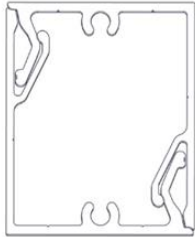




LONGBOARD®
INSPIRING ARCHITECTURE



Link & Lock Intrepid

Installation Guidelines

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Material Specifications

Finishes

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

All Longboard Products are produced 1" (25mm) oversized, as one end is drilled for the coating process and both ends have 1/2" (12mm) of masking tape (woodgrains only) which must be cut off for best results.

Expansion & Contraction

Although interior applications likely will not experience a large degree of temperature change, it is good practice to follow the standard attachment procedure described in this guide. 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 |
| • 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: info@longboardproducts.com or 1-800-604-0343 and include your PO# and any pictures if possible. Mark the delivery receipt as "damaged" and accept the delivery as-is. Longboard is not responsible for the installation of blemished or damaged material. |

Storage & Handling

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

Cleaning Recommendations

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

⚠ NEVER use aggressive, acid or alkaline cleaners on Longboard finishes. Do not use cleaners containing Trisodium Phosphate, Phosphoric Acid, Hydrochloric Acid, Hydrofluoric Acid, Fluorides, or any other compound that is known to react with metal.

***See Cleaning Guide for full requirements & cleaning schedule:**
longboardproducts.com/resources/care-maintenance.com

Warranty

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

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

Graffiti Removal

Standard Woodgrain
 Use Standard soap & water only

D2000 Solid Color

	Prosoco Cleaner	MEK Solvent
Permanent Marker	✓	✓
Oil Based Spray Paint	✓	✓
Water Based Spray Paint	✓	✓
Adhesive Tape	✓	✓

MEK Solvent

Prosoco Anti-Graffiti Cleaner

SPECIAL ORDER - EXT. LEAD TIMES CONTACT LB

Anti-Graffiti High Gloss Woodgrain

	MEK Solvent
Permanent Marker	✓
Oil Based Spray Paint	✓
Water Based Spray Paint	✓
Adhesive Tape	✓

MEK Solvent

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 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

Link & Lock™ Box Battens

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



Link & Lock™
Batten

Link & Lock™ HD
Batten



Link & Lock™ Box Battens

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



L&L Mounting Clip



Isolation Washer


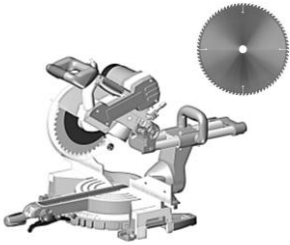

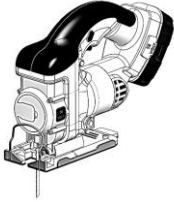

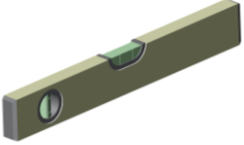




1/2" Pilot
Point

Tools/Cutting/Fastening

Tools

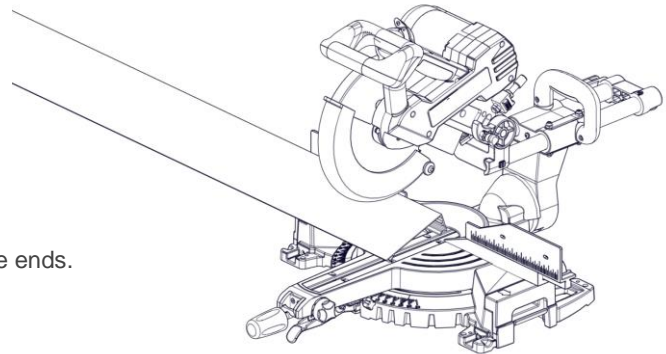
Commonly used tools for Link & Lock install.

			
Table Saw with Carbide Metal Blade Non-ferrous 60-80T (for cutting aluminum)	Miter Saw with Carbide Metal Blade Non-ferrous 60-80T (for cutting aluminum)	Cordless Drill with clutch	Jig Saw (for protrusions)
			
Rubber Mallet (or Hammer)	Level	Hole Saw (for lighting fixtures)	Quick Grip Bar Clamp

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.



⚠ DO NOT Install Link & Lock without trimming the ends.

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 3-8** 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 3-8

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

Pan-Head



Rounded-Head Self-Drilling

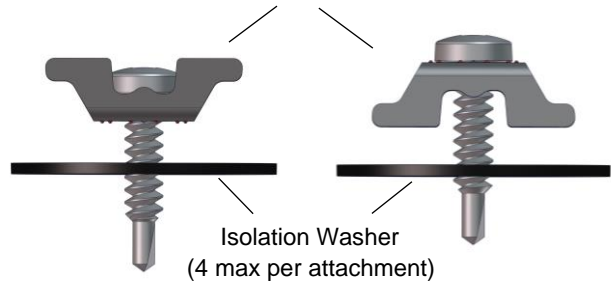


Flanged Hex Head



*Length, thread and point to suit substrate and material surface.

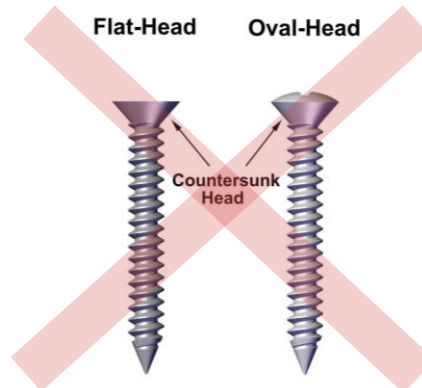
Mounting Clip



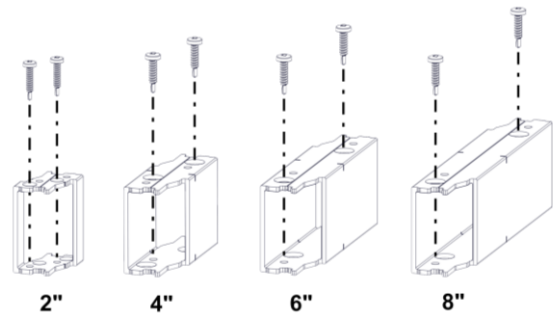
Batten (flat orientation)

