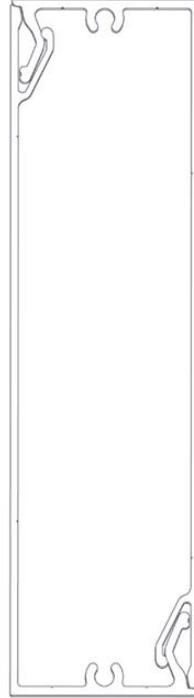
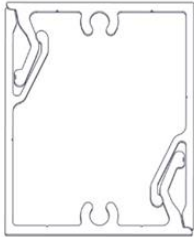




LONGBOARD®
INSPIRING ARCHITECTURE



Link & Lock™ Soffit

Installation Guidelines

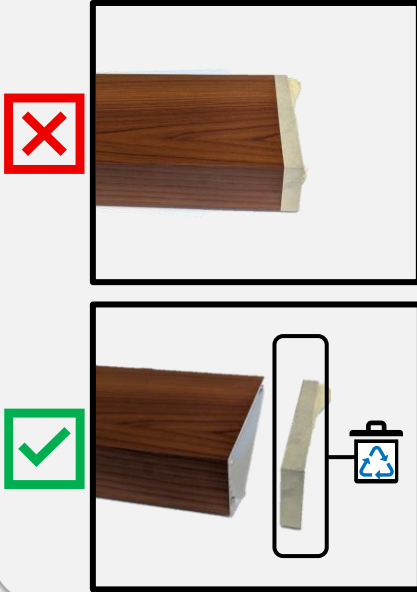
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CRITICAL DETAILS

CUT TAPED/DRILLED ENDS

CUT Factory Ends.

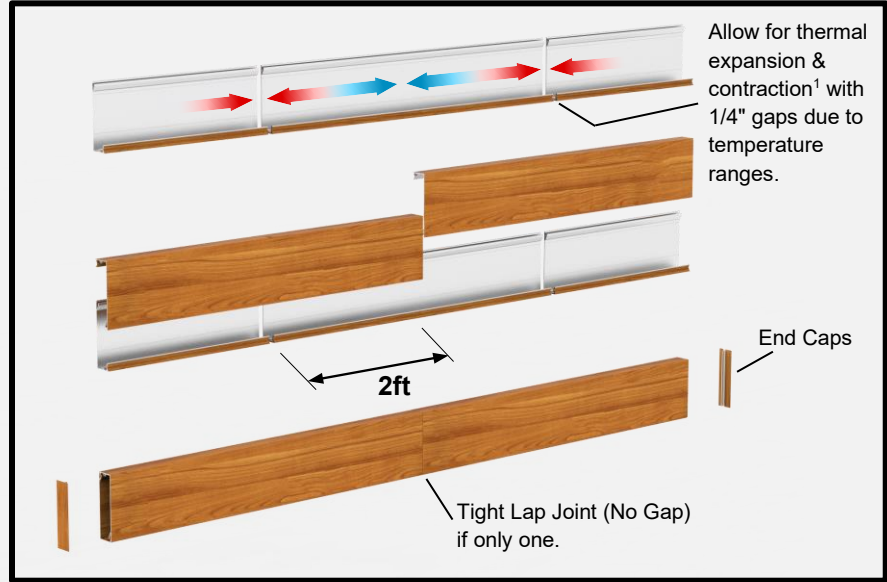


LAP JOINTS & THERMAL MOVEMENT¹

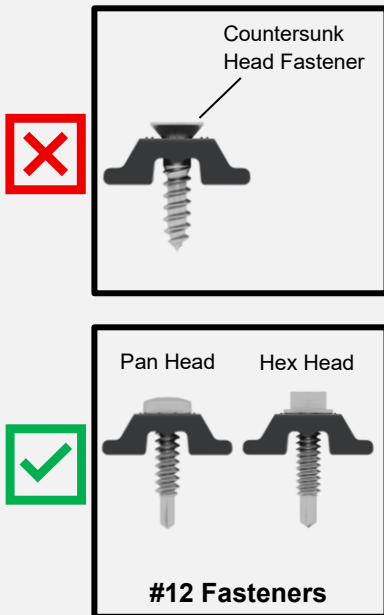
Overlap L&L joints min 2ft.



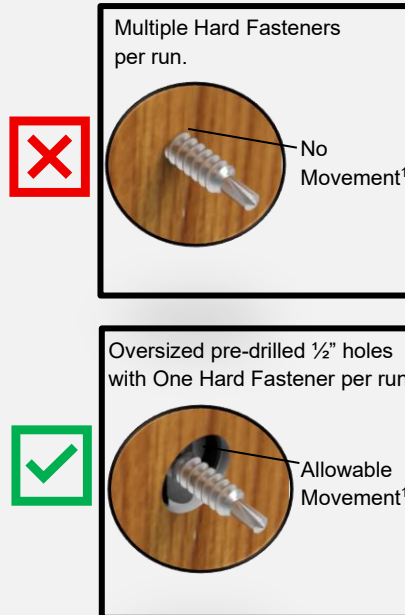
THERMAL CALCULATOR DOWNLOAD¹



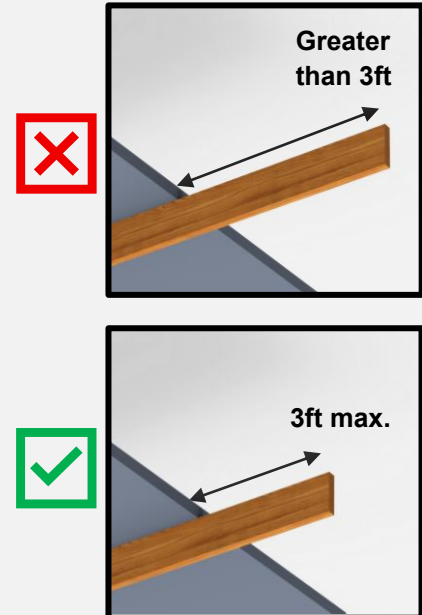
FASTENERS



HARD FASTENER



CANTILEVER



! Note 1: We recommend calculating the site specific temperature ranges for thermal expansion & contraction values.

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: | 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 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Oil Based Spray Paint | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Water Based Spray Paint | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Adhesive Tape | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |


MEK Solvent 

Prosoco Anti-Graffiti Cleaner 

SPECIAL ORDER - EXT. LEAD TIMES CONTACT LB

Anti-Graffiti High Gloss Woodgrain

| | MEK Solvent |
|-------------------------|-------------------------------------|
| Permanent Marker | <input checked="" type="checkbox"/> |
| Oil Based Spray Paint | <input checked="" type="checkbox"/> |
| Water Based Spray Paint | <input checked="" type="checkbox"/> |
| Adhesive Tape | <input checked="" type="checkbox"/> |

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 | - |



| 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 |



Link & Lock™ Mounting Brackets


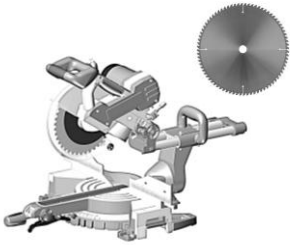

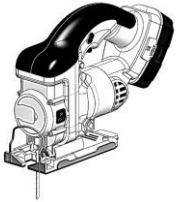

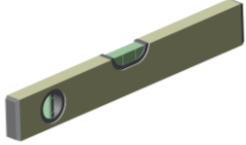


| Product | Single | Dual |
|--------------------|------------|-------------|
| 45° LEFT FIXED | LLMBK.45LF | LLDMBK.45LF |
| 45° RIGHT FIXED | LLMBK.45RF | LLDMBK.45RF |
| 90° CENTER FIXED | LLMBK.90F | LLDMBK.90F |
| 45° LEFT SLIDING | LLMBK.45LS | LLDMBK.45LS |
| 45° RIGHT SLIDING | LLMBK.45RS | LLDMBK.45RS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



Tools/Cutting/Fastening

Tools

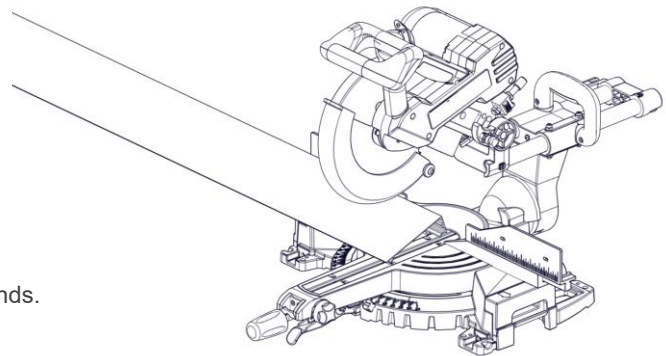
Commonly used tools for Link & Lock install.

| | | | |
|---|---|--|---|
|  |  |  |  |
| 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 3-9** 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 |

