



LONGBOARD®
INSPIRING ARCHITECTURE

Link & Lock™ Quick Start Guide





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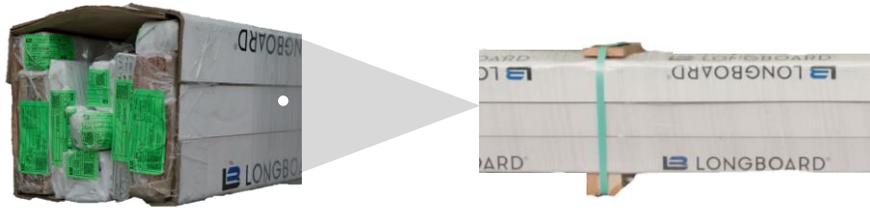
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Unpacking



Important:

See end of bundle labels for product info.



Caution:

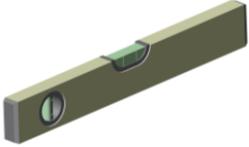
When handling always use:

- Proper equipment and tools making sure not to scratch the finish.
- Wear appropriate Personal Protective Equipment (PPE).
- Move or carry products with proper support as to mitigate damage.



Tools

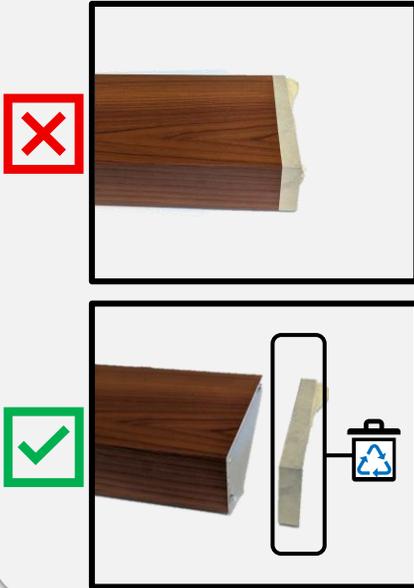
Recommended:

Miter Saw		1/2" Pilot Drill Bit	
Carbide Metal Blade Non-ferrous 60-80T (for cutting aluminum)		Rubber Mallet	
Cordless Drill with clutch		Level	
Touch-up Paint Pen		Quick Grip Bar Clamp	

CRITICAL DETAILS

CUT TAPED/DRILLED ENDS

CUT Factory Ends.

