

# L&L DIMENSIONAL

Woodgrains, Solid, Specialty Custom Solid Color Matching - (Additional lead times apply)



2" Link & Lock





4" Link & Lock



6" Link & Lock



8" Link & Lock

# Actual Sizes & Weights

L&L	Width	Depth	Length	Weight(lbs/ft) *per set
2"	2" (50.8mm)	1 5/8" (41.3mm)	24′	6:0
4"	4" (101.6mm)	1 5/8" (41.3mm)	24′	1.3
.,9	6" (152.4mm)	1 5/8" (41.3mm)	24′	1.6
8″	8" (203mm)	1 5/8" (41.3mm)	24′	1.9

### Key Features:

- Aesthetic look of dimensional lumber
- Ease of install (mount & snap 2 Ls together and end cap)
  - Can be installed in batten, fin or end to end orientation
- Easy to clean and no staining needed

### Physical data:

- 6063-T5 Extruded Aluminum
- 100% recyclable
- Warranty on Finish: 15 year (standard)/20 year\* (ultra) (\*10week lead time); Aluminum: 50 year

### BIM & CAD:

RVT & DWG files available, see website for details

# -&L Installation Components



### Mounting Clip:

- Injection Molded PA6 33% Glass with embedded SS
  - orientation to secure the back "L" to the substrate Used on Batten and Fin washer
- Included in order with L&L for 6' O.C. attachment
  - Additional Clips purchased separately (48 pcs/box)



### **End Mount:**

- Extruded 6063-T5 Aluminum Alloy, powder coated black
- mount for the L&L set to wrap attachment to provide a solid around and snap together Used for End-to-End
- Purchased separately

Available for 2", 4', 6" & 8" L&L



### Internal Stiffener:

Extruded 6063-T5 Aluminum Alloy (comes powder coated black)

Used for attaching the back "L"

to the substrate

the required project substrate Use the correct fastener for

Supplied by others

Zinc-plated or Stainless Steel

#12 Fastener (By others):

- & 8" L&L to allow for up to 12' Used for reinforcing the 4", 6" spans between attachment
- See Testing and Loading page for span allowance



### 1/2" Pilot Point Drill Bit:

- 1/2" Pilot Point Drill Bit
- holes for mounting the L&L Used for Drilling out the to the substrate
- See Install Guide for drilling



### Paint Pen:

- Color choices available
- Used for touch ups at the ends before installing End Caps
  - Purchased separately



## Double-sided Adhesive Tape:

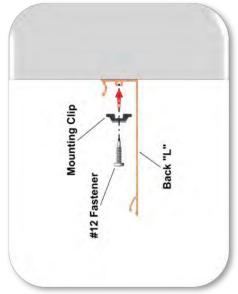
- 3M VHB Tape
- Used for attaching the Internal Stiffener to the back "L" of the L&L set
- Tape is placed in the center of the Stiffener



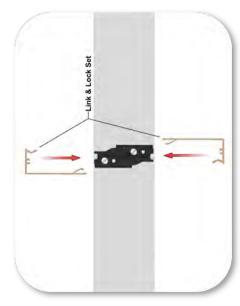
# L&L Install Images

See L&L Install Guide for details

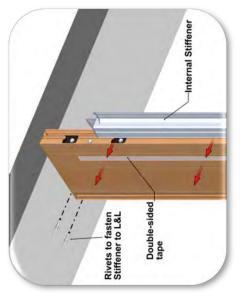
# Mounting Clip (Fin orientation)



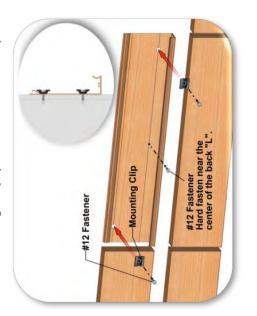
**End Mount** 



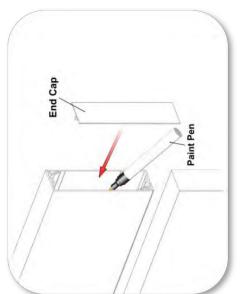
Internal Stiffener (with Double-sided Tape)



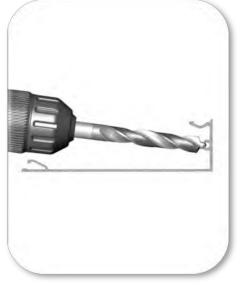
Mounting Clip (Batten orientation)

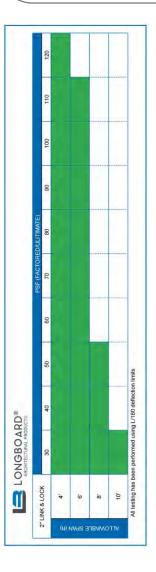


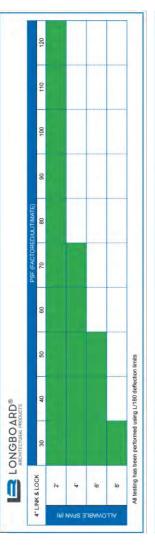
Paint Pen (for cut edges)



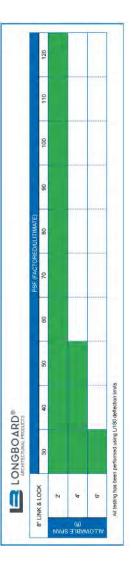
Drilling (Fin orientation)











Testing: ICC-ES Evaluation Report - Division: 05 00 00 – METALS

Section: 05 50 00 - Metal Fabrications

LARR - Los Angeles Department of Building Safety (LADBS) accepts ICC-ES reports as proof of compliance International Building Code (IBC). International Residential Code (IRC) California Building Code (CBC), California Residential Code (CRC)

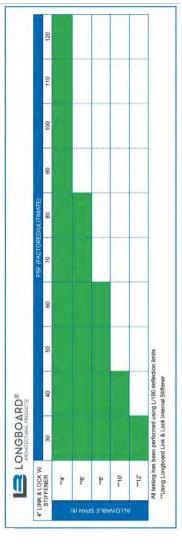
City of Los Angeles Building Code (LABC) City of Los Angeles Residential Code (LARC)

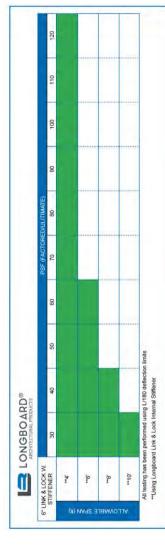
Fire Rating: Class A Non-Combustible by ASTM E136 & ASTM E84 Florida Building Code - Building, Florida Building Code - Residential

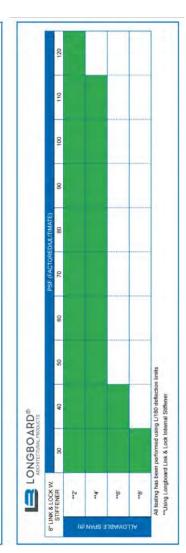
-ेंक्- Light Reflectance: 5% (Black) up to 73.2% (Ultra White)

