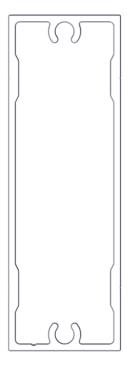
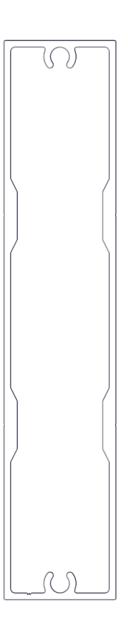




# **Privacy Beam Cladding**

# **Installation Guidelines**







### **Table of Contents**

<u>Materi</u>	al Specifications	3
	Finishes	<b>3</b>
	Expansion and contraction	3
	Material ordering and deliveries	3
	Storage and handling	3
	Cleaning	3
	Warranty	3
	Graffiti Cleaning	4
Comp	onents	5
	Components (Typical)	5
Tools/	Cutting/Fastening	6
	Tools	6
	Cutting	6
	Fastening	7
	Fastener types	7
	Framing requirements	8
<u>Syster</u>	n Install	9
	Perimeter and field area limitations	9
	Component assembly overview	10
	Floating system	10
	End Frame system	11
	Preparation drilling for install	12
	Install steps	13
	Floating system	13
	End Frame system	14
	Details	15
	Butt-Joints	15
<u>Appen</u>	dix	16
	Tables - Expansion & contraction	16
	Tables – Design Pressure Tables	17
	Handling and care of products	18
	Blank Page	19
	Contact Info	20



#### **Material Specifications**

#### **Finishes**

- Longboard Products are available in a wide range of powder coated finishes
- Custom solid colors are available upon request
- · 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. Longboard Cladding is to be installed outboard of a weather resistant barrier, including all flashings, following code, and building requirements.

#### **Expansion & Contraction**

Privacy Beam components expand & contract 1/4" (6mm) over 24' (7.3m) along the length, measured over a 30°C (54°F) temperature range. Due to this range of movement, Privacy Beam Fins /Battens should be installed with staggered butt-joints, leaving a 1/4" (6mm) min. gap, every 24' (7.3m) min.

See Appendix for Tables 1 & 2, expansion/contraction calculations per foot/meter of material.

#### **Material Ordering & Delivery**

•	Packaging:	Privacy Beams are sold in 24' lengths, 1x3 & 1x5. End caps are sold by the box: 20 caps/bx Single Posts are sold in 24' lengths
•	Shipping:	Most Popular Finishes -ready to ship within 1 week Additional Finishes -ready to ship within 14 weeks Delivered on 24' (7.3m) long skids weighing up to 2000 lbs. A mechanical lift with forks is required on site to receive the order.
•	QC:	Always inspect the delivery for damage and contact LB ASAP if there are any issues: <a href="mailto:info@longboardproducts.com">info@longboardproducts.com</a> or 1-800-604-0343 and include your PO# and any pictures if possible. Mark the delivery receipt as "damaged" and accept the delivery as-is. Longboard is not responsible for the installation of blemished or damaged material.

#### Storage & Handling

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

#### **Cleaning Recommendations**

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

№ NEVER use aggressive acid or alkaline cleaners on Longboard finishes. Do not use cleaners containing Trisodium Phosphate, Phosphoric Acid, Hydrochloric Acid, Hydrofluoric Acid, Fluorides, or any other compound that is known to react with metal.