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 3-8**

System Install

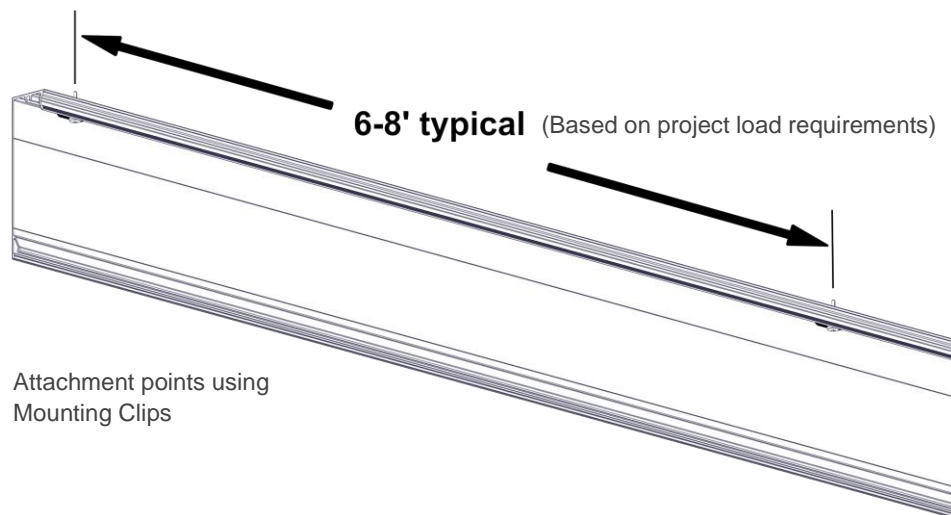
Install details

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

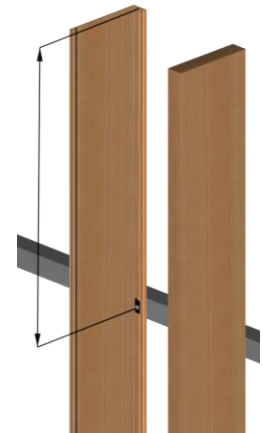
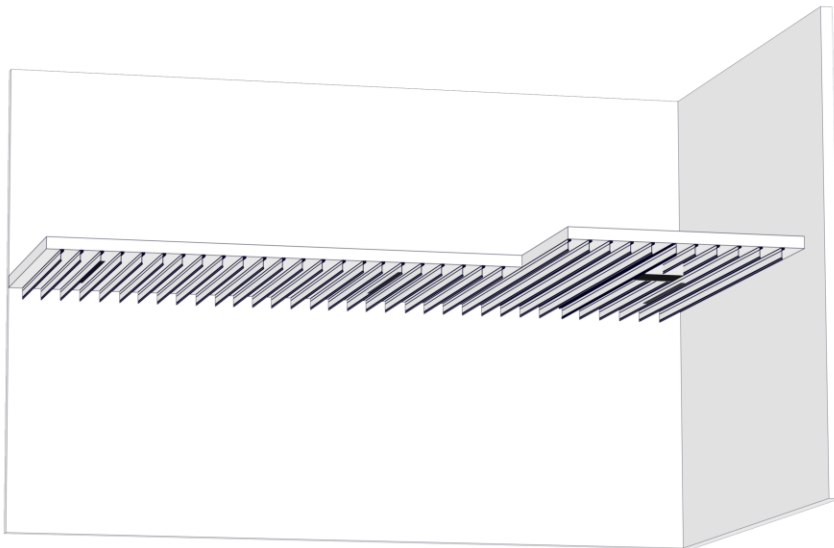
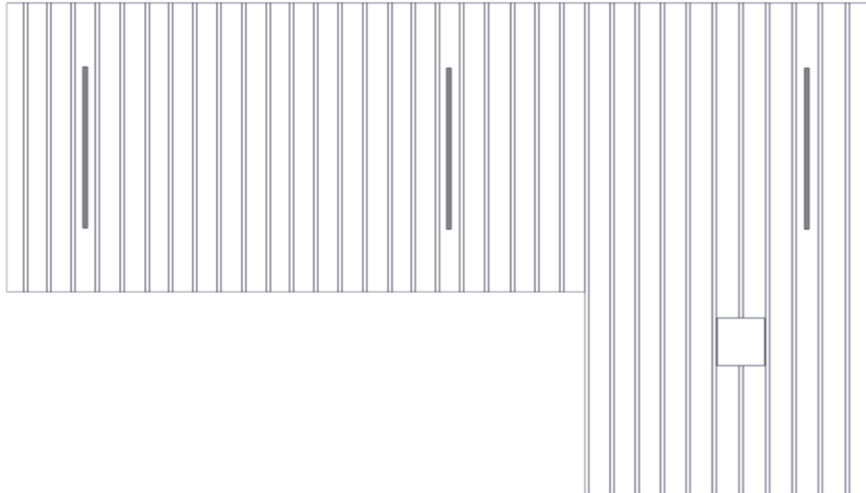
- It is good practice to leave a 1/4" (6mm) gap between every component joint or 24' (7.3m) to allow for expansion & contraction. Consider the joints where components meet each other to dictate which component is installed first (eg: right angle butt joints, mitered joints etc.).
- Mounting Clips and Isolation Washers allow for movement of the battens, to expand & contract during thermal changes.
- Fasten Mounting Clips every 6-8' typical (based on 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.



Link & Lock can cantilever half the allowable attachment span up to a **maximum of 3'** for all sizes and orientation. See Appendix for allowable attachment span: **Tables 3-8**

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.