Longboardproducts.com

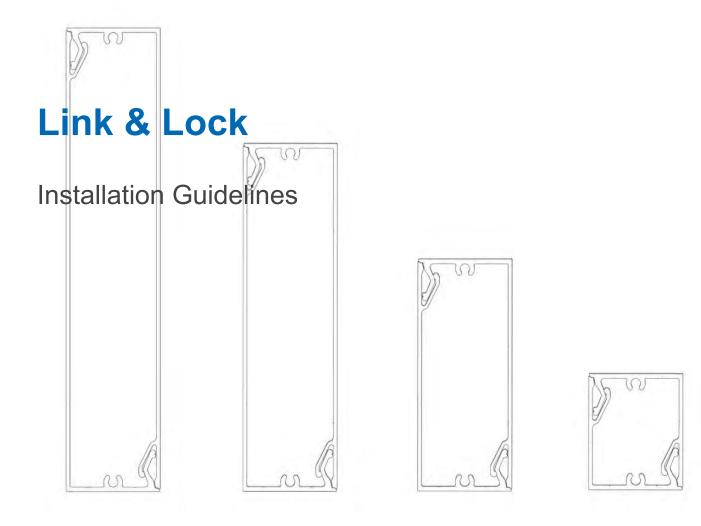
# L&L Allowable Spans with Stiffener













### **Table of Contents**

Material Specifications	3
Finishes	3
Expansion and contraction	3
Material ordering and deliveries	3
Storage and handling	3
Cleaning	3
Warranty	3
Components	4
Components (Typical)	4
Tools/Cutting/Fastening	5
Tools	5
Cutting	5
Fastening	6
Fastener types	6
Framing requirements	7
System Install	8
Install techniques/tips/details	8
Typical dimensions	8
Butt-Joints	9
System layout and Install steps	10
Perimeter and field area	limitations 10
Preparation drilling for In	stall 11
Batten orientation	12-13
Fin orientation	14
End to End orientation	15-16
Large spans with Stiffene	er 17-19
Appendix	20
Tables - Expansion & contraction	20
Tables - Allowable Attachment Sp	an 21-22
Handling and care of products	23
Contact Info	24



### Material Specifications

### **Finishes**

- Longboard Products are available in a wide range of woodgrains and solid colors
- Custom solid colors are available upon request

All Longboard 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**

Link & Lock 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, Link & Lock Fins/Louvers/Battens should be installed with staggered butt-joints, leaving a 1/4" (6mm) min. gap, every 24' (7.3m) min.

Alternatively, staggered lap-joints are an option for a continuous appearance, however 1/4" (6mm) gaps should be left at each joint to allow for thermal movement. Be sure to lap joints by 2' (610mm) minimum over the back "L". See **Appendix for Tables 1 & 2**, expansion/contraction calculations per foot/meter of material.

### **Material Ordering & Delivery**

•	Packaging:	Link & Lock is sold by the set (pair) and in widths of 2", 4", 6", 8" End caps are sold by the box: 20 caps/bx End Mounts are sold by the box: 20 mounts/bx Stiffener is sold in 24' lengths (includes Double-sided Tape)
•	Shipping:	Lead time is 3-6 business days* + shipping (*subject to change), 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**

While Longboard finishes require zero maintenance, we do recommend periodic cleaning to keep the product looking its best. Our finish is tested to withstand corrosion, fading and normal wear, however, neglect and rough conditions could have negative effects on the surface finish. Your Longboard products should be cleaned immediately after installation. See the cleaning guide for our suggestions based on soil level. Basic methods use a combination of moderate water pressure, soft sponge/brush, and a mild detergent.

See Cleaning Guide for full requirements: longboardproducts.com

№ 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.

Always follow the product instructions for dilution. Cleaning the surface with a cleanser that is not diluted may result in damage to the coating.

### Warranty

Upon substantial completion of the project, register for warranty online here: <u>longboardproducts.com/warranty</u>

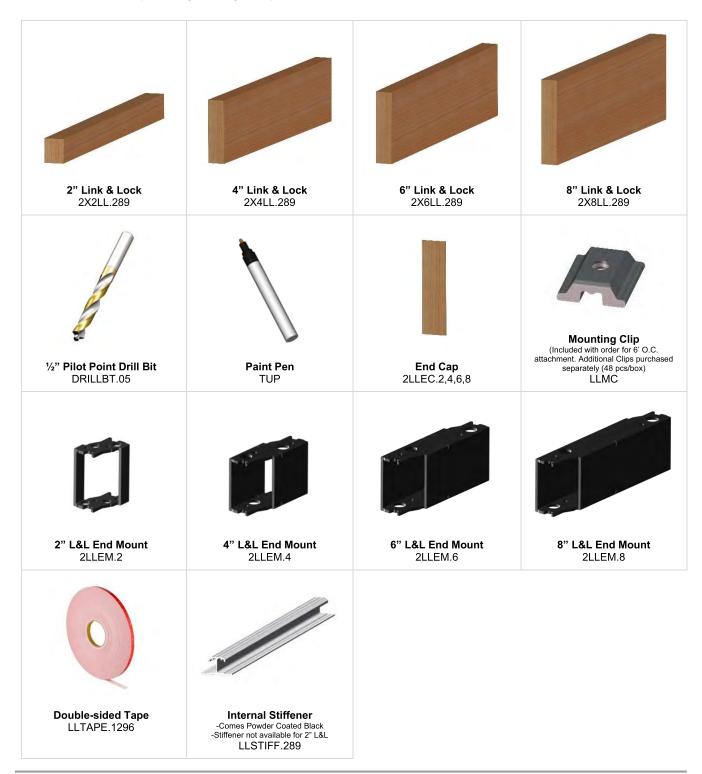
A Registration is required for the warranty to be in effect.

Link & Lock Installation Guide 3

### Components

### **Components (Typical)**

The Link & Lock system consists of two (2) matching L-shaped extrusions, snapped together to make a complete set. For all LB components go to <u>longboardproducts.com</u>.

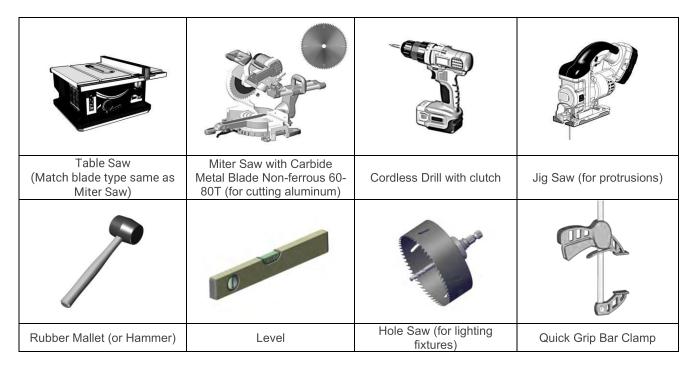




### **Tools/Cutting/Fastening**

### Tools

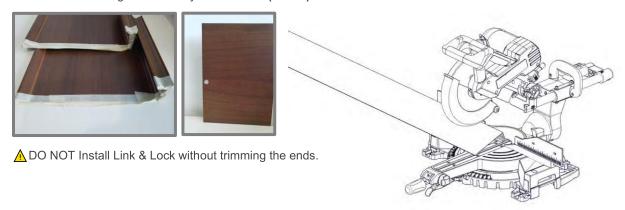
Commonly used tools for Link & Lock install.



### 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 Link & Lock consists of two (2) matching L-shaped extrusions, snapped together to make a complete set. The back "L" is mechanically fastened to the substrate, using Longboard Mounting Clips fastened every 6-8' O.C. up to 12ft when using Stiffeners with #12 sharp-point screws (for wood substrates) or self-drilling (for metal substrates). The Mounting Clips are included in the order for 6' spacings.

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.

Layout and predrill the back "L" at all fastener locations.

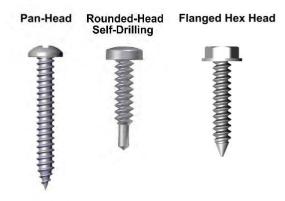
Refer to Preparation drilling for Install for hole dimensions and further details.

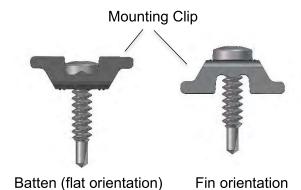
**▲** See Appendix for project specific fastener spacing:

Allowable Span - Tables 3-9

### **Fastener types**

### **RECOMMENDED**





Fastener Types for End Mounts						
End Mount	Hex Head					
2"	#10					
4"	#12	#12				
6"	#12	#12				
8"	#12	#12				





### Framing requirements

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

### **Wood Framing**

• Size: 2x4 minimum

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

### **Metal Framing**

Gauge: 18 ga. minimumSpacing: 16" (406mm) O.C.

