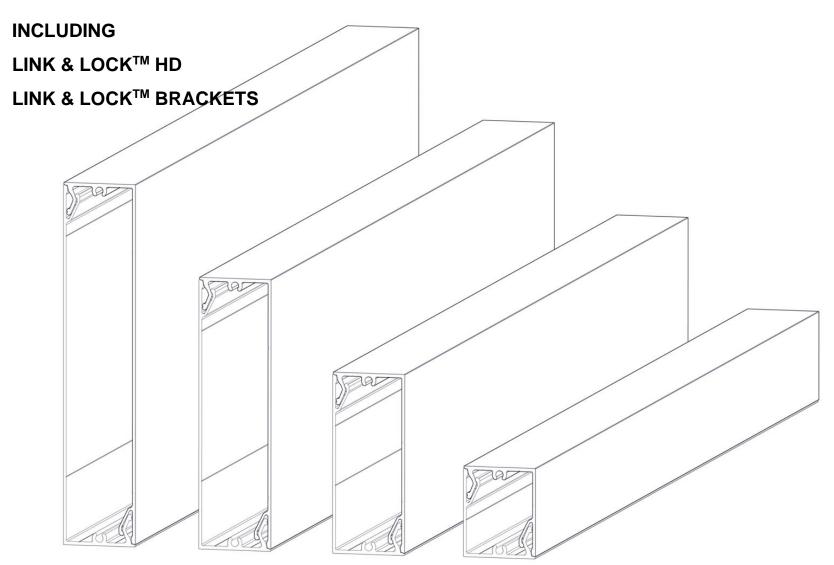


# LINK & LOCK<sup>TM</sup> INFO SHEETS



# **L&L Dimensions**

#### Finishes: 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/LF) *per set
2"	2" (50.8mm)	1 5/8" (41.3mm)	12'/24'	0.93
4"	4" (101.6mm)	1 5/8" (41.3mm)	12'/24'	1.3
6"	6" (152.4mm)	1 5/8" (41.3mm)	12'/24'	1.6
8"	8" (203mm)	1 5/8" (41.3mm)	12'/24'	1.9
4"x4"	4" (101.6mm)	4" (101.6mm)	12'/24'	1.8
4"x6"	4" (101.6mm)	6" (152.4mm)	12'/24'	2.1

#### Physical data:

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

### 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
6"	2X6LL.145	2X6LL.289	2LLEC.6	2LLEM.6
8"	2X8LL.145	2X8LL.289	2LLEC.8	2LLEM.8

Link &	Lock™	Box	<b>Battens</b>
--------	-------	-----	----------------

4 x 4"	4X4LL.145	4X4LL.289	4LLEC.4	-
4 x 6"	4X6LL.145	4X6LL.289	4LLEC.6	_

Mounting Accessories	Qty	SKU
Link & Lock Mounting Clip	48, bag	LLMC.N48
Link & Lock™ Isolation Washer	48, bag	LLIW.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



4"x4" Link & Lock



4"x6" Link & Lock

# L&L Installation Components See L&L Install Guide for details



#### **Mounting Clip:**

- Nylon with embedded SS washer
- Used on Batten and Fin orientation to secure the back "L" to the substrate
- 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
- Used for End-to-End attachment to provide a solid mount for the L&L set to wrap around and snap together
- Available for 2", 4', 6" & 8" L&L
- Purchased separately (20 pcs/box)



### #12 Fastener (By others):

- Zinc-plated or Stainless Steel
- Used for attaching the back "L" to the substrate
- Use the correct fastener for the required project substrate
- Supplied by others



#### **Isolation Washer:**

- PA6 Nylon
- Used to isolate the back "L" from the substrate
- Max. 4x to shim L&L (1/4" total)
- 1/16" thick, 1 1/2" O.D.
- Purchased separately in packages of (48 pcs/box)



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

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



#### 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



#### **Internal Stiffener:**

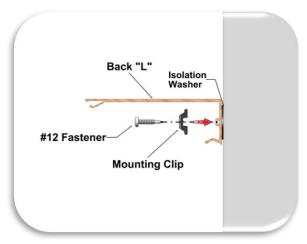
- Extruded 6063-T5 Aluminum Alloy (comes powder coated black)
- Used for reinforcing the 4", 6" & 8" L&L to allow for up to 12' spans between attachment points
- See Testing and Loading page for span allowance

L&L Install Images

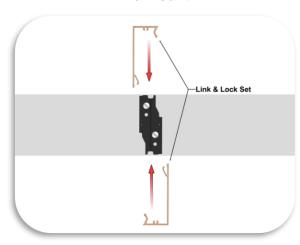
See L&L Install Guide for details

BIM & CAD: RVT & DWG files available, see website for details

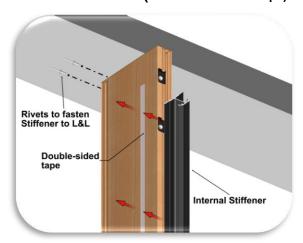
**Mounting Clip (Fin orientation)** 



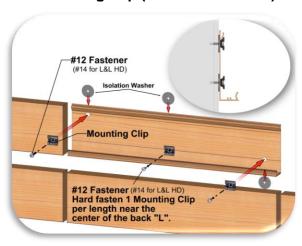
**End Mount** 



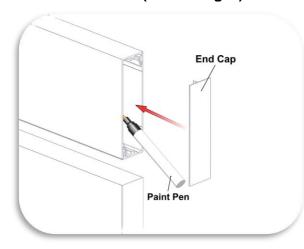
**Internal Stiffener (with Double-sided Tape)** 



**Mounting Clip (Batten orientation)** 



Paint Pen (for cut edges)



**Drilling (Fin orientation)** 



# **L&L HD Components**

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









# **Actual Sizes & Weights**

L&L	Width	Depth	Length	Weight(lbs/LF) *per set
4"	4" (101.6mm)	2" (50.8mm)	12'/24'	1.7
6"	6" (152.4mm)	2" (50.8mm)	12'/24'	2.4
8"	8" (203mm)	2" (50.8mm)	12'/24'	3

Size	12'	24'	End Caps (20/box)	End Mounts (20/box)
4"	2X4LLHD.145	2X4LLHD.289	2LLHDEC.4	2LLHDEM.4
6"	2X6LLHD.145	2X6LLHD.289	2LLHDEC.6	2LLHDEM.6
8"	2X8LLHD.145	2X8LLHD.289	2LLHDEC.8	2LLHDEM.8

Mounting Accessories	Qty	SKU
Link & Lock Mounting Clip	48, bag	LLMC.N48
Link & Lock™ Isolation Washer	48, bag	LLIW.N48
Dewalt® 1/2" Pilot Point Drill Bit	1	DRILLBT.05

#### 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 to** be available

#### **Mounting Clip:**



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



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

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

#### **Isolation Washer:**





- Used to isolate the back "L" from the substrate
- Max. 4x to shim L&L (1/4" total)
- 1/16" thick. 1 1/2" O.D.
- Purchased separately in packages of (48 pcs/box)

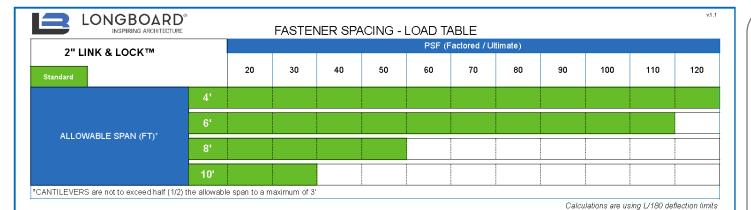


#### #14 Fastener

#### -Eng. & Load Dependent (By others):

- Zinc-plated or Stainless Steel
- Used for attaching the back "L" to the substrate
- Use the correct fastener for the required project substrate
- Supplied by others

# L&L Testing Data and Allowable Spans See L&L Install Guide for details



SUBSTRATE TYPE	SUBSTRATE REQUIREMENTS	ANCHOR DESCRIPTION	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD	Min. specific gravity = 0.55 wood	#12 Pan Head Wood Screw	1-1/2"	1"
STEEL	Min. 18 ga., Min. Fy=33 ksi.	#12 Self-Drilling or Self-Tapping Screw	3 threads penetration past	1/2"
ALUMINUM	Min. 1/8", Min. 6063-T5	(Grade 5)	metal structure	172
CONCRETE	Min. 3000 psi	3/16" ITWTapcon	1-1/2"	1-3/4"
		JA TO TTANTAPCOTT		

HOLLOW/GROUT-FILLED CMU

1. This product has been designed and manufactured to comply with the current Florida Building Code (FBC), INCLUDING HVHZ and has been evaluated according to the following:

Conforms to ASTM C-90, with Min. compressive strength of 2000 psi

- Section 1709.8
- 2. Adequacy of the structural concrete/masonry and 2X framing as a main wind force resisting system capable of withstanding and transferring applied product loads to the foundation is the responsibility of the engineer or
- 3. Substrate shall be designed and anchored to properly transfer all loads to the structure. Buck design and installation is the responsibilty of the engineer or architect of record for the project of installation.
- 4. The installation details described herein are generic and may not reflect actual conditions for a specific site. If site conditions cause installation to deviate from the requirements detailed herein, a licensed engineer or architect
- 5. Link & Lock is not designed to be a life-safety item. Designs of this nature are the responsibility of the engineer or architect of record.

#### INSTALLATION NOTES:

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

Testing:

ICC-ESR 4183 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

Florida Product Code: FL41842

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) Florida Building Code - Building Florida Building Code - Residential

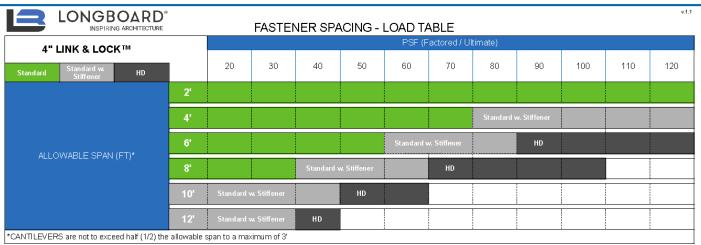


Fire Rating: Class A Non-Combustible by ASTM E136 & ASTM E84



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

Longboardproducts.com L&L\_ISP\_RL\_V18



SUBSTRATE TYPE	SUBSTRATE REQUIREMENTS	ANCHOR DESCRIPTION	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD	Min. specific gravity = 0.55 wood	#12 Pan Head Wood Screw	1-1/2"	1"
STEEL	Min. 18 ga., Min. Fy≕33 ksi.	#12 Self-Drilling or Self-Tapping Screw	3 threads penetration past	1/2"
ALUMINUM	Min. 1/8", Min. 6063-T5	(Grade 5)	metal structure	172
CONCRETE	Min. 3000 psi	3/16" ITW Tapcon	1-1/2"	1-3/4"
HOLLOW/GROUT-FILLED CMU	Conforms to ASTM C-90, with Min. compressive strength of 2000 psi	3/10 TTW Tapcon	1"	2"

#### GENERAL NOTES:

- 1. This product has been designed and manufactured to comply with the current Florida Building Code (FBC), INCLUDING HVHZ and has been evaluated according to the following:
  - Section 1709.8
  - ASTM E8-16
- 2. Adequacy of the structural concrete/masonry and 2X framing as a main wind force resisting system capable of withstanding and transferring applied product loads to the foundation is the responsibility of the engineer or architect of record for the project of installation.
- 3. Substrate shall be designed and anchored to properly transfer all loads to the structure. Buck design and installation is the responsibility of the engineer or architect of record for the project of installation.
- 4. The installation details described herein are generic and may not reflect actual conditions for a specific site. If site conditions cause installation to deviate from the requirements detailed herein, a licensed engineer or architect shall prepare site specific documents for use with this document.
- 5. Link & Lock is not designed to be a life-safety item. Designs of this nature are the responsibility of the engineer or architect of record.

#### INSTALLATION NOTES:

- 1. One (1) installation anchor is required at each location. Minimum of two (2) anchors per batten.
- 2. Spacing is from fastener center to center.
- 3. The number of installation anchors per the table is the minimum number of anchors to be used for product installation.
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- 8. Installation anchors shall be installed in accordance with anchor manufacturer's installation instructions, and anchors shall not be used in substrates with strengths less than the minimum strength specified by the anchor manufacturer.
- 9. When using end mounts, span distance is measured center to center of each end mount.

SUBSTRATE TYPE	SUBSTRATE REQUIREMENTS	ANCHOR DESCRIPTION	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD	Min. specific gravity = 0.55 wood	#12 Pan Head Wood Screw	1-1/2"	1*
STEEL	Min. 18 ga., Min. Fy=33 ksi.	#12 Self-Drilling or Self-Tapping Screw	3 threads penetration past	1/2"
ALUMINUM	Min. 1/8", Min. 6063-T5	(Grade 5)	metal structure	172
CONCRETE	Min. 3000 psi	3/16" ITW Tapcon	1-1/2"	1-3/4"
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- 4. Install individual installation anchors within a tolerance of +/- 1/2\* of the specified spacings. Tolerances are not cumulative from one installation anchor to the next.
- 5. Minimum embedment and edge distance exclude wall finishes, including but not limited to stucco, foam, brick veneer, sheathing and siding.
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- 9. When using end mounts, span distance is measured center to center of each end mount.