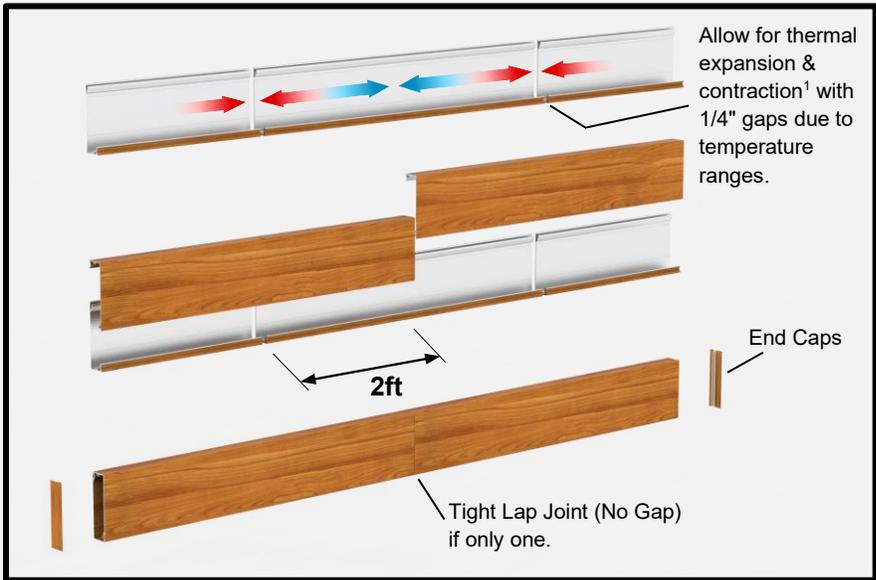


LAP JOINTS & THERMAL MOVEMENT¹

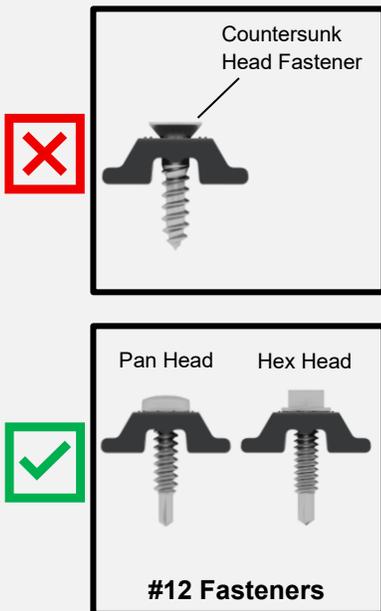
Overlap L&L joints min 2ft.



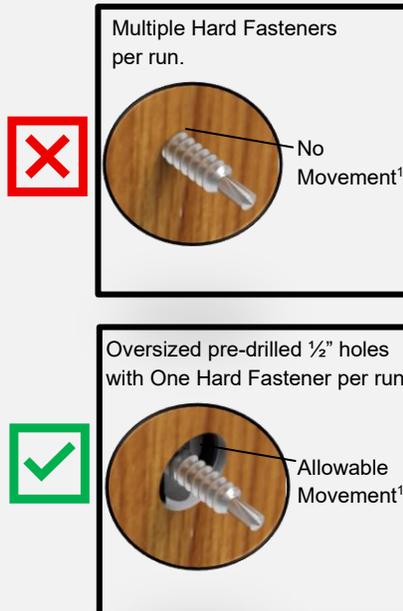
THERMAL CALCULATOR DOWNLOAD¹



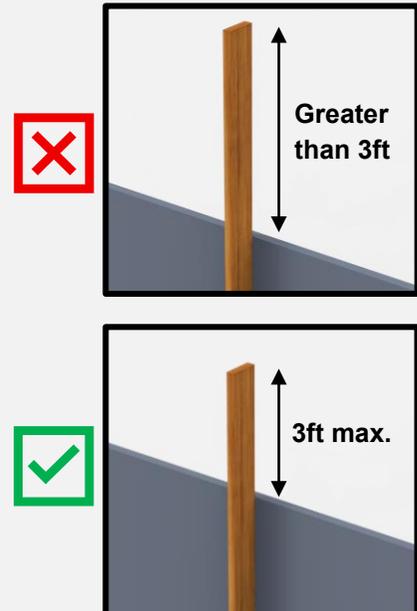
FASTENERS



HARD FASTENER



CANTILEVER



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

L&L Direct Mount Fin Orientation

See full Installation Guides for more information: [GUIDE LINK](#)

Typical Fastener Spacing: Refer to Load Tables

- Fastening Components:
 -#12 Fasteners (by others)
 -Mounting Clips* (supplied for 6ft spacings)
 -Isolation Washers* (supplied for 6ft spacings)
 *Extras purchased separately



#12 Fastener
(by others)