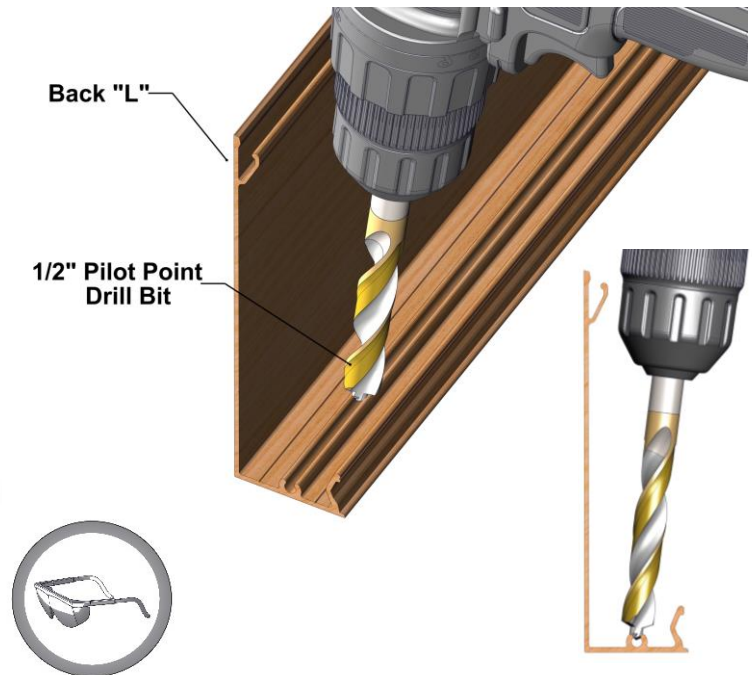
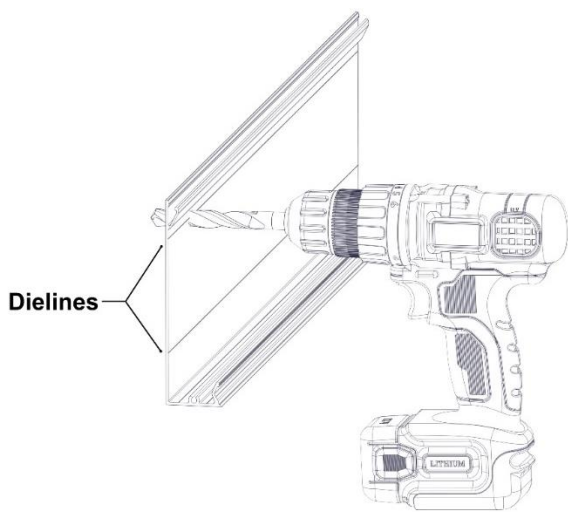
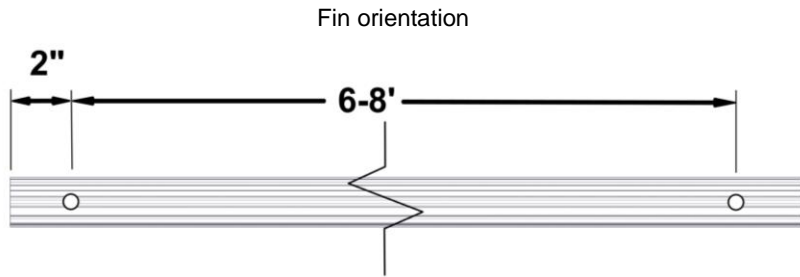
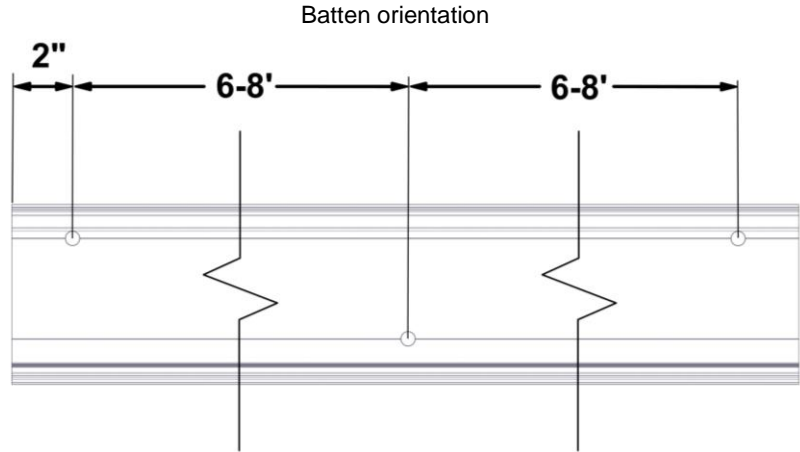
For the Batten orientation, alternate the holes from top to bottom using the Dielines for guides.

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.

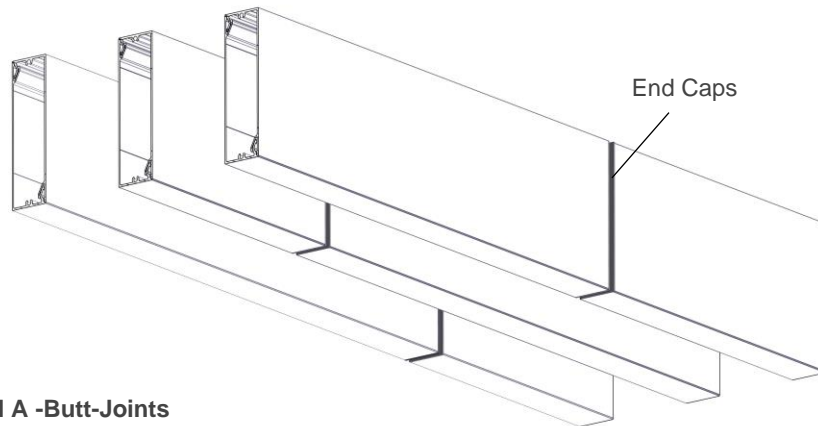
See **Appendix** for project specific fastener spacing:

Allowable Span - Tables 3-8

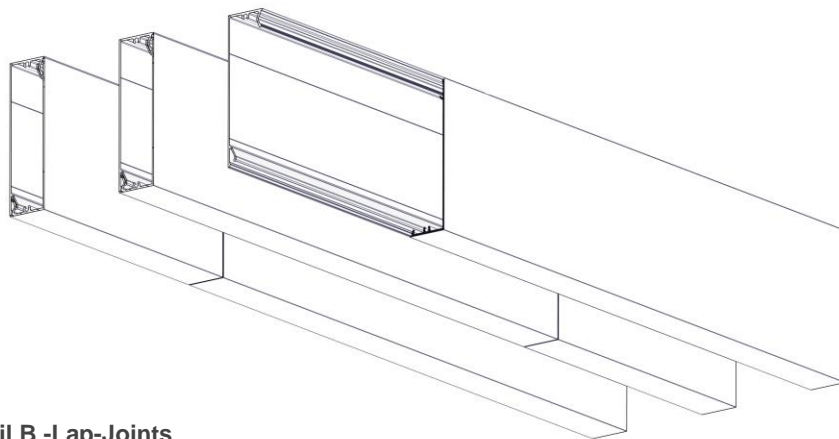


Butt-Joints & Lap Joints

- **⚠ 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 B**). Fasteners should be anchored into a solid secure framing member, blocking, furring strip, or backer plate, etc.
- 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.