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

longboardproducts/resources/care-maintenance.com

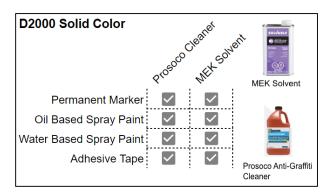
#### Warranty

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



#### **Graffiti Removal**







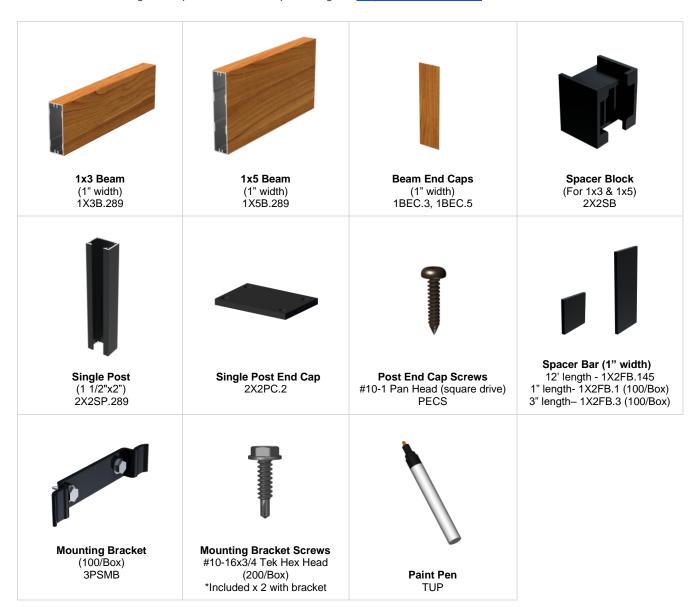
Note: Cleaning the surface with a cleanser that is not diluted as per instructions, may result in damage to the coating.



#### Components

#### **Components (Typical)**

The Privacy Beam system consists of Beams attached to Single Posts and installed onto a support structure or exterior building envelope. For all LB components go to <a href="longboardproducts.com">longboardproducts.com</a>.

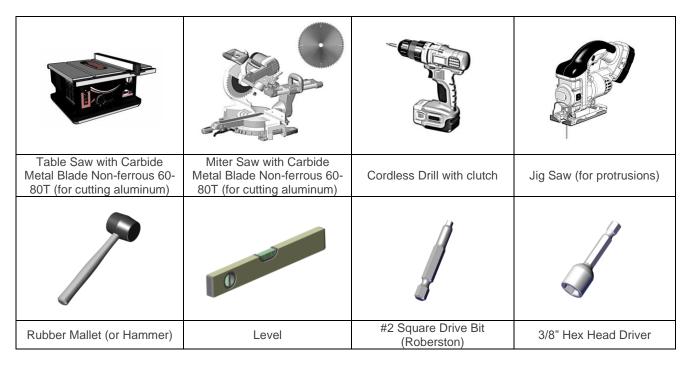




#### **Tools/Cutting/Fastening**

Tools

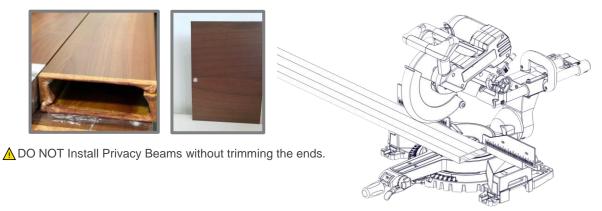
Commonly used tools for Privacy Beam install.



#### Cutting

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

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





#### **Fastening**

Longboard Privacy Beam consists of 1x3 & 1x5 extrusions which are installed onto single posts using mounting brackets for Floating system or spacer blocks for End Frame system. These posts are fastened with #12 fasteners (by others) to a solid secure support structure or substrate, sharppoint screws (for wood substrates) or self-drilling (for metal substrates).

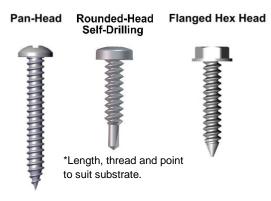
Fasteners must be corrosion resistant and comply with all local building codes.

⚠ All fasteners should be suitable for exterior use and be compatible with the substrate type. Fasteners should be anchored into a solid secure substrate.

▲ See Appendix for project specific fastener spacing: Tables 3 & 4

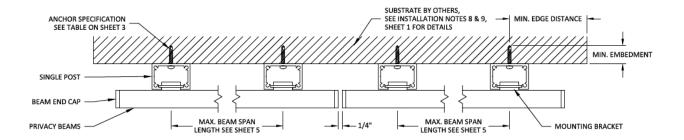
#### **Fastener types**

#### **RECOMMENDED**



FLOATING SYSTEM								
SUBSTRATE	ANCHOR DESCRIPTION	MIN. EMBEDMENT	MIN. EDGE DISTANCE					
WOOD MIN. S.G. =0.55	#12 WOOD SCREW	1-1/2"	1"					
STEEL: MIN. 1/16" THICK, MIN. Fy =36 KSI			1/2"					
ALUM.: MIN. 1/8", MIN. 6063-T5	(GRADE 5)	PAST METAL STRUCTURE	1/2					
CONCRETE MIN. F'C =3000 PSI	3/16" ITW TAPCON	1-1/2"	1-7/8"					
HOLLOW / GROUT-FILLED BLOCK PER C-90 MIN. F'C =2000 PSI	3/16" DEWALT ULTRACON+	1-1/4"	2"					