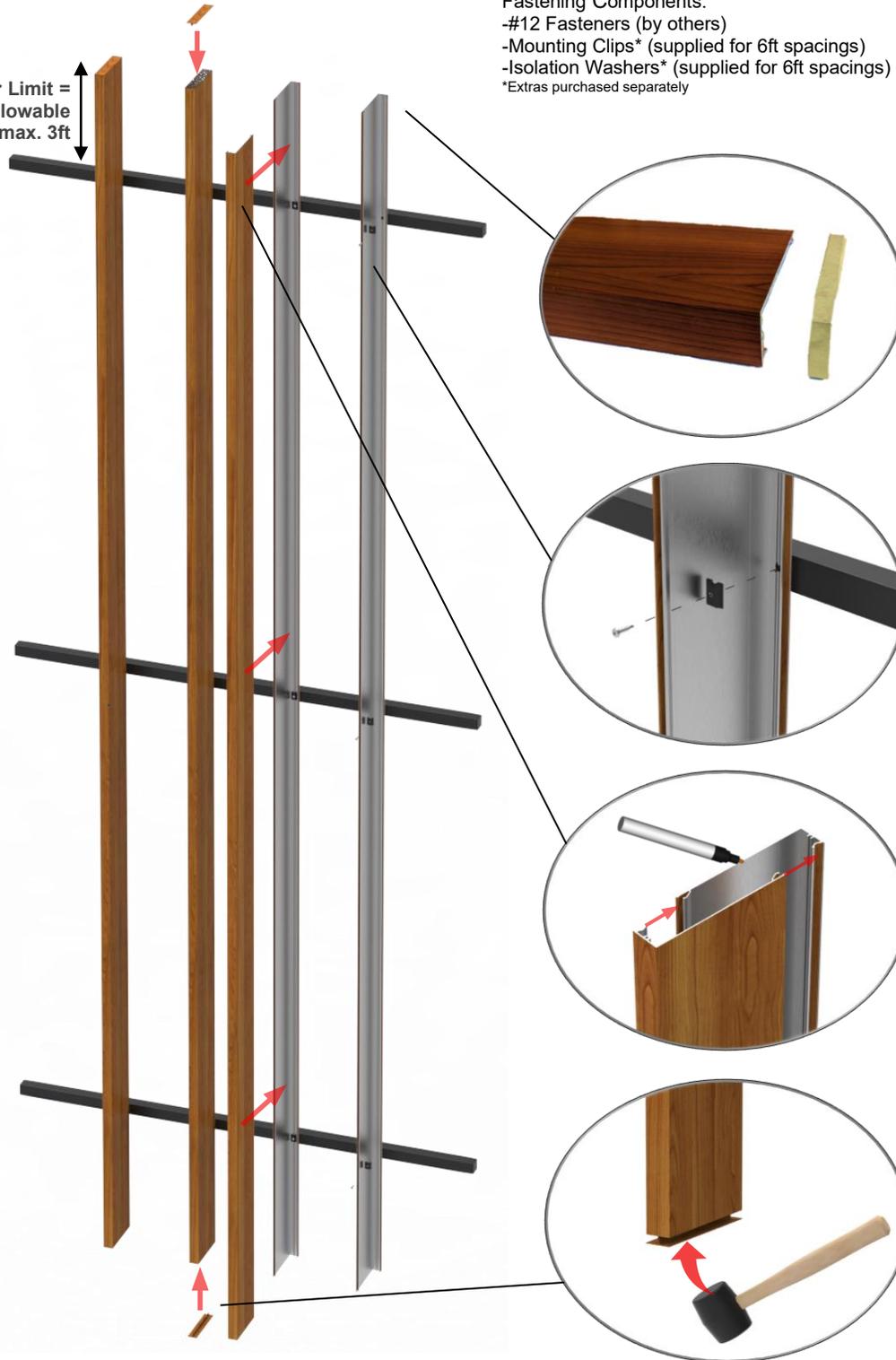


Mounting
Clip



Isolation
Washer

Cantilever Limit =
1/2 the allowable
span to a max. 3ft



Step 1



Cut
Factory Ends

Step 2



Drill 1/2" hole with
drill bit and fasten
to substrate using
the #12 fastener and
mounting clip.

Step 3

Lock in second "L"
and snap into place.
Use Clamp or Rubber
Mallet to tap into place
and Touch-up Pen to
finish ends. Friction fit.



Step 4

Insert and tap End
Caps top and bottom
into place using
Rubber Mallet if
needed. Friction fit.

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

Note 2: Always consult the project engineer, architect or authority having jurisdiction to understand the project specific fastening requirements.

L&L Direct Mount Batten Orientation

See full Installation Guides for more information: [GUIDE LINK](#)

Typical Fastener Spacing: Refer to Load Tables

Fastening Components:

- #12 Fasteners (by others)
 - Mounting Clips* (supplied for 6ft spacings)
 - Isolation Washers* (supplied for 6ft spacings)
- *Extras purchased separately



#12 Fastener (by others)