SUBSTRATE TYPE	SUBSTRATE REQUIREMENTS	ANCHOR DESCRIPTION	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD	Min. specific gravity = 0.55 wood	#12 Pan Head Wood Screw	1-1/2"	1"
STEEL	Min. 18 ga., Min. Fy=33 ksi.	#12 Self-Drilling or Self-Tapping Screw	3 threads penetration past	1/2"
ALUMINUM	Min. 1/8", Min. 6063-T5	(Grade 5)	metal structure	112
CONCRETE	Min. 3000 psi	3/16" ITW Tapcon	1-1/2"	1-3/4"
HOLLOW/GROUT-FILLED CMU	Conforms to ASTM C-90, with Min. compressive strength of 2000 psi			2"

#### GENERAL NOTES:

- 1. This product has been designed and manufactured to comply with the current Florida Building Code (FBC), INCLUDING HVHZ and has been evaluated according to the following:
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- 8. Installation anchors shall be installed in accordance with anchor manufacturer's installation instructions, and anchors shall not be used in substrates with strengths less than the minimum strength specified by the anchor manufacturer.
- 9. When using end mounts, span distance is measured center to center of each end mount.

SUBSTRATE TYPE	SUBSTRATE REQUIREMENTS	ANCHOR DESCRIPTION	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD	Min. specific gravity = 0.55 wood	#12 Pan Head or Flanged Hex Head Wood Screw	1-1/2"	1"
STEEL	Min. 18 ga., Min. Fy=36 ksi.	#12 Self-Drilling or Self-Tapping Screw Pan Head or Flanged Hex Head Wood	3 threads penetration past	1/2"
ALUMINUM	Min. 1/8", Min. 6063-T5	Screw (Grade 5)	metal structure	1/2
CONCRETE	Min. 3000 psi	3/16" ITW Tapcon	1-1/2"	1-3/4"
HOLLOW/GROUT-FILLED CMU	Conforms to ASTM C-90, with Min. compressive strength of 2000 psi	3/10 11W Tapcon	1"	2"

#### GENERAL NOTES:

- 1. Adequacy of the structural concrete/masonry and 2X framing as a main wind force resisting system capable of withstanding and transferring applied product loads to the foundation is the responsibility of the engineer or architect of record for the project of installation.
- 2. Substrate shall be designed and anchored to properly transfer all loads to the structure. Buck design and installation is the responsibilty of the engineer or architect of record for the project of installation.
- 3. The installation details described herein are generic and may not reflect actual conditions for a specific site. If site conditions cause installation to deviate from the requirements detailed herein, a licensed engineer or architect shall prepare site specific documents for use with this document.
- 4. Link & Lock is not designed to be a life-safety item. Designs of this nature are the responsibility of the engineer or architect of record.

#### INSTALLATION NOTES:

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- 2. Spacing is from fastener center to center.
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  - a. Zinc plated fasteners for moderate climate zones
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- 7. For hollow block and grout filled CMU block, do not install installation anchors into mortar joints. Edge distance is measured from free edge of block or edge of mortar joint into face shell of block.
- 8. Installation anchors shall be installed in accordance with anchor manufacturer's installation instructions, and anchors shall not be used in substrates with strengths less than the minimum strength specified by the anchor manufacturer.

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SUBSTRATE TYPE	SUBSTRATE REQUIREMENTS	ANCHOR DESCRIPTION	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD	Min. specific gravity = 0.55 wood	#12 Pan Head or Flanged Hex Head Wood Screw	1-1/2"	1"
STEEL	Min. 18 ga., Min. Fy=36 ksi.	#12 Self-Drilling or Self-Tapping Screw Pan Head or Flanged Hex Head Wood	3 threads penetration past	1/2"
ALUMINUM	Min. 1/8", Min. 6063-T5	Screw (Grade 5)	metal structure	112
CONCRETE	Min. 3000 psi	3/16" ITW Tapcon	1-1/2"	1-3/4"
HOLLOW/GROUT-FILLED CMU	Conforms to ASTM C-90, with Min. compressive strength of 2000 psi	3/10 11 W Tapcon	1"	2"

#### GENERAL NOTES:

- 1. Adequacy of the structural concrete/masonry and 2X framing as a main wind force resisting system capable of withstanding and transferring applied product loads to the foundation is the responsibility of the engineer or architect of record for the project of installation.
- 2. Substrate shall be designed and anchored to properly transfer all loads to the structure. Buck design and installation is the responsibility of the engineer or architect of record for the project of installation.
- 3. The installation details described herein are generic and may not reflect actual conditions for a specific site. If site conditions cause installation to deviate from the requirements detailed herein, a licensed engineer or architect shall prepare site specific documents for use with this document.
- 4. Link & Lock is not designed to be a life-safety item. Designs of this nature are the responsibility of the engineer or architect of record.

#### INSTALLATION NOTES:

- 1. One (1) installation anchor is required at each location. Minimum of two (2) anchors per batten.
- 2. Spacing is from fastener center to center.
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- 8. Installation anchors shall be installed in accordance with anchor manufacturer's installation instructions, and anchors shall not be used in substrates with strengths less than the minimum strength specified by the anchor manufacturer.

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# **L&L Bracket Components**

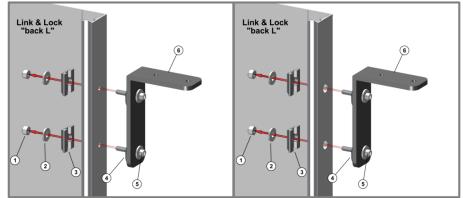
#### Single Bracket for horizontal substrate

#### Fixed Bracket (Hard fastened with 1/4" holes)

Sliding Bracket (Use 1/4" holes)

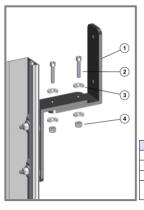
Link & Lock "back L"

Fixed Bracket (Expansion 1/2" holes)



No.	Description	Material	Qty
1	1/4" -20 Locknut	Stainless Steel Nylon-Insert	2
2	Washer, 1/4" screw size, 0.75" OD	Stainless Steel	4
3	Link & Lock Mounting Clip	Nylon w. Stainless Washer	2
4	Isolation Washer for 1/4" size	Nylon, Black	2
5	1/4" -20 Socket Head Screw, 1-1/2" length	Stainless Steel	2
6	Link & Lock Bracket -90 Center Fixed	6005A Aluminum	1

#### **Dual Bracket for vertical substrate**

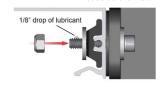




**Dual Bracket components are loosely** pre-assembled by manufacturer. Adjust if required. Once in place add lubricant and tighten to manufacturer's specifications. See below for lubricant specs.

No.	Description	Material	Qty
1	Link & Lock Dual Bracket -90 Center Fixed	6005A Aluminum	1
2	1/4" -20 Socket Head Screw, 1-1/4" length	Stainless Steel	2
3	Washer, 1/4" screw size, 0.75" OD	Stainless Steel	4
- 4	1/4" -20 Locknut	Stainless Steel	2
4	1/4 -20 LOCKNUT	Nylon-Insert	

# Add 1/8" drop of lubricant to all bolt threads before installing locknut.







Link & Lock ™ Mounting Brackets

Link & Lock™ Mounting Brackets



Product	Single	Dual
45° LEFT FIXED	LLMBK.45LF	LLDMBK.45LF
45° RIGHT FIXED	LLMBK.45RF	LLDMBK.45RF
90° CENTER FIXED	LLMBK.90F	LLDMBK.90F
45° LEFT SLIDING	LLMBK.45LS	LLDMBK.45LS
45° RIGHT SLIDING	LLMBK.45RS	LLDMBK.45RS
90° CENTER SLIDING	LLMBK.90S	LLDMBK.90S

No.	Description	Material	Qty
1	1/4" -20 Locknut	Stainless Steel Nylon-Insert	2
2	Washer, 1/4" screw size, 0.75" OD	Stainless Steel	4
3	Link & Lock Mounting Clip	Nylon w. Stainless Washer	2
4	Isolation Washer for 1/4" screw size	Nylon, Black	2
5	Plastic Washer, 1/4" screw size, 0.734 OD	Nylon, Black	2
6	1/4" -20 Socket Head Screw, 1-1/2" length	Stainless Steel	2
7	Link & Lock Bracket -90 Center Sliding	6005A Aluminum	1

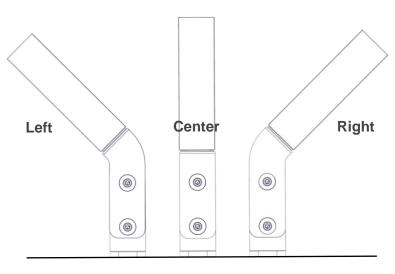
Longboardproducts.com L&L\_ISP\_RL\_V18

# **L&L Bracket Orientation Options**

Fixed options shown, sliding options are available for slab deflection or building settlement.



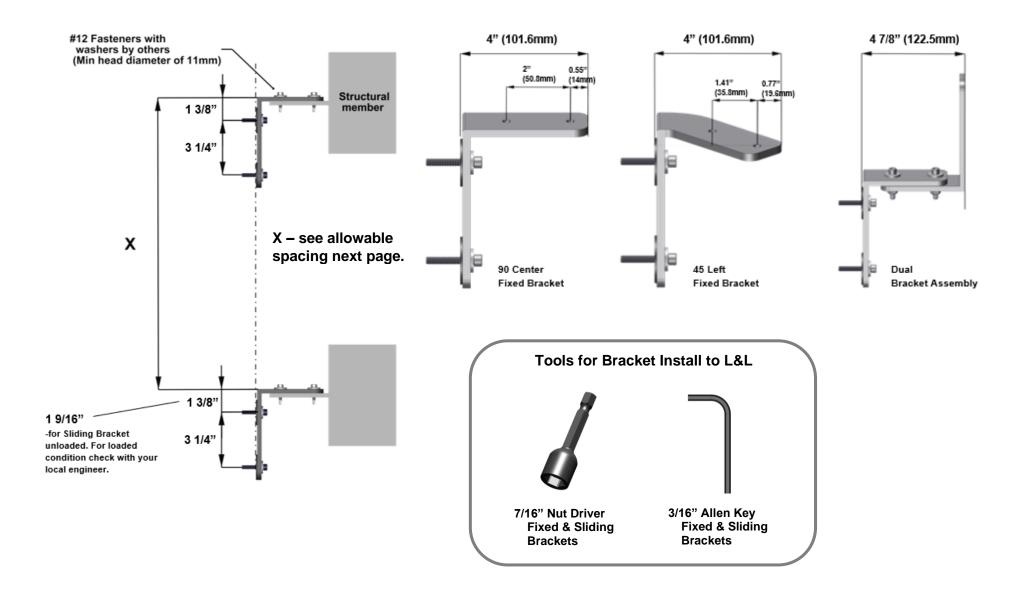






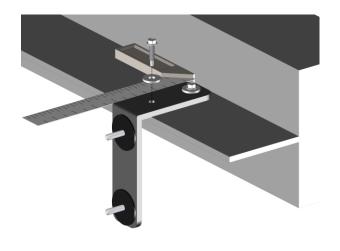
**Building/Structure** 

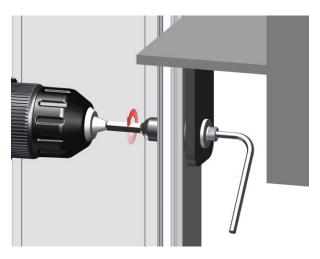
# **L&L Bracket Dimensions**

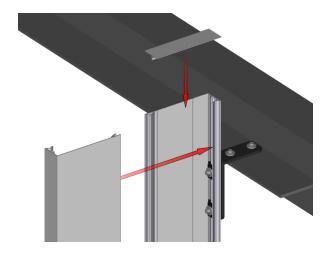


# L&L Bracket Installation, Load Data & Allowable Spacing

See L&L Install Guide for details







■ LONGBOARD°	LINK & LOCK™ BRACKET MAX. SPACING (FT)									
INSPIRING ARCHITECTURE				V	/IND LOAD PSF (	(FACTORED/ULTIN	MATE)			
LINK & LOCK™ BATTEN	30	40	50	60	70	80	90	100	110	120
1-5/8" x 2"	10'		8'		6'		4'		2'	
1-5/8" x 4"	8'		6'		4'			2'		
1-5/8" x 4" w. Internal Stiffener	12'	10'		8'		6'		4'		
1-5/8" x 6"	6'			4'			3'		2	•
1-5/8" x 6" w. Internal Stiffener	10'	8'	6'			4'		3'		2'
1-5/8" x 8"	6'	4'					2'			
1-5/8" x 8" w. Internal Stiffener	8'	6'		4'			3'		2	•
2" x 4" HD	1	12'	10'	8'		6'			4'	
2" x 6" HD	10	8'		6'		4'			3'	
2" x 8" HD	8'	6'		4'			3'		2	•

