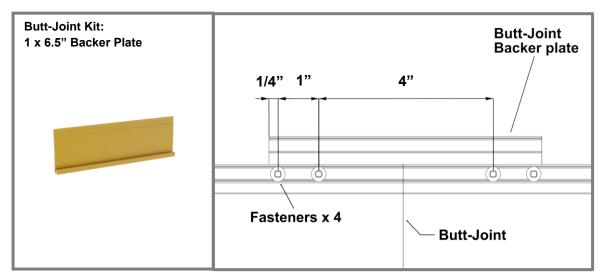
Fasteners should be placed at the uppermost location of the plank flange, to not interfere with the next plank engaging the tongue and groove properly. At the butt-joint, fasteners should be anchored into the Butt-Joint backer plate.

(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.



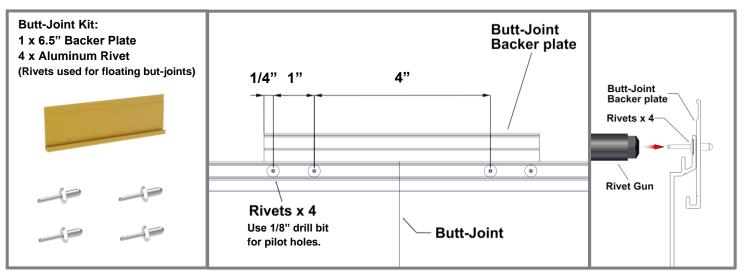
Detail A



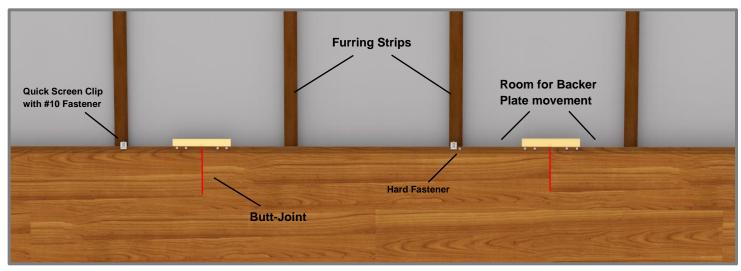
Detail B -Backer Plate (Hard Fastened)

Multiple Floating Butt-Joints

- A 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

BLI	E 1 - IN				AVERA	GE LEWPE	RATUREA	T TIME OF	CUTTING	& INSTALL	ATION		
		°C	-50	-40	-30	-20	-10	0	10	20	30	40	50
		۴F	-58	-40	-22	-4	14	32	50	68	86	104	122
<u>.</u> [°C	°F				EXPAN	ISION OR C	ONTRACT	ION (INCH)	FOOT)			
CONSTRUCTION TEMP.	-50	-58	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016	-0.019	-0.022	-0.024	-0.027
z	-40	-40	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016	-0.019	-0.022	-0.024
Ê	-30	-22	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016	-0.019	-0.022
22 2	-20	-4	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016	-0.019
IST	-10	14	0.011	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016
ŝ	0	32	0.014	0.011	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014
ST	10	50	0.016	0.014	0.011	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011
B	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
Z	40	104	0.024			10	- C.						
MIN/MAX POST	50	122 IETRIC	0.027	0.024	0.022	0.019	0.016	0.014	0.011	0.008	0.005	0.003	0.000
	50	122					0.016 RATURE A -10					0.003	0.000
	50	122 ETRIC	0.027	0.024	AVERA		RATURE A	T TIME OF	CUTTING	& INSTALL	ATION		
BLI	50	122 ETRIC	0.027	-40	AVERA -30	GE TEMPE -20 -4	RATURE A	T TIME OF 0 32	CUTTING 10 50	& INSTALL 20 68	ATION 30	40	50
BLI	50 E 2 - M	122 ETRIC °C °F	0.027	-40	AVERA -30	GE TEMPE -20 -4	RATURE A -10 14	T TIME OF 0 32	CUTTING 10 50	& INSTALL 20 68	ATION 30	40	50 122
BLI	50 E 2 - M °C	122 ETRIC °C °F	-50 -58	-40 -40	AVERA -30 -22	GE TEMPE -20 -4 EXPAN	RATURE A -10 14 ISION OR C	T TIME OF 0 32 ONTRACTI	CUTTING 10 50 ON (MM/N	& INSTALL 20 68 1ETER)	ATION 30 86	40 104	
BLI	50 E 2 - M ° C -50	122 ETRIC °C °F -58	50 58	-40 -40 -0.230	AVERA -30 -22 -0.460	GE TEMPE -20 -4 EXPAN -0.690	RATURE A -10 14 SION OR C -0.920	T TIME OF 0 32 ONTRACTI -1.150	CUTTING 10 50 ON (MM/N -1.380	& INSTALL 20 68 1ETER) -1.610	ATION 30 86 -1.840	40 104 -2.070	50 122 -2.300 -2.070
BLI	50 E 2 - M ° C -50 -40	122 ETRIC °C °F -58 -40	0.027 -50 -58 0.000 0.230	-40 -40 -0.230 0.000	AVERA -30 -22 -0.460 -0.230	GE TEMPE -20 -4 EXPAN -0.690 -0.460	RATURE A -10 14 ISION OR C -0.920 -0.690	T TIME OF 0 32 0NTRACTI -1.150 -0.920	CUTTING 10 50 ON (MM/N -1.380 -1.150	& INSTALL 20 68 IETER) -1.610 -1.380	ATION 30 86 -1.840 -1.610	40 104 -2.070 -1.840	50 122 -2.300
BLI	50 E 2 - M ■ -50 -40 -30	122 ETRIC °C °F -58 -40 -22	-50 -58 0.000 0.230 0.460	-40 -40 -0.230 0.000 0.230	AVERA -30 -22 -0.460 -0.230 0.000	AGE TEMPE -20 -4 EXPAN -0.690 -0.460 -0.230	RATURE 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 (ETER) -1.610 -1.380 -1.150	ATION 30 86 -1.840 -1.610 -1.380	40 104 -2.070 -1.840 -1.610	50 122 -2.300 -2.070 -1.840 -1.610
BLI	50 E 2 - M [◦] C -50 -40 -30 -20	122 ETRIC [°] 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	AVERA -30 -22 -0.460 -0.230 0.000 0.230	AGE TEMPE -20 -4 EXPAN -0.690 -0.460 -0.230 0.000	RATURE A -10 14 ISION OR C -0.920 -0.690 -0.460 -0.230	T TIME OF 0 32 0NTRACTI -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 1ETER) -1.610 -1.380 -1.150 -0.920	ATION 30 86 -1.840 -1.610 -1.380 -1.150	40 104 -2.070 -1.840 -1.610 -1.380	50 122 -2.300 -2.070 -1.840 -1.610 -1.380
BLI	 50 E 2 - M C -50 -40 -30 -20 -10 	122 ■ETRIC ■ °F = -58 = -40 = -22 = -4 14	0.027 -50 -58 0.000 0.230 0.460 0.690 0.920	-40 -40 -0.230 0.000 0.230 0.460 0.690	AVERA -30 -22 -0.460 -0.230 0.000 0.230 0.460	AGE TEMPE -20 -4 EXPAN -0.690 -0.460 -0.230 0.000 0.230	RATURE A -10 14 SION OR C -0.920 -0.690 -0.460 -0.230 0.000	T TIME OF 0 32 0NTRACTI -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 (ETER) -1.610 -1.380 -1.150 -0.920 -0.690	ATION 30 86 -1.840 -1.610 -1.380 -1.150 -0.920	40 104 -2.070 -1.840 -1.610 -1.380 -1.150	50 122 -2.300 -2.070 -1.840 -1.610 -1.380 -1.150
BLI	 50 E 2 - M C -50 -40 -30 -20 -10 0 	122 ETRIC °C °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	AVERA -30 -22 -0.460 -0.230 0.000 0.230 0.460 0.690	AGE TEMPE -20 -4 EXPAN -0.690 -0.460 -0.230 0.000 0.230 0.460	RATURE A -10 14 SION OR C -0.920 -0.690 -0.460 -0.230 0.000 0.230	T TIME OF 0 32 0NTRACTI -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 (ETER) -1.610 -1.380 -1.150 -0.920 -0.690 -0.460	ATION 30 86 -1.840 -1.610 -1.380 -1.150 -0.920 -0.690	40 104 -2.070 -1.840 -1.610 -1.380 -1.150 -0.920	50 122 -2.300 -2.070 -1.840 -1.610 -1.380 -1.150 -0.920
BLI	50 E 2 - M [◦] C -50 -40 -30 -20 -10 0 10	122 ETRIC °C °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	AVERA -30 -22 -0.460 -0.230 0.000 0.230 0.460 0.690 0.920	AGE TEMPE -20 -4 EXPAN -0.690 -0.460 -0.230 0.000 0.230 0.460 0.690	RATURE 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 0NTRACTI -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	ATION 30 86 -1.840 -1.610 -1.380 -1.150 -0.920 -0.690 -0.460	40 104 -2.070 -1.840 -1.610 -1.380 -1.150 -0.920 -0.690	50 122 -2.300 -2.070 -1.840 -1.610 -1.380 -1.150 -0.920 -0.690
	50 E 2 - M [°] C -50 -40 -30 -20 -10 0 10 20	122 ►TRIC °C °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	AVERA -30 -22 -0.460 -0.230 0.000 0.230 0.460 0.690 0.920 1.150	AGE TEMPE -20 -4 EXPAN -0.690 -0.460 -0.230 0.000 0.230 0.460 0.690 0.920	RATURE A -10 14 ISION OR C -0.920 -0.690 -0.460 -0.230 0.000 0.230 0.460 0.690	T TIME OF 0 32 0NTRACT -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 IETER) -1.610 -1.380 -1.150 -0.920 -0.690 -0.460 -0.230 0.000	ATION 30 86 -1.840 -1.610 -1.380 -1.150 -0.920 -0.690 -0.460 -0.230	40 104 -2.070 -1.840 -1.610 -1.380 -1.150 -0.920 -0.690 -0.460	50 122 -2.300 -2.070 -1.840

