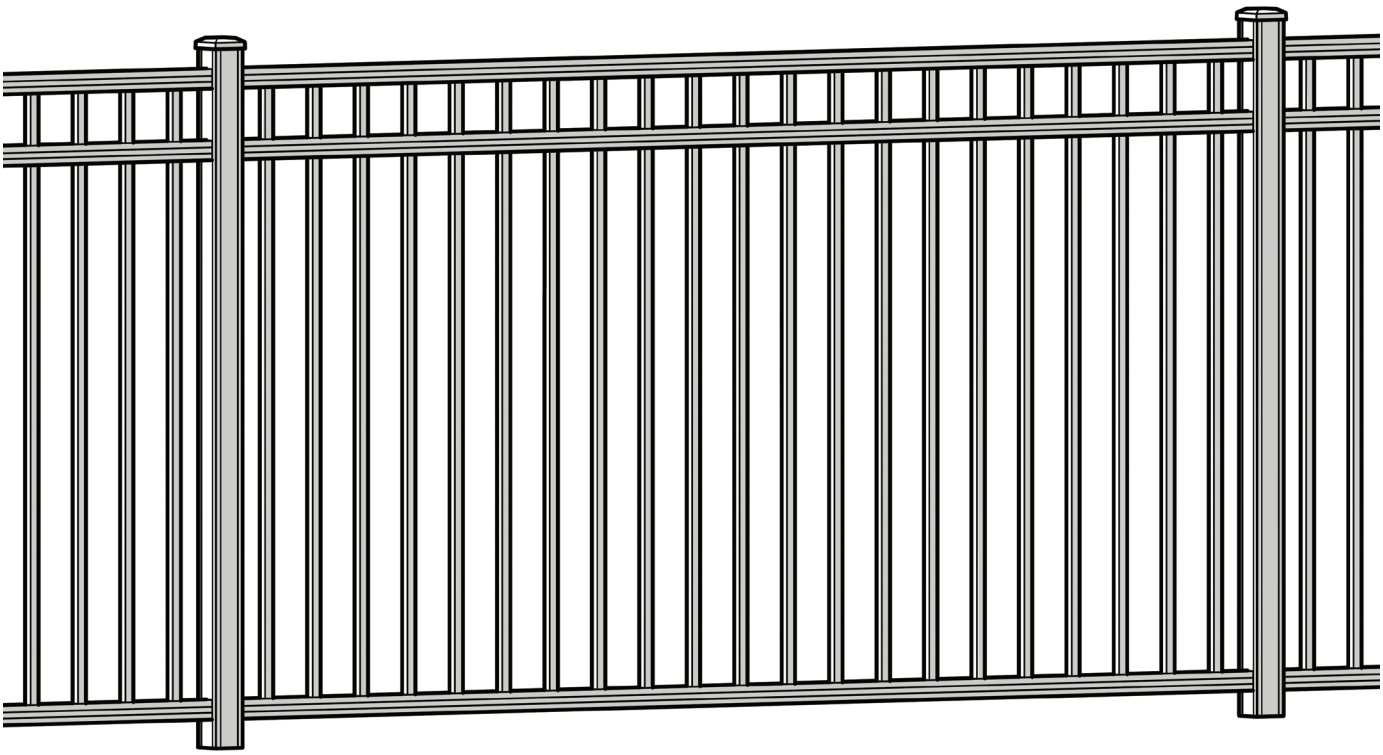
Key-Link Fencing & Railing

4000 Series
Aluminum Fencing



Recommended Tools

- Safety Glasses
- String Line & Yard Tape Measure
- Power Drill w/ 1/8" bit
- Circular Saw w/ Fine Tooth Blade
- Post Hole Digger & Shovel
- Vice Grip Wrench
- Rubber Mallet

What's Included (*per section*)

- (1 ea.) Top and Bottom Rails
- (21) Pickets per 8ft section
- (4) Spacer Blocks

Options

- Middle Rail
- Finials
- 66", 78", 84", 90", & 102"H x 2-1/2"W Posts
- Caps 2-1/2" (*styles available*)
- Swivel Brackets

- *These directions are only a guide and may not address every situation.*
- *Always wear proper safety equipment while assembling and installing.*
- *The installer should obtain all required building permits and follow all installation procedures in accordance with applicable building code requirements.*
- *Key-Link Fencing and Railing Inc. shall not be held liable for improper or unsafe installations.*
- *Applying paint, other than Key-Link's touch up paint, will void your warranty.*
- *To ensure proper coverage by our warranty please visit our website and complete the warranty form and mail to: Key-Link Fencing & Railing, Inc., 150 Orlan Road, New Holland, PA 17557*