### Concrete/CMU

Wood or metal furring is recommended over concrete and CMU.

### 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

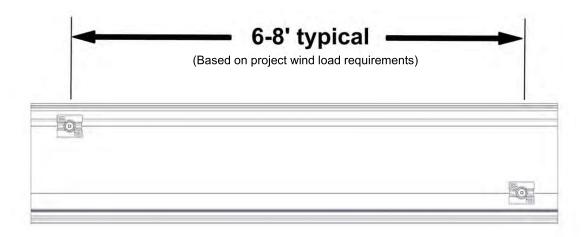
### Install techniques/tips/details

### Typical dimensions

• Longboard Link & Lock system typical dimensions:

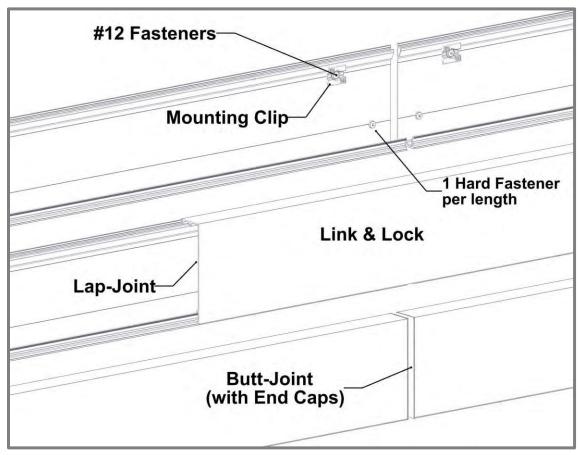
L&L Width		Depth	Length	Weight(lbs/ft) *per set	
2"	2" (50.8mm)	1 5/8" (41.3mm)	24'	0.93	
4"	4" (101.6mm)	1 5/8" (41.3mm)	24'	1.3	
6"	6" (152.4mm)	1 5/8" (41.3mm)	24'	1.6	
8"	8" (203mm)	1 5/8" (41.3mm)	24'	1.9	

- Longboard Products are not recommended for use on marine applications in direct contact with salt water.
- Link & Lock is an open-joint system which is required to be installed outboard of a weather resistant barrier, including all flashings, following code, and building requirements.
- It is good practice to leave a 1/4" (6mm) gap between every component joint or 24' (7.3m) to allow for expansion & contraction. Consider the joints where components meet each other to dictate which component is installed first (eg: right angle butt joints, mitered joints etc.).
- Mounting Clips allow for movement of the battens, to expand & contract during thermal changes.
- Fasten Mounting Clips every 6-8' typical (based on project wind load requirements), alternating from top to bottom for battens using die lines for guides.





- ◆ BUTT-JOINTS. When installing butt-joints, ensure to leave a 1/4" (6mm) min. gap. every 24' (7.3m) min. (See Detail A). Fasteners should be anchored into a solid secure framing member, blocking, furring strip, or backer plate, etc.
- LAP-JOINTS. When installing lap-joints, ensure to leave a 1/4" (6mm) min. gap. every 24' (7.3m) min. (See Detail A). Fasteners should be anchored into a solid secure framing member, blocking, furring strip, or backer plate, etc.
- If needed, use touch-up paint pens (purchased separately) to finish the ends at the butt-joint or lap-joint.
- It is good practice to hard-fasten each back "L" directly through the center, to keep the battens from migrating.
- DO NOT hard-fasten more than one (1) location per batten.



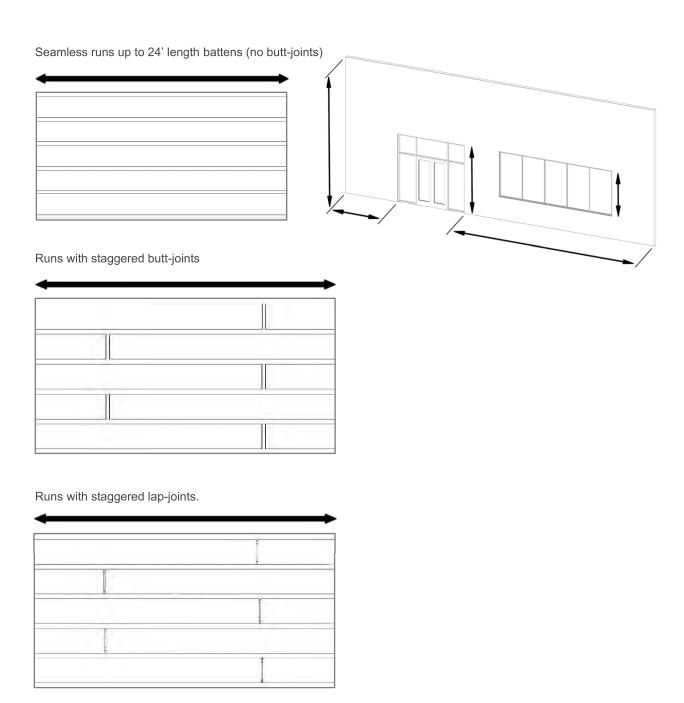
Detail A



### System layout and Install steps

### Perimeter and field area limitations

Measure and layout your wall area to consider Link & Lock alignment with fixtures, penetrations, and adjacent walls, for desired appearance. The same methodology applies for vertical installations.





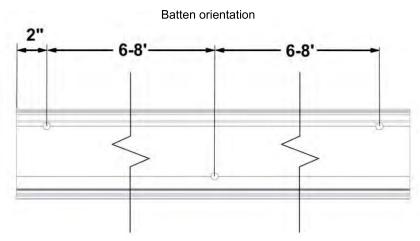
### Preparation drilling for Install

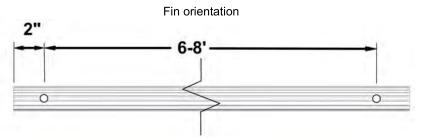
To prepare Link & Lock for install layout and predrill the back "L" with 1/2" holes every 6-8' O.C. typical, with the first hole 2" in from the end to allow space for the End Cap.

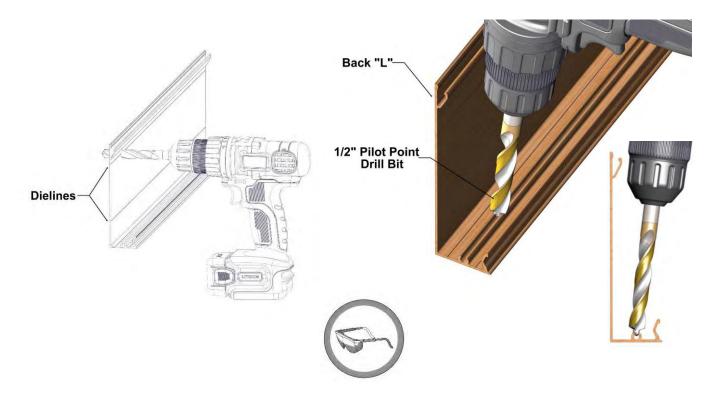
For the Batten orientation, alternate the holes from top to bottom using the Dielines for guides.

For Fin orientation, use Pilot Point Drill Bit (see below) as recommended for ease of drilling.

See Appendix for project specific fastener spacing:
Allowable Span - Tables 3-9





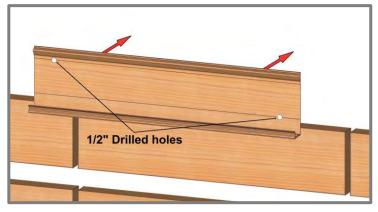




### Install Batten orientation

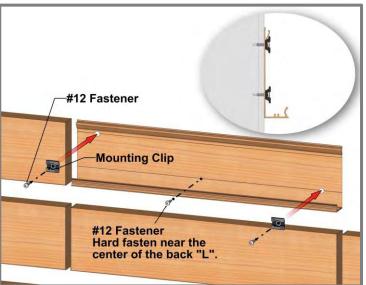
Step 1

Place predrilled Link & Lock back "L" into position (Drilling page 11). It is good practice to check your installation every 2-3 rows for level/plumb and flat/straight, for best results.