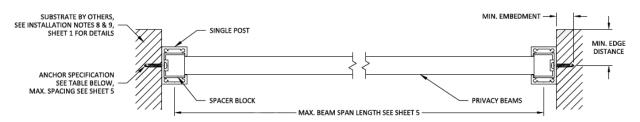
#### Floating System





END FRAME SYSTEM								
SUBSTRATE	ANCHOR DESCRIPTION	MIN. EMBEDMENT	MIN. EDGE DISTANCE					
WOOD MIN. S.G. =0.55	#12 WOOD SCREW	1-1/2"	1"					
STEEL: MIN. 18 GA., MIN. Fy =36 KSI			1/2"					
ALUM.: MIN. 1/8", MIN. 6063-T5	(GRADE 5)	PAST METAL STRUCTURE	1/2					
CONCRETE MIN. F'C =3000 PSI			2"					
HOLLOW / GROUT-FILLED BLOCK PER C-90 MIN. F'C =2000 PSI	3/16" ITW TAPCON	1"	3"					

#### End Frame System



#### Framing requirements

Always consult your local building authority and follow local building code requirements. See Typical dimensions for sizes and weights of the Privacy Beam system.

#### **Wood Framing**

• Size: 2x4 minimum

• Spacing: 16" (406mm) O.C.

#### **Metal Framing**

Gauge: 18 ga. minimum

Spacing: 16" (406mm) O.C.

#### Concrete/CMU

When application calls for wood or metal furring over concrete and CMU use:

#### Wood Furring:

Size: 2x2 minimum

Type: Pressure treated lumber

Spacing: 16" (406mm) O.C.

#### Metal Furring:

• Size: 18 ga. minimum

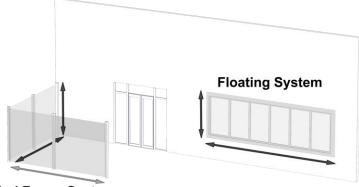
• Type: Hat channel, c-stud, or z-furring.

Spacing: 16" (406mm) O.C.

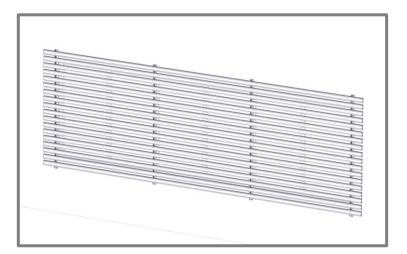
#### System Install

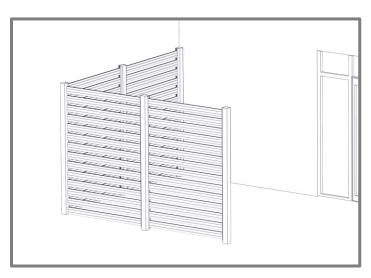
#### Perimeter and field area limitations

Measure and layout your application area to consider Privacy Beam alignment with fixtures, penetrations, and adjacent walls, for desired appearance. The same methodology applies for vertical installations.