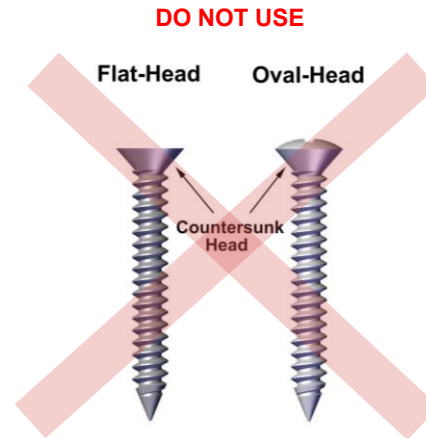
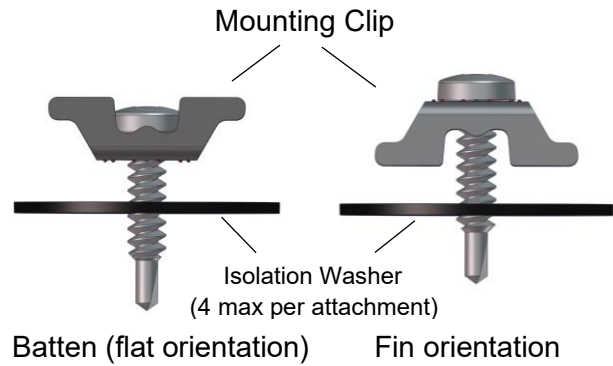
Fastener types

RECOMMENDED

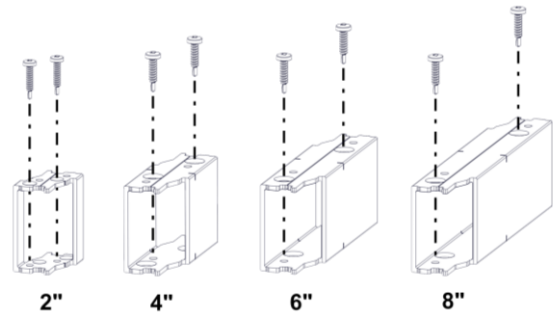
Pan-Head Rounded-Head Self-Drilling Flanged Hex Head



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



| Fastener Types/Sizes for End Mounts | | |
|-------------------------------------|----------|----------|
| End Mount | Pan Head | Hex Head |
| 2" | #10 | X |
| 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

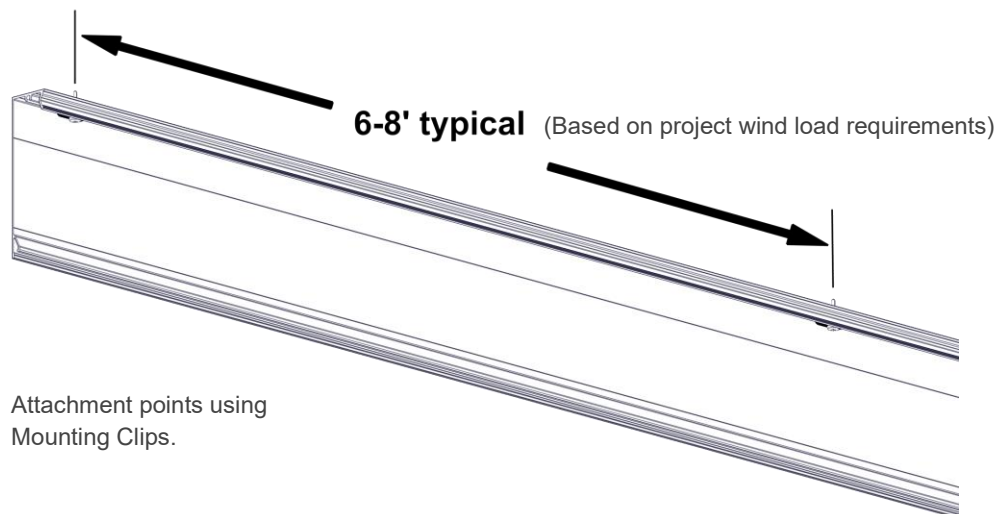
Install details

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 |

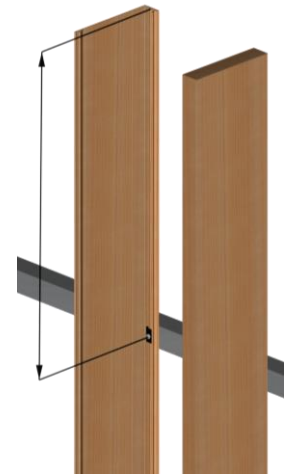
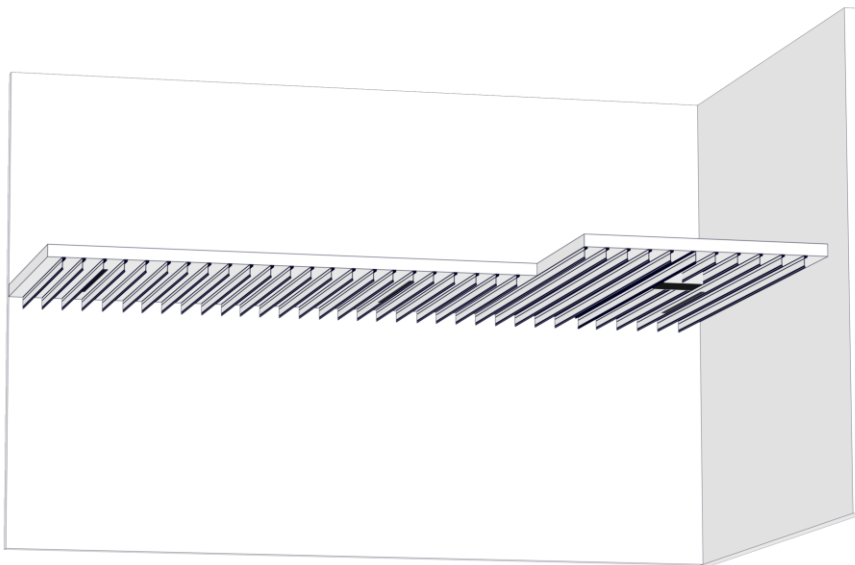
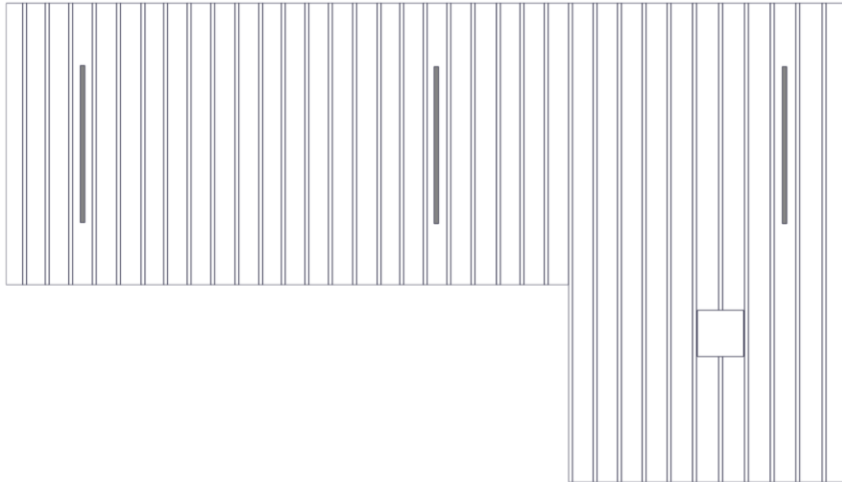
- Longboard Products are not recommended for use on marine applications in direct contact with salt water.
- Link & Lock is an open-joint system which is required to be installed outboard of a weather resistant barrier, including all flashings, following code, and building requirements.
- It is good 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.



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 3-9

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.