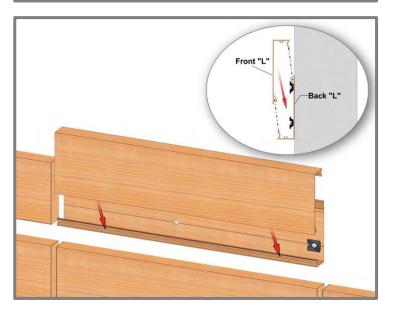
Step 2 Install back "L" using #12 Fasteners and Mounting Clips every 6-8' O.C. typical.

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.



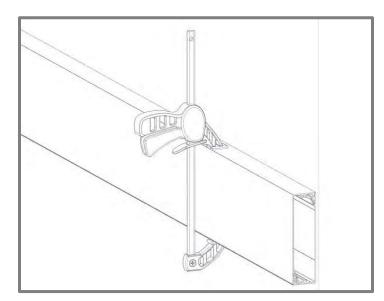
Step 3 Install front "L" and snap it into place, aligning it with ends and joints.

If necessary, use a rubber mallet or hammer and block to protect the finish.





Step 3.1 Use clamps with rubber pads as common practice to securely snap the front "L" onto the back "L".



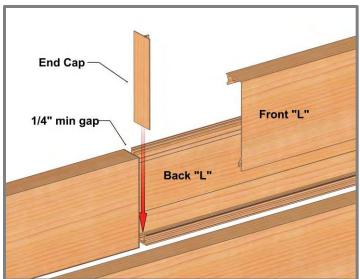
### Step 4

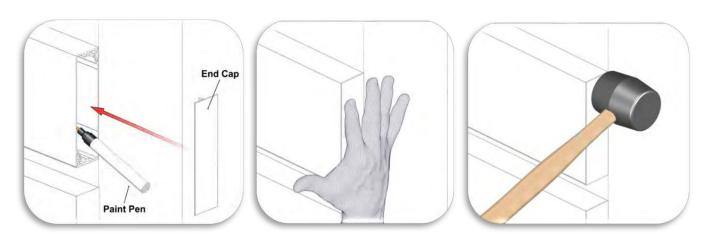
Install End Caps, which are friction fit, by pressing them into place using the palm of your hand. If necessary, use a rubber mallet to snap them into place. See below images.

Use paint pens to coat Link & Lock cut ends that may show slightly beyond the End Caps.

Consider your application sequence of the End Caps before installing adjacent Link & Lock members, as they may limit the space needed to insert the caps. In this situation you may need to install the caps first then the front "L" as seen in the image to the right.

⚠TIP: Use shim to hold/secure cap while snapping in the front "L".



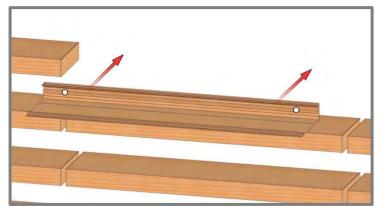




### Install Fin orientation

Step 1

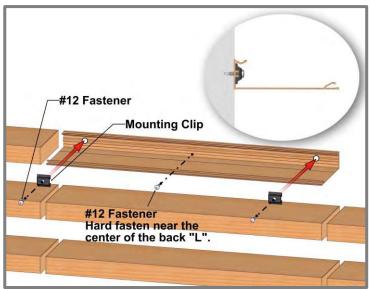
Place predrilled Link & Lock back "L" into position (Drilling page 11). It is good practice to check your installation every 2-3 rows for level/plumb and flat/straight, for best results.



Step 2

Install back "L" using #12 Fasteners and Mounting Clips every 6-8' O.C. typical.

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.



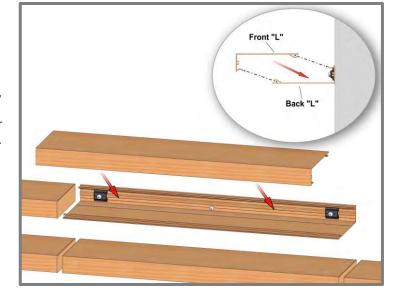
### Step 3

Install front "L" and snap it into place, aligning it with ends and joints.

If necessary, use a rubber mallet or hammer and block to protect the finish.

Step 4

Refer to Page 13 for End Cap install and considerations.





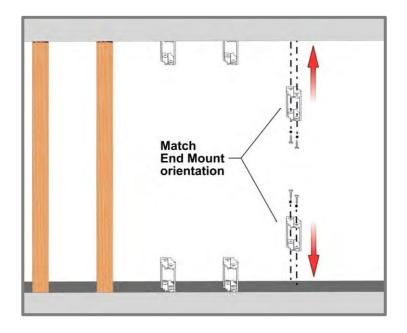
### Install End to End orientation

Note: Use Tables 3-9 in Appendix for Allowable Span for Wind Loading.

Step 1

Place End Mounts into position at the top and bottom of the install. It is good practice to check your installation every 2-3 rows for level/plumb and flat/straight, for best results.

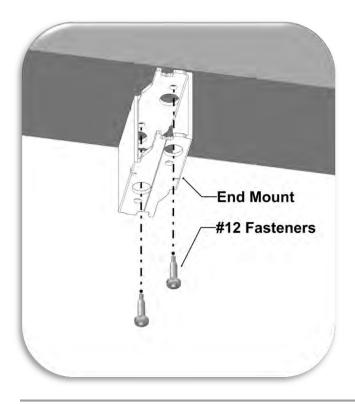
Fastener Types for End Mounts					
End Mount	Pan Head	Hex Head			
2"	#10	>			
4"	#12	#12			
6"	#12	#12			
8"	#12	#12			

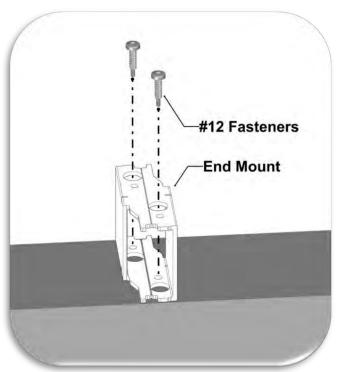


Step 2

Install the End Mounts using #12 Fasteners (#10 for 2" End Mount). Make sure to match the orientation of the End Mounts so the Link & Lock set matches on the top and the bottom. See above for **Fastener Types for End Mounts**.

▲ TIP: Check the position of the End Mounts once installed to allow a plumb and straight look.







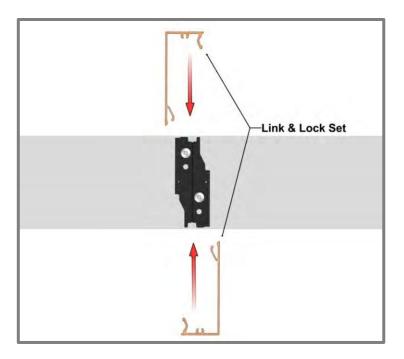
Step 3

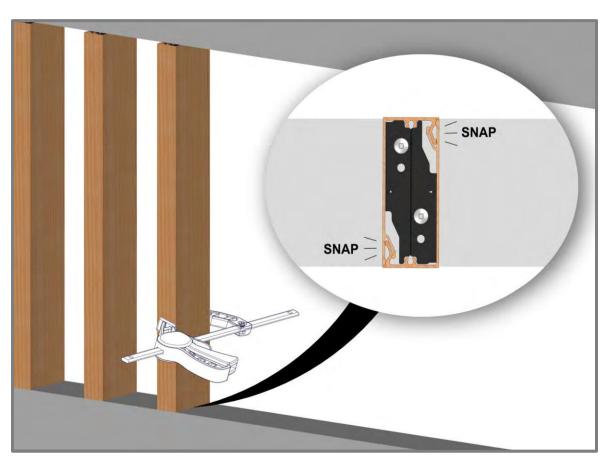
Measure, cut and install Link & Lock Set and snap it into place onto the End Mounts. Use clamps with rubber pads as common practice to securely snap the front "L" onto the back "L".