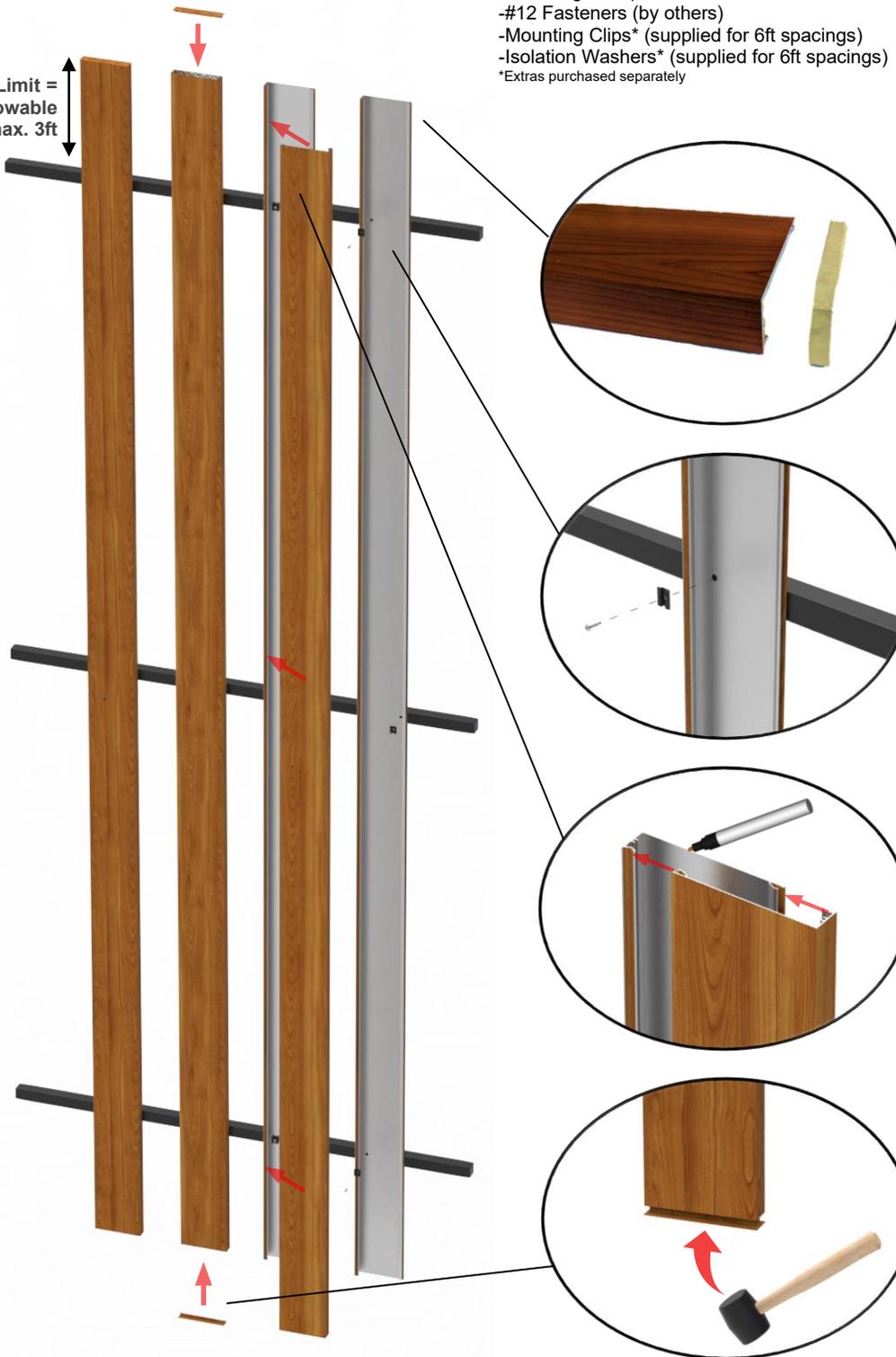


Mounting Clip



Isolation Washer

Cantilever Limit = 1/2 the allowable span to a max. 3ft



Step 1



Cut Factory Ends

Step 2



Drill 1/2" hole with drill bit and fasten to substrate using the #12 fastener and mounting clip.

Step 3

Lock in second "L" and snap into place. Use Clamp or Rubber Mallet to tap into place and Touch-up Pen to finish ends. Friction fit.



Step 4

Insert and tap End Caps top and bottom into place using Rubber Mallet if needed. Friction fit.

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

Note 2: Always consult the project engineer, architect or authority having jurisdiction to understand the project specific fastening requirements.