**End Frame System** 

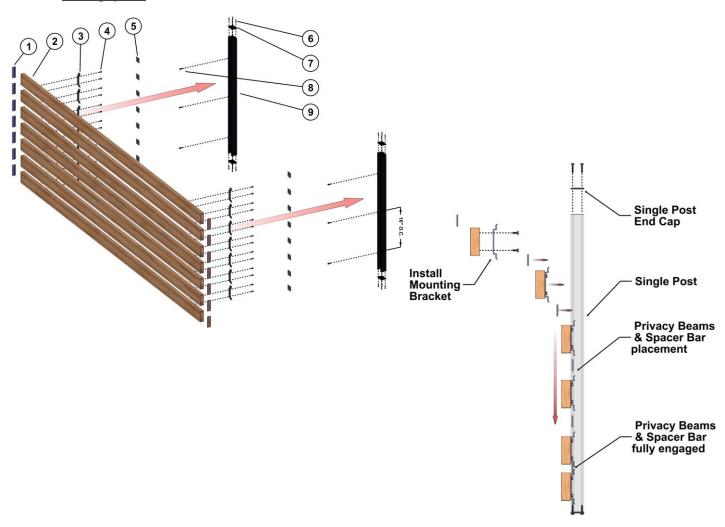






#### Component assembly overview

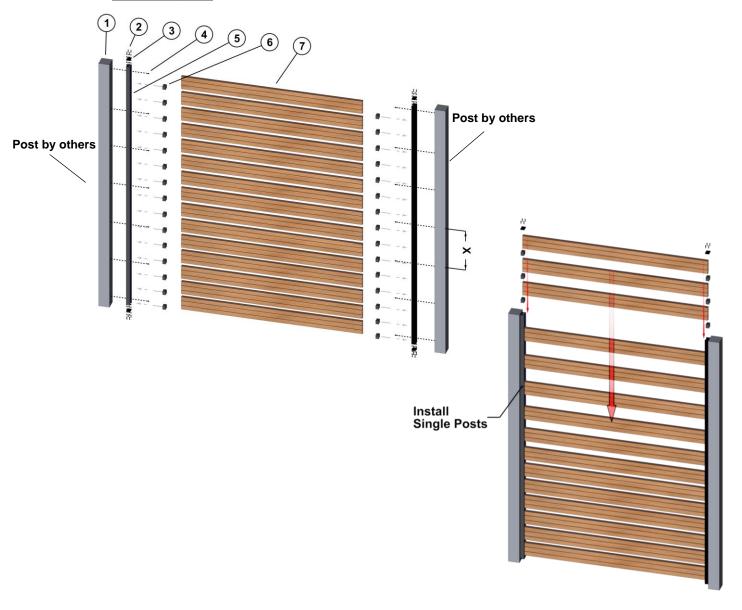
#### Floating system



No.	Description	Details	SKU
1	End Cap	-End Caps are friction fit onto ends of the Privacy Beams	1BEC.3, 1BEC.5
2	Privacy Beam	-1"x3" Beam, 1"x5" Beam	1X3B.289, 1x5B.289
3	Mounting Bracket	-Secured onto Beam, (100/box)	3PSMB
4	#10-16x3/4 Tek Hex Head Screw	-For securing the bracket to the Beam Included x 2 with bracket, (200/box)	Included with Mounting Bracket
5	Spacer bar (1" piece)	-For spacing between the Beams 12' length, 1" length- (100/Box), 3" length- (100/Box)	1X2FB.145, 1X2FB.1, 1X2FB.3
6	#10-1 Pan Head Screw	-For securing the Single Post End caps (sold separately)	PECS
7	Single Post End Cap	-Secured onto the end of the Single Posts	2X2PC.2
8	#12 Fastener (by others)	-Used to secure the Posts to the structure. For spacings subject to loading see tables 3 & 4 in appendix.	N/A
9	Single Post	-Installed at 6' O.C. typical spacing, Beams are connected to the posts via the mounting bracket	2X2SP.289



#### End Frame system



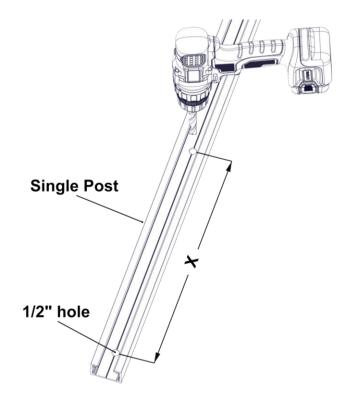
No.	Description	Details	SKU
1	Post or structural member	-By others	N/A
2	#10-1 Pan Head Screw	-For securing the Single Post End caps (sold separately)	PECS
3	Single Post End Cap	-Secured onto the end of the Single Posts	2X2PC.2
4	#12 Fastener (by others)	-Used to secure the Posts to the structure. For spacings subject to loading see tables 3 & 4 in appendix.	N/A
5	Single Post	-Installed at 6' O.C. typical spacing, Beams are connected to the posts via the mounting bracket	2X2SP.289
6	Spacer Block	-For spacing between the Beams (1" spacing)	2X2SB
7	Privacy Beam	-1"x3" Beam, 1"x5" Beam	1X3B.289, 1x5B.289