If necessary, use a rubber mallet or hammer and block to protect the finish.

▲TIP: When measuring the Link & Lock, make sure to leave a gap (~1/4") for expansion and building movement.





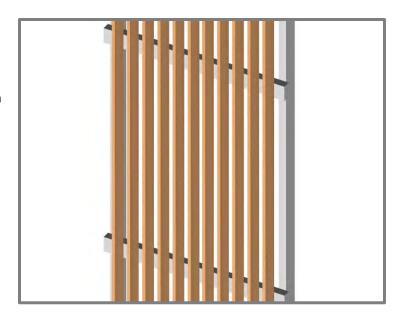




### Large spans with Internal Stiffener

- Requirements for large spans:
- Two Mounting Clips with #12 fasteners are used at both ends with a minimum distance apart of 5" O.C.
- An Internal Stiffener is added to reinforce the Link & Lock set for spans up to 12' max @30psf.
- Stiffener must be one continuous member from attachment to attachment.
- Double-sided Tape is used to place the Stiffener onto the Link & Lock.
   The tape is placed on the center of the Stiffener and then pressed onto far end of the back "L" as shown on page 18.

See Appendix for allowable spans for project specific wind load. Allowable Span - Tables 3-9

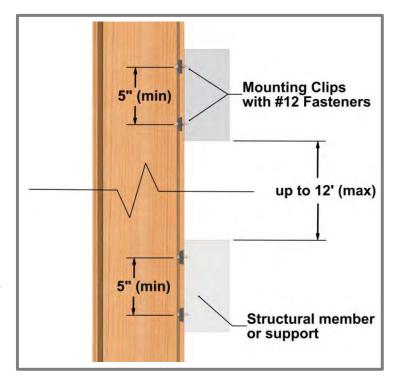


### Step 1

Place predrilled Link & Lock back "L" into position (Drilling page 11). It is good practice to check your installation every 2-3 rows for level/plumb and flat/straight, for best results.

### Step 2 Install back "L" using #12 Fasteners and Mounting Clips at end attachment points with a minimum distance apart of 5" O.C.

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





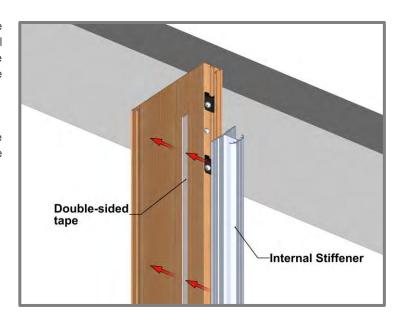
### Step 3

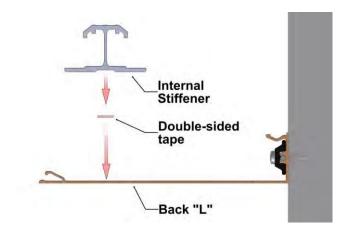
Peel and place the Double-sided tape onto the back of the Stiffener O.C. Peel the second side and install the Stiffener as shown in the image pressing down to adhere to the tape.

Note: Install Stiffener 1" (min) from the end of the L&L to allow space for the End Cap as seen below.



Make sure the Stiffener is located at the end of the back "L" and the tape is in the center of the stiffener.

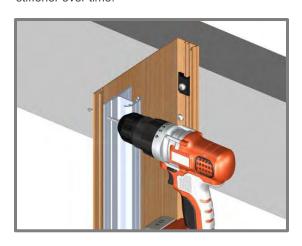


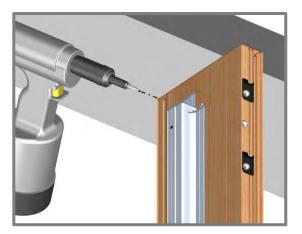


### Step 4

-Fastening Stiffener in Fin orientation

Mechanically fasten the Stiffener to the back "L" using 1/8" Dome Head Rivets (Aluminum). Drill the flange of the Stiffener using a 1/8" Drill bit and fasten two Rivets at the top or one end to mitigate movement of the stiffener over time.

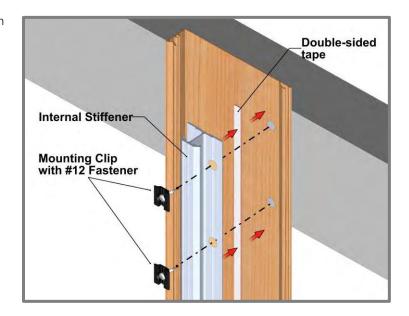






Step 4.1
-Fastening Stiffener Batten orientation
Mechanically fasten the Stiffener to
the back "L" using the Mounting Clips

and #12 Fasteners. Refer to Step 2, Page 12 for mounting.



Step 5
Refer to Step 3 & 4 on Page 12-13 for Front "L" and End Cap install and details.