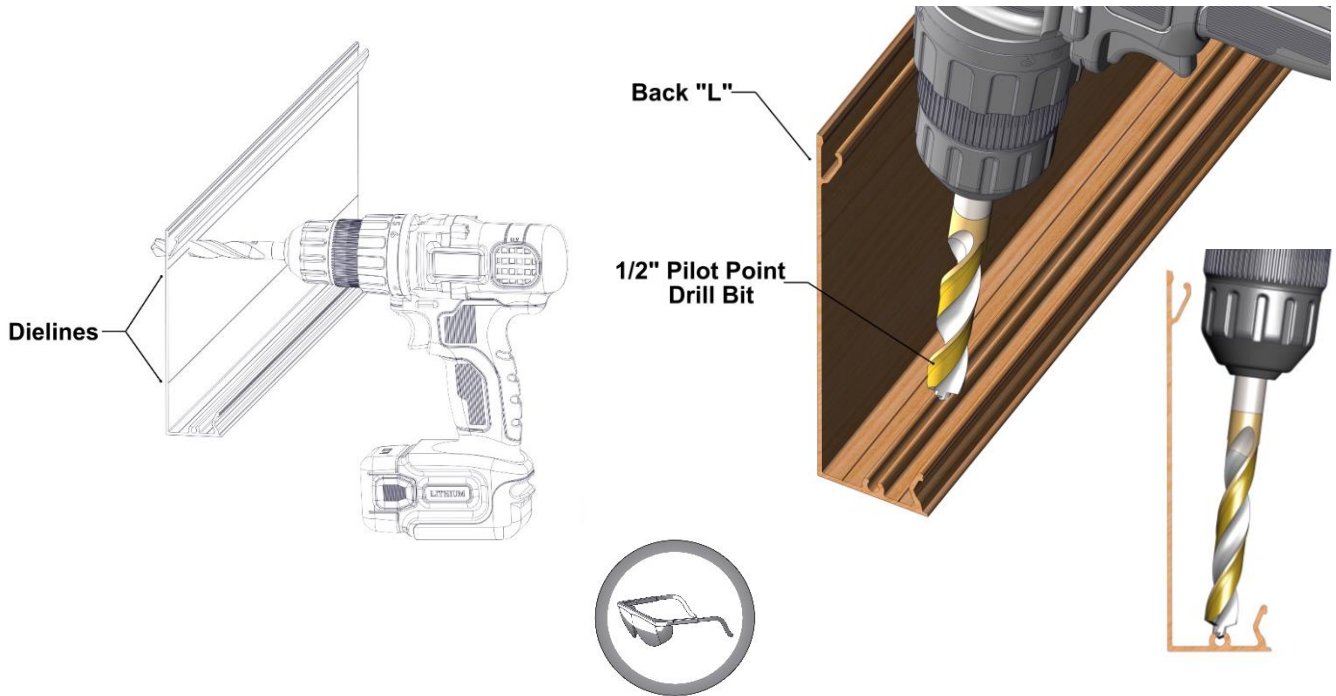
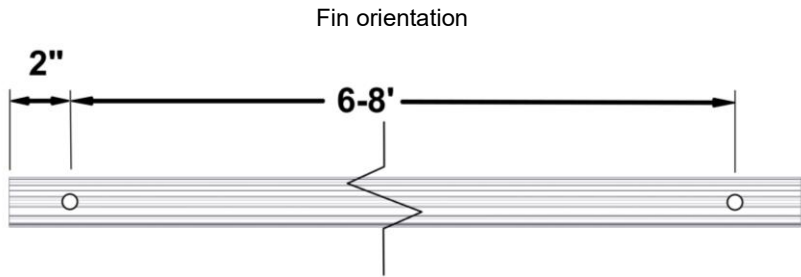
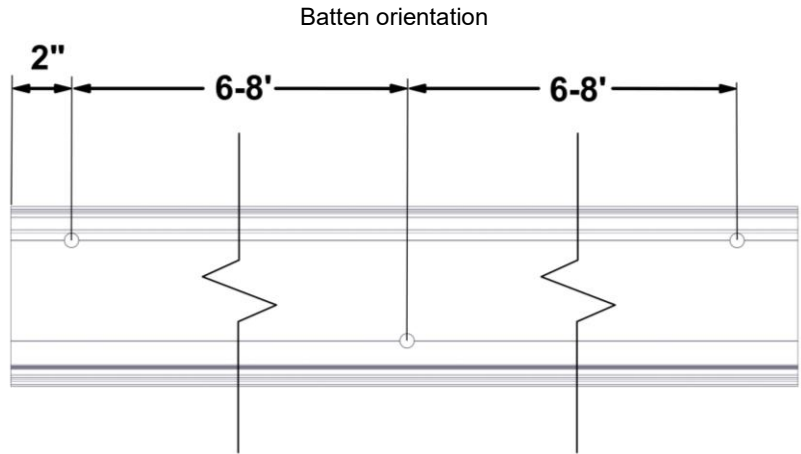
For the Batten orientation, alternate the holes from top to bottom using the Dielines for guides.

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.

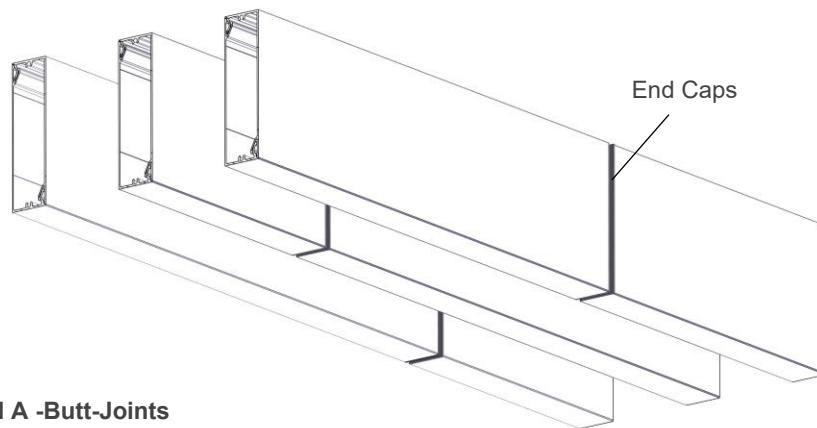
See **Appendix for project specific fastener spacing:**

Allowable Span - Tables 3-9

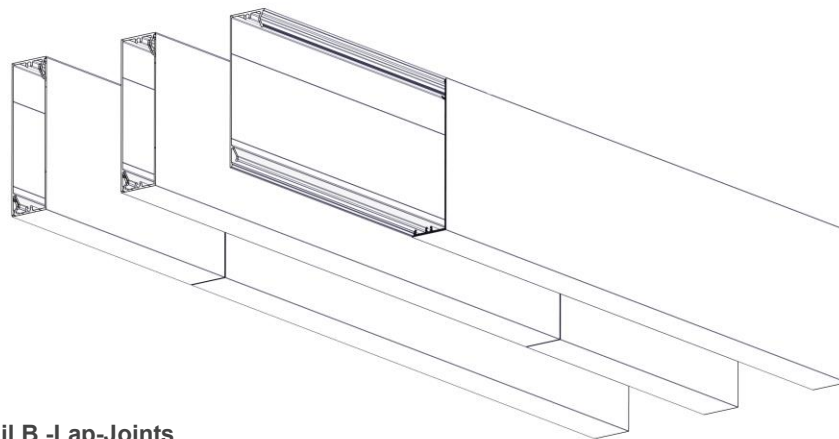


Butt-Joints & Lap Joints

- **⚠ 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 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.

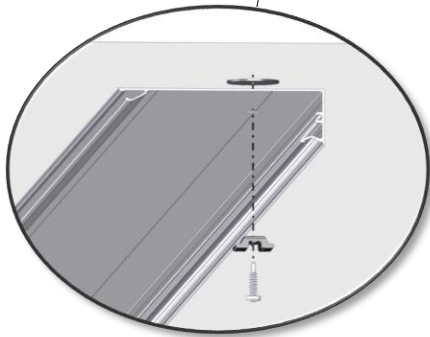
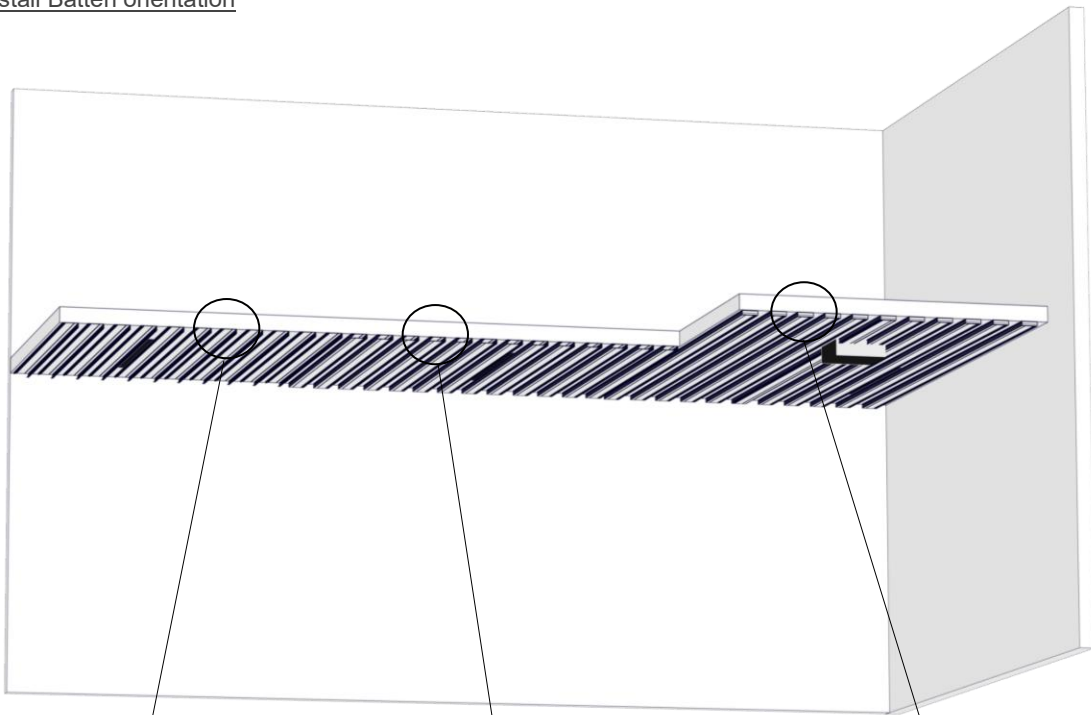


Detail A -Butt-Joints



Detail B -Lap-Joints

Install Batten orientation



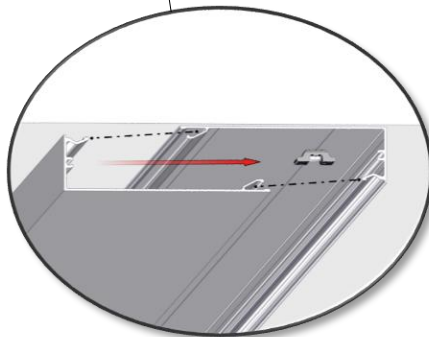
Step 1

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.



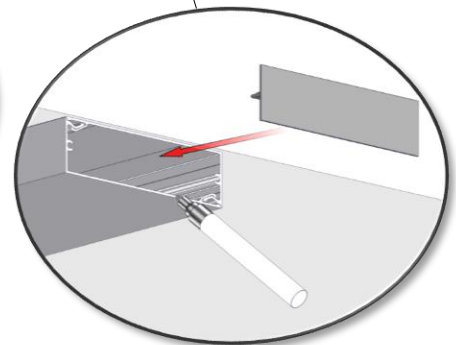
Cut off Taped/Drilled L&L ends (1/2" each end).