WARNING: This product can expose you to chemicals including Quartz (crystalline silica), which is known to the State of California to cause cancer, and Hexavalent Chromium, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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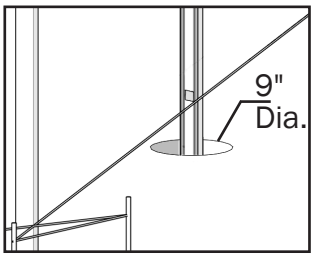
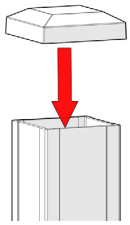
Post Layout

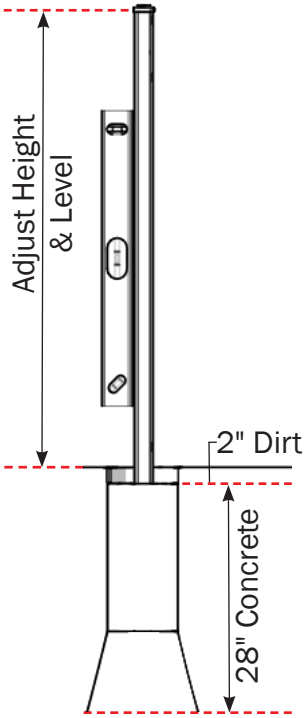


A string line (*to be set at the bottom Post hole height; aligned with the outside face of Posts*) should be laid; outlining the fence to be installed. Determine the length of each section (*typical 96"*). Offset and mark Post center positions from the string line.

Dig 9" diameter holes at each marked position. A proper depth should allow the bottom of the hole to fall beneath the frost line (*recommended 30"*). Bell out bottom of holes to help prevent frost uplift.



Caps should be placed on Posts prior to setting. Secure Caps by tapping them on with a rubber mallet.



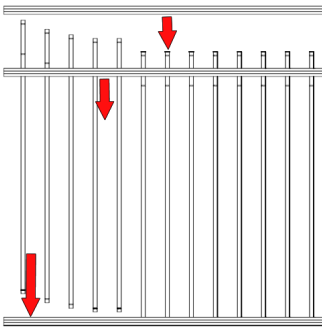
To ensure proper Post depth, and section height; align bottom edge of first routed Post hole with the string line. Fill the hole with approximately half the recommended concrete, then place the Post. Measure height of Post, and adjust to correctness. Check and adjust level. Fill remaining space around the Post with concrete until approximately 2" remains.

Move on to the next Post, and repeat process. Once all Posts have been installed, double check each Post for correct level and height. Adjust as necessary.


Wait to fully Cure

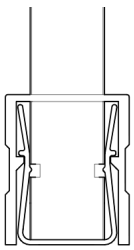
Note: Concrete must be allowed to fully cure prior to installing fencing sections. (*Refer to manufacturer recommendations*)

Section Assembly



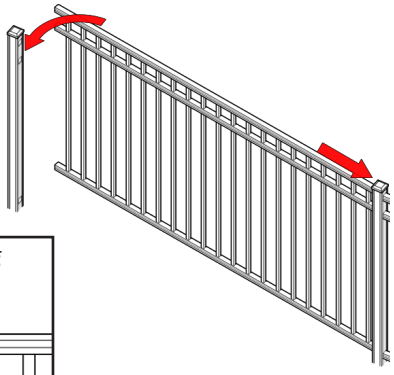
Fencing Sections should be assembled then installed to Posts.

Measure distance between Posts; add 1-1/2". Use this dimension to cut Rails to length (*if necessary*), remove an equal length from each end. Notch end of Rails using Notching Tool (*available from KeyLink*).

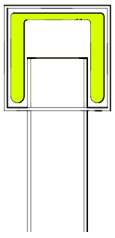


Next insert Pickets; (*ensure the notches are facing in-line*) into the Bottom Rail.

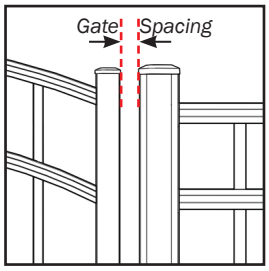
Note: If using a Middle Rail in addition to Spear Pickets: Pickets must be inserted through the Middle Rail before inserting into the Bottom Rail. Finials should be attached (*with care*) at this time; prior to Top Rail installation.