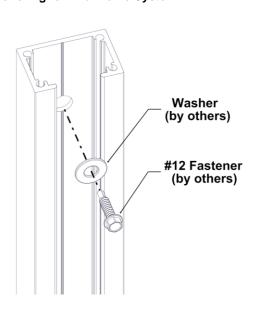
#### Preparation drilling for Install

To prepare the Privacy Beam system for install, predrill the single posts with 1/2" holes every 16" O.C. typical with the first hole approx. 2" in from the end.

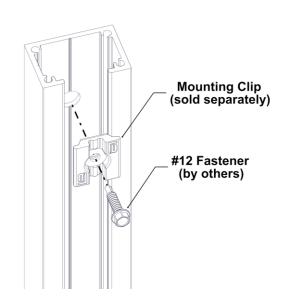
\*For fastener max. spacing (X), see tables 3 & 4 in Appendix for project specific design pressure.



#### **Anchoring for End Frame System**



#### **Anchoring for Floating System**





#### Install steps

#### Floating system

#### Step 1

Layout and install predrilled Privacy Posts onto secure structure. It is good practice to check your installation every 2-3 rows for level/plumb and flat/straight, for best result.

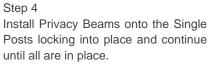
Note: Be sure to fasten in the center of the 1/2" holes to allow for movement each way. Hard fasten near the center of each length to prevent migration of the material over time.

Step 2

Install bottom Single Post End Cap and Spacer Bar.

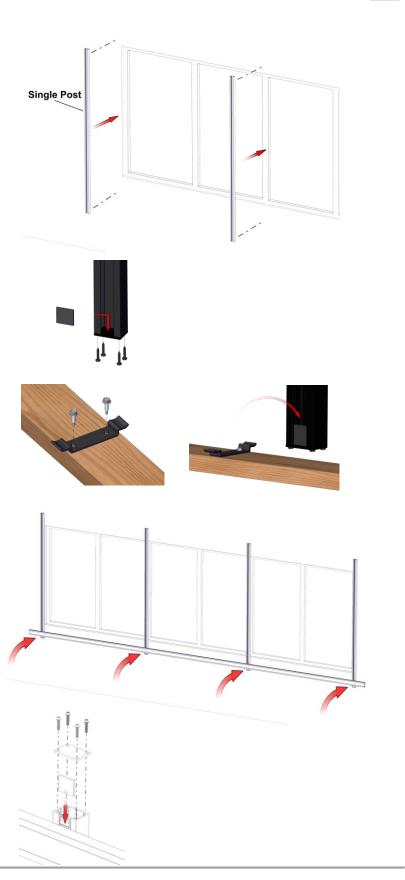
#### Step 3

Fasten Mounting Brackets onto Privacy Beams at desired spacing for the connection to the Single Posts. Use the Die lines as guides for the Mounting Bracket positioning.





Step 5
To finish, install the last Spacer Bar and Single Post End Cap. Then install Privacy Beam End Caps.





#### Install steps

#### End Frame system

#### Step 1

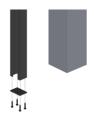
Install bottom Single Post End Cap.

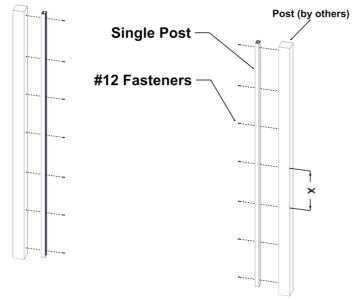
#### Step 2

Install predrilled Privacy Posts onto secure structure. It is good practice to check your installation every 2-3 rows for level/plumb and flat/straight, for best result.

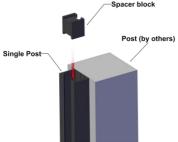
Note: Be sure to fasten in the center of the 1/2" holes to allow for movement each way. Hard fasten near the center of each length to prevent migration of the material over time.

\*For fastener max. spacing (X), see tables 3 & 4 in Appendix for project specific loading.