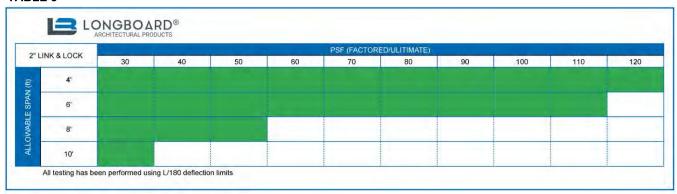
### **Appendix**

### **Expansion and Contraction Tables**

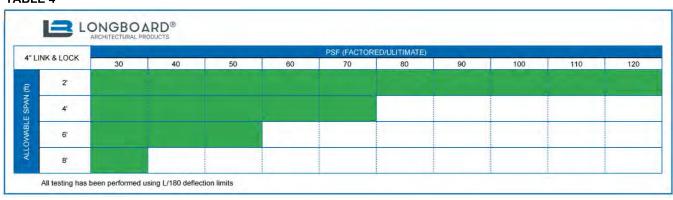
	1	1000	0.00	1000			And the last of the last of the last		100000	The same of the sa	2000	24.70
	°C	-50	-40	-30	-20	-10	0	10	20	30	40	50
	°F	-58	-40	-22	-4	14	32	50	68	86	104	122
°C	°F				EXPAN	ISION OR C	CONTRACT	ION (INCH,	FOOT)			
-50	-58	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016	-0.019	-0.022	-0.024	-0.02
-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	-0.01
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	-0.01
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	-0.00
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 - N	122 METRIC	0.027	0.024	0.022	0.019	0.016	0.014	0.011	0.008	0.005	0.003	0.000
	METRIC			AVERA	GE TEMPE	RATURE A	T TIME OF	CUTTING	& INSTALL	ATION		
	METRIC °C	-50	-40	AVERA	AGE TEMPE	RATURE A	T TIME OF	CUTTING 10	& INSTALL	ATION 30	40	50
E 2 - N	°C °F			AVERA	-20 -4	-10 14	T TIME OF	CUTTING 10 50	& INSTALL 20 68	ATION		
E 2 - N	°F	-50 -58	-40 -40	AVERA -30 -22	GE TEMPE -20 -4 EXPAN	RATURE A -10 14	T TIME OF  0  32  CONTRACT	CUTTING 10 50	& INSTALL 20 68	ATION 30 86	40 104	122
E 2 - N	°C °F °F -58	-50 -58	-40 -40	AVERA -30 -22	-20 -4 EXPAN	-10 14 ISION OR C	T TIME OF 0 32 ONTRACT	10 50 ON (MM/N	& INSTALL 20 68 METER) -1.610	ATION 30 86 -1.840	40 104 -2.070	50 122 -2.300
°C -50 -40	°C °F  °F  -58  -40	-50 -58 0.000 0.230	-40 -40 -0.230 0.000	-30 -22 -0.460 -0.230	-20 -4 EXPAN -0.690 -0.460	-10 14 SION OR 0 -0.920 -0.690	T TIME OF 0 32 ONTRACT -1.150 -0.920	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	50 122 -2.300 -2.070
°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 ISION OR C -0.920 -0.690 -0.460	32 CONTRACT -1.150 -0.920 -0.690	10 50 ON (MM/N -1,380 -1.150 -0.920	& INSTALL 20 68 /ETER) -1.610 -1.380 -1.150	30 86 -1.840 -1.610 -1.380	-2.070 -1.840 -1.610	-2.300 -2.070 -1.840
°C -50 -40 -30 -20	°C °F  °F  -58  -40  -22  -4	-50 -58 0.000 0.230 0.460 0.690	-40 -40 -0.230 0.000 0.230 0.460	-0.460 -0.230 0.000 0.230	-20 -4 EXPAN -0.690 -0.460 -0.230 0.000	-10 14 ISION OR C -0.920 -0.690 -0.460 -0.230	32 CONTRACT -1.150 -0.920 -0.690 -0.460	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	-1.840 -1.610 -1.380 -1.150	-2.070 -1.840 -1.610 -1.380	-2.300 -2.070 -1.840 -1.610
°C -50 -40 -30 -20 -10	°C °F  °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	-30 -22 -0.460 -0.230 0.000 0.230 0.460	-20 -4 EXPAN -0.690 -0.460 -0.230 0.000 0.230	-10 14 SION OR C -0.920 -0.690 -0.460 -0.230 0.000	T TIME OF 0 32 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	-2.300 -2.070 -1.840 -1.610
°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 ONTRACT -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	-1.840 -1.610 -1.380 -1.150 -0.920 -0.690	-2.070 -1.840 -1.610 -1.380 -1.150 -0.920	-2.30( -2.07( -1.84( -1.61( -1.38( -1.15(
°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	-10 14 ISION OR C -0.920 -0.690 -0.460 -0.230 0.000 0.230 0.460	-1.150 -0.920 -0.460 -0.230 0.230	CUTTING 10 50 ION (MM/N -1.380 -1.150 -0.920 -0.690 -0.460 -0.230 0.000	& INSTALL 20 68 AETER) -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	-2.300 -2.070 -1.840 -1.380 -1.150 -0.920
°C -50 -40 -30 -20 -10 0 10 20	°C °F °F -58 -40 -22 -4 14 32 50 68	-50 -58 0.000 0.230 0.460 0.690 0.920 1.150 1.380 1.610	-40 -40 -0.230 0.000 0.230 0.460 0.690 0.920 1.150 1.380	-0.460 -0.230 0.000 0.230 0.460 0.690 0.920 1.150	-20 -4 EXPAN -0.690 -0.460 -0.230 0.000 0.230 0.460 0.690 0.920	-10 14 ISION OR C -0.920 -0.690 -0.460 -0.230 0.000 0.230 0.460 0.690	0 32 32 32 32 32 30 32 30 31 31 32 32 30 31 32 32 32 32 32 32 32 32 32 32 32 32 32	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  AETER) -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 -1.844 -1.610 -1.380 -1.150 -0.920 -0.690
°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	-10 14 ISION OR C -0.920 -0.690 -0.460 -0.230 0.000 0.230 0.460	-1.150 -0.920 -0.460 -0.230 0.230	CUTTING 10 50 ION (MM/N -1.380 -1.150 -0.920 -0.690 -0.460 -0.230 0.000	& INSTALL 20 68 AETER) -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	-2.300 -2.070 -1.840 -1.610



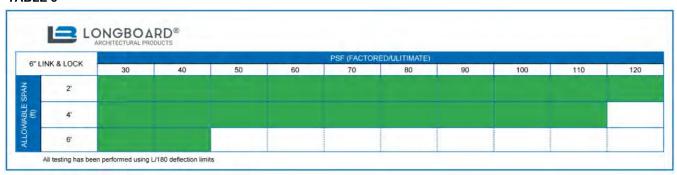
### **TABLE 3**



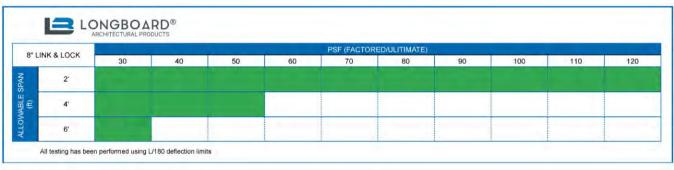
### **TABLE 4**



### **TABLE 5**

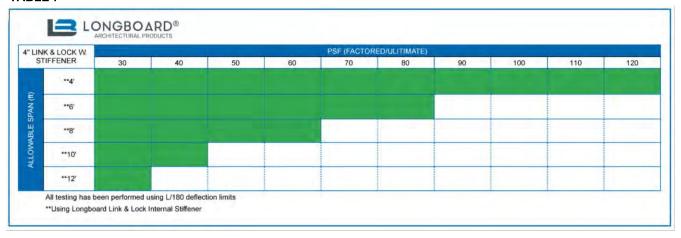


### **TABLE 6**

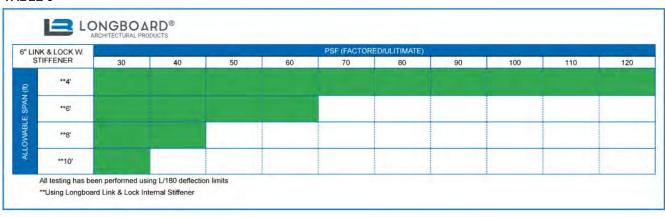




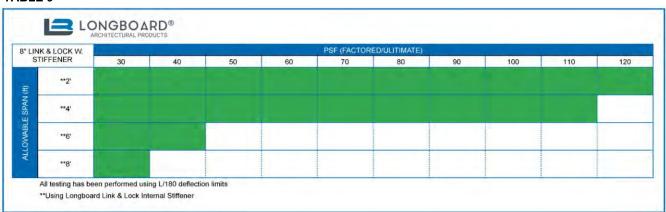
### **TABLE 7**



### **TABLE 8**



### **TABLE 9**





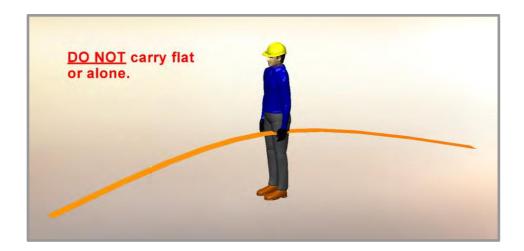
23

### **Proper Handling of Longboard Products**

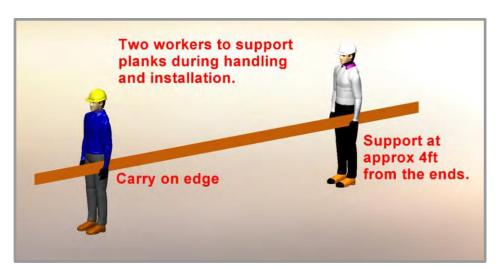


To help avoid injury and product damage, Longboard products require proper handling to and from storage areas during installation. When carrying or installing any products it is recommended that they be moved or carried by at least two people with each support point approximately 4ft from the ends. Carrying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









### 

- 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.

Link & Lock Installation Guide



Longboard Architectural Products Inc.
© Longboard Architectural Products Inc. All rights reserved.

Longboard® is a registered trademark of Longboard Architectural Products Inc.