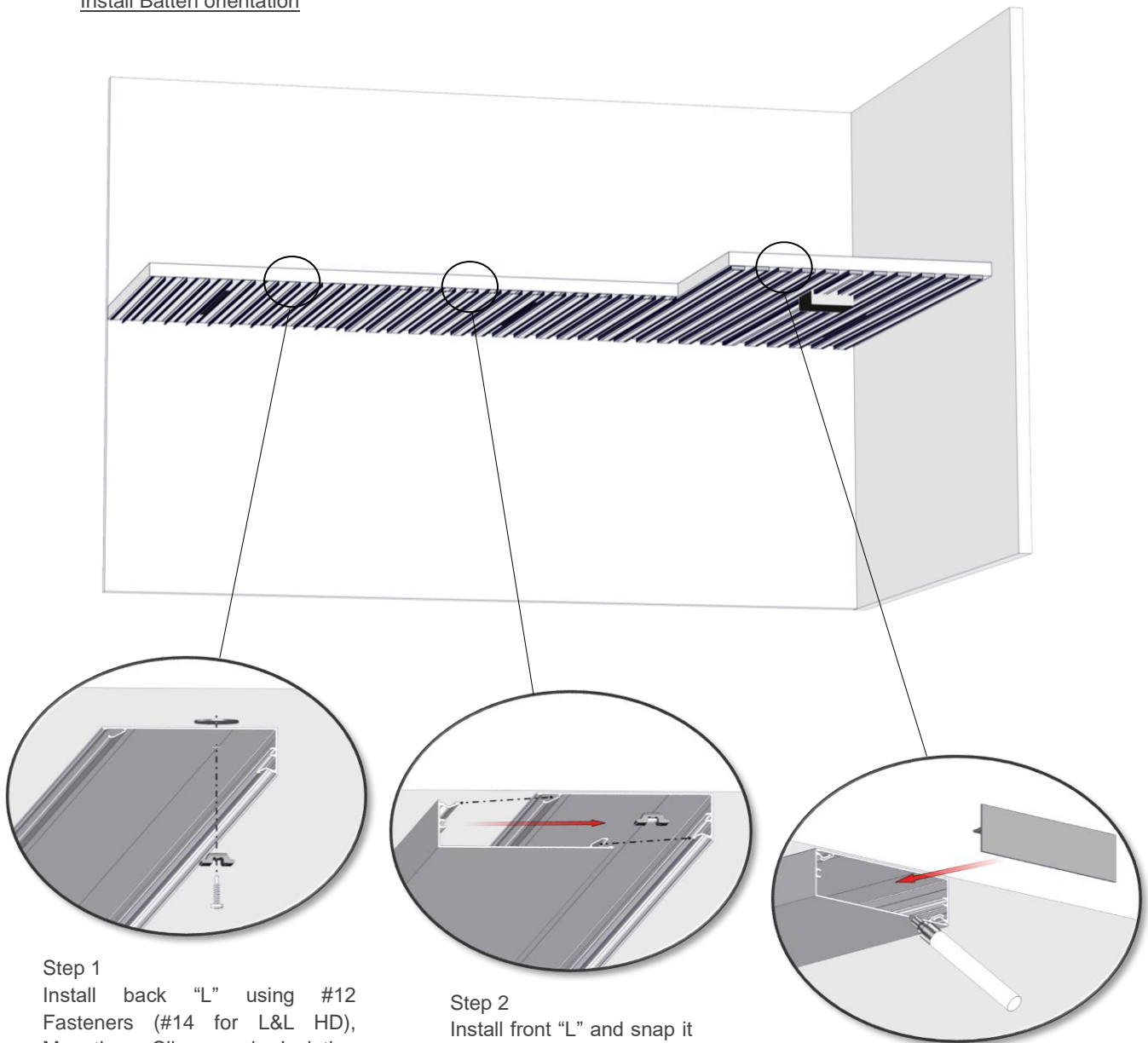


Detail A -Butt-Joints



Detail B -Lap-Joints

Install Batten orientation



Step 1

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.

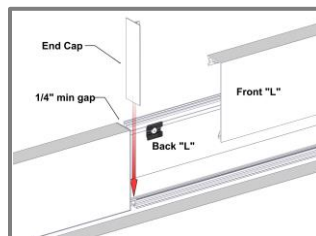


Cut off Taped/Drilled L&L ends (1/2" each end).

Step 2

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.

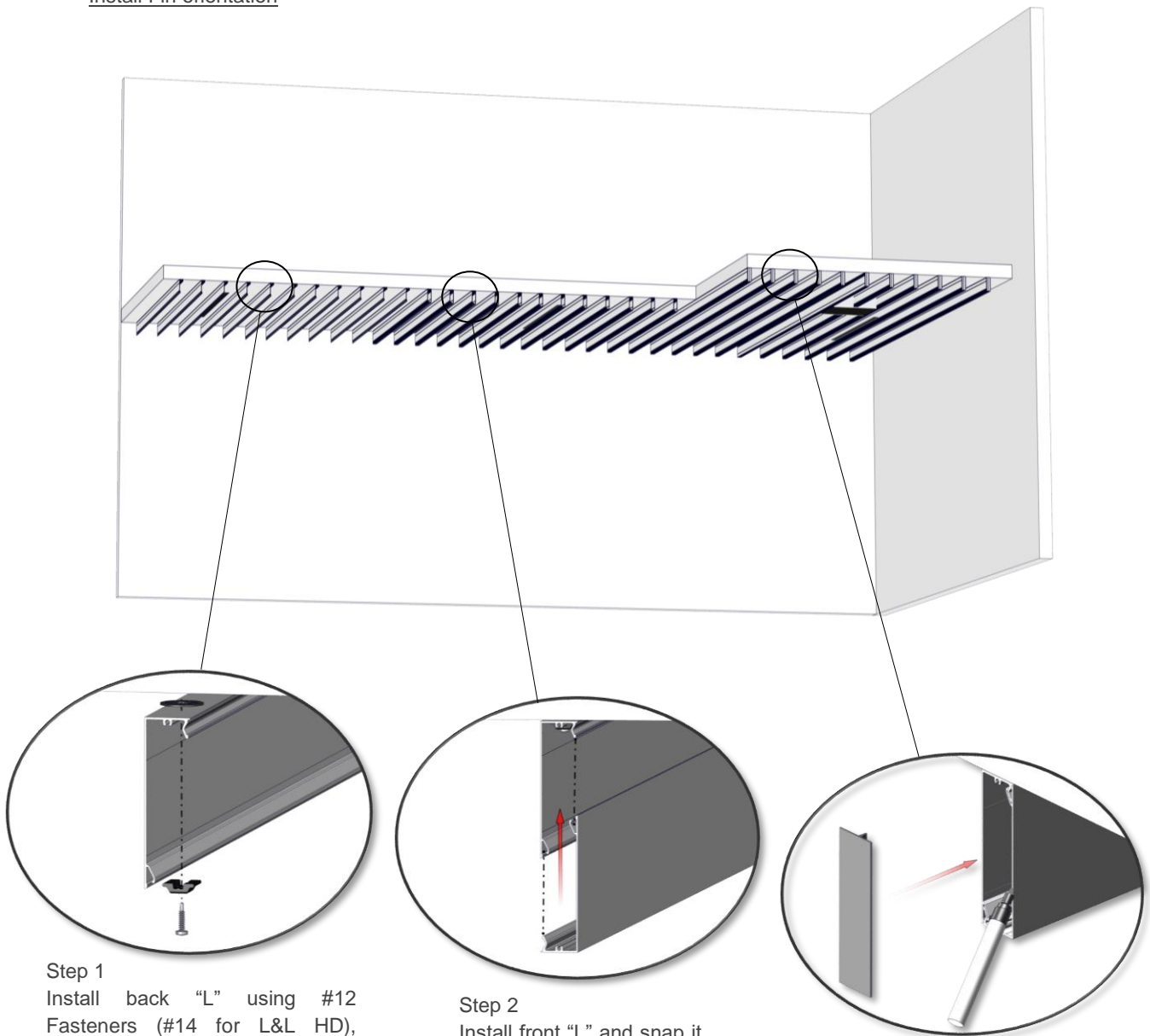


Install End Cap first in tight spaces.