Step 2

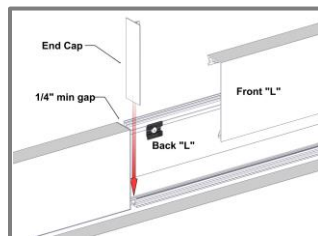
Install front "L" and snap it into place, aligning it with ends and joints.

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



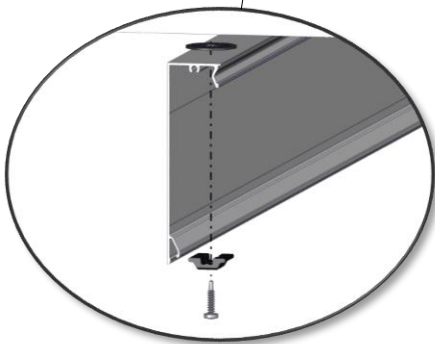
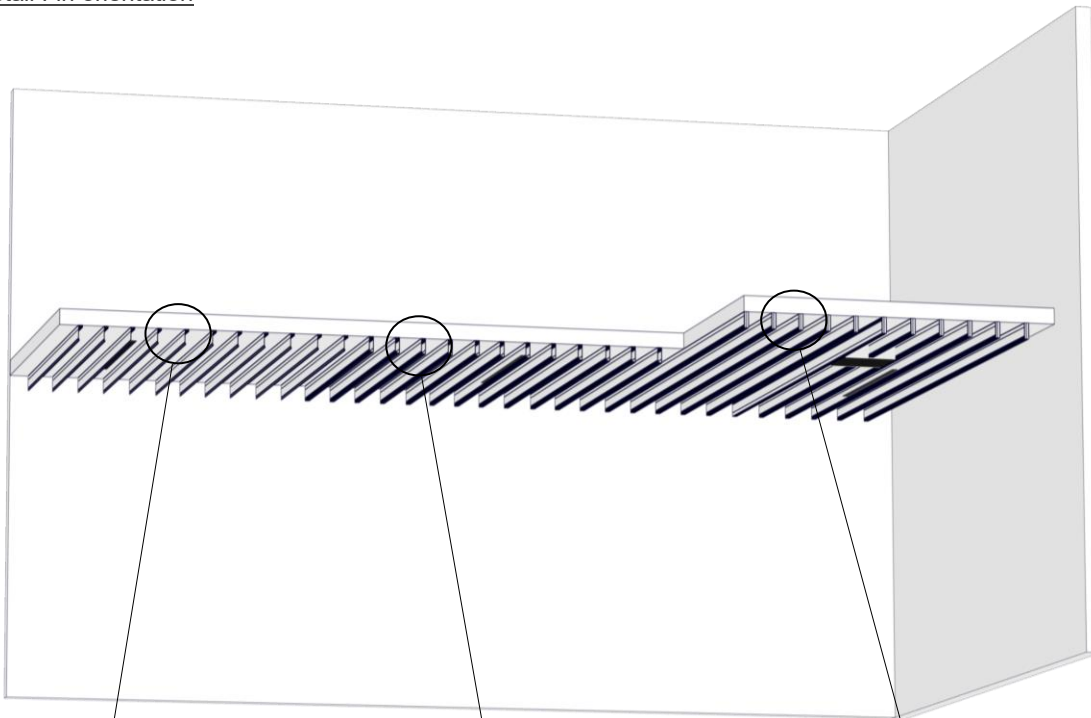
Step 3

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 Cap first in tight spaces.

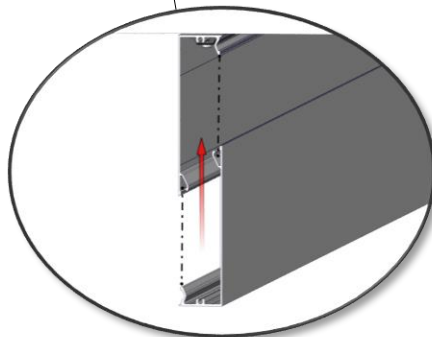
Install Fin orientation



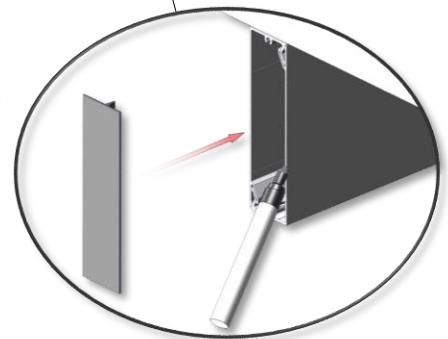
Step 1
Install back "L" using #12 Fasteners (#14 for L&L HD), Mounting Clips and Isolation Washers every 6-8' O.C. typical. Isolation Washers are installed between the L&L and the substrate (4 max per attachment).

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.

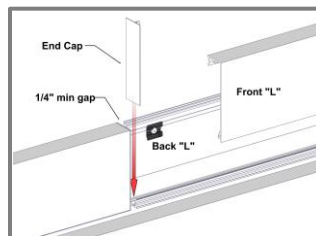
! Cut off Taped/Drilled L&L ends (1/2" each end).



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.



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 Cap first in tight spaces.

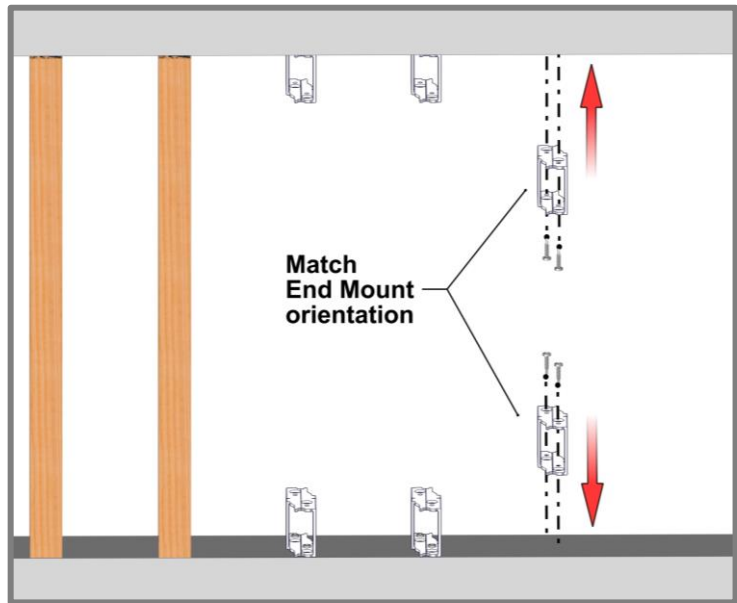
Install End to End orientation

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.

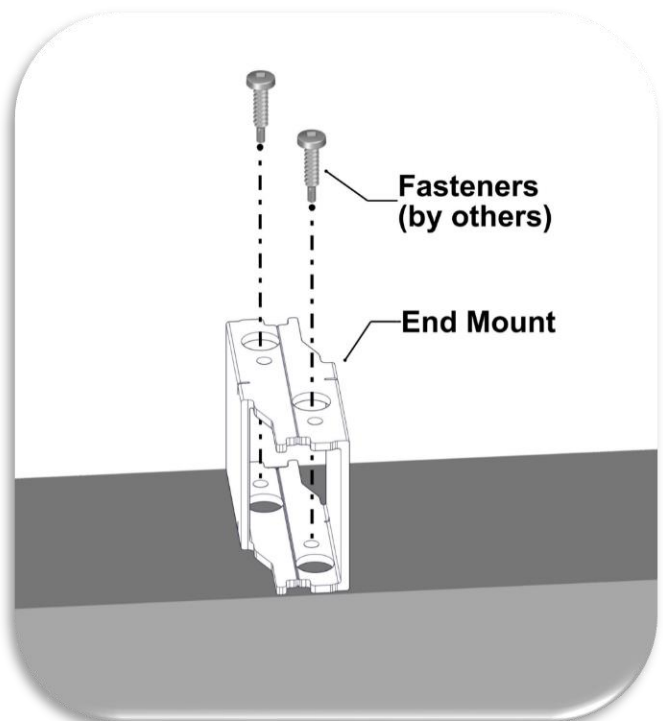
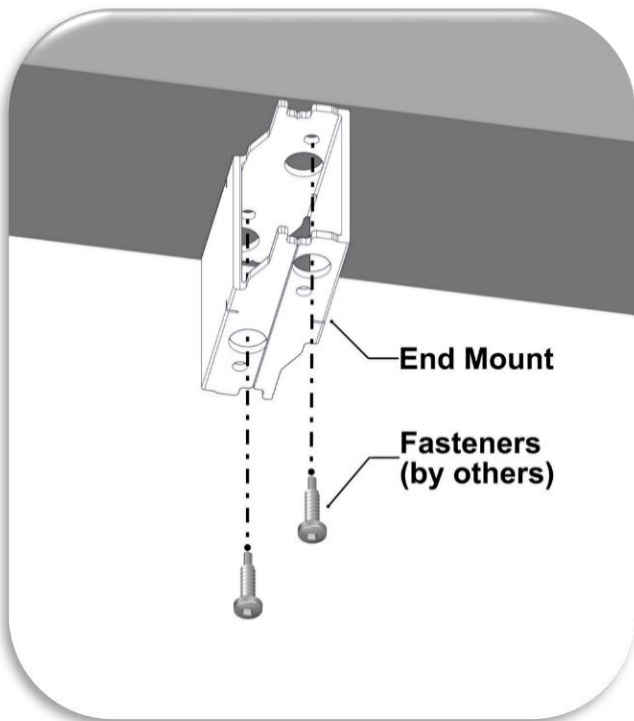
| Fastener Types/Sizes for End Mounts | | |
|-------------------------------------|----------|----------------|
| End Mount | Pan Head | Hex Head |
| 2" | #10 | #12 |
| 4" | #12 | #12 |
| 6" | #12 | #12 |
| 8" | #12 | #12 |
| 4" HD | #14 | #14 |
| 6" HD | #14 | #14 |
| 8" HD | #14 | #14 |



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**.