Table 3 - Fastener to Structure

	RCHITECTURE		TAOT					E SPA				
T&G PLANKS		20	30	40	50	- SF (Fai 60	70	Ultimate) 80	90	100	110	120
	16"	20	30	40	50	00	70	00	90	100	110	120
QUICK-SCREEN CLIP	24"	 										
SPACING (IN)								i		i	i	! !
	32"											
Plank Profiles: V-Groove (2	-1/2", 4",	6"), Smo	oth (6"), C	hannel (6	6"), Lap S	ding (6"),	Board &	Batten Si	ding (7")			
TRIM COMPONEN	ITS*		1	1	1	PSF (Fa	ctored /	Ultimate))	1		1
		20	30	40	50	60	70	80	90	100	110	120
	16"											
Soffit direct to truss	24"											
*Starter Strip requires Two	(2) install	ation anc	hors at ea	ich faster	er locatio	n: 1 Quic	k-Screen	Clip + 1 M	/lid-Point	slotted h	ble	
								Calculat	ions are	using L/1	80 deflect	ion lin
SUBSTRATE TYPE							R DESCI		MI	N.	MIN. I	EDGE
		UBSTRA										ANCE
WOOD		Min. specit	ic gravity =	: 0.55 woo	d	#10 F	Pan Head	Screw	1-1 3 thr	/2" eads	3/	4"
STEEL		Min. 1	8 ga., min.	33 ksi.		#10 Tel	k Screw (g	rade 5)	penetrat		1,	2"
CONCRETE**		Ν	1in. 3000 p	si		3/10	6" ITW Tap	con			1	"
MASONRY - CMU**	Grout-fi	lled block p	er ASTM (C-90, min.	2000 psi				1	"	2	2"
1. Adequacy of the structural s			id/or metal`									
transferring applied product loa 2. Substrate shall be designed architect of record for the proje 3. The installation details desc from the requirements detailed 4. An unfactored dead load of <u>INSTALLATION NOTES</u> : 1. One (1) installation anchor is 2. Spacing is from clip/fastened 3. The number of installation a 4. Install individual installation the next. 5. If fastening to every second 6. Minimum embedment and e siding.	and anchú cct of instal ribed herei herein, a 1.5 psfwa: s required r center to nchors per anchors w stud, the a	ored to pro lation. In are gene licensed en s assumed at each Qu center. the table i ithin a tole	is the resp perly trans ric and ma ngineer or : for the cla nick-Screer s the minir rance of +/ stud shall	onsibility o fer all load ny not refle architect si dding. n Clip locat num numb - 1/2" of th be stagget	f the engin s to the str ct actual c hall prepar ion. Minim er of anch e specifiec red betwee	eer or arch ucture buc onditions fo e site spec um of two ors to be un spacings. n adjacent	itect of rea k design a or a specifi fic docum (2) anchor (2) anchor sed for pro Tolerance : runs of cl	cord for the nd installat c site. If sit ents for us s per plank oduct instal s are not c adding.	project of ion is the r e conditior e with this lation. umulative t	installatior responsibil ns cause ir document from one ir	i. ty of the er istallation t	ngineer to devia
 Substrate shall be designed architect of record for the projet 3. The installation details desc from the requirements detailed 4. An unfactored dead load of <u>INSTALLATION NOTES</u>: One (1) installation anchor is Spacing is from clip/fastened The number of installation a 4. Install individual installation the next. If fastening to every second Minimum embedment and e 	and anche ct of instal ribed herei herein, a 1.5 psf wat s required r center to nchors per anchors w stud, the a dge distan ociated ha listed belo	ored to pro lation. n are gene licensed er s assumed at each Qu center. • the table i ithin a tole attachment ce exclude rdware mu ww: derate clim	is the resp perly trans ric and ma gineer of a for the cla nick-Screer s the minin rance of +/ stud shall wall finish ist be made ate zones	onsibility o fer all load y not refle architect si dding. n Clip locat num numb - 1/2" of th be stagge les, includi e of corros	f the engin s to the str ct actual co hall prepar ion. Minim er of anch e specifiec red betwee ng but not	eer or arch ucture buc onditions fo e site spec um of two ors to be un spacings. n adjacent limited to v	itect of rea k design a or a specifi ific docum (2) anchor (2) anchor sed for pro Tolerance truns of cl vood furrir	cord for the nd installat c site. If sit ents for us s per plank oduct instal s are not c adding. gs, stucco,	project of ion is the r e conditior e with this ation. Junulative f foam, brid	installatior responsibil ns cause ir document from one ir :k veneer,	i. ty of the er istallation t istallation	anchor
 Substrate shall be designed architect of record for the projet 3. The installation details desc from the requirements detailed 4. An unfactored dead load of <u>INSTALLATION NOTES:</u> One (1) installation anchor is Spacing is from clip/fastened The number of installation at Install individual installation the next. If fastening to every second Minimum embedment and e siding. Installation anchors and ass can be equal or better to a & b a. Zinc plated fastened 	and anche ct of instal ribed herei herein, a 1.5 psf wat s required r center to nchors per anchors w stud, the a dge distan ociated ha listed belo ers for moo al fasteners	ored to pro lation. n are gene licensed er s assumed at each Qu center. • the table i ithin a tole attachment ce exclude rdware mu ww: derate clim s for coasta	is the resp perly trans ric and ma gineer of a for the cla nick-Screer s the minin rance of +/ stud shall o wall finish st be made ate zones al climate z	onsibility o fer all load y not refle architect si dding. n Clip locat num numb - 1/2" of th be staggel es, includi e of corros	f the engin s to the str ct actual c hall prepar ion. Minim er of anch e specifiec red betwee ng but not ion resista	eer or arch ucture buc onditions fo e site spec um of two ors to be u spacings. n adjacent limited to v	itect of rea k design a or a specifi ific docum (2) anchor (2) anc	cord for the nd installat c site. If sit ents for us s per plank s are not c adding. gs, stucco, corrosion r	project of ion is the r e condition e with this with this lation. umulative f foam, brid esistant co	installatior responsibil s cause ir document document k veneer, bating. Cor	i. ty of the er istallation t istallation : sheathing nmon fast	ngineer o devia anchor and ener ty