Longboard 1777 Clearbrook Road Abbotsford, BC V2T 8X8 Canada longboardproducts.com

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.



### **Exterior Products Order Information**

### **Tongue & Groove Planks**

### **V-Groove Planks**

Size	12′ *	24′ ‡	12' Perf *	24' Perf ‡
21/2"	3V.145	3V.289	3VP.145	3VP.289
4"	4V.145	4V.289	-	-
6"	6V.145	6V.289	6VP.145	6VP.289

### **Smooth Planks**

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

### **Channel Planks**

Size	12′ *	24′ ‡
6"	6CH.145	6CH.289

### **Accessories**

Product	Qty	SKU
Quick Screen Clips	1750, box	CLIP.N1750
Quick Screen Clips	100, bag	CLIP.N100
<b>Touch Up Pens</b> Reach out to confirm color with account manager.	N/A	TUP



V-Groove Channel Planks



Planks

Traditional

Two Piece

Craftsman

Craftsman

Traditional

T&G U-Reveal

Corner



Smooth



Perforated Planks

Precision

Two-Piece



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



Precision Starter J-Track

Precision

Craftsman

Precision T&G

J-Track



Starter Strip





Back-to-Back Starter Strip





J-Track



Two Piece







Traditional



Precision





Craftsman T&G U-Reveal







Traditional Offset Flat Reveal Set, J-Track Base



Traditional

Flat Reveal Set, **Termination Base** 



Termination

Traditional Flat

Reveal Set

Craftsman Termination



Traditional Termination

Traditional Compression

Joint

### Link & Lock™ Battens

Size	12'	24'	End Caps (20/box)	End Mounts (20/box)		
2"	2X2LL.145	2X2LL.289	2LLEC.2	2LLEM.2		
4"	2X4LL.145	2X4LL.289	2LLEC.4	2LLEM.4 2LLEM.6		
6"	2X6LL.145	2X6LL.289	2LLEC.6			
8"	2X8LL.145	2X8LL.289	2LLEC.8	2LLEM.8		

Mounting Accessories	Qty	SKU
Link & Lock Mounting Clip	48, bag	LLMC.N48
Dewalt® 1/2" Pilot Point Drill Bit	1	DRILLBT.05
24' Link & Lock Internal Stiffener	1	LLSTIFF.289
3M® Double Sided Adhesive Tape - 108'	1 roll	LLTAPE 1296



### **Privacy Screen System**

Size	Product	24'	End Caps (20/box)
1x3"	Privacy Beam	1X3B.289	1BEC.3
1x5"	Privacy Beam	1X5B.289	1BEC.5
2x2"	Privacy Post	2X2SP.289	2X2PC.2
1x3"	Privacy Post	2X3DP.289	2X3PC.3

Mounting Accessories	Qty	SKU	
1x3" & 1x5" Spacer Block	100, box	2X2SB.N100	
1x3" & 1x5" Spacer Bar	1	1X2FB.145	
1x3" Spacer Bar	100, box	1X2FB.1	
1x5" Spacer Bar	100, box	1X2FB.3	
3" Privacy Screen Mounting Bracket	100, box	3PSMB.1	
#10 Black Screws	100, box	PECS.N100	



Privacy Beam

### **Finishes**

Woodgrain	15 Year Warranty	20 Year Warranty
Birchwood	15BWD	20BWD
Beechwood	15BEE	-
Blonde Oak	15BOK	-
Dark Acacia	15DAC	20DAC
Dark Antique Oak	15DOA	20DOA
Dark Bamboo	15DBB	20DBB
Dark Cherry	15DCY	20DCY
Dark Fir	15DFR	20DFR
Dark Knotty Pine	15DKP	20DKP
Dark National Walnut	15DNW	20DNW
Dark Walnut	15DWL	20DWL
Italian Rosewood	15IRW	20IRW
Light Bamboo	15LBB	20LBB
Light Cherry	15LCY	20LCY
Light Fir	15LFR	20LFR
Light National Walnut	15LNW	20LNW
Light Oak	15LOK	20LOK
National Mahogany	15NMH	20NMH
Southern Yellow Pine	15SYP	-
Table Walnut	15TWL	20TWL
Western Cedar	15WCD	20WCD
White Oak	15WOK	20WOK

Solid Color	15 Year Warranty	20 Year Warranty
Black	15BLA	20BLA
Bone White	15BWH	20BWH
Brick Red	15BRD	20BRD
Charcoal	15CHA	20CHA
Chili Pepper	15CHP	20CHP
Classic Bronze	15CBZ	20CBZ
Dark Brown	15DBR	20DBR
Graphite	15GRA	20GRA
Medium Blue	15MBL	20MBL
Slate Grey	15SGR	20SGR
Ultra White	15UWH	20UWH

Naturally Aged Metals	15 Year Warranty
Carbon Mist	15CMI
Molten	15MOL
Smokey Topaz	15STO
Toasted Mocha	15TMO

Specialty	15 Year Warranty	20 Year Warranty
Anodic Ice	15AIC	20AIC
Biscotti	15BIS	20BIS
Burnt Sienna	15BSN	20BSN
Canyon Vista	15CVI	20CVI
Ceramic Clay	15CCL	20CCL
Copper Penny	15CPE	20CPE
Moonstone	15MOO	20MOO
Old Navy	150NA	200NA
Platinum Ice	15PIC	20PIC
Venus	15VEN	20VEN

### **Example of complete product SKU**

6V.289.15DFR

(Product.Length.Finish)

# Finish Options

industrialized aged metal, we have a space that offers the warmth of Whether you're looking to create We help you achieve your vision. natural woodgrain or a modern a finish option for you.

Require a custom finish or color? Our experienced color matching team can make it a reality. Special order finishes may require additional production lead time or pricing.



### National Mahogany Chili Pepper Western Cedar Old Navy Table Walnut Slate Gray Light Oak Dark Knotty Pine Medium Blue Dark Walnut Venus •• Light National Walnut Anodic Ice Beechwood Classic Bronze Light Bamboo Dark National Walnut Southern Yellow • Pine Platinum Ice Dark Bamboo Charcoal Dark Antique Oak Moonstone • Blonde Oak Graphite Light Fir Neathered Gray Ceramic Clay •• Dark Acacia Brick Red Dark Fir Sand Drift Light Cherry Dark Brown Bone White Birchwood Woodgrains Solid Colors Italian Rosewood Dark Cherry Ultra White White Oak Black



Copper Penny ••

Burnt Sienna

Canyon Vista

Biscotti

Foasted Mocha

Smokey Topaz

Molten

Carbon Mist

Others

Naturally Aged Metals





### 15 Year Powder Coating Finish Limited Warranty for Longboard® Products 50 Year Extruded Aluminum Profiles Limited Warranty for Longboard® Products