Attach Top Rail along with Picket Locking Insert over the Pickets until the Rail locks into place.



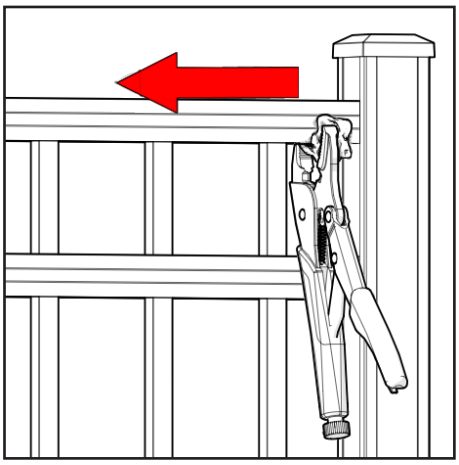
Gate Install



When installing a Gate; Aluminum Post Stiffeners (*highlighted*) should be used inside each Post attached to the Gate.

Gate openings should be spaced 3/4" on each side.

Replacing a Picket



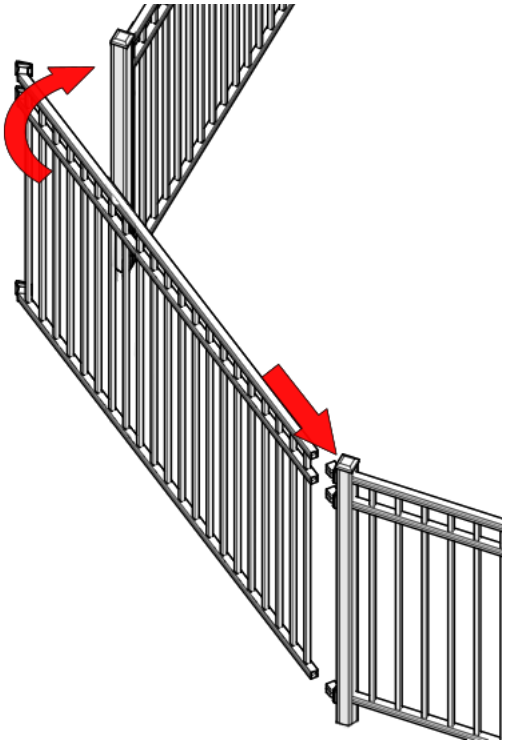
To replace a picket. The fencing section which contains the picket must be removed.

To safely remove the section. Grip the rail with a set of Vice grips and a cloth to cover the wrench teeth.

Starting with the Top Rail; Clamp down on the Rail as close to the Post as possible. Squeeze tightly and lock vice grips so that the end of the Rail can be deflected enough as to remove the Rail.

Once the Rail is clear of the Post; remove the Vice grips, and repeat the process for the Middle, and Bottom Rail. Then repeat for opposite Post.

The Section should now be free of the Posts. Remove and replace damaged picket.



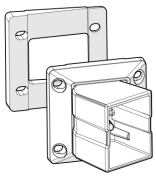
Corner Install

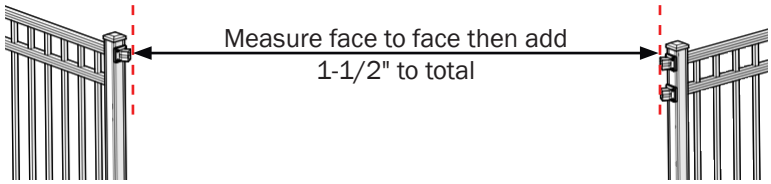
When using a Swivel Bracket. First, install half of the Brackets to be used on one Post. Ensure appropriate height. Then install only the Top Rail Bracket on opposing Corner Section Post. Measure the distance between the inside face of aligned Brackets. Add 1-1/2" to total and cut Rails to length (*remove an equal length from each end*).

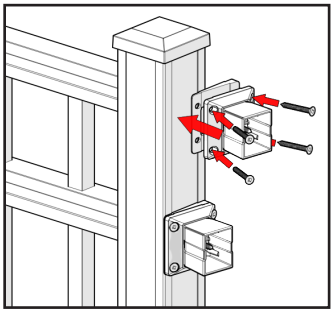
Assemble Sections as described in **Section Assembly**.