INSPIRING	ARCHITECTURE		FAST	ENER	то w	DOD S	HEATH	HING S		IG - W	IND LC	DAD
2-1/2" PLANK	\$					PSF (Fa	ctored /	Jltimate)				
2-02 1 EANN	0	20	30	40	50	60	70	80	90	100	110	120
QUICK-SCREEN CLIP	24"											
SPACING (IN)	32"											
Plank Profile: 2-1/2" V-Groc	ve											
						PSE (Ea	ctored /	lltimate)				
TRIM COMPONEI	NTS*	20	30	40	50	60	70	80	90	100	110	120
	16"											
*Starter Strip requires Two	(2) installati	on anchor	s at each 1	fastener lo	cation: 1 C	Quick-Scree	en Clip + 1	Mid-Point	slotted ho	ole	•	•
								Ca	lculations	are using	L/60 defle	ction lin
					ANC	HOR	MIN S	CREW	м	N.	MIN.	EDGE
SUBSTRATE TYPE	SUBS	STRATE R	EQUIREN	IENTS		RIPTION		GTH		DMENT		ANCE
7/16" OSB/PLYWOOD	AP	A rated she	athing or be	etter		lead Wood		1"				"
1. Substrate shall be designed record for the project of installa	ation.		-		ne structure	-	and instal	ation is the	responsibil		ineer or arc	hitect of
GENERAL NOTES: 1. Substrate shall be designed record for the project of installa 2. The installation details desc; requirements detailed herein, a 3. An unfactored dead load of a INSTALLATION NOTES;	ation. ribed herein a a licensed eng	are generic gineer or ar	and may no chitect shal	it reflect act I prepare sit	ne structure ual condition	buck desigr	 n and instal	ation is the	responsibili ns cause in	y of the eng	ineer or arc	hitect of
Substrate shall be designed record for the project of installa 2. The installation details descr requirements detailed herein, a 3. An unfactored dead load of "	ation. ribed herein a a licensed eng 1.5 psf was a	are generic gineer or ar ssumed for	and may no chitect shal the claddin	t reflect act l prepare sit g.	ne structure ual condition e specific d	buck desigr ns for a spec ocuments fo	n and instal cific site. If : r use with t	ation is the site conditio his docume	responsibili ns cause in	y of the eng	ineer or arc	hitect of
Substrate shall be designed record for the project of installa 2. The installation details descr requirements detailed herein, a 3. An unfactored dead load of '	ation. ribed herein a a licensed eng 1.5 psf was a s required at a	are generic gineer or ar ssumed for each Quick	and may no chitect shal the claddin	t reflect act l prepare sit g.	ne structure ual condition e specific d	buck desigr ns for a spec ocuments fo	n and instal cific site. If : r use with t	ation is the site conditio his docume	responsibili ns cause in	y of the eng	ineer or arc	hitect of
Substrate shall be designed record for the project of installa 2. The installation details desci requirements detailed herein, a 3. An unfactored dead load of ' <u>INSTALLATION NOTES</u> : 1. One (1) installation anchor is 2. Spacing is from clip/fastener 3. The number of installation and	ition. ribed herein a licensed eng 1.5 psf was a s required at o center to cen nchors per th	are generic gineer or ar ssumed for each Quick nter. e table is th	and may no chitect shal the claddin -Screen Clip ne minimum	nt reflect act I prepare sit g. p location. M number of	ne structure ual condition e specific d Ainimum of f	buck desigr ns for a spec ocuments fo two (2) anch be used for p	 n and instal cific site. If : r use with t nors per pla	ation is the site conditio his docume nk. allation.	responsibil ns cause in nt.	y of the eng	∣ lineer or arc	n the
Substrate shall be designed record for the project of installa 2. The installation details desc requirements detailed herein, a 3. An unfactored dead load of ' <u>INSTALLATION NOTES</u> : 1. One (1) installation anchor is 2. Spacing is from clip/fastener	tion. ribed herein a a licensed eng 1.5 psf was a s required at o center to cen nchors per th anchors withi ociated hardw	are generic gineer or ar ssumed for each Quick nter. e table is th in a tolerand ware must b	and may no chitect shal the claddin -Screen Clip -Screen Clip -Screen Clip -Screen Clip -Screen Clip -Screen Clip -Screen Clip -Screen Clip -Screen Clip	nt reflect act I prepare sit g. p location. N number of " of the spe	le structure ual condition e specific d Ainimum of i anchors to t cified spacin	buck desigr ns for a spec ocuments fo two (2) anch be used for p ngs. Toleran	and instal cific site. If , r use with t ors per pla product inst ces are not	ation is the site conditio his docume nk. allation. cumulative	responsibil ns cause in nt. from one ir	y of the eng stallation to	jineer or arc de∨iate fror nchor to the	n the next.
Substrate shall be designed record for the project of installa 2. The installation details desci requirements detailed herein, a 3. An unfactored dead load of INSTALLATION NOTES: 1. One (1) installation anchor is 2. Spacing is from clip/fastener 3. The number of installation at 4. Install individual installation at 5. Installation anchors and ass better to a & b listed below:	tion. ribed herein a a licensed eng 1.5 psf was a r center to cen nchors per th anchors withi ociated hardw hers for mode sel fasteners for installed in a	are generic gineer or ar ssumed for each Quick nter. e table is th in a tolerand ware must b erate climate for coastal for coastal ccordance	and may no chitect shal the claddin -Screen Clij te minimum te of +/- 1/2 te made of e zones climate zonw with anchor	It reflect act I prepare sit g. p location. N number of " of the spe corrosion re	l ual condition e specific d Ainimum of I anchors to t cified spaci sistant mate	buck desigr ns for a spec ocuments fo two (2) anch two (2) anch two (2) anch two (2) anch two (2	n and instal cific site. If : r use with t nors per pla product inst ces are not a corrosion	iation is the site conditio his docume nk. allation. cumulative n resistant c	responsibili ns cause in nt. from one ir oating. Con	y of the eng stallation to stallation ar nmon fasten	deviate fror deviate fror nchor to the her types ca	hitect of n the next. n be equ