See full Installation Guides for more information: [GUIDE LINK](#)

Typical End Attachment Spacing: Refer to Load Tables

Fastening Components:

-#12 Fasteners (by others)

-End Mounts* (supplied for each End, 20/Box)

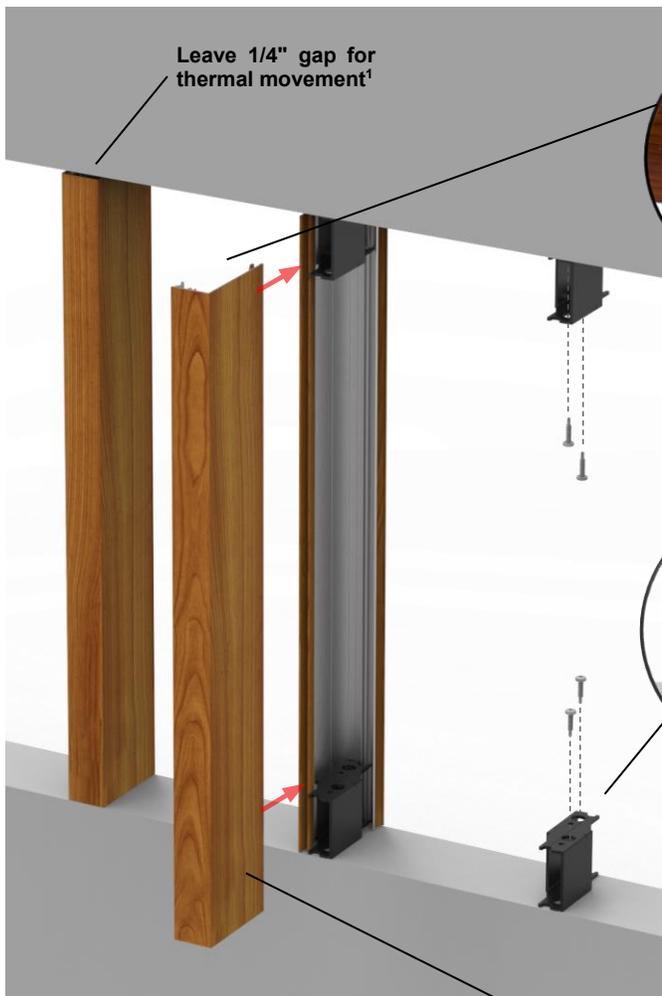
*Extras purchased separately



#12 Fastener
(by others)



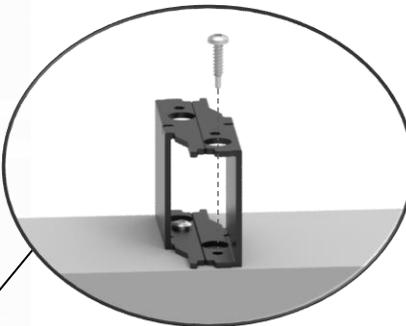
End
Mount



Step 1

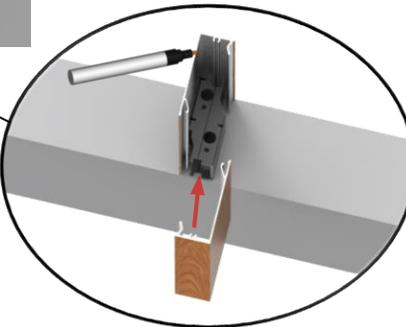


Cut
Factory Ends



Step 2

Attach End Mounts on both ends with two #12 Fasteners. Note: Match the orientation of the End Mounts.



Step 3

Lock in the two "L"s and snap into place. Use Clamp or Rubber Mallet to tap into place and Touch-up Pen to finish ends. Friction fit.



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

Note 2: Always consult the project engineer, architect or authority having jurisdiction to understand the project specific fastening requirements.



L&L Load Tables -See Substrate & Anchor requirements next page, including notes.

2" LINK & LOCK™		PSF (Factored / Ultimate)										
		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'

Calculations are using L/180 deflection limits

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

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

Calculations are using L/180 deflection limits

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

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

4X6 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=33 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:

- 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.



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