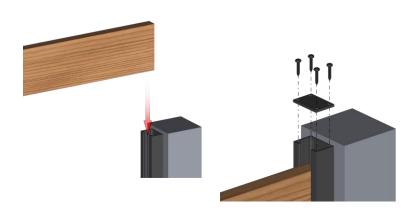




Step 3
Place Spacer Block into Post from top of Post and slide down to required location.



Step 4 Cut and place Privacy Beam into Single Posts. Then another Spacer Block and Beam and repeat.



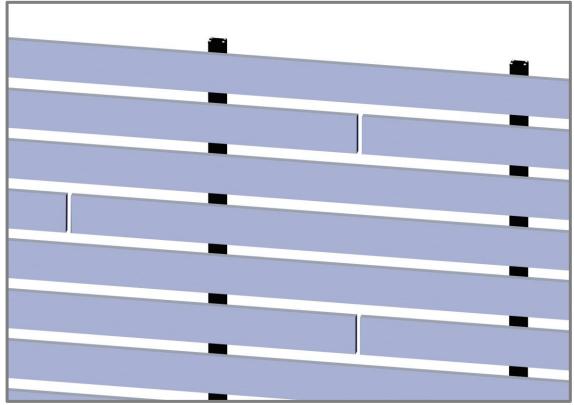
Step 5 To finish, install the Single Post End Cap.



#### Details

#### **Butt-Joints**

• BUTT-JOINTS. When installing butt-joints, ensure to leave a 1/4" (6mm) min. gap. every 24' (7.3m) min. (See Detail A).