1. Substrate shall be designed record for the project of installa 2. The installation details desci. requirements detailed herein, a 3. An unfactored dead load of a <u>INSTALLATION NOTES</u> : 1. One (1) installation anchor is 2. Spacing is from clip/fastener 3. The number of installation at 4. Install individual installation at 5. Installation anchors and ass better to a & b listed below: a. Zinc plated faster b. 316 Stainless Ste 6. Installation anchors shall be than the minimum strength spe	tion. ribed herein a a licensed eng 1.5 psf was a r center to cen nchors per th anchors withi ociated hardw hers for mode sel fasteners for installed in a	are generic gineer or ar ssumed for each Quick nter. e table is th in a tolerand ware must b erate climate for coastal for coastal ccordance	and may no chitect shal the claddin -Screen Clij te minimum te of +/- 1/2 te made of e zones climate zonw with anchor	It reflect act I prepare sit g. p location. N number of " of the spe corrosion re	l ual condition e specific d Ainimum of I anchors to t cified spaci sistant mate	buck desigr ns for a spec ocuments fo two (2) anch two (2) anch two (2) anch two (2) anch two (2	n and instal cific site. If : r use with t nors per pla product inst ces are not a corrosion	iation is the site conditio his docume nk. allation. cumulative n resistant c	responsibili ns cause in nt. from one ir oating. Con	y of the eng stallation to stallation ar nmon fasten	deviate fror deviate fror nchor to the her types ca	hitect of n the next. n be equ
Substrate shall be designed record for the project of installa 2. The installation details desci- requirements detailed herein, a 3. An unfactored dead load of ' <u>INSTALLATION NOTES:</u> 1. One (1) installation anchor is 2. Spacing is from clip/fastener 3. The number of installation at 4. Install individual installation 4 5. Installation anchors and ass better to a & b listed below: a. Zinc plated faster b. 316 Stainless Ste 6. Installation anchors shall be	tion. ribed herein a a licensed eng 1.5 psf was a: r center to cen nchors per th anchors withi ociated hardw hers for mode the fasteners for installed in a scified by the	are generic gineer or ar ssumed for each Quick nter. e table is th in a tolerand ware must b erate climate for coastal for coastal ccordance	and may no chitect shal the claddin -Screen Clij te minimum te of +/- 1/2 te made of e zones climate zonw with anchor	It reflect act I prepare sit g. p location. N number of " of the spe corrosion re	l ual condition e specific d Ainimum of I anchors to t cified spaci sistant mate	buck desigr ns for a spec ocuments fo two (2) anch two (2) anch two (2) anch two (2) anch two (2	n and instal cific site. If : r use with t nors per pla product inst ces are not a corrosion	iation is the site conditio his docume nk. allation. cumulative n resistant c	responsibili ns cause in nt. from one ir oating. Con	y of the eng stallation to stallation ar nmon fasten	deviate fror deviate fror nchor to the her types ca	hitect of n the next. n be equ
1. Substrate shall be designed record for the project of installa 2. The installation details desci. requirements detailed herein, a 3. An unfactored dead load of ' <u>INSTALLATION NOTES:</u> 1. One (1) installation anchor is 2. Spacing is from clip/fastener 3. The number of installation at 4. Install individual installation at 5. Installation anchors and ass better to a & b listed below: a. Zinc plated faster b. 316 Stainless Stie 6. Installation anchors shall be than the minimum strength spe <u>REFERENCED DATA:</u>	tion. ribed herein a a licensed eng 1.5 psf was a r center to center the context of the context o	are generic gineer or ar ssumed for each Quick nter. e table is th in a tolerand ware must b erate climat for coastal cccordance anchor mai	and may no chitect shai the claddin -Screen Clij -Screen Clij e minimum :e of +/- 1/2 ve made of e zones climate zone with anchor nufacturer.	It reflect act I prepare sit g. p location. N number of " of the spe corrosion re es manufactui	l ual condition e specific d Ainimum of I anchors to t cified spaci sistant mate	buck desigr ns for a spec ocuments fo two (2) anch two (2) anch two (2) anch two (2) anch two (2	n and instal cific site. If : r use with t nors per pla product inst ces are not a corrosion	iation is the site conditio his docume nk. allation. cumulative n resistant c	responsibili ns cause in nt. from one ir oating. Con	y of the eng stallation to stallation ar nmon fasten	deviate fror deviate fror nchor to the her types ca	hitect of n the next. n be equ