Recommended torque value for Link & Lock™ to Bracket attachment:

note 3 Fixed Bracket 1/4" -20 Socket Head Screw, 60-72 in/lbs + prevailing torque of self-locking nut

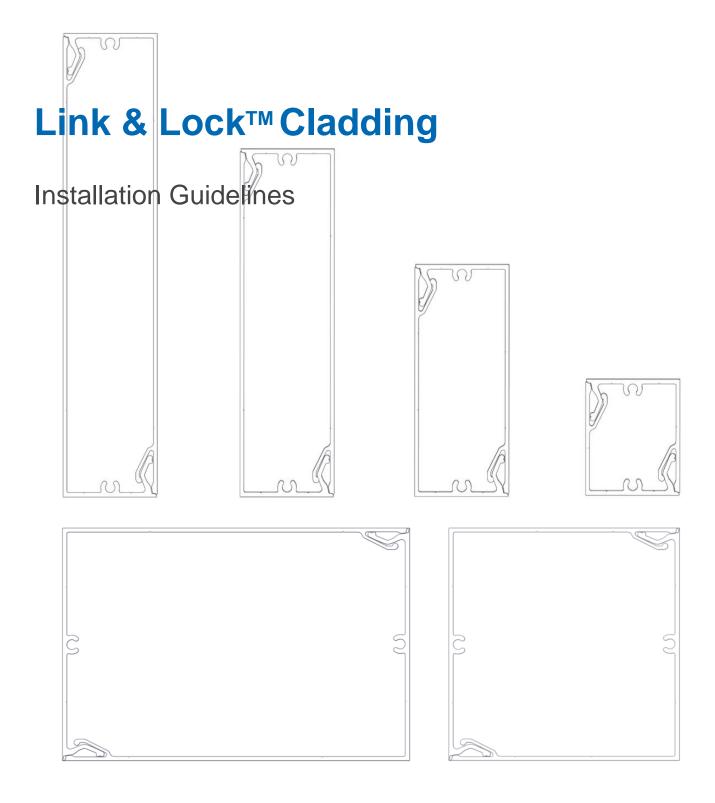
note 4 Sliding Bracket 1/4" -20 Socket Head Screw, 48-60 in/lbs + prevailing torque of self-locking nut

April 25, 2024

note 1 Factored Wind Load: max. 168 LBS/EA Bracket

note 2 Factored Dead Load: max. 29 LBS/EA Fixed Bracket







## **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
Graffiti Removal	4
Components	5
Components (Typical)	5
Tools/Cutting/Fastening	6
Tools	6
Cutting	6
Fastening	7
Fastener types	7
Framing/Furring requirements	8
System Install	9
Install details	9
Typical dimensions	9
System layout and Install steps	10
Perimeter and field area limitations	10
Cantilever limits	10
Preparation drilling for Install	11
Butt-Joints & Lap Joints	12
Batten orientation	13-14
Fin orientation	15
End to End orientation (End Mounts)	16-17
Large spans with Stiffener	18-20
Link & Lock HD	21
4x4 & 4x6 Link & Lock	22
Link & Lock Brackets	23-27
Appendix	28
Tables 1 & 2 - Expansion & contraction	28
Tables 3-9 - Allowable Attachment Span	29-34
Handling and care of products	35
Contact Info	36



#### **Material Specifications**

#### **Finishes**

- Longboard Products are available in a wide range of powder coated finishes
- Custom solid colors are available upon request

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**

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)
•	Ship/Receiving:	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:

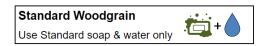
longboardproducts/resources/care-maintenance.com

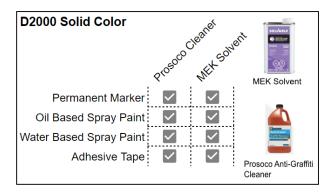
#### Warranty

Upon substantial completion of the project, register for warranty online here: <a href="longboardproducts.com/warranty">longboardproducts.com/warranty</a>
<a href="mailto:Negistration">Negistration</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 Link & Lock™ system consists of two (2) matching L-shaped extrusions, snapped together to make a complete set. For all LB components go to longboardproducts.com.

# 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		
6"	2X6LL.145	2X6LL.289	2LLEC.6	2LLEM.6		
8"	2X8LL.145	2X8LL.289	2LLEC.8	2LLEM.8		
Link &	Lock™ HD Ba	ittens				
4"	2X4LLHD.145	2X4LLHD.289	2LLHDEC.4	2LLHDEM.4		
6"	2X6LLHD.145	2X6LLHD.289	2LLHDEC.6	2LLHDEM.6		
8"	2X8LLHD.145	2X8LLHD.289	2LLHDEC.8	2LLHDEM.8		
Link & Lock™ Box Battens						
4 x 4"	4X4LL.145	4X4LL.289	4LLEC.4	-		
4 x 6"	4X6LL.145	4X6LL.289	4LLEC.6	-		



Mounting Accessories	Qty	SKU
Link & Lock Mounting Clip	48, bag	LLMC.N48
Link & Lock™ Isolation Washer	48, bag	LLIW.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



Isolation Washer









### Link & Lock™ Mounting Brackets

Product	Single	Dual
45° LEFT FIXED	LLMBK.45LF	LLDMBK.45LF
45° RIGHT FIXED	LLMBK.45RF	LLDMBK.45RF
90° CENTER FIXED	LLMBK.90F	LLDMBK.90F
45° LEFT SLIDING	LLMBK.45LS	LLDMBK.45LS
45° RIGHT SLIDING	LLMBK.45RS	LLDMBK.45RS
90° CENTER SLIDING	LLMBK.90S	LLDMBK.90S



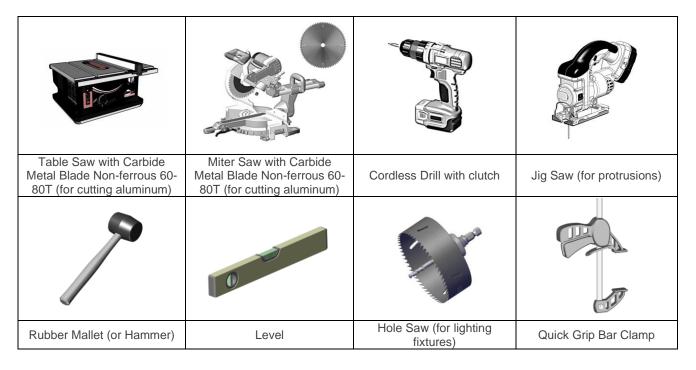
Link & Lock ™ Mounting Brackets



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

Tools

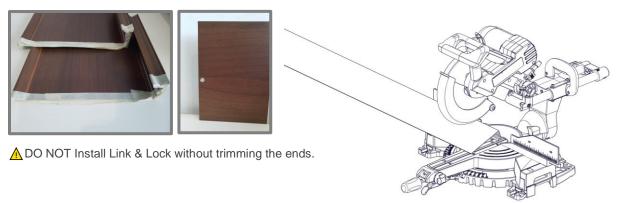
Commonly used tools for Link & Lock install.



### 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**

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

### **Typical Spacing:**

- 6 8' O.C.
- -using Mounting Clips and Isolation Washers
- -See **Appendix Tables 3-9** for project specific spacing.

Mounting Clips and Isolation Washers are included in the order for 6' spacings. Add more to the order if required for shorter spacings.

#### Fasteners:

See fastener sizes below (By others)

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

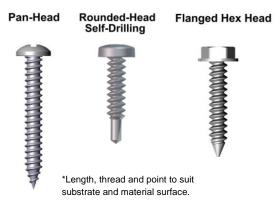
Refer to **Preparation drilling for Install** for hole dimensions and further details.

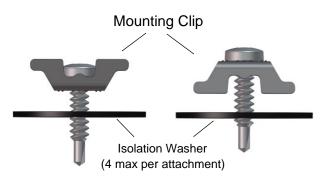
**▲** See Appendix for fastener specs: Allowable Span - Tables 3-9

Fastener Types/Sizes for L&L					
L&L	Pan Head	Hex Head			
2"	#12	#12			
4"	#12	#12			
6"	#12	#12			
8"	#12	#12			
4"x4"	#12	#12			
4"x6"	#12	#12			
4" HD	#14	#14			
6" HD	#14	#14			
8" HD	#14	#14			

#### **Fastener types**

#### **RECOMMENDED**

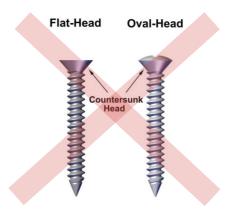




Batten (flat orientation)

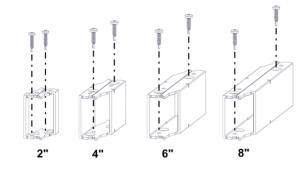
Fin orientation

#### **DO NOT USE**





Fastener Types/Sizes for End Mounts					
End Mount	Pan Head	Hex Head			
2"	#10				
4"	#12	#12			
6"	#12	#12			
8"	#12	#12			
4" HD	#14	#14			
6" HD	#14	#14			
8" HD	#14	#14			



### Framing/Furring 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.

See Appendix for framing/furring/sheathing specs: Tables 3-9



### **System Install**

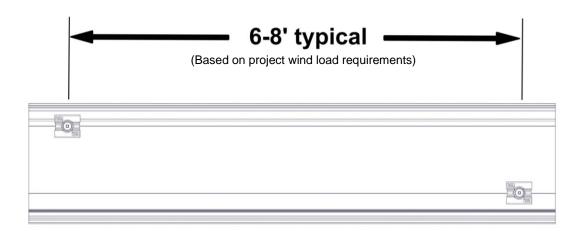
#### Install details

### Typical dimensions

• Longboard Link & Lock system typical dimensions:

L&L	Width	Depth	Length	Weight(lbs/LF) *per set
2"	2" (50.8mm)	1 5/8" (41.3mm)	12'/24'	0.93
4"	4" (101.6mm)	1 5/8" (41.3mm)	12'/24'	1.3
6"	6" (152.4mm)	1 5/8" (41.3mm)	12'/24'	1.6
8"	8" (203mm)	1 5/8" (41.3mm)	12'/24'	1.9
4"x4"	4" (101.6mm)	4" (101.6mm)	12'/24'	1.8
4"x6"	6" (152.4mm)	4" (101.6mm)	12'/24'	2.1
4" HD	4" (101.6mm)	2" (50.8mm)	12'/24'	1.7
6" HD	6" (152.4mm)	2" (50.8mm)	12'/24'	2.4
8" HD	8" (203mm)	2" (50.8mm)	12'/24'	3

- 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 and Isolation Washers 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.

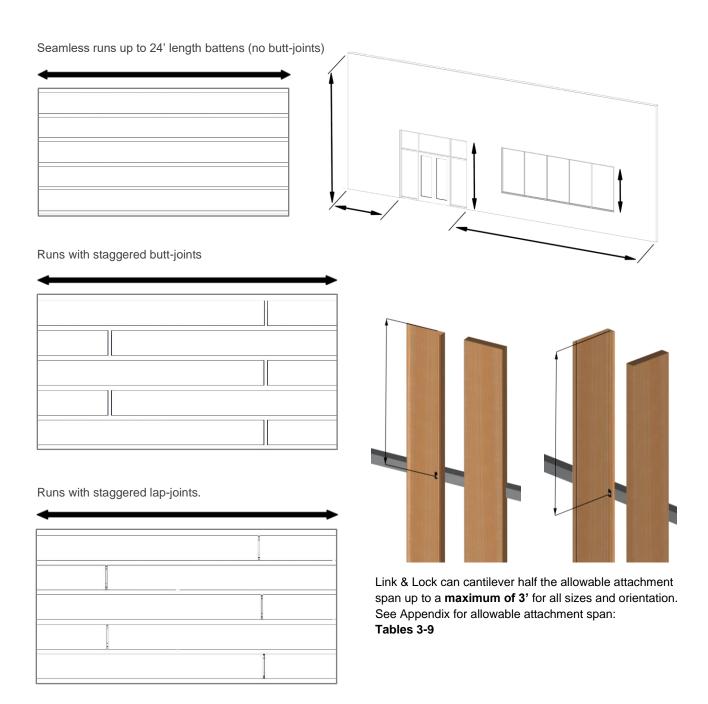




### System layout and Install steps

### 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.

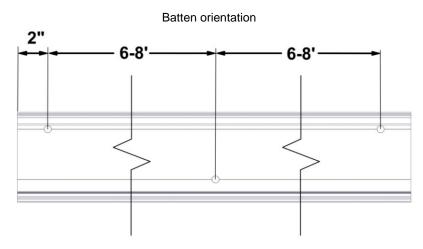
For the Batten orientation, alternate the holes from top to bottom using the Dielines for guides.