Step 3

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. If required, touch up the cut ends with matching paint pen.

Install Fin orientation



Step 1

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.

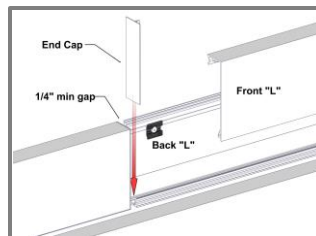


Cut off Taped/Drilled L&L ends (1/2" each end).

Step 2

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.



Install End Cap first in tight spaces.

Step 3

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. If required, touch up the cut ends with matching paint pen.

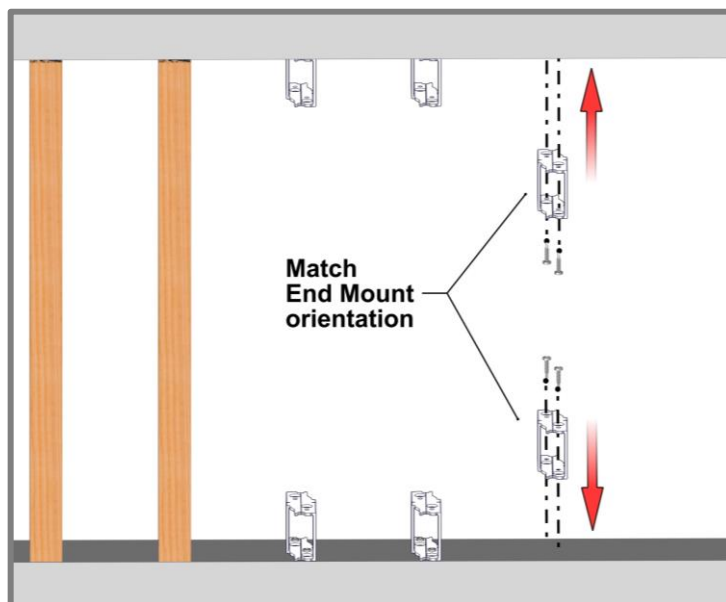
Install End to End orientation

Note: Use Tables 3-8 in Appendix for Allowable Span.

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.

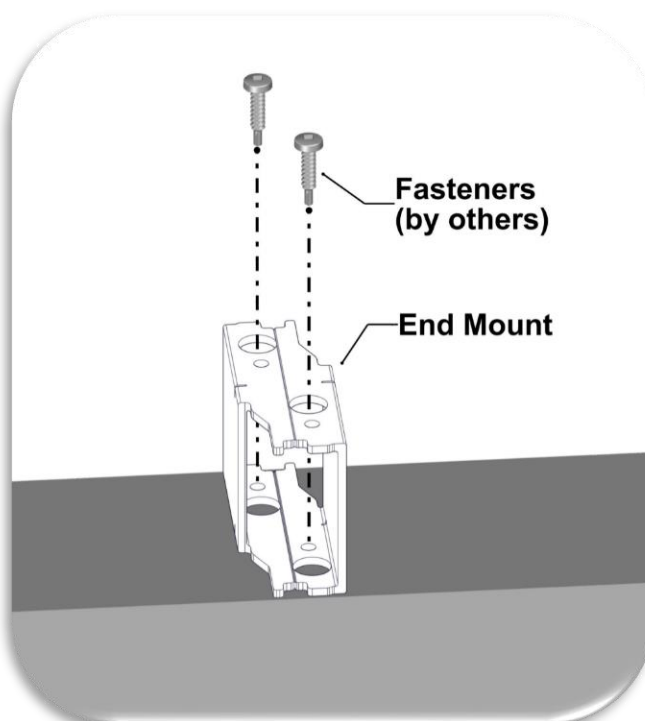
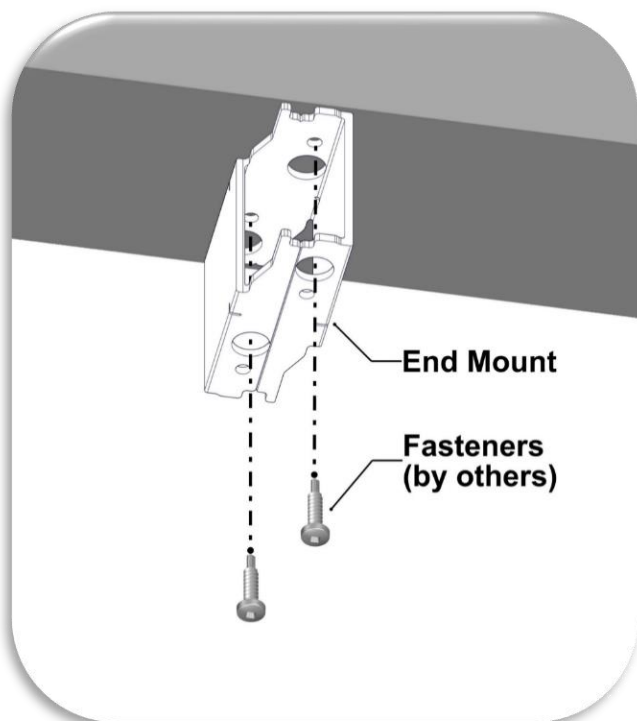
Fastener Types/Sizes for End Mounts		
End Mount	Pan Head	Hex Head
2"	#10	
4"	#12	#12
6"	#12	#12
8"	#12	#12
4" HD	#14	#14
6" HD	#14	#14
8" HD	#14	#14