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

	ARCHITECTURE		FAST	ENER	10 000							
4" PLANKS							ctored / l	· · ·				
		20	30	40	50	60	70	80	90	100	110	120
	16"											
QUICK-SCREEN CLIP SPACING (IN)	24"											
	32"											
Plank Profile: 4" V-Groove												-
TRIM COMPONEN	ITS*			1		· · · ·	ctored / l	· · · ·				1
	4.01	20	30	40	50	60	70	80	90	100	110	120
	16"						0" 4					
Starter Strip requires Two (2) installati	on anchor	s at each 1	astener lo	cation: 1 G	uick-Scree	en Clip + 1					
	-							Ca	lculations	are using i	L/60 defled	tion limi
SUBSTRATE TYPE												
	SUBS	STRATE R	EQUIREN	IENTS	ANC			CREW	MI		MIN. I	
					DESCR	IPTION	LEN	GTH	EMBEI	DMENT	DIST	ANCE
7/16" OSB/PLYWOOD		A rated she			DESCR #10 Pan H	IPTION	LEN			DMENT	DIST	
7/16" OSB/PLYWOOD GENERAL NOTES: 1. Substrate shall be designed a record for the project of installat 2. The installation details descri- requirements detailed herein, a 3. An unfactored dead load of 1 INSTALLATION NOTES: 1. One (1) installation anchor is 2. Spacing is from clip/fastener 3. The number of installation an 4. Install individual installation an 5. Installation anchors and assoce better to a & b listed below: a. Zinc plated fasteno- b. 316 Stainless Stee	AP. AP. AP. AP. AP. AP. AP. AP. AP. AP.	A rated she d to properl are generic gineer or ar ssumed for each Quick- nter. e table is th n a tolerant vare must b or coastal of	athing or be y transfer a and may no chitect shal the claddin -Screen Cli e minimum ce of +/- 1/2 e made of e zones climate zone	tter II loads to th t reflect act prepare sing. D location. N number of " of the spe corrosion re	DESCR #10 Pan H Sc he structure ual condition te specific du vlinimum of t anchors to t cified spacir esistant mate	EIPTION ead Wood rew buck design hs for a spec bocuments fo wo (2) anch we used for p ngs. Toleran erial or have	LEN and install cific site. If s r use with t ors per plan product inst a corrosior	GTH ation is the i ite condition its document nk. allation. cumulative a resistant co	EMBEI 7/ responsibilit ns cause in nt.	MENT 16" y of the eng stallation to stallation ar mon fasten	DIST,	hitect of n the next. n be equa
7/16" OSB/PLYWOOD GENERAL NOTES: 1. Substrate shall be designed a record for the project of installat 2. The installation details descri requirements detailed herein, a 3. An unfactored dead load of 1 <u>NSTALLATION NOTES</u> : 1. One (1) installation anchor is 2. Spacing is from clip/fastener 3. The number of installation an 4. Install individual installation an 5. Installation anchors and asso better to a & b listed below: a. Zinc plated fasten b. 316 Stainless Stef 6. Installation anchors shall be i han the minimum strength spece	AP, and anchore ion. bed herein a licensed en icensed en softwas a required at center to ce chors per th inchors withi sciated hardv ers for mode el fasteners i nstalled in a	A rated she d to properl are generic gineer or ar ssumed for each Quick nter. e table is th n a tolerand ware must b erate climate for coastal ccordance	athing or be y transfer a and may no chitect shal the claddin -Screen Clip e minimum ce of +/- 1/2 we made of a zones climate zone with anchor	tter II loads to th t reflect act prepare sing. D location. N number of " of the spe corrosion re	DESCR #10 Pan H Sc he structure ual condition te specific du vlinimum of t anchors to t cified spacir esistant mate	EIPTION ead Wood rew buck design hs for a spec bocuments fo wo (2) anch we used for p ngs. Toleran erial or have	LEN and install cific site. If s r use with t ors per plan product inst a corrosior	GTH ation is the i ite condition its document nk. allation. cumulative a resistant co	EMBEI 7/ responsibilit ns cause in nt.	MENT 16" y of the eng stallation to stallation ar mon fasten	DIST,	hitect of n the next. n be equa
7/16" OSB/PLYWOOD GENERAL NOTES: 1. Substrate shall be designed a record for the project of installat 2. The installation details descri requirements detailed herein, a 3. An unfactored dead load of 1 <u>NSTALLATION NOTES:</u> 1. One (1) installation anchor is 2. Spacing is from clip/fastener 3. The number of installation an 4. Install individual installation an 5. Installation anchors and assoce better to a & b listed below: a. Zinc plated fasten b. 316 Stainless Ster 6. Installation anchors shall be i han the minimum strength spec REFERENCED DATA:	AP. AP. AP. AP. AP. AP. AP. AP. AP. AP.	A rated she d to properl are generic gineer or ar ssumed for each Quick nter. e table is th n a tolerand ware must b erate climate for coastal ccordance	athing or be y transfer a and may no chitect shal the claddin -Screen Clip e minimum ce of +/- 1/2 we made of a zones climate zone with anchor	tter II loads to th t reflect act prepare sing. D location. N number of " of the spe corrosion re	DESCR #10 Pan H Sc he structure ual condition te specific du vlinimum of t anchors to t cified spacir esistant mate	EIPTION ead Wood rew buck design hs for a spec bocuments fo wo (2) anch we used for p ngs. Toleran erial or have	LEN and install cific site. If s r use with t ors per plan product inst a corrosior	GTH ation is the i ite condition its document nk. allation. cumulative a resistant co	EMBEI 7/ responsibilit ns cause in nt.	MENT 16" y of the eng stallation to stallation ar mon fasten	DIST,	hitect of n the next. n be equa
7/16" OSB/PLYWOOD GENERAL NOTES: 1. Substrate shall be designed <i>i</i> record for the project of installat courd for the project of installat 2. The installation details descri requirements detailed herein, a 3. An unfactored dead load of 1 <u>NSTALLATION NOTES</u> : 1. One (1) installation anchor is 2. Spacing is from clip/fastener 3. The number of installation an 4. Install individual installation and 5. Installation anchors and asso better to a & b listed below: a. Zinc plated fasten b. 316 Stainless Ster 5. Installation anchors shall be i	AP. AP. AP. AP. AP. AP. AP. AP. AP. AP.	A rated she d to properl are generic gineer or ar ssumed for each Quick nter. e table is th n a tolerand ware must b arate climate for coastal of ccordance anchor mar	athing or be y transfer a and may no chitect shal the claddin the claddin Screen Cli e minimum ce of +/- 1/2 be made of a zones Limate zone with anchor ufacturer.	Il loads to th t reflect act prepare si g. b location. N number of " of the spe corrosion re es manufactu	DESCR #10 Pan H Sc he structure ual condition te specific du vlinimum of t anchors to t cified spacir esistant mate	EIPTION ead Wood rew buck design hs for a spec bocuments fo wo (2) anch we used for p ngs. Toleran erial or have	LEN and install cific site. If s r use with t ors per plan product inst ces are not a corrosior	GTH ation is the i ite condition its document nk. allation. cumulative a resistant co	EMBEI 7/ responsibilit ns cause in nt.	MENT 16" y of the eng stallation to stallation ar mon fasten	DIST,	hitect of n the next. n be equa