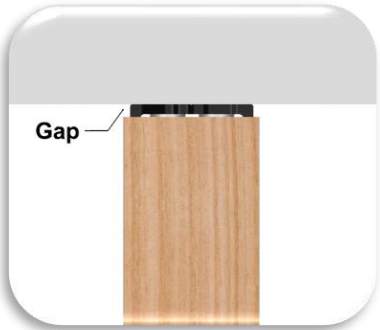
! TIP: Check the position of the End Mounts once installed to allow a plumb and straight look.



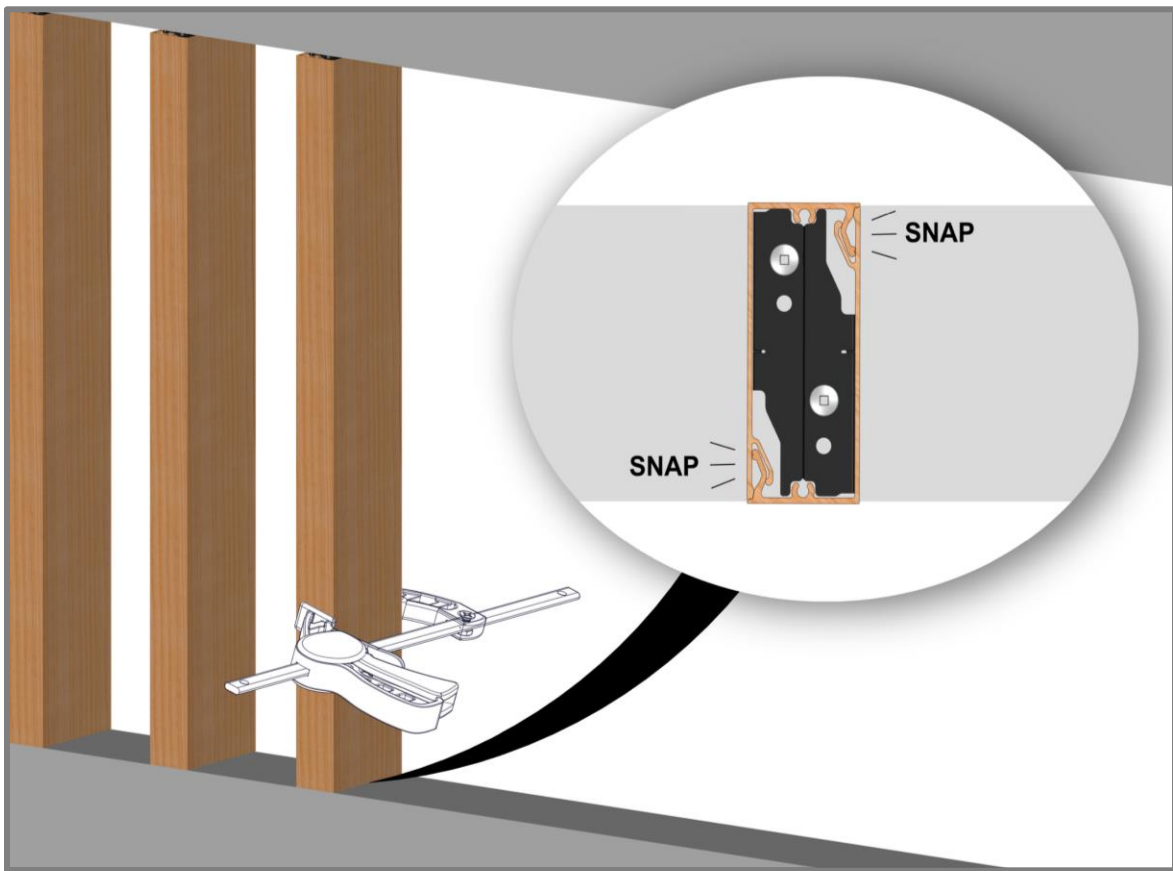
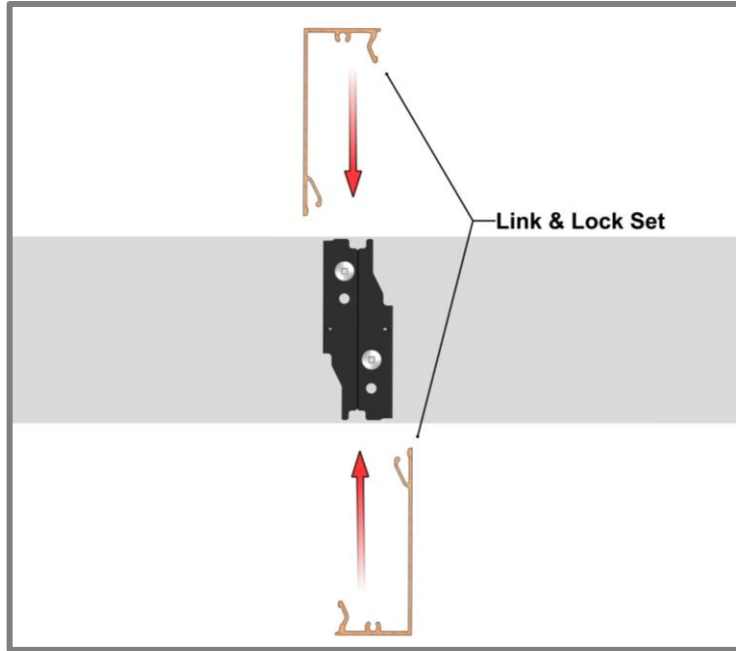
Step 3

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).



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 the next page.



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

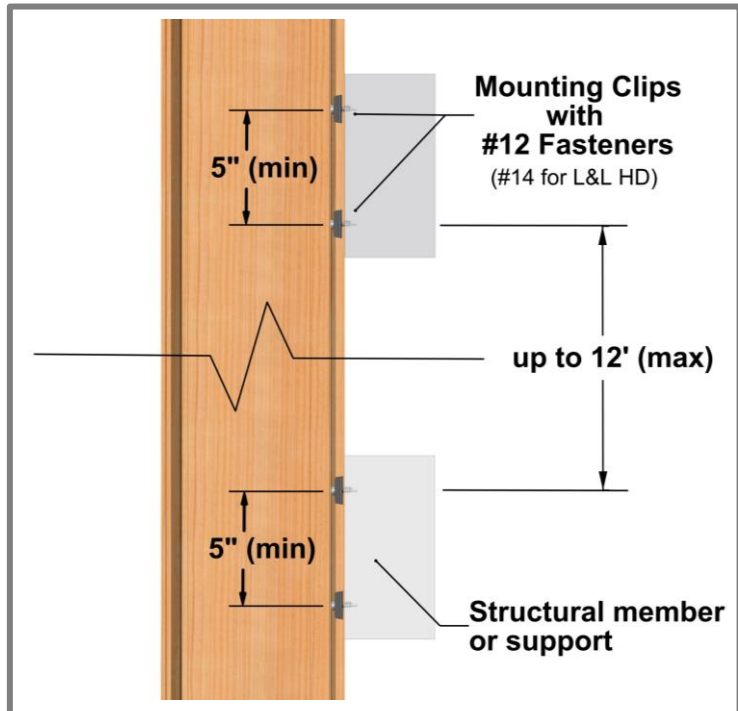
Step 1

Place predrilled Link & Lock back "L" into position (See Drilling page). 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.

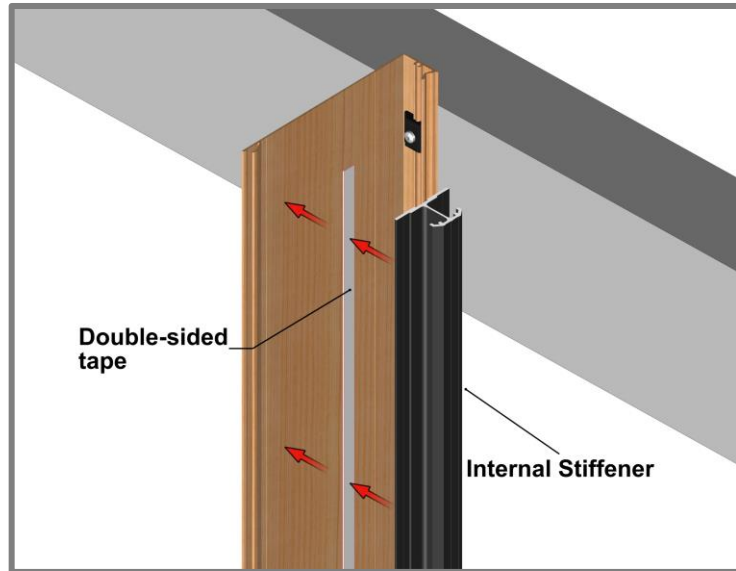
Note: Be sure to fasten in the center of the 1/2" holes to allow for movement each way. Hard fasten one end of each length to prevent migration of the material over time.