Step 2

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

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

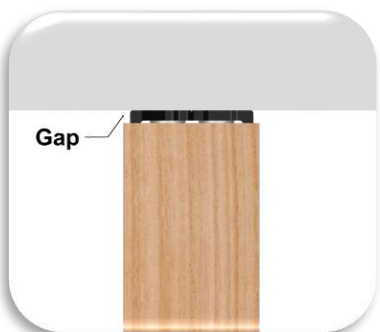


Step 3

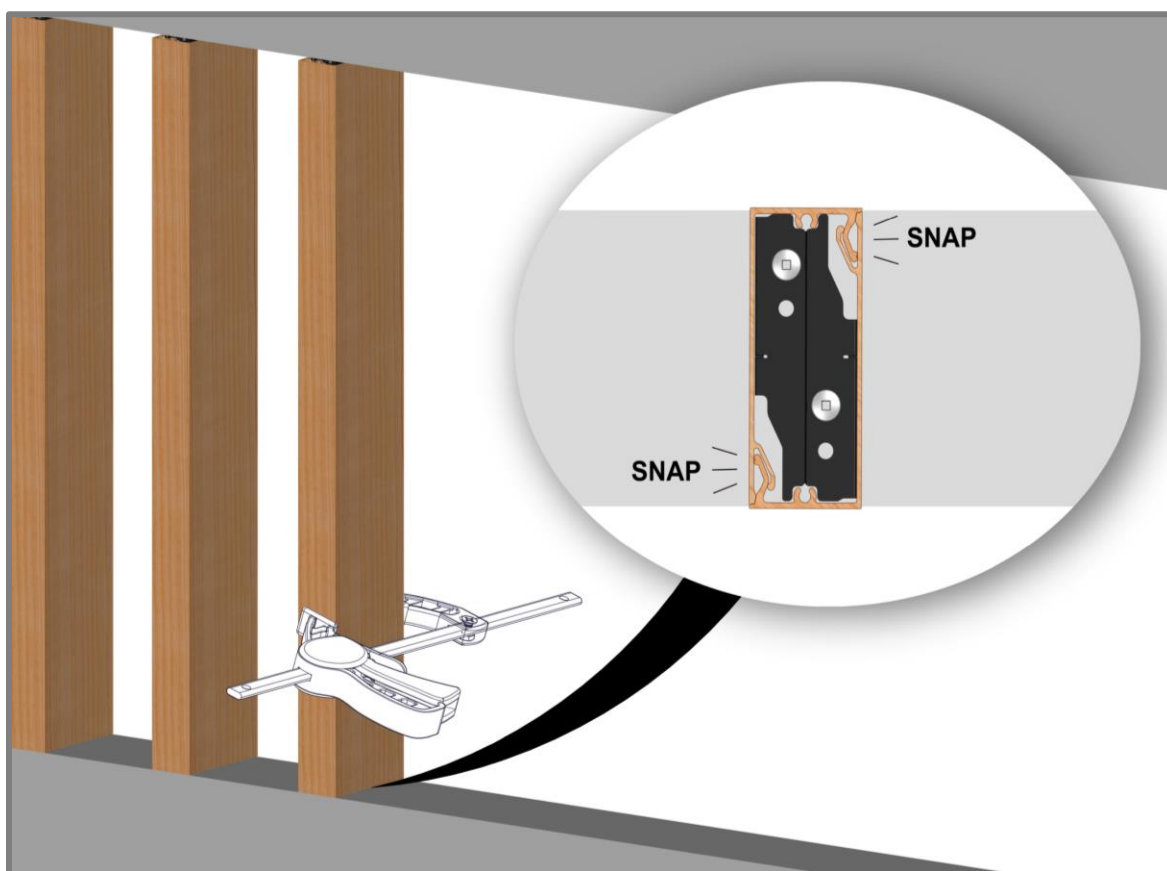
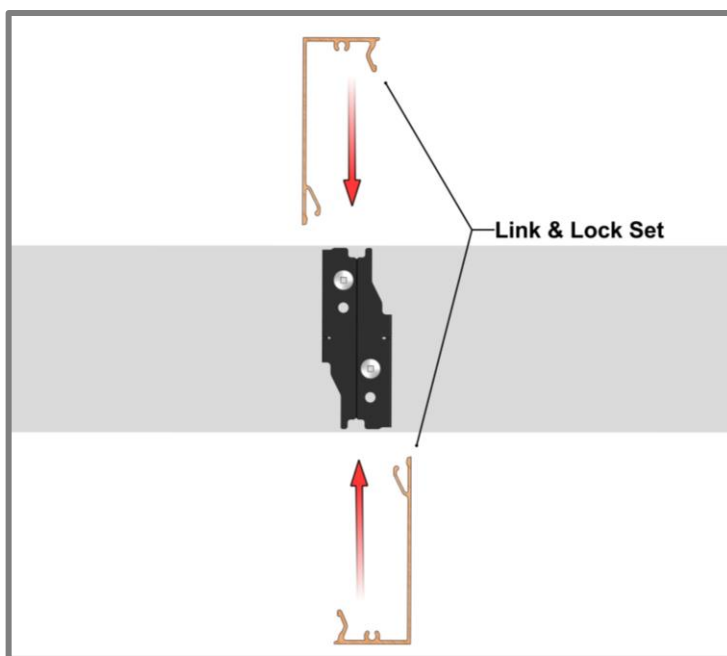
Measure, cut and install Link & Lock Set and snap it into place onto the End Mounts. Use clamps with rubber pads as common practice to securely snap the front "L" onto the back "L".

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

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



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

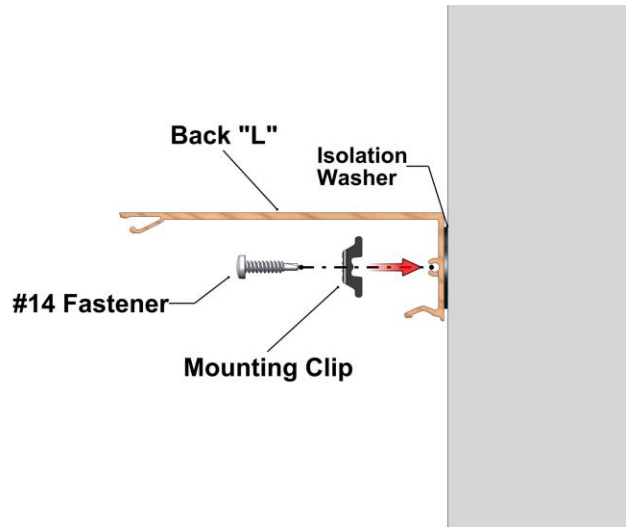


Link & Lock HD

- 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.