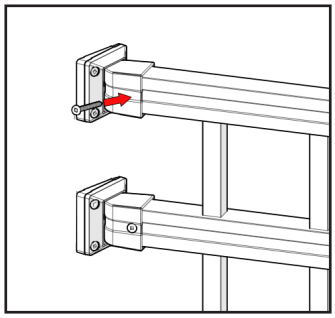
Remove single Bracket from Post, and attach to Rail ends along with other remaining Brackets.

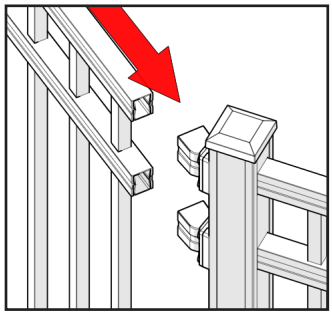
Place Section into the Brackets attached to the Post, then pivot the Section until the Brackets attached to the Rails (*with 7° Wedge in place*) fit into the self centering channel on the opposing Post. Fasten Brackets to Post. Finally fasten opposite Brackets to Rails.

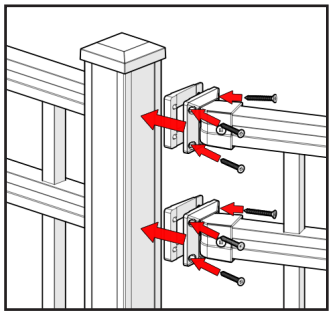








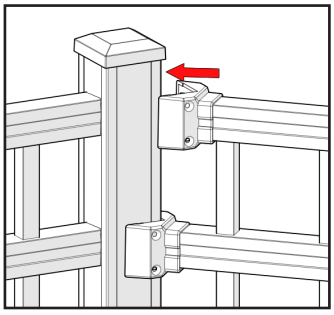


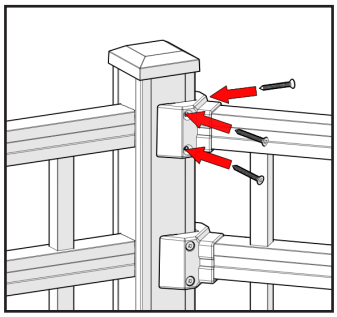


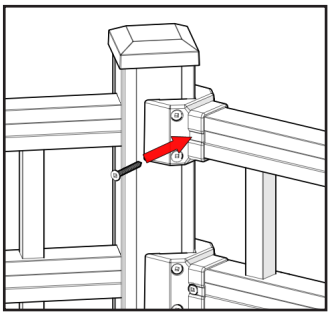
When using a 45° Corner Bracket; Measure distance between Posts from corner to corner. Subtract 1/8" and cut Rails to length.

Assemble Sections as described in **Section Assembly**.

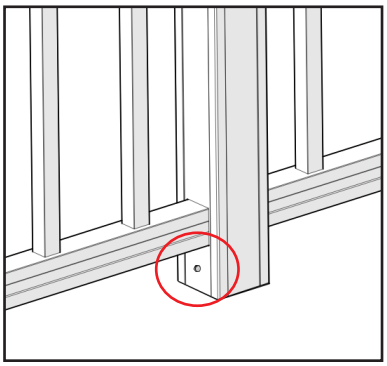
Set Section into place with Brackets on Rails then slide into place at appropriate height. Fasten Bracket to Post, then fasten to Rails.





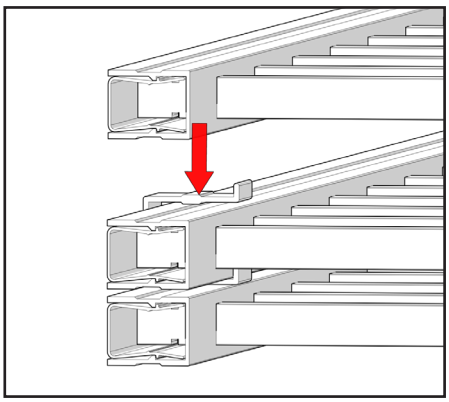


Warning: In locations subject to water build up or freezing. The installer is responsible to drill a 1/4" "weep" hole (*circled*) in each Post; 1/8" to 1/4" above ground. This allows for drainage of built up moisture.



Note: Spacer blocks are intended to be used for sections which are being assembled then shipped to the jobsite; to prevent scratching.

Straps should be placed directly over the spacer block locations to ensure the rails do not shift.



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150 Orlan Road ● New Holland, PA 17557

KeyLinkOnline.com