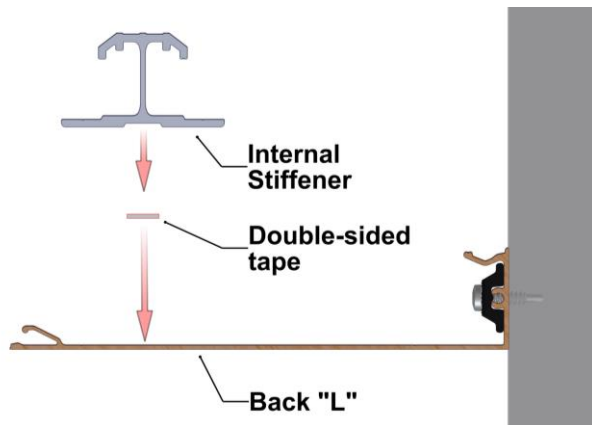
Step 3

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.



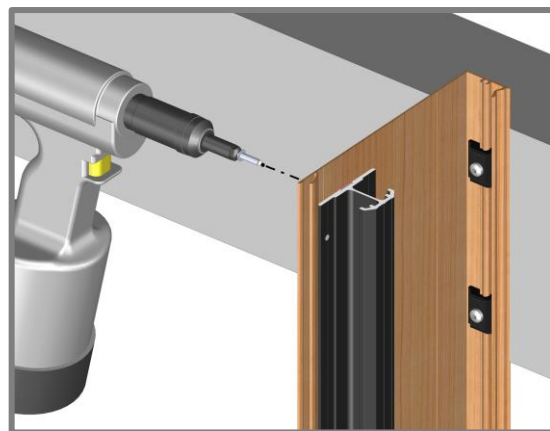
Make sure the Stiffener is located at the end of the back "L" and the tape is in the center of the stiffener.



Step 4

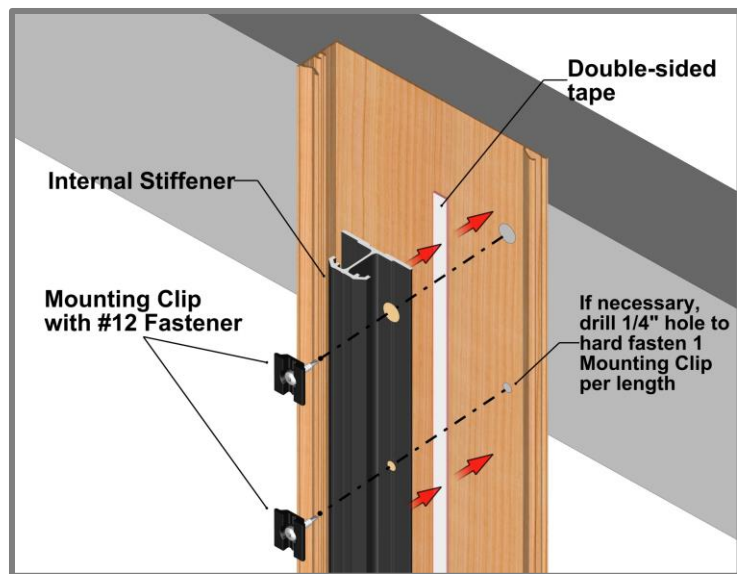
-Fastening Stiffener in Fin orientation

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 Install Steps for mounting.



Step 5

Refer to Install Steps for Front "L" and End Cap install and details.

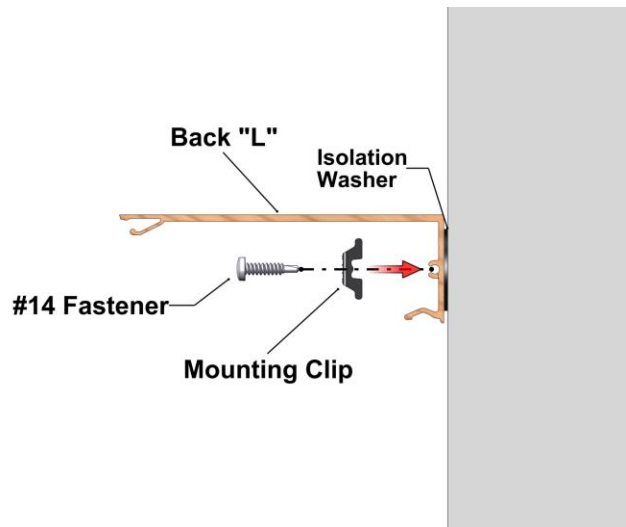


Link & Lock HD

- 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.

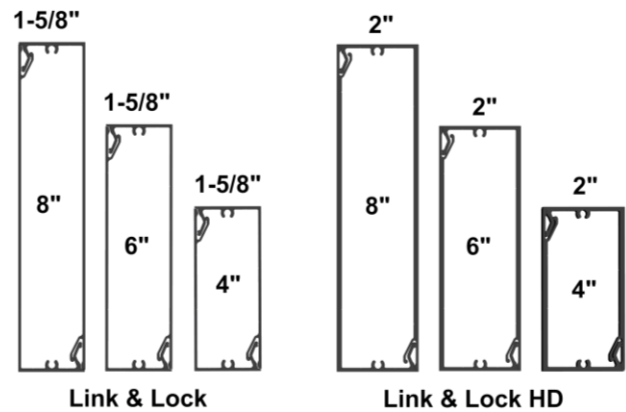
To Compare allowable spans:
See **Appendix for allowable spans for project specific wind load.**
Allowable Span – Tables 4-6



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

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

Profile Comparison

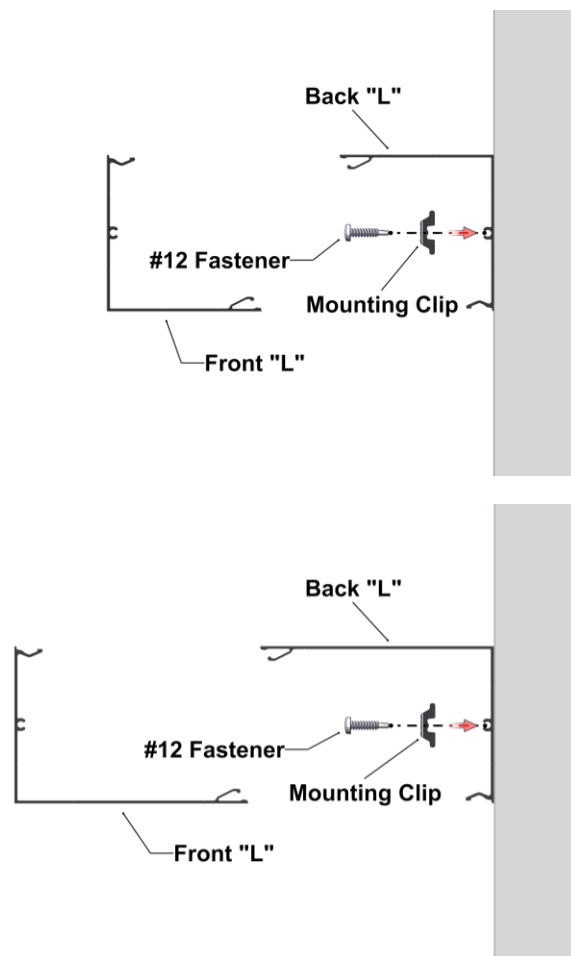


4x4 & 4x6 Link & Lock

- 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



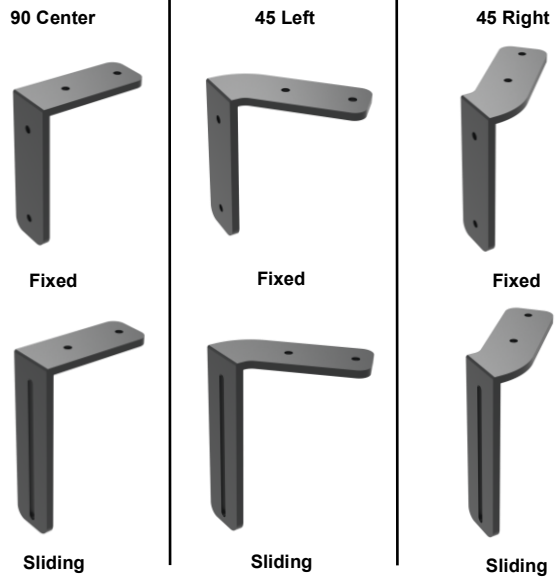
Link & Lock Brackets

- 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 Appendix for L&L Bracket Max. Spacing. Table 9