**Detail A** 



# **Appendix**

## **Expansion and Contraction Tables**

		°C	-50	-40	-30	-20	-10	0	10	20	30	40	50
		°F	-58	-40	-22	-4	14	32	50	68	86	104	122
. [	°C	°F				FXPAN	ISION OR C	CONTRACT	ION (INCH	FOOT)			
	-50	-58	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016	-0.019	-0.022	-0.024	-0.027
	-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
Ì	20	68	0.019	0.016	0.014	0.011	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008
Ī	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 E 2 - M	122 ETRIC	0.027	0.024	0.022	0.019	0.016	0.014	0.011	0.008	0.005	0.003	0.000
SLE		ETRIC			AVERA	GE TEMPE	RATURE A	T TIME OF	CUTTING	& INSTALL	ATION		
			-50 -58	-40 -40							200000000000000000000000000000000000000	0.003 40 104	50
LE	Ē 2 - M	etric °c °f	-50	-40	AVERA	-20 -4	-10 14	T TIME OF 0 32	CUTTING 10 50	& INSTALL 20 68	ATION 30	40	50
LE		ETRIC °C	-50	-40	AVERA	-20 -4	-10 14	T TIME OF	CUTTING 10 50	& INSTALL 20 68	ATION 30	40	
LE	€ 2 - M °C	°C °F	-50 -58	-40 -40	AVERA -30 -22	GE TEMPE -20 -4 EXPAN	RATURE A -10 14 SION OR C	T TIME OF  0  32	CUTTING 10 50 ON (MM/N	& INSTALL 20 68 METER)	ATION 30 86	40 104	50 122 -2.300
LE	°C -50	°C °F °F -58	-50 -58	-40 -40	-30 -22	-20 -4 EXPAN	-10 14 SION OR C	T TIME OF 0 32 ONTRACTI	CUTTING 10 50 ON (MM/N	& INSTALL 20 68 METER) -1.610	ATION 30 86	40 104 -2.070	-2.300 -2.070
LE	°C -50 -40	°C °F °F -58 -40	-50 -58 0.000 0.230	-40 -40 -0.230 0.000	-30 -22 -0.460 -0.230	-20 -4 EXPAN -0.690 -0.460	RATURE A -10 14 SION OR C -0.920 -0.690	T TIME OF 0 32 ONTRACTI -1.150 -0.920	CUTTING 10 50 ON (MM/N -1.380	& INSTALL 20 68 (ETER) -1.610 -1.380	ATION 30 86 -1.840 -1.610	40 104 -2.070 -1.840	-2.300 -2.070 -1.840
LE	°C -50 -40 -30	°C °F °F -58 -40 -22	-50 -58 0.000 0.230 0.460	-40 -40 -0.230 0.000 0.230	-0.460 -0.230 0.000	-20 -4 EXPAN -0.690 -0.460 -0.230	-10 14 SION OR C -0.920 -0.690 -0.460	T TIME OF 0 32 CONTRACTI -1.150 -0.920 -0.690	CUTTING 10 50 ON (MM/N -1.380 -1.150 -0.920	& INSTALL 20 68 METER) -1.610 -1.380 -1.150	ATION 30 86 -1.840 -1.610 -1.380	-2.070 -1.840 -1.610	-2.300 -2.070 -1.840 -1.610
LE	°C -50 -40 -30 -20	°C °F -58 -40 -22 -4	-50 -58 0.000 0.230 0.460 0.690	-40 -40 -0.230 0.000 0.230 0.460	-0.460 -0.230 0.000 0.230	-20 -4 EXPAN -0.690 -0.460 -0.230 0.000	SION OR C -0.920 -0.690 -0.460 -0.230	T TIME OF 0 32 ONTRACTI -1.150 -0.920 -0.690 -0.460	CUTTING 10 50 ON (MM/N -1.380 -1.150 -0.920 -0.690	& INSTALL 20 68 METER) -1.610 -1.380 -1.150 -0.920	ATION 30 86 -1.840 -1.610 -1.380 -1.150	-2.070 -1.840 -1.610 -1.380	-2.300 -2.070 -1.840 -1.610 -1.380
LE	°C -50 -40 -30 -20 -10	°C °F -58 -40 -22 -4 14	-50 -58 0.000 0.230 0.460 0.690 0.920	-40 -40 -0.230 0.000 0.230 0.460 0.690	-0.460 -0.230 0.000 0.230 0.460	-20 -4 EXPAN -0.690 -0.460 -0.230 0.000 0.230	SION OR C -0.920 -0.690 -0.460 -0.230 0.000	T TIME OF 0 32 ONTRACT -1.150 -0.920 -0.690 -0.460 -0.230	CUTTING 10 50 ON (MM/N -1.380 -1.150 -0.920 -0.690 -0.460	& INSTALL 20 68  METER) -1.610 -1.380 -1.150 -0.920 -0.690	ATION 30 86 -1.840 -1.610 -1.380 -1.150 -0.920	-2.070 -1.840 -1.610 -1.380 -1.150	50 122
	°C -50 -40 -30 -20 -10 0	°C °F °F -58 -40 -22 -4 14 32	-50 -58 0.000 0.230 0.460 0.690 0.920 1.150	-40 -40 -0.230 0.000 0.230 0.460 0.690 0.920	-0.460 -0.230 0.000 0.230 0.460 0.690	-20 -4 EXPAN -0.690 -0.460 -0.230 0.000 0.230 0.460	RATURE A -10 14 SION OR C -0.920 -0.690 -0.460 -0.230 0.000 0.230	T TIME OF 0 32 ONTRACTI -1.150 -0.920 -0.690 -0.460 -0.230 0.000	CUTTING 10 50 ON (MM/N -1.380 -1.150 -0.920 -0.690 -0.460 -0.230	& INSTALL 20 68 IETER) -1.610 -1.380 -1.150 -0.920 -0.690 -0.460	-1.840 -1.610 -1.380 -1.150 -0.920 -0.690	-2.070 -1.840 -1.610 -1.380 -1.150 -0.920	-2.300 -2.070 -1.840 -1.610 -1.380 -1.150 -0.920
	°C -50 -40 -30 -20 -10 0 10	°C °F °F -58 -40 -22 -4 14 32 50	-50 -58 0.000 0.230 0.460 0.690 0.920 1.150 1.380	-40 -40 -0.230 0.000 0.230 0.460 0.690 0.920 1.150	-0.460 -0.230 0.000 0.230 0.460 0.690 0.920	-20 -4 EXPAN -0.690 -0.460 -0.230 0.000 0.230 0.460 0.690	RATURE A -10 14 SION OR C -0.920 -0.690 -0.460 -0.230 0.000 0.230 0.460	T TIME OF 0 32 CONTRACTI -1.150 -0.920 -0.690 -0.460 -0.230 0.000 0.230	CUTTING 10 50 ON (MM/N -1.380 -1.150 -0.920 -0.690 -0.460 -0.230 0.000	& INSTALL 20 68 (ETER) -1.610 -1.380 -1.150 -0.920 -0.690 -0.460 -0.230	-1.840 -1.610 -1.380 -1.150 -0.920 -0.690 -0.460	-2.070 -1.840 -1.610 -1.380 -1.150 -0.920 -0.690	-2.3000 -2.0700 -1.8400 -1.6100 -1.3800 -1.1500 -0.9200 -0.6900
	°C -50 -40 -30 -20 -10 0 10 20	°C °F °F -58 -40 -22 -4 14 32 50 68	-50 -58 0.000 0.230 0.460 0.690 0.920 1.150 1.380 1.610	-40 -40 -0.230 0.000 0.230 0.460 0.690 0.920 1.150 1.380	-0.460 -0.230 0.000 0.230 0.460 0.690 0.920 1.150	-20 -4 EXPAN -0.690 -0.460 -0.230 0.000 0.230 0.460 0.690 0.920	-10 14 SION OR C -0.920 -0.690 -0.460 -0.230 0.000 0.230 0.460 0.690	-1.150 -0.920 -0.690 -0.460 -0.230 0.000 0.230 0.460	CUTTING 10 50 ON (MM/N -1.380 -1.150 -0.920 -0.690 -0.460 -0.230 0.000 0.230	& INSTALL 20 68 METER) -1.610 -1.380 -1.150 -0.920 -0.690 -0.460 -0.230 0.000	-1.840 -1.610 -1.380 -1.150 -0.920 -0.690 -0.460 -0.230	-2.070 -1.840 -1.610 -1.380 -1.150 -0.920 -0.690 -0.460	-2.300 -2.070 -1.840 -1.610 -1.380 -1.150