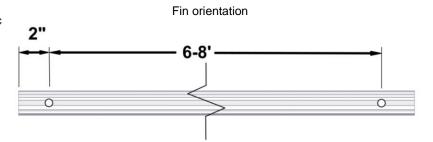
For Fin orientation, use Pilot Point Drill Bit (see below) as recommended for ease of drilling.

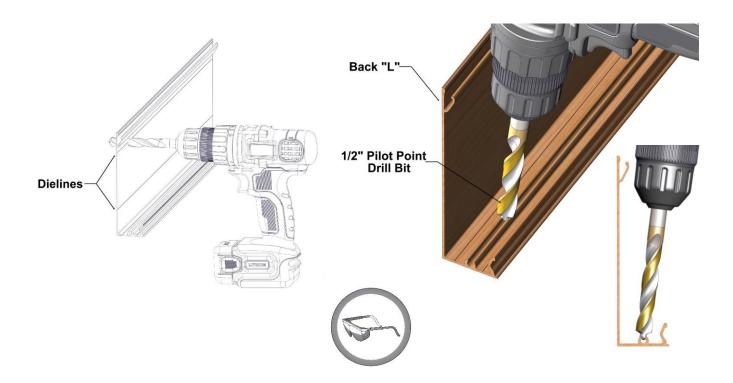
Note: To hard fasten 1 location per length, omit the drilled hole at that location and use for hard fastening.

# See Appendix for project specific fastener spacing:

Allowable Span - Tables 3-9



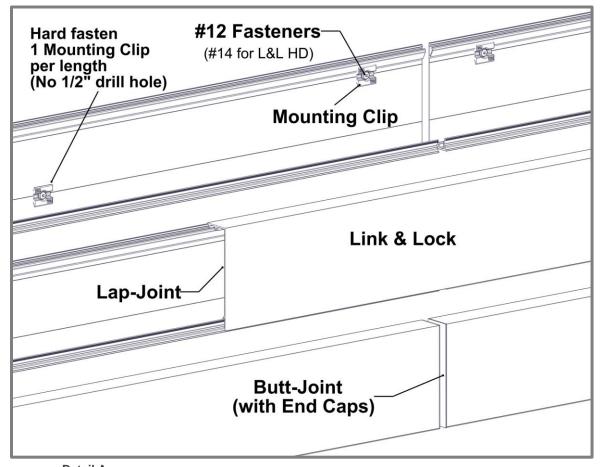






#### **Butt-Joints & Lap Joints**

- 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" at one point per length typically near the center, to keep the battens from migrating.
- DO NOT hard-fasten more than one (1) location per batten.



Detail A



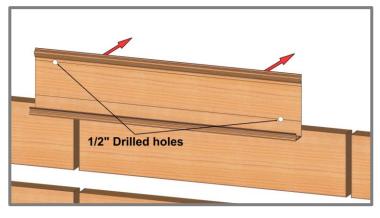
#### **Install Batten orientation**

#### 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.



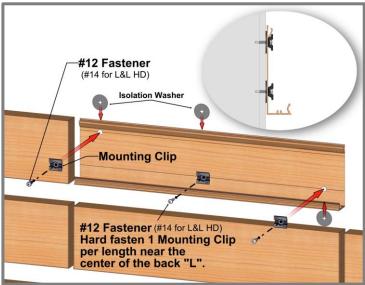
Cut off Taped/Drilled L&L ends (1/2" each end).



#### Step 2

Install back "L" using #12 Fasteners (#14 for L&L HD), Mounting Clips and Isolation Washers every 6-8' O.C. typical. Isolation Washers are installed between the L&L and the substrate (4 max per attachment).

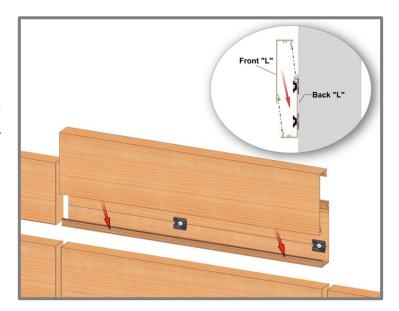
Note: Be sure to fasten in the center of the 1/2" holes to allow for movement each way. Hard fasten near the center of each length to prevent migration of the material over time.



#### Step 3

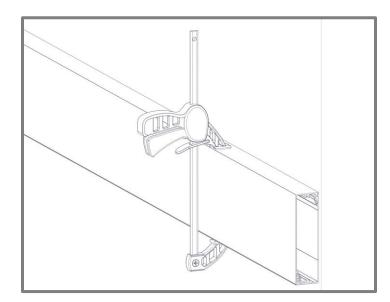
Install front "L" and snap it into place, aligning it with ends and joints.

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".



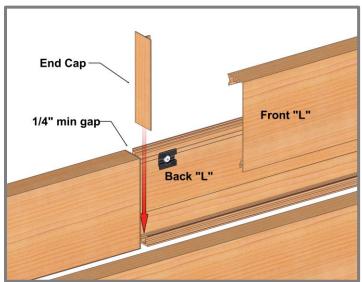
#### Step 4

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".







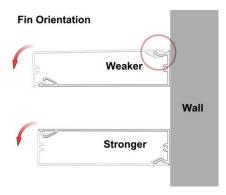
#### Install Fin orientation

#### 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.



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



### Step 2

Install back "L" using #12 Fasteners (#14 for L&L HD), Mounting Clips and Isolation Washers every 6-8' O.C. typical. Isolation Washers are installed between the L&L and the substrate (4 max per attachment).

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.

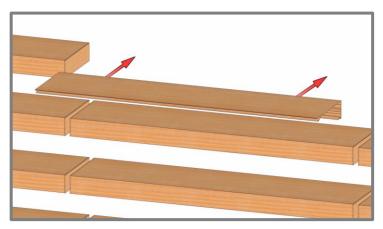
#### Step 3

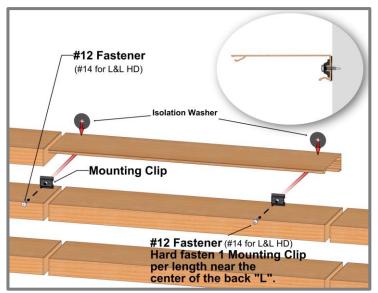
Install front "L" and snap it into place, aligning it with ends and joints.

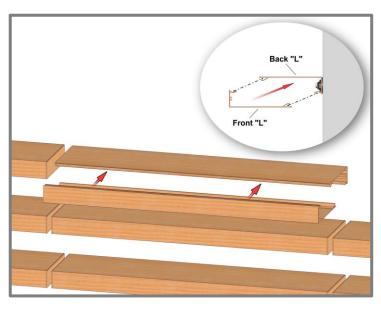
If necessary, use a rubber mallet or hammer and block to protect the finish.

#### Step 4

Refer to Page 14 for End Cap install and considerations.









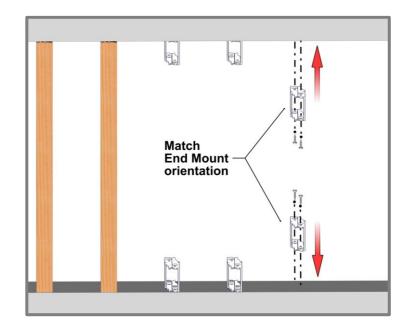
#### Install End to End orientation

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.

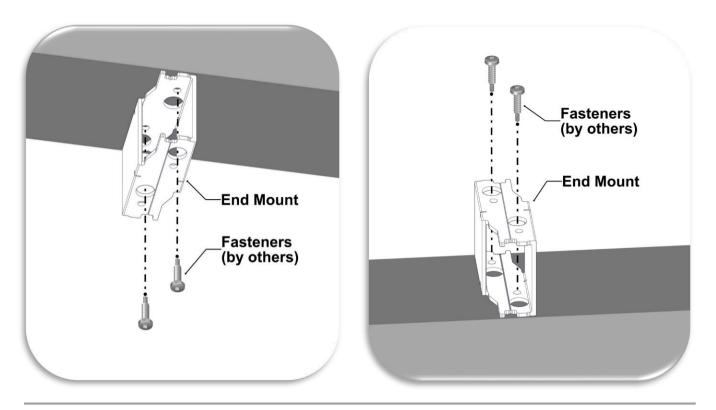
Fastener Types for End Mounts					
End Mount	Pan Head	Hex Head			
2"	#10	$\nearrow$			
4"	#12	#12			
6"	#12	#12			
8"	#12	#12			
4" HD	#14	#14			
6" HD	#14	#14			
8" HD	#14	#14			



Step 2

Install the End Mounts using Fasteners (by others). 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 and sizing for End Mounts**.

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





### Step 3

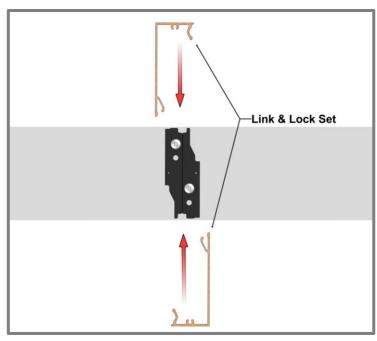
Measure, cut and install Link & Lock Set and snap it into place onto the End Mounts. Use clamps with rubber pads as common practice to securely snap the front "L" onto the back "L".

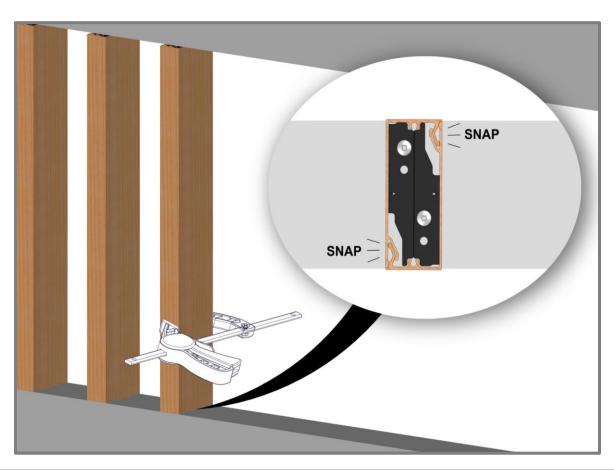
If necessary, use a rubber mallet or hammer and block to protect the finish.

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









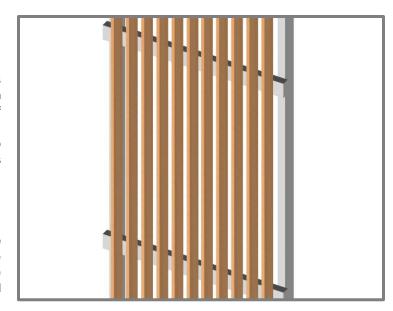


#### Large spans with Internal Stiffener

Requirements for large spans:

- Two Mounting Clips with #12 fasteners min, (#14 for L&L HD) 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 19.

See Appendix for allowable spans for project specific wind load.
Allowable Span - Tables 3-6

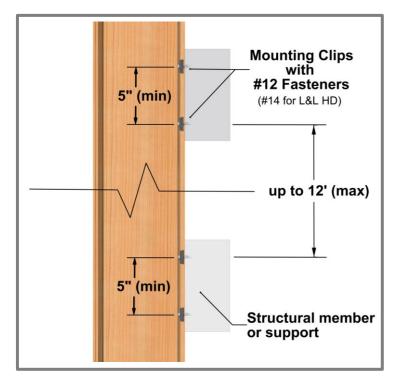


#### Step 1

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 min, (#14 for L&L HD) 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.





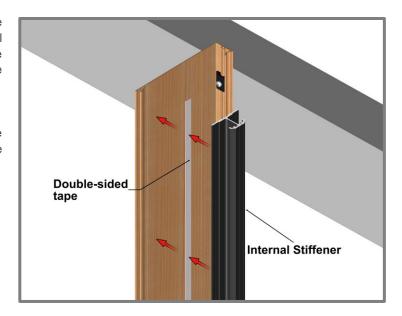
### Step 3

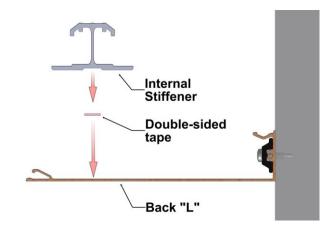
Peel and place the Double-sided tape onto the back of the Stiffener O.C. Peel the second side and install the Stiffener as shown in the image pressing down to adhere to the tape.

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.