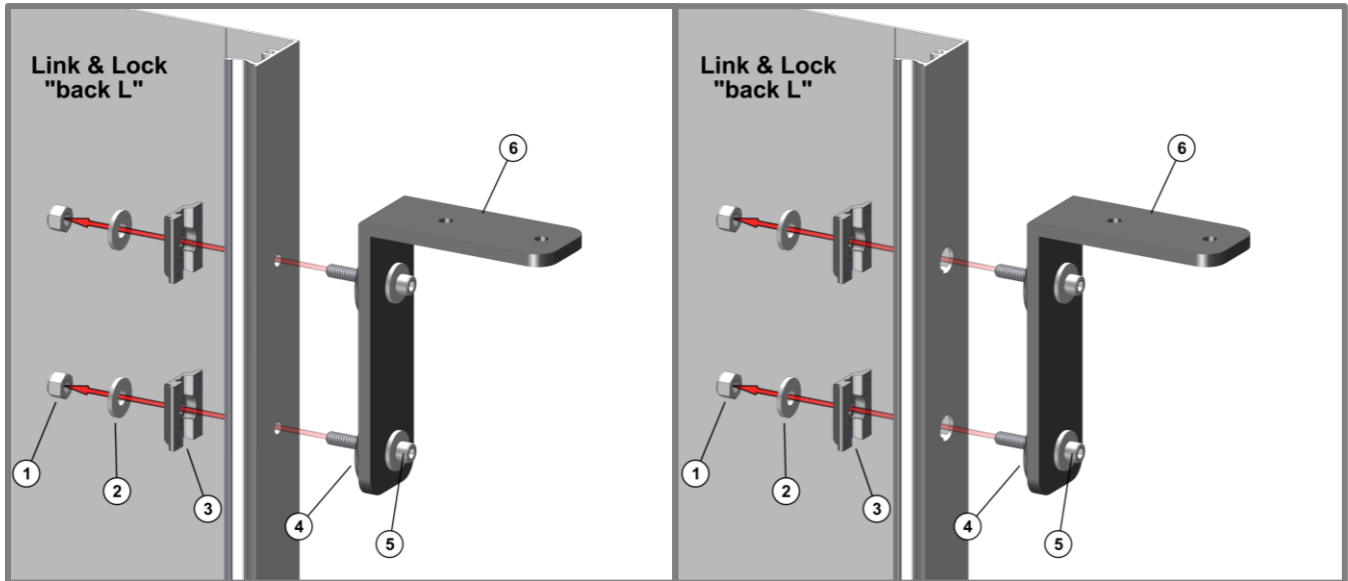
Link & Lock Bracket Options



Single Bracket for horizontal substrate

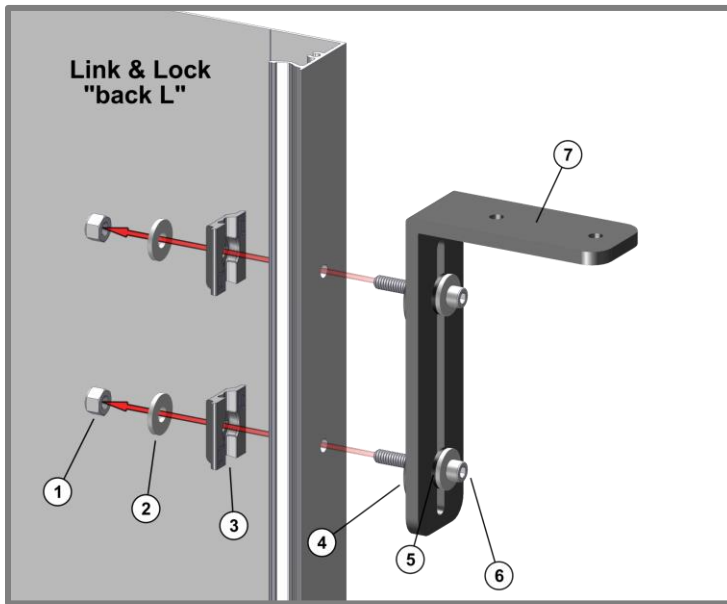
Fixed Bracket (Hard fastened with 1/4" holes)

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 |

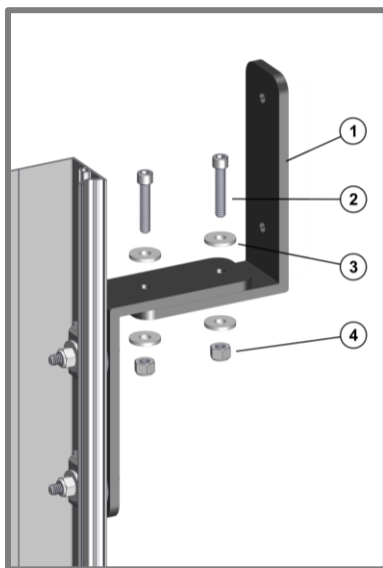
Sliding Bracket (Use 1/4" holes)



Note: Use Sliding Bracket only when attachment conditions require large movement. (Ex. Slab deflection in parking garages).

| 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 the following pages for lubricant details.

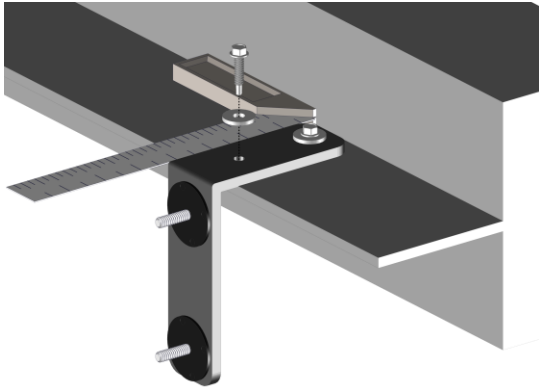
| No. | Description | Material | Qty |
|-----|---|------------------------------|-----|
| 1 | Link & Lock Dual Bracket -90 Center Fixed | 6005A Aluminum | 1 |
| 2 | 1/4" -20 Socket Head Screw, 1-1/4" length | Stainless Steel | 2 |
| 3 | Washer, 1/4" screw size, 0.75" OD | Stainless Steel | 4 |
| 4 |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

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)

X

X – see allowable span Table 9

1 9/16"
-for Sliding Bracket unloaded. For loaded condition check with your local engineer.

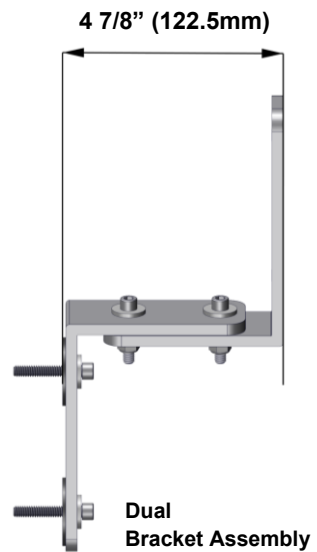
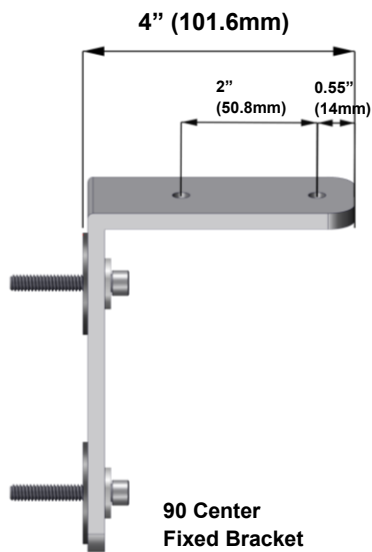
1 3/8"

3 1/4"

1 3/8"

3 1/4"

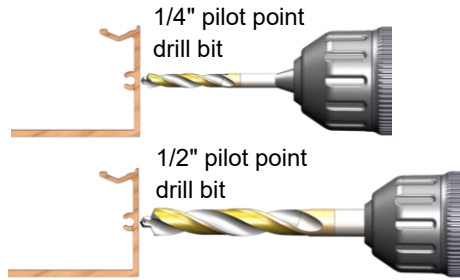
Structural member



Step 2

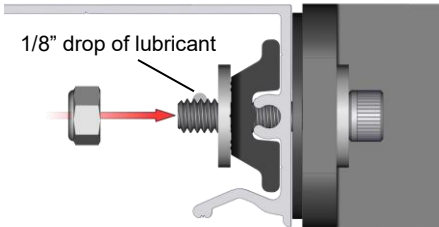
Drill out back "L" of the Link & Lock.
For dimensions review drawing details provided by Longboard if required.

- **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

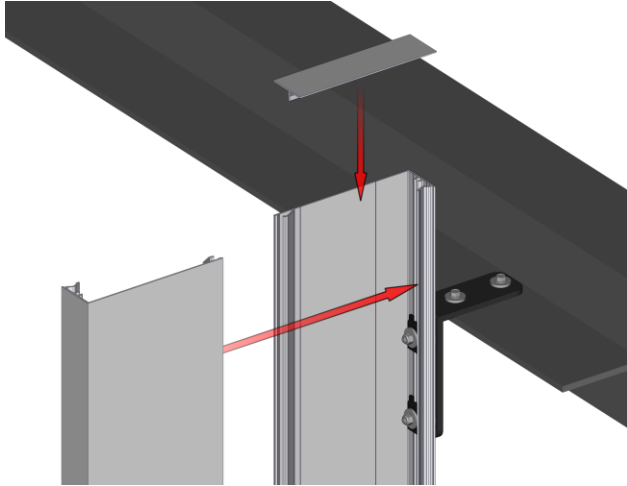
Install back "L" onto brackets.

| | Nut driver | Allen key |
|--------------------------|------------|-----------|
| Fixed & Sliding Brackets | 7/16" | 3/16" |

-For recommended torque value see Table 9 notes.

Step 4.1 Install Internal Stiffener if required. For details see install steps page.

Step 5
Install front "L" onto back "L" and End Caps.