Table 5 - Fastener to Sheathing (4" Planks)

	iding,					PSF (Fa	ctored / I	Ultimate)				
7" Board & E	Batten	20	30	40	50	60	70	80	90	100	110	120
	12"											
QUICK-SCREEN CLIP	16"											
SPACING (IN)	24"											
	32"											
Plank Profiles: 6" V-Groove	, 6" Smooth	, 6" Chan	nel, 6" Lap	, 7" Board	& Batten		1		1			•
TRIM COMPONEN	ITC*					PSF (Fa	ctored / I	Ultimate)				
	1.5	20	30	40	50	60	70	80	90	100	110	120
	16"											
*Starter Strip requires Two (2) installati	on anchor										
		on anchoi	's at each	fastener lo	cation: 1 C	uick-Scree	en Clip + 1	Mid-Point	slotted ho	le		
	. ,		's at each '	fastener lo	cation: 1 C	uick-Scree	en Clip + 1			le are using l	./60 defle	ction limit
SUBSTRATE TYPE	1	STRATE R			Cation: 1 C ANCI DESCR	HOR	MIN. S		lculations MI	are using l	MIN.	ction limi EDGE ANCE
7/16" OSB/PLYWOOD GENERAL NOTES: 1. Substrate shall be designed record for the project of installa 2. The installation details descr	SUBS AP and anchore tion.	STRATE R A rated she ed to proper are generic	EQUIREN athing or ba ly transfer a and may no	IENTS otter III loads to th ot reflect act	ANC DESCR #10 Pan H Sc ne structure ual conditior	HOR IPTION ead Wood ew buck design	MIN. S LEN	Ca CREW IGTH 1" lation is the site condition	Iculations MI EMBEI 7/ responsibilt	are using t N. DMENT 16" y of the eng	MIN. I DIST.	EDGE ANCE "
7/16" OSB/PLYWOOD GENERAL NOTES: 1. Substrate shall be designed record for the project of installa 2. The installation details descr requirements detailed herein, a	SUBS AP and anchore tion. ibed herein a licensed en	STRATE R A rated she ed to proper are generic gineer or ar	EQUIREM athing or be ly transfer a and may no rchitect shal	IENTS atter III loads to th t reflect act I prepare sit	ANC DESCR #10 Pan H Sc ne structure ual conditior	HOR IPTION ead Wood ew buck design	MIN. S LEN	Ca CREW IGTH 1" lation is the site condition	Iculations MI EMBEI 7/ responsibilt	are using t N. DMENT 16" y of the eng	MIN. I DIST.	EDGE ANCE "
7/16" OSB/PLYWOOD GENERAL NOTES: 1. Substrate shall be designed record for the project of installa 2. The installation details descr requirements detailed herein, a 3. An unfactored dead load of 1	SUBS AP and anchore tion. ibed herein a licensed en	STRATE R A rated she ed to proper are generic gineer or ar	EQUIREM athing or be ly transfer a and may no rchitect shal	IENTS atter III loads to th t reflect act I prepare sit	ANC DESCR #10 Pan H Sc ne structure ual conditior	HOR IPTION ead Wood ew buck design	MIN. S LEN	Ca CREW IGTH 1" lation is the site condition	Iculations MI EMBEI 7/ responsibilt	are using t N. DMENT 16" y of the eng	MIN. I DIST.	EDGE ANCE "
	SUBS AP and anchore tion. bibed herein licensed en .5 psf was a	STRATE R A rated she ed to proper are generic gineer or ar sissumed for	EQUIREN athing or be ly transfer a and may no chitect shal the claddir	IENTS etter III loads to th to treflect act I prepare sit g.	ANCI DESCR #10 Pan H Sc e structure ual condition e specific de	HOR IPTION ead Wood rew buck design buck design s for a spec	MIN. S LEN	CREW IGTH 1" lation is the site condition his docume	Iculations MI EMBEI 7/ responsibilt	are using t N. DMENT 16" y of the eng	MIN. I DIST.	EDGE ANCE "
7/16" OSB/PLYWOOD GENERAL NOTES: 1. Substrate shall be designed record for the project of installa 2. The installation details descr requirements detailed herein, a 3. An unfactored dead load of 1 INSTALLATION NOTES: 1. One (1) installation anchor is	SUBS AP and anchore tion. libed herein a licensed en .5 psf was a	STRATE R A rated she d to proper are generic gineer or an ussumed for each Quick	EQUIREN athing or be ly transfer a and may no chitect shal the claddir	IENTS etter III loads to th to treflect act I prepare sit g.	ANCI DESCR #10 Pan H Sc e structure ual condition e specific de	HOR IPTION ead Wood rew buck design buck design s for a spec	MIN. S LEN	CREW IGTH 1" lation is the site condition his docume	Iculations MI EMBEI 7/ responsibilt	are using t N. DMENT 16" y of the eng	MIN. I DIST.	EDGE ANCE "
7/16" OSB/PLYWOOD GENERAL NOTES: 1. Substrate shall be designed record for the project of installa 2. The installation details descr requirements detailed herein, a 3. An unfactored dead load of 1 INS TALLATION NOTES: 1. One (1) installation anchor is 2. Spacing is from clip/fastener	SUBS AP and anchore tion. libed herein a licensed en .5 psf was a required at center to ce	STRATE R A rated she d to proper are generic gineer or an sssumed for each Quick nter.	EQUIREN athing or be ly transfer a and may no chitect shat the claddir -Screen Cli	IENTS otter III loads to th It reflect act I prepare sit g. p location. N	ANC DESCR #10 Pan H Sc the structure ual condition e specific de finimum of t	HOR IPTION ead Wood eew buck design s for a spec- scuments fo	MIN. S LEN and install cific site. If i r use with t	CREW IGTH 1" lation is the site condition his docume	Iculations MI EMBEI 7/ responsibilt	are using t N. DMENT 16" y of the eng	MIN. I DIST.	EDGE ANCE "
7/16" OSB/PLYWOOD GENERAL NOTES: 1. Substrate shall be designed record for the project of installa 2. The installation details descr requirements detailed herein, a 3. An unfactored dead load of 1 INSTALLATION NOTES: 1. One (1) installation anchor is 2. Spacing is from clip/fastener 3. The number of installation ar 4. Install individual installation ar 5. Installation anchors and asso better to a & b listed below:	SUBS AP and anchore tion. ibed herein a licensed en .5 psf was a required at center to ce nchors per th anchors with boclated hardt	STRATE R A rated she at to proper are generic gineer or ar ssumed for each Quick nter. net able is th in a toleram ware must h	EQUIREM athing or bo ly transfer a and may no chitect shal the claddir -Screen Cli ne minimum ce of +/- 1/2 be made of	IENTS otter Il loads to the reflect act I prepare sit g. p location. N number of " of the spe	ANC DESCR #10 Pan H Sc the structure ual condition e specific de finimum of t anchors to b cified spacir	HOR IPTION ead Wood eew buck design s for a spec- scuments fo wo (2) anch e used for p gs. Tolerand	MIN. S LEN and install cific site. If i r use with t ors per pla	CREW IGTH 1" lation is the site condition his docume nk. allation. cumulative	Iculations Mil EMBEI 7/ responsibilit responsibilit rs cause in nt.	are using b N. DMENT 16" y of the eng stallation to	MIN. I DIST, ineer or arc deviate from	EDGE ANCE
7/16" OSB/PLYWOOD GENERAL NOTES: 1. Substrate shall be designed record for the project of installa 2. The installation details descr requirements detailed herein, a 3. An unfactored dead load of 1 INSTALLATION NOTES: 1. One (1) installation anchor is 2. Spacing is from clip/fastener 3. The number of installation ar 4. Install individual installation a 5. Installation anchors and asso	SUBS AP and anchore tion. ibed herein a licensed en .5 psf was a required at center to ce nchors per th anchors with ociated hard eres for mode	STRATE R A rated she d to proper are generic gineer or ar ssumed for each Quick nter. he table is th in a toleran ware must h erate climat	EQUIREM athing or be ly transfer a and may no chitect shal the claddin -Screen Cli ne minimum ce of +/- 1/2 be made of e zones	IENTS otter III loads to the treflect act I prepare sit g. p location. N number of " of the spe corrosion re	ANC DESCR #10 Pan H Sc the structure ual condition e specific de finimum of t anchors to b cified spacir	HOR IPTION ead Wood eew buck design s for a spec- scuments fo wo (2) anch e used for p gs. Tolerand	MIN. S LEN and install cific site. If i r use with t ors per pla	CREW IGTH 1" lation is the site condition his docume nk. allation. cumulative	Iculations Mil EMBEI 7/ responsibilit responsibilit rs cause in nt.	are using b N. DMENT 16" y of the eng stallation to	MIN. I DIST, ineer or arc deviate from	EDGE ANCE