#### **Ultimate Pressure Tables**

TABLE 3

ALLOWABLE SPAN (FT)  ULTIMATE PRESSURE (PSF)		MAX ANCHOR SPACING FOR POSTS (IN)						
		FLOATING SYSTEM END FRAME SYSTEM			YSTEM			
		WOOD	STEEL / ALUM.	CONCRETE / MASONRY	WOOD	STEEL / ALUM.	CONCRETE / MASONRY	
4	72	15.5	6	6	6	12	6	
6	42	15.5	0	O	0	12	0	
7	24	24	12	12	12	24	12	
8	18	24	12	12	12	24	12	

#### **TABLE 4**

1X5 BEAM		MAX ANCHOR SPACING FOR POSTS (IN)					
		F	LOATING S	YSTEM	END FRAME SYSTEM		
ALLOWABLE SPAN (FT)	ULTIMATE PRESSURE (PSF)	WOOD	STEEL/ ALUM.	CONCRETE / MASONRY	WOOD	STEEL / ALUM.	CONCRETE / MASONRY
4	72	15.5	6	6	6	14	6
6	36	21	8	8	8	20	8
7	18	24	14	14	14	24	12

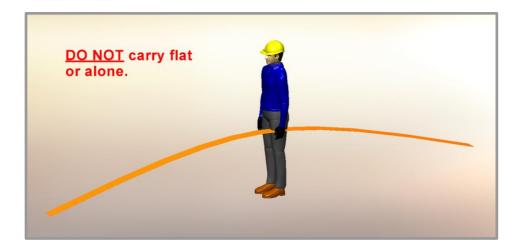


## **Proper Handling of Longboard Products**

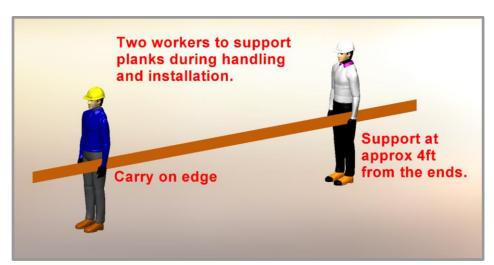


To help avoid injury and product damage, Longboard products require proper handling to and from storage areas during installation. When carrying or installing any products it is recommended that they be moved or carried by at least two people with each support point approximately 4ft from the ends. Carrying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









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



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

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