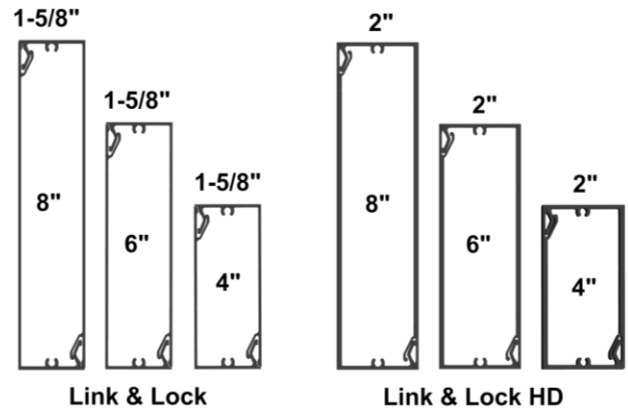
To Compare allowable spans:
See **Appendix for allowable spans for project specific wind load.**
Allowable Span – Tables 4-6



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

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

Profile Comparison



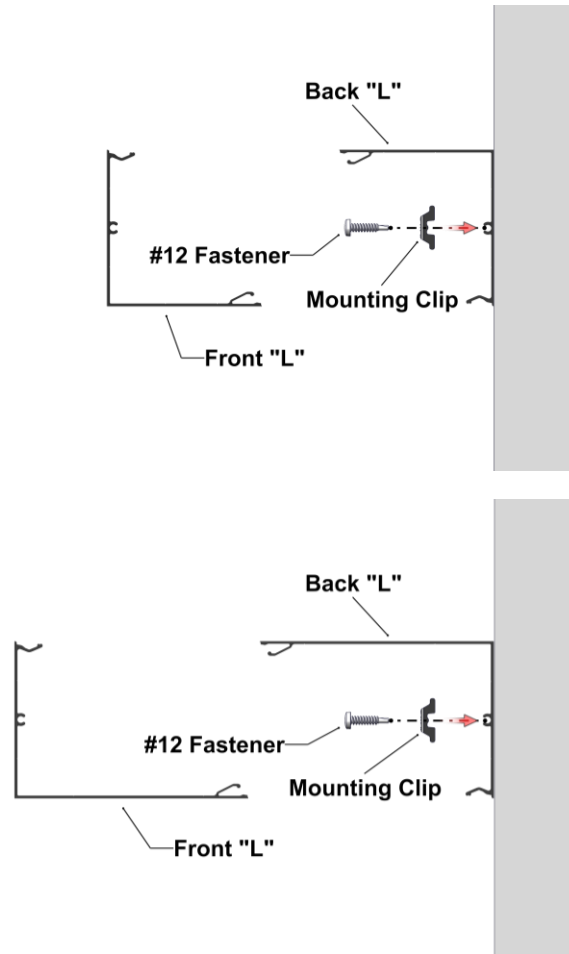
4x4 & 4x6 Link & Lock

- 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 load.

Allowable Span – Tables 7 & 8



Appendix

Expansion and Contraction Tables

TABLE 1 - IMPERIAL

AVERAGE TEMPERATURE AT TIME OF CUTTING & INSTALLATION													
°C	-50	-40	-30	-20	-10	0	10	20	30	40	50		
°F	-58	-40	-22	-4	14	32	50	68	86	104	122		
MIN/MAX POST CONSTRUCTION TEMP.	°C	°F	EXPANSION OR CONTRACTION (INCH/FOOT)										
	-50	-58	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016	-0.019	-0.022	-0.024	-0.027
	-40	-40	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016	-0.019	-0.022	-0.024
	-30	-22	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016	-0.019	-0.022
	-20	-4	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016	-0.019
	-10	14	0.011	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014	-0.016
	0	32	0.014	0.011	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011	-0.014
	10	50	0.016	0.014	0.011	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008	-0.011
	20	68	0.019	0.016	0.014	0.011	0.008	0.005	0.003	0.000	-0.003	-0.005	-0.008
	30	86	0.022	0.019	0.016	0.014	0.011	0.008	0.005	0.003	0.000	-0.003	-0.005
	40	104	0.024	0.022	0.019	0.016	0.014	0.011	0.008	0.005	0.003	0.000	-0.003
	50	122	0.027	0.024	0.022	0.019	0.016	0.014	0.011	0.008	0.005	0.003	0.000

TABLE 2 - METRIC

AVERAGE TEMPERATURE AT TIME OF CUTTING & INSTALLATION													
°C	-50	-40	-30	-20	-10	0	10	20	30	40	50		
°F	-58	-40	-22	-4	14	32	50	68	86	104	122		
MIN/MAX POST CONSTRUCTION TEMP.	°C	°F	EXPANSION OR CONTRACTION (MM/METER)										
	-50	-58	0.000	-0.230	-0.460	-0.690	-0.920	-1.150	-1.380	-1.610	-1.840	-2.070	-2.300
	-40	-40	0.230	0.000	-0.230	-0.460	-0.690	-0.920	-1.150	-1.380	-1.610	-1.840	-2.070
	-30	-22	0.460	0.230	0.000	-0.230	-0.460	-0.690	-0.920	-1.150	-1.380	-1.610	-1.840
	-20	-4	0.690	0.460	0.230	0.000	-0.230	-0.460	-0.690	-0.920	-1.150	-1.380	-1.610
	-10	14	0.920	0.690	0.460	0.230	0.000	-0.230	-0.460	-0.690	-0.920	-1.150	-1.380
	0	32	1.150	0.920	0.690	0.460	0.230	0.000	-0.230	-0.460	-0.690	-0.920	-1.150
	10	50	1.380	1.150	0.920	0.690	0.460	0.230	0.000	-0.230	-0.460	-0.690	-0.920
	20	68	1.610	1.380	1.150	0.920	0.690	0.460	0.230	0.000	-0.230	-0.460	-0.690
	30	86	1.840	1.610	1.380	1.150	0.920	0.690	0.460	0.230	0.000	-0.230	-0.460
	40	104	2.070	1.840	1.610	1.380	1.150	0.920	0.690	0.460	0.230	0.000	-0.230
	50	122	2.300	2.070	1.840	1.610	1.380	1.150	0.920	0.690	0.460	0.230	0.000

TABLE 3



FASTENER SPACING - LOAD TABLE

v1.1

2" LINK & LOCK™ INTREPID		PSF (Factored / Ultimate)											
		10	20	30	40	50	60	70	80	90	100	110	120
Standard													
ALLOWABLE SPAN (FT)*	6'												
	8'												
	10'												
	12'												

*CANTILEVERS are not to exceed half (1/2) the allowable span to a maximum of 3'

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 metal structure	1/2"
ALUMINUM	Min. 1/8", Min. 6063-T5			
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		1"	2"

GENERAL NOTES:

- 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
- 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.
- 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.
- 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.
- 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:

- One (1) installation anchor is required at each location. Minimum of two (2) anchors per batten.
- Spacing is from fastener center to center.
- The number of installation anchors per the table is the minimum number of anchors to be used for product installation.
- 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.
- Minimum embedment and edge distance exclude wall finishes, including but not limited to stucco, foam, brick veneer, sheathing and siding.
- 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:
 - Zinc plated fasteners for moderate climate zones
 - 316 Stainless Steel fasteners for coastal climate zones
- 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.
- 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.
- When using end mounts, span distance is measured center to center of each end mount.