Wai	ranty granted to (company name):	Product codes:	Product de	scription:			Contractor/ow	ner
							Project na	me
							Project addre	ess
pany	board Architectural Products Inc. ("Longboard," "The Com- ") products as identified by the Product Codes listed will form to the standards set out in Clause 1 and Clause 2 of this					Addres	Date of complet	tion
Warr	anty, subject to the terms and conditions set out in Clause 3 4 of this Warranty.	Finisi	n:				Product on jobs	site
Long	iboard expressly warrants that its product line is free from uffacturing defects in material or workmanship.  When siding is applied according to Longboard instructions and properly maintained, such product is guaranteed against the following:  Buckling: The product itself will be free of any buckling that is not associated with the substrate and/or structure to which the Longboard system is attached. For the purpose of this warranty, buckling shall be defined as warping of the product(s) exceeding one sixteenth of an inch out of plane per linear foot.  Corrosion: When applied according to Longboard instructions and properly maintained, such product is further guaranteed against rusting and corroding. Subject to the limitations set out in Clause 3 and 4.  What we will do: If, during the fifteenth (15th) year Limited Warranty Period on the powder coating finish, the Product is defective in material or workmanship, Longboard will, in its sole discretion, either repair or replace the defective portion of the Product.  What we will do: If, during the 50-year Limited Warranty Period on the aluminum extruded profiles, the Product is defective in material or workmanship, Longboard will, in its sole discretion, either repair or replace the defective portion of the Product.  After the 15th year, this Limited Warranty on the powder coated finish will expire and shall no longer be applicable.  After the 50th year, this Limited Warranty on the aluminum extruded profile(s) will expire and shall no longer be applicable.  Longboard replacement of the defective Product or reimbursement of this Limited Warranty is the exclusive remedy for the Covered Person for any defect in materials or workmanship. The Company will not refund or pay any costs in connection with labor or accessory materials.	be measur cleaned of nants, corn trol panel.  2.6 Adhesion: to test par O2 Clause 3  3.1 Warranty 1  3.2 The "Warr mean fifty and/or "property of added of corn of the inst.  3.4 Registratic in effect. Tone other-been insta.  3.7 Normal at gressive a chemical of finish is no platforms.  Clause 4  4.1 This warra 4.2 Damages processing.  4.3 Damages abrading a 4.4 Damages in processing.  4.5 The warra which is of forces, exy or other st. Company.  4.6 Customer of the inst cords includin complia stated in the Customers metal was.  4.7 Claims m days of the tained pric. The claims made by we made by we made by we for the corn of the cords.	ed on the expooling read on the expooling reads, chi- esponding values esponding values and measure. The control of the contro	or the warranties in Clause 1 shall or as long as the original "owner" ed above shall live and own the terial was originally installed. en (15) years, commencing on the cit is required for the warranty to be valid for the original purchaser and ructure where the product(s) have additions exclude corrosive or aguch as those contaminated with corrosive elements. The product rine use on boats, ships or offshore end or cover: etal caused by handling, shipping, tition; or metal caused by scratching or	4.92	the claim. Longboard exclusive liabilit wise, will be limited to reficompany's sole discretion. The warranty on any refinis metal supplied hereunder swarranty period applicable warranty work will be perfor selected by Longboard. Coand/or repainted product at of a defect. This warranty represents parties in relation to its sub previous agreement wheth parties in relation to its sub previous agreement wheth parties in relation to its sub previous agreement wheth parties in relation to its sub previous agreement wheth parties in relation to its sub previous agreement wheth parties in relation to its sub previous agreement wheth parties in relation to its sub previous agreement wheth parties in relation to its sub previous agreement wheth parties in sauthorized to mranty on behalf of Longboa above, and any such stater Company. Except as expremakes no warranty of any kindhout limitation, any implifithmest for a particular purportion of the limited warranty, vided under applicable loc give you specific legal righrights which vary from area Nothing in this warranty shithmed workmanship of any in board any liability for unsatifaulty workmanship in instality agreed all parties involved in the supplication will try in good by mediation will try in good by mediation will try in good by mediation administere. Association (Construction as a prelude to mandatory ing arbitration is to be conconstruction Industry Arb Arbitration Association. Bo share equally in the costs of and that such binding arbitremedial action.  Required Maintenance. Osponge or cloth, water an soap with the pH range of area of dirt, grim and other ouse of harsh detergents or include in your maintenantime, specific products use	nall be construed as a warran staller or as imposing on L isfactory performance cause allation. Ived that all claims and dispitate that cannot be settled through the control of the contr	there is the string of the str
	I have read and agree to the terms of the Longle powder coated surface and 50 year aluminu warranty and acknowledge receipt of a copy of the	ım extruded pro	ofile(s)	Duly authorized on beha	lf of Lo	ngboard:		
	Name of owner or contractor:	Date:		Name and designation:		Date	e:	
	Signature:			Signature:				



### 20 Year Powder Coating Finish Limited Warranty for Longboard® Products 50 Year Extruded Aluminum Profiles Limited Warranty for Longboard® Products

Wai	ranty granted to (company name):	Prod	uct codes:	Product des	cription:				Contractor/ov	wner
									Project n	ame
									Project add	Iress
pany	board Architectural Products Inc. ("Longboard," "The Com- ") products as identified by the Product Codes listed will						ı	Address 2	Date of comple	etion
Warr	orm to the standards set out in Clause 1 and Clause 2 of this anty, subject to the terms and conditions set out in Clause 3 4 of this Warranty.		Finish	:					Product on job	osite
Long	iboard expressly warrants that its product line is free from ufacturing defects in material or workmanship.  When siding is applied according to Longboard instructions and properly maintained, such product is guaranted against the following:  Buckling: The product itself will be free of any buckling that is not associated with the substrate and/or structure to which the Longboard system is attached. For the purpose of this warranty, buckling shall be defined as warping of the product(s) exceeding one sixteenth of an inch out of plane per linear foot.  Corrosion: When applied according to Longboard instructions and properly maintained, such product is further guaranteed against rusting and corroding. Subject to the limitations set out in Clause 3 and 4.  What we will do: If, during the twenty (20) year Limited Warranty Period on the powder coating finish, the Product is defective in material or workmanship, Longboard will, in its sole discretion, either repair or replace the defective portion of the Product.  What we will do: If, during the 50-year Limited Warranty Period on the aluminum extruded profiles, the Product is defective in material or workmanship, Longboard will, in its sole discretion, either repair or replace the defective portion of the Product.  After the 20th year, this Limited Warranty on the powder coated finish will expire and shall no longer be applicable.  After the 50th year, this Limited Warranty on the aluminum extruded profile(s) will expire and shall no longer be applicable.  Longboard replacement of the defective Product or reimbursement of this Limited Warranty is the exclusive remedy for the Covered Person for any defect in materials or workmanship. The Company will not refund or pay any costs in connection with labor or accessory materials.	2.6  Claus: 3.1 3.2 3.3 3.4 3.7  Claus: 4.1 4.2 4.3 4.4 4.5 4.6	be measure cleaned of inants, corretrol panel. Adhesion: It to test paned of the tes	ad on the exposibility of the coated measure of the street of the street of the street of the coated measure of the street o	the warranties in Clause 1 shall or as long as the original "owner" id above shall live and own the erial was originally installed. by (20) years, commencing on the start is required for the warranty to be alid for the original purchaser and acture where the product(s) have ditions exclude corrosive or agach as those contaminated with prosive elements. The Aluminate or marine use on boats, ships or and or cover: teal caused by handling, shipping, ion; or metal caused by scratching or	4.91 4.92 4.93	the claim. Longboard exclusives, will be limited. Company's sole did The warranty on an metal supplied here warranty period app warranty work will be selected by Longboand/or repainted profit a defect. This warranty reproparties in relation to the products coven be in the products coven be in the products coven be instituted in the products and the product	ve liability und to refinishing scretion, the yrefinished, eunder shall plicable to the performed oard. Color voduct and or resents the oits subject of the work of the subject of the work of the subject of the work of the	e construed as a warra er or as imposing on tory performance causon. that all claims and discannot be settled the hotofirst settle the dot the American Arbit stry Mediation Proceeding arbitration. Such ed and administered I ion Rules of the Ameller and purchaser aght mediation and arbit on will be the sole and administered I ion Rules of the Ameller and purchaser aght mediation and arbit on will be the sole and an annual basis uses ill detergent, non-abto clean the powder of is. Pressure washing a micals is not recomme ecords the following: ame of maintenance panance company nam	other- ot
	I have read and agree to the terms of the Longk powder coated surface and 50 year aluminu warranty and acknowledge receipt of a copy of the	ım ext	ruded pro	file(s)	Duly authorized on beha	alf of Lo	ngboard:			
	Name of owner or contractor:	Date:			Name and designation:			Date:		
					<u> </u>					
	Signature:				Signature:					