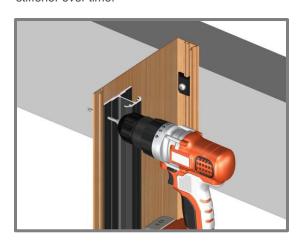


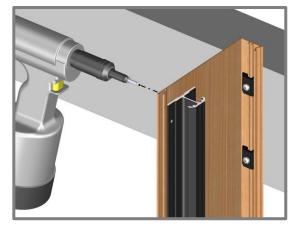


Step 4

-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.



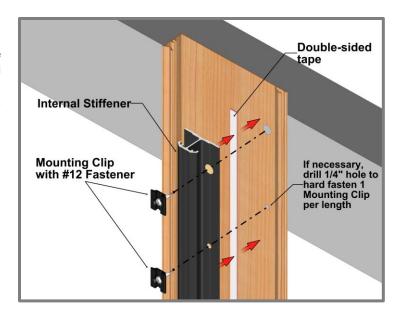




Step 4.1

-Fastening Stiffener Batten orientation Mechanically fasten the Stiffener to the back "L" using the Mounting Clips and #12 Fasteners.

Refer to Step 2, Page 13 for mounting.



Step 5
Refer to Step 3 & 4 on Page 13-14 for
Front "L" and End Cap install and
details.



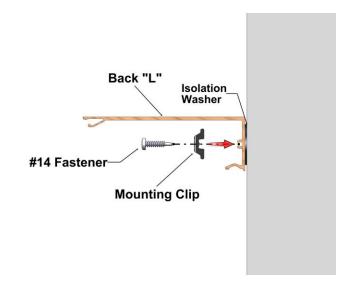


## **Link & Lock HD**

- Used for greater spans compared to standard Link & Lock
- Available sizes: 4", 6" & 8" (2" depth)
- Uses standard Mounting Clip, Isolation Washer and attachment methods
- Use #14 Fasteners

Refer to System Layout and Install steps section for typical install details.

To Compare allowable spans: See Appendix for allowable spans for project specific wind load. Allowable Span – Tables 4-6

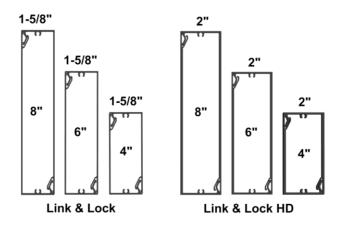




**6" L&L** 6' span max @30PSF

**6" L&L HD** 12' span max @30PSF

### **Profile Comparison**





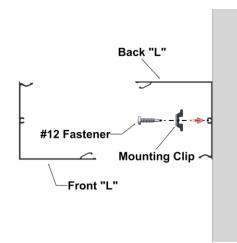
# 4x4 & 4x6 Link & Lock

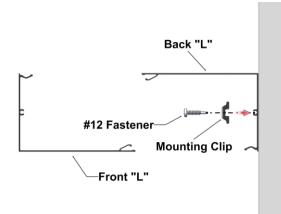
- Available sizes: 4"x4" & 4"x6"
- Uses standard Mounting Clip and attachment methods with #12
   Fasteners

Refer to System Layout and Install steps section for typical install details.

See Appendix for allowable spans for project specific wind load. Allowable Span – Tables 7 & 8, Page 33-34









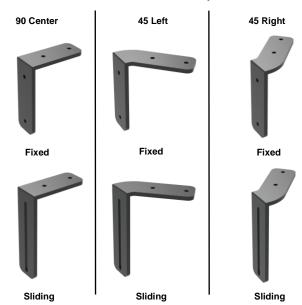
### **Link & Lock Brackets**

- Alternate option for securing L&L cladding
- Attachment from L&L to bracket: use 1/4" Socket Head Screws, washers, locknuts & Mounting Clips included in order
- Attachment to structural element: Min #12 Fasteners (Min head diameter of 11mm) by others
- For expansion & contraction hard fasten only one fixed bracket per L&L run.
- Sliding Brackets are used for floor/slab deflection.

⚠ Note: Use lubricant for all bracket attachments. See page 26 for details.

See Appendix for L&L Bracket Max. Spacing. Table 9, Page 34

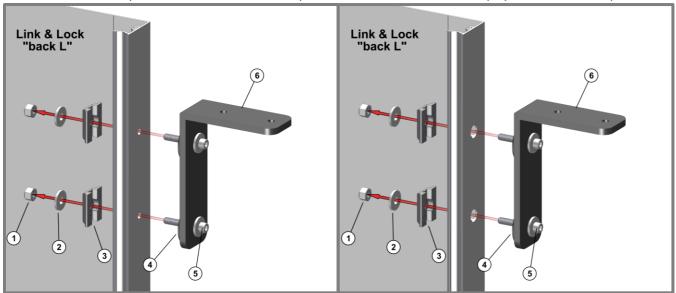
### **Link & Lock Bracket Options**



### Single Bracket for horizontal substrate

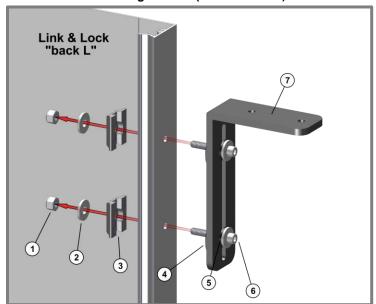
### Fixed Bracket (Hard fastened with 1/4" holes)

Fixed Bracket (Expansion 1/2" holes)



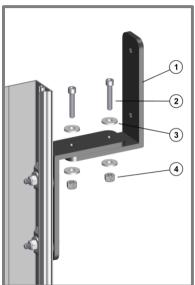
No.	Description	Material	Qty
1	1/4" -20 Locknut	Stainless Steel Nylon-Insert	2
2	Washer, 1/4" screw size, 0.75" OD	Stainless Steel	4
3	Link & Lock Mounting Clip	Nylon w. Stainless Washer	2
4	Isolation Washer for 1/4" size	Nylon, Black	2
5	1/4" -20 Socket Head Screw, 1-1/2" length	Stainless Steel	2
6	Link & Lock Bracket -90 Center Fixed	6005A Aluminum	1

### Sliding Bracket (Use 1/4" holes)



No.	Description	Material	Qty
1	1/4" -20 Locknut	Stainless Steel Nylon-Insert	2
2	Washer, 1/4" screw size, 0.75" OD	Stainless Steel	4
3	Link & Lock Mounting Clip	Nylon w. Stainless Washer	2
4	Isolation Washer for 1/4" screw size	Nylon, Black	2
5	Plastic Washer, 1/4" screw size, 0.734 OD	Nylon, Black	2
6	1/4" -20 Socket Head Screw, 1-1/2" length	Stainless Steel	2
7	Link & Lock Bracket -90 Center Sliding	6005A Aluminum	1

### **Dual Bracket for vertical substrate**





Dual Bracket components are loosely pre-assembled by manufacturer.
Adjust as required.
Once in place add lubricant and tighten to the manufacturer's specifications.
See page 26 for lubricant details.

ı	No.	Description	Material	Qty
ı	1	Link & Lock Dual Bracket -90 Center Fixed	6005A Aluminum	1
ı	2	1/4" -20 Socket Head Screw, 1-1/4" length	Stainless Steel	2
ı	3	Washer, 1/4" screw size, 0.75" OD	Stainless Steel	4
	4	1/4" -20 Locknut	Stainless Steel Nylon-Insert	2



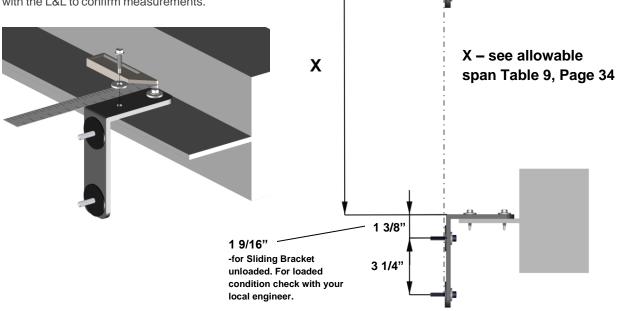
Structural

member

### Install steps

Step 1 Layout & install Link & Lock Brackets. It is good practice to check for level/plumb and flat/straight, for best results.

▲TIP: Install one run of L&L Brackets with the L&L to confirm measurements.

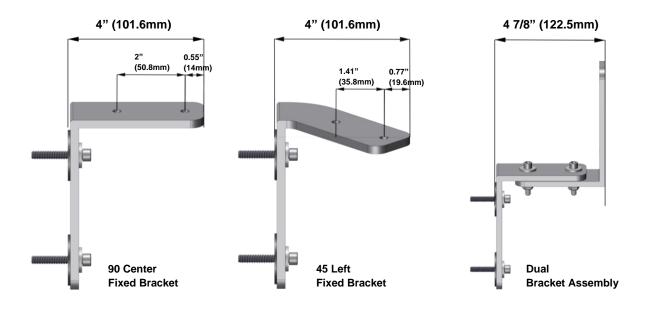


#12 Fasteners with

washers by others (Min head diameter of 11mm)

1 3/8"

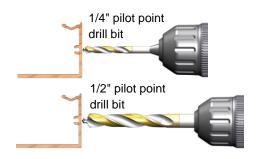
3 1/4"



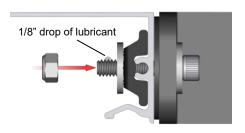


# Step 2 Drill out back "L" of the Link & Lock. For dimensions review drawing details provided by Longboard if required.

- 1/4" holes
  - -for hard fastening one Bracket per run -for Sliding Brackets if used
- 1/2" holes for expansion & contraction on the rest of the Fixed Brackets



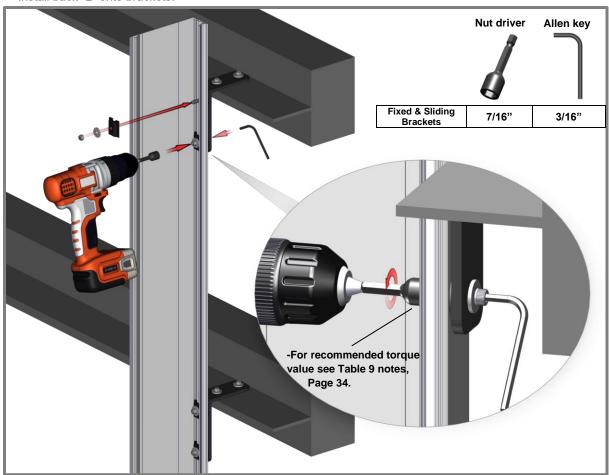
Step 3 Add 1/8" drop of lubricant to bolt threads before installing locknut.





For L&L Bracket fastening, use Permatex Anti-Seize 77134.

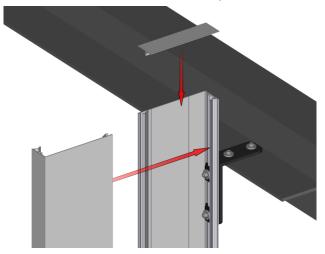
Step 4 Install back "L" onto brackets.



Step 4.1 Install Internal Stiffener if required. For install steps see Pages 19-20.

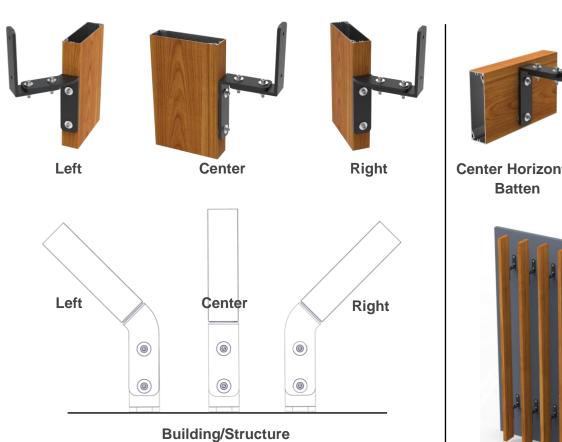


Step 5 Install front "L" onto back "L" and End Caps. For details See Pages 13-14, Steps 3 & 4.



### Orientation options

Fixed options shown, sliding options are available for slab deflection or building settlement.