7/16" OSB/PLYWOOD GENERAL NOTES: 1. Substrate shall be designed record for the project of installa 2. The installation details descr requirements detailed herein, a 3. An unfactored dead load of 1 INSTALLATION NOTES: 1. One (1) installation anchor is 2. Spacing is from clip/fastener 3. The number of installation ar 4. Install individual installation ar 5. Installation anchors and asso better to a & b listed below: a. Zinc plated fasten b. 316 Stainless Ste 6. Installation anchors shall be	SUBS AP and anchore tion. licensed en .5 psf was a required at center to ce achors per th anchors with bociated hard ers for mode el fasteners installed in a	STRATE R A rated she d to proper are generic gineer or an ussumed for each Quick nter. te table is th in a toleran- ware must h erate climat for coastal for coastal	EQUIREN athing or be ly transfer a and may no chitect shal the claddir -Screen Cli ne minimum ce of +/- 1/2 be made of e zones climate zon with anchoi	IENTS otter III loads to the treflect act I prepare sit g. p location. N number of " of the spe corrosion re	ANC DESCR #10 Pan H Sc us structure ual condition e specific de finimum of t anchors to b cified spacin sistant mate	HOR IPTION ead Wood ew buck design is for a spec cuments fo wo (2) anch e used for p gs. Tolerand rial or have	MIN. S LEN and install cific site. If i r use with t ors per pla product inst ces are not a corrosion	CREW GTH 1" lation is the site condition his docume nk. allation. cumulative n resistant c	Iculations MI EMBEI 7/ responsibilit ns cause in nt.	are using b N. DMENT 16" y of the eng stallation to stallation to	MIN. I DIST, ineer or arc deviate from chor to the er types ca	EDGE ANCE
7/16" OSB/PLYWOOD GENERAL NOTES: 1. Substrate shall be designed record for the project of installa 2. The installation details descr requirements detailed herein, a 3. An unfactored dead load of 1 INSTALLATION NOTES: 1. One (1) installation anchor is 2. Spacing is from clip/fastener 3. The number of installation ar 4. Install individual installation ar 5. Installation anchors and asso better to a & b listed below: a. Zinc plated fasten b. 316 Stainless Ste 6. Installation anchors shall be than the minimum strength spe	SUBS AP and anchore tion. licensed en .5 psf was a required at center to ce achors per th anchors with bociated hard ers for mode el fasteners installed in a	STRATE R A rated she d to proper are generic gineer or an ussumed for each Quick nter. te table is th in a toleran- ware must h erate climat for coastal for coastal	EQUIREN athing or be ly transfer a and may no chitect shal the claddir -Screen Cli ne minimum ce of +/- 1/2 be made of e zones climate zon with anchoi	IENTS otter III loads to the treflect act I prepare sit g. p location. N number of " of the spe corrosion re	ANC DESCR #10 Pan H Sc us structure ual condition e specific de finimum of t anchors to b cified spacin sistant mate	HOR IPTION ead Wood ew buck design is for a spec cuments fo wo (2) anch e used for p gs. Tolerand rial or have	MIN. S LEN and install cific site. If i r use with t ors per pla product inst ces are not a corrosion	CREW GTH 1" lation is the site condition his docume nk. allation. cumulative n resistant c	Iculations MI EMBEI 7/ responsibilit ns cause in nt.	are using b N. DMENT 16" y of the eng stallation to stallation to	MIN. I DIST, ineer or arc deviate from chor to the er types ca	EDGE ANCE
7/16" OSB/PLYWOOD GENERAL NOTES: 1. Substrate shall be designed record for the project of installa 2. The installation details descr requirements detailed herein, a 3. An unfactored dead load of 1 INSTALLATION NOTES: 1. One (1) installation anchor is 2. Spacing is from clip/fastener 3. The number of installation ar 4. Install individual installation ar 5. Installation anchors and asso better to a & b listed below: a. Zinc plated fasten b. 316 Stainless Ste 6. Installation anchors shall be than the minimum strength spe	SUBS AP and anchore tion. ibed herein a licensed en .5 psf was a required at center to cen- there of the anchors with bociated hardware ers for mode el fasteners installed in a cified by the	STRATE R A rated she d to proper are generic gineer or an ussumed for each Quick nter. te table is th in a toleran- ware must h erate climat for coastal for coastal	EQUIREN athing or be ly transfer a and may no chitect shal the claddir -Screen Cli ne minimum ce of +/- 1/2 be made of e zones climate zon with anchoi	IENTS otter III loads to the treflect act I prepare sit g. p location. N number of " of the spe corrosion re	ANC DESCR #10 Pan H Sc us structure ual condition e specific de finimum of t anchors to b cified spacin sistant mate	HOR IPTION ead Wood ew buck design is for a spec cuments fo wo (2) anch e used for p gs. Tolerand rial or have	MIN. S LEN and install cific site. If i r use with t ors per pla product inst ces are not a corrosion	CREW GTH 1" lation is the site condition his docume nk. allation. cumulative n resistant c	Iculations MI EMBEI 7/ responsibilit ns cause in nt.	are using b N. DMENT 16" y of the eng stallation to stallation to	MIN. I DIST, ineer or arc deviate from chor to the er types ca	EDGE ANCE
7/16" OSB/PLYWOOD GENERAL NOTES: 1. Substrate shall be designed record for the project of installa 2. The installation details descr requirements detailed herein, a 3. An unfactored dead load of 1 INSTALLATION NOTES: 1. One (1) installation anchor is 2. Spacing is from clip/fastener 3. The number of installation ar 5. Install individual installation ar 5. Installation anchors and asso better to a & b listed below: a. Zinc plated fasten b. 316 Stainless Ste 6. Installation anchors shall be than the minimum strength spe REFERENCED DATA:	SUBS AP and anchore tion. ibed herein a licensed en .5 psf was a required at center to ce nchors per th anchors with bociated hardt ers for mode el fasteners installed in a cified by the g Code	STRATE R A rated she at to proper are generic gineer or an ssumed for each Quick nter. the table is th in a toleran- ware must the erate climat for coastal is accordance anchor ma	EQUIREM athing or bo ly transfer a and may no chitect shal the claddir -Screen Cli ne minimum ce of +/- 1/2 be made of e zones climate zon with anchoi nufacturer.	IENTS itter ill loads to th t reflect act propare sit g. p location. A number of " of the spe corrosion re es manufactu	ANC DESCR #10 Pan H Sc us structure ual condition e specific de finimum of t anchors to b cified spacin sistant mate	HOR IPTION ead Wood ew buck design is for a spec cuments fo wo (2) anch e used for p gs. Tolerand rial or have	MIN. S LEN and install cific site. If i r use with t ors per pla product inst ces are not a corrosion	CREW GTH 1" lation is the site condition his docume nk. allation. cumulative n resistant c	Iculations MI EMBEI 7/ responsibilit ns cause in nt.	are using b N. DMENT 16" y of the eng stallation to stallation to	MIN. I DIST, ineer or arc deviate from chor to the er types ca	EDGE ANCE