TABLE 4



FASTENER SPACING - LOAD TABLE

v1.1

4" LINK & LOCK™ INTREPID			PSF (Factored / Ultimate)											
Standard	Standard w. Stiffener	HD	10	20	30	40	50	60	70	80	90	100	110	120
ALLOWABLE SPAN (FT)*			6'					Standard w. Stiffener			HD			
			8'				Standard w. Stiffener		HD					
			10'		Standard w. Stiffener		HD							
			12'	Standard w. Stiffener		HD								
			14'	HD										
			16'	HD										

*CANTILEVERS are not to exceed half (1/2) the allowable span to a maximum of 3'

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 metal structure	1/2"
ALUMINUM	Min. 1/8", Min. 6063-T5			
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		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.

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.

TABLE 5



LONGBOARD®

INSPIRING ARCHITECTURE

FASTENER SPACING - LOAD TABLE

v1.1

6" LINK & LOCK™ INTREPID			PSF (Factored / Ultimate)											
Standard	Standard w. Stiffener	HD	10	20	30	40	50	60	70	80	90	100	110	120
ALLOWABLE SPAN (FT)*	6'						Standard w. Stiffener	HD						
	8'		Standard w. Stiffener			HD								
	10'		Standard w. Stiffener		HD									
	12'	Standard w. Stiffener	HD											
	14'	HD												
	16'	HD												

*CANTILEVERS are not to exceed half (1/2) the allowable span to a maximum of 3'

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 metal structure	1/2"
ALUMINUM	Min. 1/8", Min. 6063-T5			
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		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.

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.

TABLE 6



LONGBOARD®

INSPIRING ARCHITECTURE

FASTENER SPACING - LOAD TABLE

v.1.1

8" LINK & LOCK™ INTREPID			PSF (Factored / Ultimate)												
Standard	Standard w. Stiffener	HD	10	20	30	40	50	60	70	80	90	100	110	120	
ALLOWABLE SPAN (FT)*			6'				Standard w. Stiffener	HD							
			8'		Standard w. Stiffener	HD									
			10'	Standard w. Stiffener	HD										
			12'	HD											
			14'	HD											

*CANTILEVERS are not to exceed half (1/2) the allowable span to a maximum of 3'

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 metal structure	1/2"
ALUMINUM	Min. 1/8", Min. 6063-T5			
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		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.

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.

TABLE 7



FASTENER SPACING - LOAD TABLE

v.1.2

4X4 LINK & LOCK™		PSF (Factored / Ultimate)										
Standard		20	30	40	50	60	70	80	90	100	110	120
ALLOWABLE SPAN (FT)*	8'											
	10'											
	12'											

*CANTILEVERS are not to exceed 3'

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 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 Screw (Grade 5)	3 threads penetration past metal structure	1/2"
ALUMINUM	Min. 1/8", Min. 6063-T5			
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		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.

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.

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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.

TABLE 8



LONGBOARD®

INSPIRING ARCHITECTURE

FASTENER SPACING - LOAD TABLE

v1.2

4X6 LINK & LOCK™		PSF (Factored / Ultimate)										
Standard		20	30	40	50	60	70	80	90	100	110	120
ALLOWABLE SPAN (FT)*	8'											
	10'											
	12'											

*CANTILEVERS are not to exceed 3'

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 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 Screw (Grade 5)	3 threads penetration past metal structure	1/2"
ALUMINUM	Min. 1/8", Min. 6063-T5			
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		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.

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:

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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.

Sound Absorption (NRC & SAA)

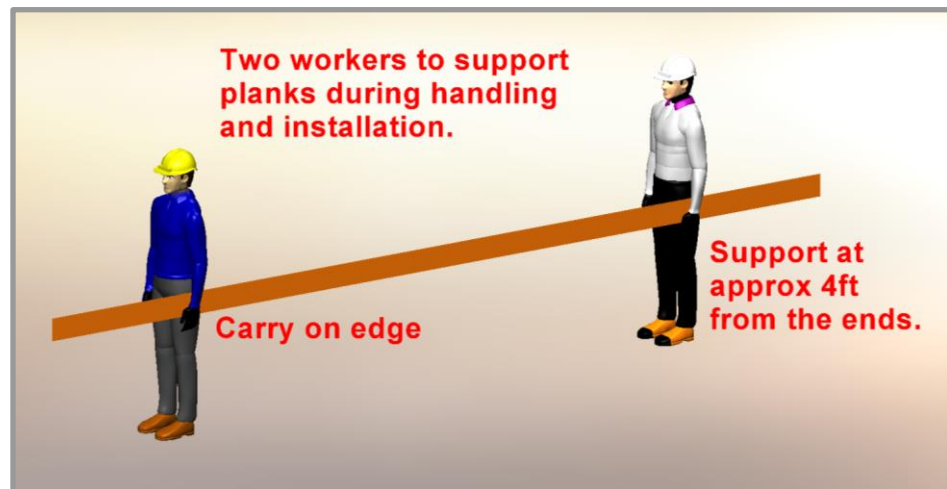
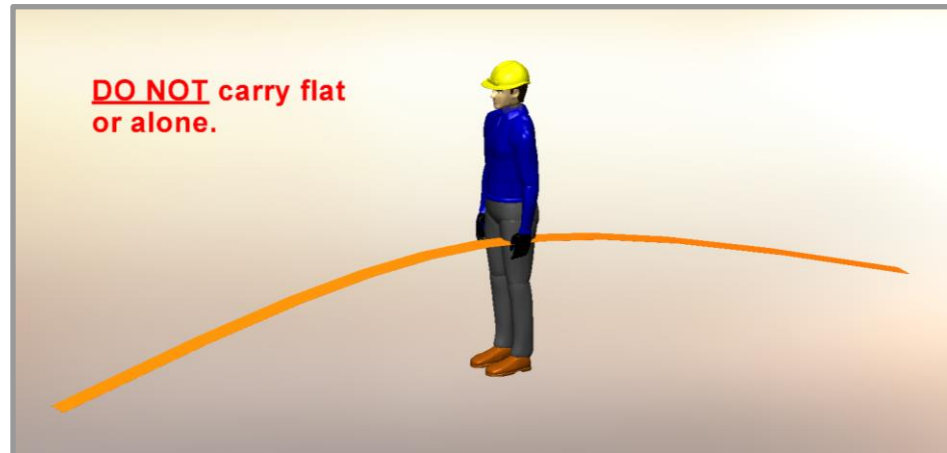
Metal Linear Ceilings -Open Joint Systems	Backer (Insulation)	NRC	SAA
PROVIDED BY LONGBOARD			
6" Link & Lock Baffles	No Backer	0.10	0.12
LONGBOARD BAFFLES WITH BACKER PROVIDED BY OTHERS			
6" Link & Lock Baffles @ 6" O.C.	Fiberglass 1" thickness @ 3lbs/ft3	0.80	0.81

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

Proper Handling of Longboard Products



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



⚠️ Delivery, Storage & Handling ⚠️

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

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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.