Orientation options

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



Left

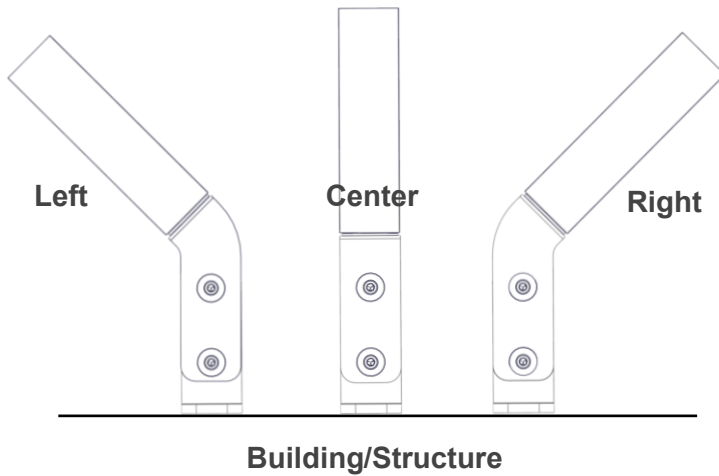
Center

Right



Center Horizontal Batten

Center Vertical Batten



Left

Center

Right

Building/Structure



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 | | | | | | | | | | |
|---|---|-------------------------------|---|----|--|----|--------------------|----|----|-----|-----|-----|
| | | PSF (Factored / Ultimate) | | | | | | | | | | |
| 2" LINK & LOCK™ | | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
| Standard | | | | | | | | | | | | |
| ALLOWABLE SPAN (FT)* | 4' | | | | | | | | | | | |
| | 6' | | | | | | | | | | | |
| | 8' | | | | | | | | | | | |
| | 10' | | | | | | | | | | | |
| *CANTILEVERS are not to exceed half (1/2) the allowable span to a maximum of 3' | | | | | | | | | | | | |
| <i>Calculations are using L/180 deflection limits</i> | | | | | | | | | | | | |
| 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. 8063-T5 | | 3/16" ITW Tapcon | | 1-1/2" | | 1-3/4" | | | | | |
| CONCRETE | Min. 3000 psi | | | | 1" | | 2" | | | | | |
| HOLLOWGROUT-FILLED CMU | Conforms to ASTM C-90, with Min. compressive strength of 2000 psi | | | | | | | | | | | |

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

| 4" LINK & LOCK™ | | | FASTENER SPACING - LOAD TABLE | | | | | | | | | | | | |
|----------------------|-----------------------|----|-------------------------------|-----------------------|----|-----------------------|----|----|-----------------------|-----------------------|-----|-----|-----|--|--|
| | | | PSF (Factored / Ultimate) | | | | | | | | | | | | |
| Standard | Standard w. Stiffener | HD | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | | |
| ALLOWABLE SPAN (FT)* | | | 2' | | | | | | | | | | | | |
| | | | 4' | | | | | | | Standard w. Stiffener | | | | | |
| | | | 6' | | | | | | Standard w. Stiffener | | HD | | | | |
| | | | 8' | | | Standard w. Stiffener | | HD | | | | | | | |
| | | | 10' | Standard w. Stiffener | | HD | | | | | | | | | |
| | | | 12' | Standard w. Stiffener | 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:

- 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 5

| 6" LINK & LOCK™ | | | FASTENER SPACING - LOAD TABLE | | | | | | | | | | | | |
|--|---|----|---|-----------------------|--|----|-----------------------|----|----|----|-----|-----|-----|-----------------------|--|
| | | | PSF (Factored / Ultimate) | | | | | | | | | | | | |
| Standard | Standard w. Stiffener | HD | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | | |
| ALLOWABLE SPAN (FT)* | | | 2' | | | | | | | | | | | | |
| | | | 4' | | | | | | | | | | | Standard w. Stiffener | |
| | | | 6' | | | | Standard w. Stiffener | HD | | | | | | | |
| | | | 8' | Standard w. Stiffener | | | HD | | | | | | | | |
| | | | 10' | Standard w. Stiffener | | | HD | | | | | | | | |
| | | | 12' | HD | | | | | | | | | | | |
| *CANTILEVERS are not to exceed half (1/2) the allowable span to a maximum of 3' | | | | | | | | | | | | | | | |
| <i>Calculations are using L/180 deflection limits</i> | | | | | | | | | | | | | | | |
| 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

| 8" LINK & LOCK™ | | | PSF (Factored / Ultimate) | | | | | | | | | | |
|----------------------|-----------------------|----|---------------------------|-----------------------|----|-----------------------|----|-----------------------|----|----|-----|-----|-----|
| Standard | Standard w. Stiffener | HD | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
| ALLOWABLE SPAN (FT)* | | | 2' | | | | | | | | | | |
| | | | 4' | | | | | Standard w. Stiffener | | | | | HD |
| | | | 6' | | | Standard w. Stiffener | HD | | | | | | |
| | | | 8' | Standard w. Stiffener | HD | | | | | | | | |
| | | | 10' | 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:

- 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 7



FASTENER SPACING - LOAD TABLE

v.1.2

| 4X4 LINK & LOCK™ | | PSF (Factored / Ultimate) | | | | | | | | | | |
|----------------------|-----|---------------------------|----|----|----|----|----|----|----|-----|-----|-----|
| | | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
| Standard | | | | | | | | | | | | |
| 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:

- 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.

TABLE 8

| LONGBOARD[®] INSPIRING ARCHITECTURE | | FASTENER SPACING - LOAD TABLE | | | | | | | | | | |
|--|---|-------------------------------|---|----|----|----|--|----|--------------------|-----|-----|-----|
| | | PSF (Factored / Ultimate) | | | | | | | | | | |
| 4X6 LINK & LOCK™ | | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
| Standard | | | | | | | | | | | | |
| ALLOWABLE SPAN (FT)* | 8' | | | | | | | | | | | |
| | 10' | | | | | | | | | | | |
| | 12' | | | | | | | | | | | |
| *CANTILEVERS are not to exceed 3' | | | | | | | | | | | | |
| <i>Calculations are using L/180 deflection limits</i> | | | | | | | | | | | | |
| 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:

- 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.

TABLE 9

| LONGBOARD[®] INSPIRING ARCHITECTURE | LINK & LOCK™ BRACKET MAX. SPACING (FT) | | | | | | | | | | |
|--|--|-----|----|----|----|----|----|-----|-----|-----|--|
| | 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' | | | | | 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 | 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 1 Factored Wind Load: max. 168 LBS/EA Bracket

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

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

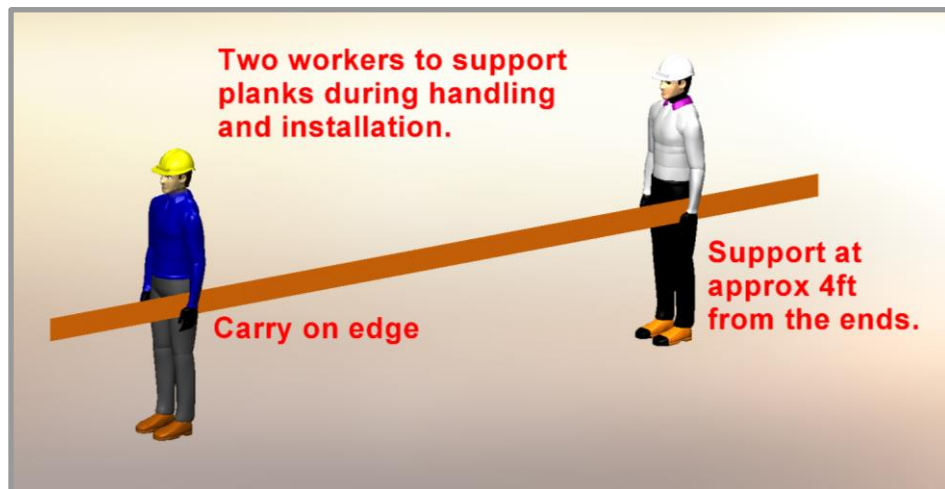
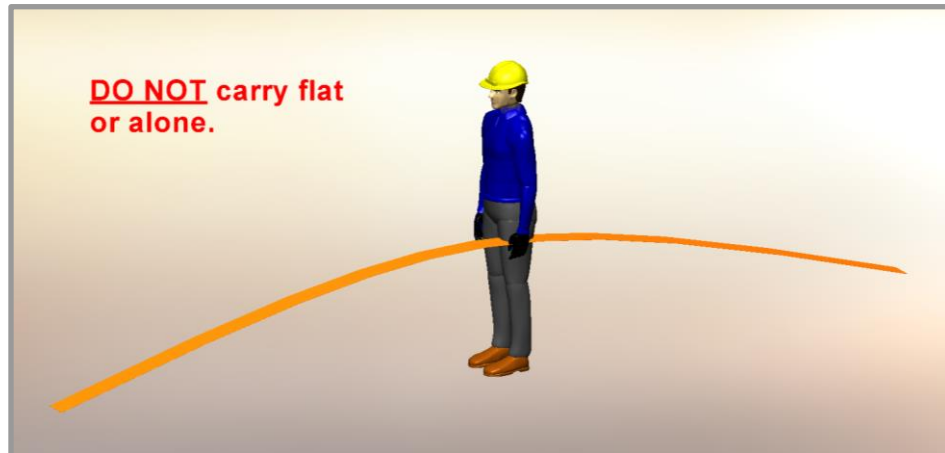
note 4 Sliding Bracket 1/4" -20 Socket Head Screw, 48-60 in/lbs + prevailing torque of self-locking nut

April 25, 2024

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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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.