Table 6 - Fastener to Sheathing (6" Planks)

						PSF (Fa	ctored /	Ultimate))			
ENDURA (T&G) PL/	ANKS	20	30	40	50	60	70	80	90	100	110	12
	12"											
QUICK-SCREEN CLIP SPACING (IN)	16"											
	24"											
Plank Profiles: V-Groove (2	-1/2", 4",	6"), Smo	oth (6"), 0	Channel ((5")	1	1			i	1	i
						PSF (Fa	ctored /	Ultimate)				
TRIM COMPONEN	ITS*	20	30	40	50	60	70	80	90	100	110	12
	12"											
FASTENER SPACING (IN)	16"											
	24"									 	 	
*Starter Strip requires Two		i ation and	hors at e	ach faster	i ner locati	i n: 1 Quic	k-Screen	Clin + 1 M	Mid-Point	slotted bo		i
otarter on prequires two	(2) 113tan	auonano	nors at ce	acmaster	ici iocati	n. r cenc	N OCICCII	· ·		using L/18		tion li
								carcara	iono are	2011g 2 1		
SUBSTRATE TYPE	S	UBSTRA	TE REQU	JIREMEN	TS	ANCHO	R DESC	RIPTION	M	N. DMENT	MIN. I	
STEEL T-BAR GRID		Min. 2	0 ga., min.	. 33 ksi.		#10 Te	k Screw (g	rade 5)	3 thr penetrat	eads		2"
GENERAL NOTES: 1. Adequacy of the T-Bar Grid or architect of record for the pr	oject of ins	tallation.									-	-
Substrate shall be designed architect of record for the projet			perly trans	fer all load	s to the st	ructure des	ign and ins	stallation is	the respo	nsibilty of t	he engine	er or
3. The installation details desc from the requirements detailed												o devi
4. An unfactored dead load of			-									
INSTALLATION NOTES:												
	s required	at each Qu	uick-Scree	n Clip locat	tion. Minin	um of two	(2) anchor	s per plank				
1. One (1) installation anchor i	r center to	center.										
		the table i	is the mini	mum numb	er of anch	ors to be u	sed for pro	duct install	lation.			
1. One (1) installation anchor i	nchors per		rance of +/	/- 1/2" of th	e specifie	l spacings.	Tolerance	s are not ci	umulative	from one in	stallation	ancho
1. One (1) installation anchor i 2. Spacing is from clip/fastene	-	ithin a tole							aladdiaa			
One (1) installation anchor i Spacing is from clip/fastene The number of installation a Install individual installation	anchors w		achment m	nember sha	all be stag	gered betw	een adjace	ent runs of (ciadding.			
One (1) installation anchor i Spacing is from clip/fastene The number of installation a Install individual installation the next.	anchors wi	per, the att				-	-		-	nd sheathir	ng.	
One (1) installation anchor i Spacing is from clipifastene The number of installation a Install individual installation the next. If fastening to every second	anchors wi grid memb	per, the att	e wall finisł	hes, includi	ing but not	limited to v	wood furrin	gs, gypsun	-	nd sheathir	ng.	

Table 7 - Fastener to Interior T-Bar Grid

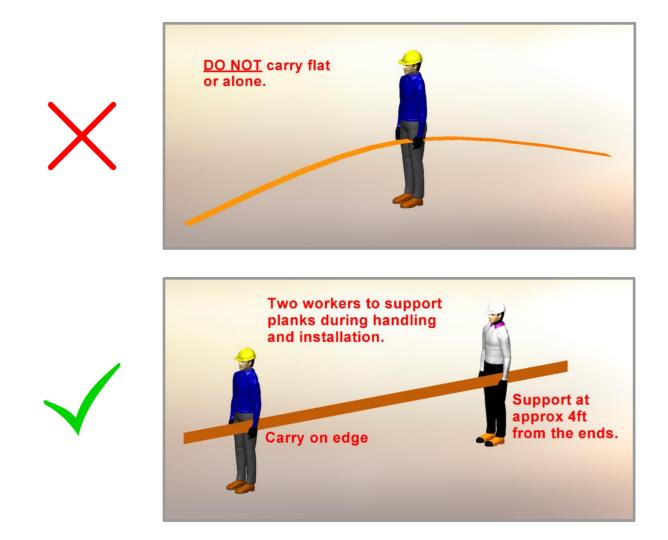


Radius Table				
APPLICATION	A -Circular	B -Curved walls	C -Convex	D -Concave
DIAGRAMS	J-Track	Termination Set	J-Track J-Track	J-Track J-Track
TRIMS	Minimum Radius			
Non-Tempered Precision J-Track (5/8")	1.5' (0.46m)	N/A	1.5' (0.46m)	2' (0.61m)
Precision J-Track (5/8")	15' (4.57m)	N/A	N/A	N/A
Precision 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.



A Delivery, Storage & Handling

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