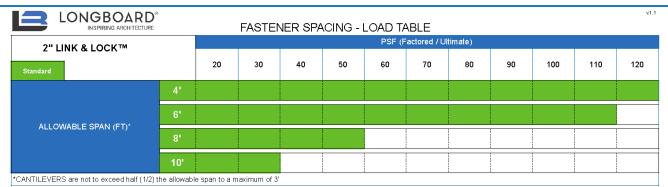


# **Appendix**

# **Expansion and Contraction Tables**

AVERAGE TEMPERATURE AT TIME OF CUTTING & INSTALLATION										& INSTALL	ATION		
		°C	-50	-40	-30	-20	-10	0	10	20	30	40	50
		°F	-58	-40	-22	-4	14	32	50	68	86	104	122
۵.	°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
2	-40	-40	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016	-0.019	-0.022	-0.024
=	-30	-22	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016	-0.019	-0.022
ž	-20	-4	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016	-0.019
2	-10	14	0.011	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016
2	0	32	0.014	0.011	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014
2	10	50	0.016	0.014	0.011	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011
2	20	68	0.019	0.016	0.014	0.011	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008
1	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
MIN/MAX POST						720202	51 570 5	10 SV: SV	20 20 300	20 20 20 20 1			
8	50 E 2 - M	122 IETRIC	0.027	0.024	0.022	0.019	0.016	0.014	0.011	0.008	0.005	0.003	0.000
3	months.		-50	-40					CUTTING		NAC TO A CONTRACT OF THE PARTY	0.003	50
	months.	ETRIC			AVERA	GE TEMPE	RATURE A	T TIME OF	CUTTING	& INSTALL	ATION		
3L1	months.	ETRIC °C	-50	-40	AVERA	-20 -4	<b>RATURE A</b> -10 14	T TIME OF 0 32	CUTTING 10	& INSTALL 20 68	ATION 30	40	50
3L1	E 2 - M	etric °c °f	-50	-40	AVERA	-20 -4	<b>RATURE A</b> -10 14	T TIME OF 0 32	CUTTING 10 50	& INSTALL 20 68	ATION 30	40	50
3L1	E 2 - M	°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 ONTRACTI	CUTTING 10 50 ON (MM/M	& INSTALL 20 68 METER)	ATION 30 86	40 104	50 122
3LI	°C -50	°C °F °F -58	-50 -58	-40 -40	-30 -22	-20 -4 EXPAN	RATURE A -10 14 SION OR C -0.920	T TIME OF 0 32 ONTRACTI	CUTTING 10 50 ON (MM/N -1.380	& INSTALL 20 68 METER) -1.610	ATION 30 86 -1.840	40 104 -2.070	50 122 -2.300 -2.070
3L	°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/M -1.380 -1.150	& 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
3L	°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	RATURE A -10 14 SION 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/M -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
3L	°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	RATURE A -10 14 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
3L	°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	RATURE A -10 14 SION OR C -0.920 -0.690 -0.460 -0.230 0.000	T TIME OF 0 32 ONTRACTI -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 -1.380 -1.150
3L1	°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	& 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	-2.300 -2.070 -1.840 -1.610 -1.380 -1.150 -0.920
3L1	°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 ONTRACTI -1.150 -0.920 -0.690 -0.460 -0.230 0.000 0.230	CUTTING 10 50 ON (MM/M -1.380 -1.150 -0.920 -0.690 -0.460 -0.230 0.000	& 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	50 122 -2.300
3	°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	RATURE A -10 14 SION OR C -0.920 -0.690 -0.460 -0.230 0.000 0.230 0.460 0.690	T TIME OF 0 32 ONTRACTI -1.150 -0.920 -0.690 -0.460 -0.230 0.000 0.230 0.460	CUTTING 10 50 ON (MM/N -1.380 -1.150 -0.920 -0.690 -0.460 -0.230 0.000 0.230	& 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 -0.920 -0.690





Calculations are using L/180 deflection limits

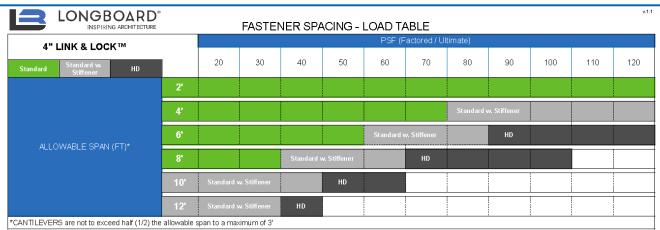
SUBSTRATE TYPE	SUBSTRATE REQUIREMENTS	ANCHOR DESCRIPTION	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD	Min. specific gravity = 0.55 wood	#12 Pan Head Wood Screw	1-1/2"	1"
STEEL	Min. 18 ga., Min. Fy=33 ksi.	#12 Self-Drilling or Self-Tapping Screw	3 threads penetration past	1/2"
ALUMINUM	Min. 1/8", Min. 6063-T5	(Grade 5)	metal structure	172
CONCRETE	Min. 3000 psi	3/16" ITW Tapcon	1-1/2"	1-3/4"
HOLLOW/GROUT-FILLED CMU	Conforms to ASTM C-90, with Min. compressive strength of 2000 psi	37 TO TT VV Tapcon	1"	2"

### GENERAL NOTES:

- 1. This product has been designed and manufactured to comply with the current Florida Building Code (FBC), INCLUDING HVHZ and has been evaluated according to the following:
  - Section 1709.8
  - ASTM E8-16
- 2. Adequacy of the structural concrete/masonry and 2X framing as a main wind force resisting system capable of with standing and transferring applied product loads to the foundation is the responsibility of the engineer or architect of record for the project of installation.
- 3. Substrate shall be designed and anchored to properly transfer all loads to the structure. Buck design and installation is the responsibilty of the engineer or architect of record for the project of installation.
- 4. The installation details described herein are generic and may not reflect actual conditions for a specific site. If site conditions cause installation to deviate from the requirements detailed herein, a licensed engineer or architect shall prepare site specific documents for use with this document.
- 5. Link & Lock is not designed to be a life-safety item. Designs of this nature are the responsibility of the engineer or architect of record.

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





Calculations are using L/180 deflection limits

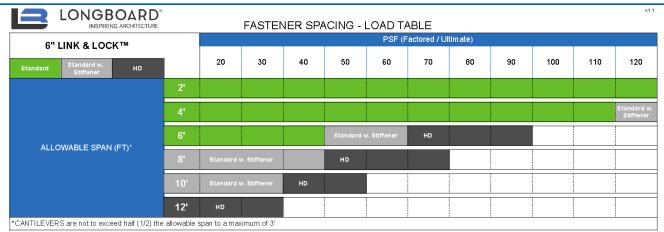
SUBSTRATE TYPE	SUBSTRATE REQUIREMENTS	ANCHOR DESCRIPTION	MIN. EMBEDMENT	MIN. EDGE DISTANCE	
WOOD	Min. specific gravity = 0.55 wood	#12 Pan Head Wood Screw	1-1/2"	1"	
STEEL	Min. 18 ga., Min. Fy≕33 ksi.	#12 Self-Drilling or Self-Tapping Screw (Grade 5)	3 threads penetration past	1/2"	
ALUMINUM	Min. 1/8", Min. 6063-T5	(Grade 5)	metal structure	"2	
CONCRETE	Min. 3000 psi	3/16" ITW Tapcon	1-1/2"	1-3/4"	
HOLLOW/GROUT-FILLED CMU	Conforms to ASTM C-90, with Min. compressive strength of 2000 psi	3/16 TTW Tapcon	1"	2"	

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- 1. This product has been designed and manufactured to comply with the current Florida Building Code (FBC), INCLUDING HVHZ and has been evaluated according to the following:
  - Section 1709.8
  - ASTM E8-16
- 2. Adequacy of the structural concrete/masonry and 2X framing as a main wind force resisting system capable of with standing and transferring applied product loads to the foundation is the responsibility of the engineer or architect of record for the project of installation.
- 3. Substrate shall be designed and anchored to properly transfer all loads to the structure. Buck design and installation is the responsibilty of the engineer or architect of record for the project of installation
- 4. The installation details described herein are generic and may not reflect actual conditions for a specific site. If site conditions cause installation to deviate from the requirements detailed herein, a licensed engineer or architect shall prepare site specific documents for use with this document.
- 5. Link & Lock is not designed to be a life-safety item. Designs of this nature are the responsibility of the engineer or architect of record.

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





Calculations are using L/180 deflection limits

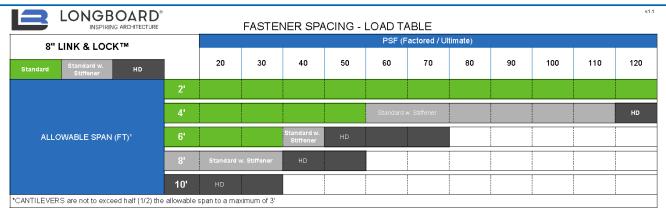
SUBSTRATE TYPE	SUBSTRATE REQUIREMENTS	ANCHOR DESCRIPTION	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD	Min. specific gravity = 0.55 wood	#12 Pan Head Wood Screw	1-1/2"	1"
STEEL	Min. 18 ga., Min. Fy=33 ksi.	#12 Self-Drilling or Self-Tapping Screw	3 threads penetration past	1/2"
ALUMINUM	Min. 1/8", Min. 6063-T5	(Grade 5)	metal structure	172
CONCRETE	Min. 3000 psi	3/16" ITW Tapcon	1-1/2"	1-3/4"
HOLLOW/GROUT-FILLED CMU	_OW/GROUT-FILLED CMU Conforms to ASTM C-90, with Min. compressive strength of 2000 psi		1"	2"

### GENERAL NOTES:

- 1. This product has been designed and manufactured to comply with the current Florida Building Code (FBC), INCLUDING HVHZ and has been evaluated according to the following:
  - Section 1709.8
  - ASTM E8-16
- 2. Adequacy of the structural concrete/masonry and 2X framing as a main wind force resisting system capable of withstanding and transferring applied product loads to the foundation is the responsibility of the engineer or architect of record for the project of installation.
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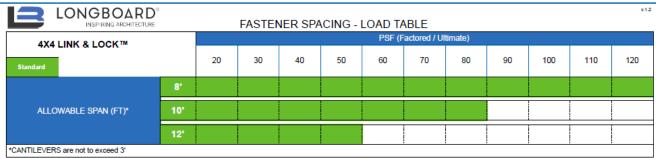
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WOOD	Min. specific gravity = 0.55 wood	#12 Pan Head Wood Screw	1-1/2"	1"
STEEL	Min. 18 ga., Min. Fy=33 ksi.	#12 Self-Drilling or Self-Tapping Screw	3 threads penetration past	1/2"
ALUMINUM	Min. 1/8", Min. 6063-T5	(Grade 5)	metal structure	172
CONCRETE	Min. 3000 psi	3/16" ITW Tapcon	1-1/2"	1-3/4"
HOLLOW/GROUT-FILLED CMU	Conforms to ASTM C-90, with Min. compressive strength of 2000 psi	3/16 TTW Tapcon	1"	2"

### GENERAL NOTES:

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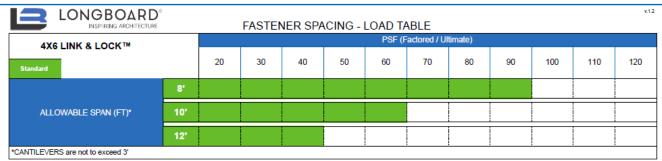
SUBSTRATE TYPE	SUBSTRATE REQUIREMENTS	ANCHOR DESCRIPTION	MIN. EMBEDMENT	MIN. EDGE DISTANCE
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STEEL	Min. 18 ga., Min. Fy=36 ksi.	#12 Self-Drilling or Self-Tapping Screw Pan Head or Flanged Hex Head Wood	3 threads penetration past	1/2"
ALUMINUM	Min. 1/8", Min. 6063-T5	Screw (Grade 5)	metal structure	1/2
CONCRETE	Min. 3000 psi	3/16" ITW Tapcon	1-1/2"	1-3/4"
HOLLOW/GROUT-FILLED CMU	Conforms to ASTM C-90, with Min. compressive strength of 2000 psi	3/10 TTW Tapcon	1"	2"

### GENERAL NOTES:

- 1. Adequacy of the structural concrete/masonry and 2X framing as a main wind force resisting system capable of withstanding and transferring applied product loads to the foundation is the responsibility of the engineer or architect of record for the project of installation.
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STEEL	Min. 18 ga., Min. Fy=36 ksi.	#12 Self-Drilling or Self-Tapping Screw Pan Head or Flanged Hex Head Wood	3 threads penetration past	1/2"
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CONCRETE	Min. 3000 psi	3/16" ITW Tapcon	1-1/2"	1-3/4"
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### GENERAL NOTES:

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### INSTALLATION NOTES:

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### **TABLE 9**

■ LONGBOARD°	LINK & LOCK™ BRACKET MAX. SPACING (FT)										
INSPIRING ARCHITECTURE					WIN	WIND LOAD PSF (FACTORED/ULTIMATE)					
LINK & LOCK™ BATTEN	30	40	50		60	70	80	90	100	110	120
1-5/8" x 2"	10'		8'			6'		4'		2'	
1-5/8" x 4"	8'		6'		4	4'			2'		
1-5/8" x 4" w. Internal Stiffener	12'	10'		8'			6'			4'	
1-5/8" x 6"	6'			4'				3'			2'
1-5/8" x 6" w. Internal Stiffener	10'	8'	6'				4'			3'	2'
1-5/8" x 8"	6'	4'					•	2'			
1-5/8" x 8" w. Internal Stiffener	8'	6'			4'			3'			2'
2" x 4" HD	1	2'	10'		8'		6'			4'	
2" x 6" HD	10	8'		6'			4'			3'	
2" x 8" HD	8'	6'			4'	••••••••••		3'	***************************************		2'

Recommended torque value for Link & Lock  $^{\scriptscriptstyle\mathsf{TM}}$  to Bracket attachment:

note 3 Fixed Bracket 1/4" -20 Socket Head Screw, 60-72 in/lbs + prevailing torque of self-locking nut

note 4 Sliding Bracket 1/4" -20 Socket Head Screw, 48-60 in/lbs + prevailing torque of self-locking nut

April 25, 2024

note 1 Factored Wind Load: max. 168 LBS/EA Bracket

note 2 Factored Dead Load: max. 29 LBS/EA Fixed Bracket

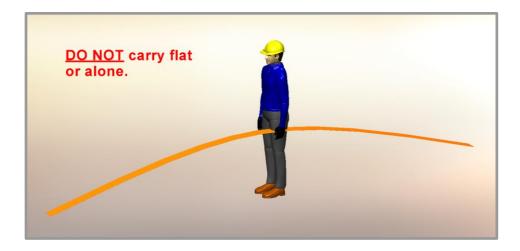


# **Proper Handling of Longboard Products**

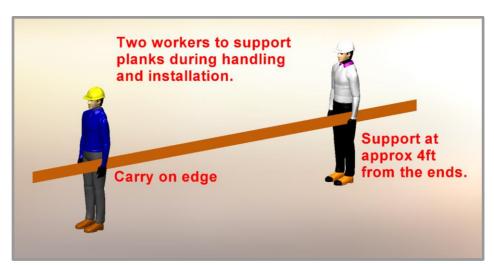


To help avoid injury and product damage, Longboard products require proper handling to and from storage areas during installation. When carrying or installing any products it is recommended that they be moved or carried by at least two people with each support point approximately 4ft from the ends. Carrying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



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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.





### **Tongue & Groove Systems**

V-Groo	ove Planks	* 48 sq. ft. box qua	antities <sup>‡</sup> 96 sq.	ft. box quantities
Size	12′ *	24′ ‡	12' Perf *	24' Perf ‡
21/2"	3V.145	-	3VP.145	-
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′ ‡	12' Perf *	24' Perf *
6"	6CH.145	6CH.289	-	-

### **Bevel Planks**

Size	12′ *	24′ ‡	12' Perf *	24' Perf *
6 " Single	6SB.145	6SB.289	-	-
6 " Triple	6TB.145	6TB.289	-	-

### **Castellation Planks**

Size	12′ *	24′ ‡	12' Perf *	24' Perf ‡
4"	4CA.145	4CA.289	-	-
011		004.000		



V-Groove Planks



Smooth Planks



Channel Planks



Perforated Planks



Bevel Planks



Castellation Planks



**Butt Joint** Fastening Kit

Qty

1750, box

100, bag

250, bag



Quick Screen Clips



Touch-up Pens



Butt-Joint Fastening Kit (6") **Touch Up Pens** 

**Accessories** Product

**Quick Screen Clips** 

Quick Screen Clips

1/16" U-SHIM







SHIM.1001 TGBJKIT



# **Trim Components**

Туре	Style	Product	Dimensions	SKU
Starter	Precision	Starter J-Track	(5/8") - 12'	1SJT.145
Starter	Traditional	Starter Strip	(1-7/8") - 12'	2SS.145
Starter	Traditional	Back-to-Back Starter Strip	(1-1/4")	2BTBSS.145
J-Track	Precision	Two Piece J-Track	(5/8") - 12'	1X1JT.145
J-Track	Precision	J-Track	(5/8") - 12'	1JT.145
J-Track	Craftsman	J-Track	(7/8") - 12'	JT23.145
J-Track	Craftsman	Two Piece J-Track	(7/8") - 12'	JT23S.145
J-Track	Traditional	Two Piece J-Track	(1-3/8") - 12'	1X2JT.145
Corner	Precision	Outside Corner	(3/16") - 12'	050C.145
Corner	Craftsman	Inside Corner	(3/4") - 12'	1IC.145
Corner	Craftsman	Outside Corner	(1") - 12'	10C.145
Corner	Traditional	Corner Set	(2") - 12'	2CORS.145
Corner	Traditional	3" Smooth	(3") - 24'	3SCP.289
Corner	Traditional	3" V-Groove	(3") - 24'	3VCP.289
Reveal	Precision	Flat Reveal	(1/2") - 12'	1FR.145
Reveal	Precision	T&G Flat Reveal	(1/2") - 24'	1TGFR.289
Reveal	Craftsman	U-Reveal Set	(3/4") - 12'	1URS.145
Reveal	Craftsman	T&G U-Reveal	(3/4) - 24'	1TGURK.289
Reveal	Traditional	U-Reveal Set	(1-1/2") - 12'	2URS.145
Reveal	Traditional	Flat Reveal Set	(1-1/2") - 12'	2FRS.145
Reveal	Traditional	T&G U-Reveal	(1 1/2") - 24'	2TGURK.289
Reveal	Traditional	Offset Flat Reveal Set, J-Track Base	(2") - 12'	20FFJ.145
Reveal	Traditional	Offset Flat Reveal Set, Termination Base	(2") - 12'	20FFT.145
Termination	Precision	Termination Set	(5/8") - 12'	1TS.145
Termination	Craftsman	Termination Set	(7/8") - 12'	TS23S.145
Termination	Traditional	Termination Set	(1-3/8") - 12'	2TS.145
Compression Joints	Traditional	Compression Joint	(1-3/8") - 24'	2CJ.289



Starter J-Track



Traditional Starter Strip



Traditional Back-to-Back Starter Strip



Two-Piece J-Track



Precision J-Track

Precision Outside

Traditional

Craftsman

U-Reveal Set

T&G U-Reveal

Craftsman

Termination

3" Smooth Corner



Craftsman J-Track



Craftsman Two Piece J-Track



Traditional Two Piece J-Track



Craftsman Outside



Traditional Corner Set



Craftsman

Traditional
3" V Groove Corner

Craftsman T&G U-Reveal



Precision



Flat Reveal





U-Reveal Set



Traditional Flat Reveal Set



Traditional Offset Flat Reveal Set,



Traditional Offset Flat Reveal Set. Termination Base





Traditional Compression



Traditional Termination



# **Residential Systems**

Lap Siding 48 sq. ft. box quantities

Board & Batten 56 sq.ft. box quantities

Size	12'	
7"	7BB.145	

### **Accessories**

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



**Butt Joint** 

Fastening Kit



Quick Screen





Lap Siding (Double)

Traditional J Track





Board & Batten (Double)

Traditional Compression Joint

**Trim Components** 

Туре	Style	Product	Dimensions	SKU
J Track	Traditional	J Track	(1-3/8")-12'	JT35.145
J Track	Traditional	Two Piece J Track	(1-3/8")-12'	JT23S.145
Compression	Traditional	Compression Joint	(1-3/8")-12'	2CJ.289
Corner	Traditional	Corner Set	(1"-2") - 12'	2CORS.145
Reveal	Traditional	Flat Reveal Set	(1-1/2") - 12'	2FRS.145
Reveal	Traditional	Offset Flat Reveal Set	(2") - 12'	20FFJ.145
Reveal	Traditional	U-Reveal Set	(1-1/2") - 12'	2URS.145
Starter	Traditional	Back to Back Starter	(5.5")-12'	6BTBS.145
Starter	Traditional	Starter Strip	(1-7/8")-12'	2SS.145
Drip Edge	Traditional	Drip Edge	(1-3/8")-12'	2DE.145





Traditional Two piece J-Track



Traditional Corner Set

Traditional Flat Reveal Set

Traditional Offset Flat Reveal Set







Traditional U Reveal Set

Traditional Starter Strip

Drip Edge

**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
6"	2X6LL.145	2X6LL.289	2LLEC.6	2LLEM.6
8"	2X8LL.145	2X8LL.289	2LLEC.8	2LLEM.8
Link & I	Lock™ HD Ba	ttens		
4"	2X4LLHD.145	2X4LLHD.289	2LLHDEC.4	2LLHDEM.4
CII	0.0001111111111111111111111111111111111	0.000	OLL LIDEO C	OLLUDEMO

Link & Lock™ HD Battens					
4"	2X4LLHD.145	2X4LLHD.289	2LLHDEC.4	2LLHDEM.4	
6"	2X6LLHD.145	2X6LLHD.289	2LLHDEC.6	2LLHDEM.6	
8"	2X8LLHD.145	2X8LLHD.289	2LLHDEC.8	2LLHDEM.8	







Isolation Washer





Mounting Clip



Link & Lock™ Box Battens 4 x 4" 4X4LL.145 4X4LL.289 4LLEC.4 4X6LL.145 4X6LL.289 4LLEC.6

Product	Single	Dual
45° LEFT FIXED	LLMBK.45LF	LLDMBK.45LF
45° RIGHT FIXED	LLMBK.45RF	LLDMBK.45RF
90° CENTER FIXED	LLMBK.90F	LLDMBK.90F
45° LEFT SLIDING	LLMBK.45LS	LLDMBK.45LS
45° RIGHT SLIDING	LLMBK.45RS	LLDMBK.45RS
90° CENTER SLIDING	LLMBK.90S	LLDMBK.90S

Dewalt® Drill Bit

Internal Stiifener





Single / Dual Fixed / Sliding Link & Lock ™ Mounting Brackets

Link & Lock™

Link & Lock™ HD

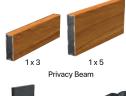


Link & Lock ™ Box Battens

### **Privacy Beam System**

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







Spacer Bar

Mounting Bracket



Scan the QR code to explore our Finishes on our Website









# Finish Options

# **Achieve your vision.**

Whether creating a space that offers the warmth and appearanc<sup>e</sup> of Woodgrains, or the modern industrialized look of Naturally Aged Metals, we have a finish option for you.

Require a custom finish or color? Our experienced color-matching team can make it a reality!

Contact us to confirm lead times for orders greater than 15k sq.ft in the Most Popular Finishes category.

### **Longboard Finish Classification**

Type: Woodgrain / Solid / Metallic / Speckle / Naturally Aged Metal Surface: Smooth / Textured Sheen: Matte / Satin / Glossy

**Performance:** AAMA 2604 / AAMA 2605 **Finish Warranty:** 15 Year / 20 Year



Click / Scan the QR code to check our latest lead times and explore available options!

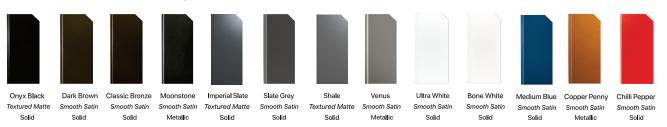


# **Woodgrains**

Longboard's woodgrain finishes have a slight texture with matte sheen.



# **Solid & Specialty**



# **Speckle**



# **Naturally Aged Metals**



Liberty Brooklyn Eiffel Golden Gate Textured Matte Smooth Glossy Textured Matte Textured Matte Textured Matte Naturally Aged Naturally Aged Naturally Aged Naturally Aged Naturally Aged Metal Metal Metal

Print, Screens, and our pictures do not accurately reflect aspects of our finishes – textures, sheen, woodgrain hues, etc. Always order a physical sample before purchase! Our Color Bars swatches and samples will provide an accurate representation.

If a custom finish is required, we will work with our industry leading coating suppliers to develop a custom finish solution. All finishes are rigorously tested for corrosion and weathering resistance to ensure that it will stand up and deliver superior performance in the built environment.

We perform accelerated weathering testing in our onsite laboratory and work closely with coating suppliers to review weathering results of finishes undergoing natural Florida exposure testing. Our disciplined approach to powder coating, quality and process control distinguishes it as industry leading product manufacturer and ensures that its premium products stay looking beautiful for many, many years.



# NATIONAL WARRANTY

(Canada & USA only)



# 15 Year Non-Prorated Powder Coating Finish - 50 Year Non-Prorated Extruded Aluminum Profiles [ Limited Warranty ]

Warranty granted to (building owner):		Product codes: Product description:		Install contractor			
					Project name		
				Project address			
Longboard Architectural Products Inc. ("Longboard," "The Company") products as identified by the Product Codes listed will conform to the standards set out in Clause 1 and Clause 2 of this Warranty, subject to the terms and conditions set out in Clause 3 and 4 of this Warranty.					Address 2 Install start date		
		Finish:		Date of substantial completion			
	Pinnacle Warranty is only valid for applications stance.	within Canada and USA.	All applications outside of Car	nada and USA are re	quired to contact Longboard for		
Clau			xidized film or other contaminants,		provide proof of coverage. Claims can be made Longboard at the Product Performance		
Extruded Aluminum Profile(s) with Powder Coat Finish Longboard expressly warrants that its product line is free from manufacturing defects in material or workmanship.		2.6 Adhesion: Adhesion of pro	oduct finish when initially applied to test y reference to AAMA 2604-02 Clause	be given a reasonab 4.8 Longboard exclusive	receiving such notice, The Company must le opportunity to inspect and verify the claim. e liability under this warranty, or other-wise,		
1.1	When product is applied according to Longboard instructions and properly maintained, such product is guaranteed against the following:	Clause 3 3.1 Warranty Terms and Cond	littone:	sole discretion, th warranty on any re	finishing and/or repairing, at The Company's e defective powder coated product. The efinished, repaired or replaced coated metal r shall be for the remainder of the warranty		
1.2	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)	3.2 The "Warranty Period" for the respective number of Person commencing on	in the warranties in Clause 1 shall mean of years or for as long as the Covered the date of substantial completion of own the property on which the material	period applicable t work will be perfort Longboard. Color v	to the originally coated metal. All warranty med by a company or contractor selected by ariance between refinished and/or repainted al shall not be indicative of a defect.		
1.3	exceeding one sixteenth of an inch out of plane per linear foot.  Corrosion: When installed in normal atmospheric conditions according to Longboard instructions and properly maintained, such product is further guaranteed against rusting and	was originally installed. 3.3 Registration of the produ from substantial completi	act is required within ninety (90) days ion for the warranty to be in effect. This riginal owner and one other subsequent	4.9 This warranty reparties in relation previous agreeme parties in relation to	presents the entire agreement between to its subject matter and supersedes any ent whether written or oral between the its subject matter. The limited warranties state		
1.4	corroding. Subject to the limitations set out in Clause 3 and 4. What we will do: If, during the fifteen (1.5) 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.	installed. 3.4 Normal atmospheric aggressive atmosphere	where the product(s) have been conditions exclude corrosive or s such as those contaminated with	covered by them. incidental or conseq make any represe	of Longboard with respect to the products The Company shall have no liability for any uential damages. No person is authorized to ntation or warranty on behalf of Longboard y set forth above, and any such statement		
1.5	what we will do: If, during the fifty (50) year Limited Warranty Period on the extruded aluminum 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.	is not meant for marine us 3.5 The product finish warn include coverage of the fi	corrosive elements. The product finish se on boats, ships or offshore platforms. ranties as outlined in Clause 2 shall inish as it relates to the impact effects	shall not be binding forth above, Long express or implied	y on The Company. Except as expressly set board makes no warranty of any kind, I, including, without limitation, any implied antability or fitness for a particular purpose.		
1.6 1.7	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.	from hall and woodpecker birds.  3.6 Under no circumstance shall Longboard's liability under this limited warranty exceed 2.5 times the total corresponding Longboard material cost (excluding sales tax, labor and installation related costs) as noted on the original purchase invoice and paid by the		Warranties shall be shorter duration as limited warranties	the duration of the limited warranty, or such provided under applicable local law. These give you specific legal rights, and you may this which vary from area to area.		
1.8	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 pay for all reasonable costs	Buyer for the specific pro		4.10 Nothing in this warr workmanship of an	ranty shall be construed as a warranty of the ny installer or as imposing on Longboard any isfactory performance caused by faulty		
including material and labor as it relates to the repair and replacement of the defective Product.		<ul> <li>4.1 This warranty will not extend or cover:</li> <li>4.2 Damages to the coated metal caused by handling, shipping, processing and/or installation; or</li> </ul>		4.11 It's agreed all par relating to this ag negotiation will try	rties involved that all claims and disputes greement that cannot be settled through in good faith to first settle the dispute by		
Clause 2 Product Finish - AAMA 2604 Performance Specification		<li>4.3 Damages to the coated n after installation; or</li>	netal caused by scratching or abrading metal as a result of standing water in	Association (Consti prelude to mand	istered by the American Arbitration ruction Industry Mediation Procedures) as a latory binding arbitration. Such binding		
2.1	During the first fifteen (15) years of this warranty: Checking/Cracking: No visible checking or cracking of the product finish on the building. Chalking Resistance: No chalking of the product finish on the	horizontal installations. 4.5 The warranty will not be is caused by acts of 0	applicable to damage or failure, which God, falling objects, external forces,	Construction Indu Arbitration Associat	be conducted and administered by the istry Arbitration Rules of the American tion. Both seller and purchaser agree to share to footh mediation and arbitration and that		
2.3	on ASTM D4214.  Color Retention: No color change of the product miss on the building in excess of that represented by No.8 rating based on ASTM D4214.  Color Retention: No color change of the product finish on the	similar or dissimilar occur 4.6 Customer shall make av	commotion's, acts of war, or other such rences beyond The Company's control. allable to The Company the dates of	such binding arbiti action.	ration will be the sole and final remedial		
2.4	building greater than 5 (five) CIE Lab △E units calculated in accordance with ASTM 2244 Section 6.3. Color change shall be measured on the exposed paint surface which has	including details of wa compliance with the cle Required Maintenance	ated metal, the maintenance records asking and cleaning procedures in aning requirements as stated in the section of this warranty. Customers	Environment, follow Longboard Care & cloth, water and m	with the maintenance schedule as outlined in the Maintenance Guide. Use a soft sponge or mild detergent, non-abrasive soap with the clean the powder coated area of dirt, grim		
2.5	been cleaned of oil, grease, chalk, oxidized film or other contaminants, corresponding values shall be measured on the control panel. Gloss Retention: Coated surface will exhibit gloss retention of a	to a breach of the warra 4.7 Claims must be made in	the failure of the coated metal was due inty stated herein. In writing to Longboard within 30 days blem and authorization obtained prior to	and other debris. detergents or chen maintenance reco	Pressure washing and the use of harsh nicals is not recommended. Include in your ords the following: date, time, specific ame of maintenance person and their		
	minimum of 30% of the original. Gloss retention shall be measured on the exposed paint surface which has been deaned	beginning any repair and/	or refinishing work.		enance company name and general condition		
	I have read and agree to the terms of the Long	·					
	powder coated surface and 50 year aluming warranty and acknowledge receipt of a copy of t		Duly authorized on bel	half of Longboard:			
	Name of owner or contractor:	Pate:	Name and designation:		Date:		
	Signature		Signature:				
	Signature:		Jigilacare.				



# NATIONAL WARRANTY

(Canada & USA only)



# 20 Year Non-Prorated Powder Coating Finish - 50 Year Non-Prorated Extruded Aluminum Profiles [ Limited Warranty ]

Warranty granted to (building owner):		Product codes: Product description:			Install contractor			
							Project name	
							Project address	
Longboard Architectural Products Inc. ("Longboard," "The Company") products as identified by the Product Codes listed will conform to the standards set out in Clause 1 and Clause 2 of this Warranty, subject to the terms and conditions set out in Clause 3 and 4 of this Warranty.						Address 2	Install start date	
		Finish:		Date of substantial completion				
	Pinnacle Warranty is only valid for applications stance.	within Canada and USA.	All applications outside of Car	nada (	and USA are re	quired to contac	t Longboard fo	
Clau	se 1	of oil, grease, chalk, o	oxidized film or other contaminants,		The claimant must p	ovide proof of coverage	. Claims can be mad	
Extruded Aluminum Profile(s) with Powder Coat Finish Longboard expressly warrants that its product line is free from manufacturing defects in material or workmanship.		corresponding values sh 2.6 Adhesion: Adhesion of pr	all be measured on the control panel.  roduct finish when initially applied to test by reference to AAMA 2605-02 Clause	4.8	by writing to L Department. After be given a reasonabl	ongboard at the P receiving such notice, e opportunity to inspect liability under this wan	roduct Performand The Company mu and verify the clain	
1.1	When product is applied according to Longboard instructions and properly maintained, such product is guaranteed against the following:	Clause 3  3.1 Warranty Terms and Con			will be limited to refi sole discretion, the warranty on any re	nishing and/or repairing defective powder of finished, repaired or re shall be for the remai	g, at The Company pated product. The placed coated met	
1.2	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)	3.2 The "Warranty Period" for the respective number Person commencing o	outures:  or the warranties in Clause 1 shall mean of years or for as long as the Covered in the date of substantial completion id own the property on which the material		period applicable t work will be perform Longboard. Color va product and original	o the originally coate ned by a company or c priance between refinis shall not be indicative	d metal. All warrant contractor selected to hed and/or repaints of a defect.	
1.3	exceeding one sixteenth of an inch out of plane per linear foot. Corrosion: When installed in normal atmospheric conditions 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.	was originally installed. 3.3 Registration of the proc from substantial comple warranty is valid for the o	luct is required within ninety (90) days tion for the warranty to be in effect. This original owner and one other subsequent	4.9	parties in relation previous agreemer parties in relation to i	resents the entire a to its subject matter nt whether written o ts subject matter. The lin f Longboard with resp	and supersedes ar or oral between the mited warranties state	
1.4	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.	installed. 3.4 Normal atmospheric aggressive atmosphere	conditions exclude corrosive or such as those contaminated with		covered by them. I incidental or consequent make any represer	The Company shall have lential damages. No per litation or warranty on set forth above, and	ve no liability for ar erson is authorized in behalf of Longboar	
1.5	What we will do: If, during the fifty (50) year Limited Warranty Period on the extruded aluminum profiles, the Product is defective in material or workmanship, Longboard will, in its sole discretion,	is not meant for marine u 3.5 The product finish wa include coverage of the	corrosive elements. The product finish use on boats, ships or offshore platforms. I cranties as outlined in Clause 2 shall finish as it relates to the impact effects		shall not be binding forth above, Longt express or implied,	on The Company. Ex loard makes no wa lincluding, without lin	cept as expressly some cept as expressly some cept as expressly irranticely.	
1.6	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.	from hail and woodpeck 3.6 Under no circumstance si warranty exceed 2.5 tir	er birds. nall Longboard's liability under this limited nes the total corresponding Longboard		Warranties shall be shorter duration as	ntability or fitness for the duration of the limi provided under applic	ted warranty, or su able local law. The	
1.7 1.8	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	material cost (excluding sales tax, labor and installation related costs) as noted on the original purchase invoice and paid by the Buyer for the specific project.		4.10	also have other rig Nothing in this warra	give you specific legal hts which vary from an anty shall be construed y installer or as imposi	ea to area. as a warranty of th	
	remedy for the Covered Person for any defect in materials or workmanship. The Company will pay for all reasonable costs	Clause 4			liability for unsatis workmanship in ins	factory performance tallation.	caused by fault	
	including material and labor as it relates to the repair and/or replacement of the defective Product.		d metal caused by handling, shipping,	4.11	relating to this ag	ties involved that all reement that cannot in good faith to first s	be settled through	
Clause 2 Product Finish - AAMA 2605 Performance Specification		<li>4.3 Damages to the coated after installation; or</li>			Association (Constr	stered by the Ar uction Industry Mediat atory binding arbitra	ion Procedures) as	
2.1 2.2	During the first twenty (20) years of this warranty: Checking/Cracking: No visible checking or cracking of the	horizontal installations.	metal as a result of standing water in applicable to damage or failure, which		arbitration is to	be conducted and a stry Arbitration Rule	dministered by the	
2.3	product finish on the building. Chalking Resistance: No chalking of the product finish on the	is caused by acts of	God, falling objects, external forces, il commotion's, acts of war, or other such		equally in the costs	on. Both seller and pure of both mediation and	arbitration and th	
	building in excess of that represented by No.8 rating based on ASTM D4214.	similar or dissimilar occu 4.6 Customer shall make a	rrences beyond The Company's control. valiable to The Company the dates of	4 12	action.	ation will be the sole		
2.4	Color Retention: No color change of the product finish on the building greater than 5 (five) CIE Lab & E units calculated	including details of w	pated metal, the maintenance records rashing and cleaning procedures in	4.12	Environment, follow	nance. Depending the maintenance sched Maintenance Guide. U	lule as outlined in th	
	in accordance with ASTM 2244 Section 6.3. Color change shall be measured on the exposed paint surface which has been cleaned of all greace challs evidined film or	Required Maintenance	eaning requirements as stated in the section of this warranty. Customers		cloth, water and m	ild detergent, non-abr	asive soap with th	
	been cleaned of oil, grease, chalk, oxidized film or other contaminants, corresponding values shall be measured on the control panel.	to a breach of the warr			and other debris.	Pressure washing and icals is not recommer	I the use of hars	
2.5	Gloss Retention: Coated surface will exhibit gloss retention of a minimum of 50% of the original. Gloss retention shall be measured on the exposed paint surface which has been cleaned		n writing to Longboard within 30 days oblem and authorization obtained prior to for refinishing work.		maintenance recor products used, na	ds the following: one of maintenance company name	date, time, specif e person and the	
	I have read and agree to the terms of the Long bowder coated surface and 50 year alumin	- · · · · · · · · · · · · · · · · · · ·						
-	warranty and acknowledge receipt of a copy of t		Duly authorized on bel	half o	f I onaboard:			
	Name of owner or contractor:	Pate:	Name and designation:	iaii oi	Longboura.	Date:		
	Signature		Signatura					
	Signature:		Signature:					