

3000 Series - Bracketed

Installation Instructions



Always check local building codes, property lines and underground utilities before installation.

- These instructions must be followed exactly as written and the materials used must be exactly as shown in the instructions. Any deviation from the instructions or variation in the materials used/installed may result in an unsuccessful installation.
- When core drilling any post product where water can build up, the installer is responsible to drill a 1/4" hole as close to the bottom of the post by the concrete as possible. If there is no weep hole, you may have damage from moisture build up and freezing.

Step 1: Layout the Fence Line

1. Determine length of sections needed. NOTE: The center to center post distance can vary $\pm 1/2"$.
2. Mark ground where centers of all holes will be. For a 2" post, center of hole will be 1" away from string.
3. Dig all holes. (We recommend to have bottom of holes below frost line (if possible) and bell out bottom of holes to help prevent frost uplift. An 8" to 9" diameter hole is recommended for these posts.)

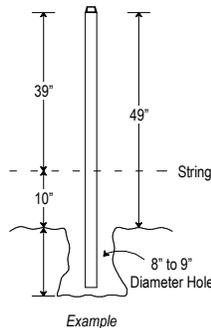
Step 2: Attach Caps to Posts

Caps should be placed on posts before installation. Secure caps by either tapping them on a grassy area or with a mallet.

Step 3: Setting Posts

To help achieve correct height for posts, set string at a certain height from the ground. The following example is using string set 10" off the ground.

Example: 48" 3230 is 49" from the ground to the top of the post; subtract 10" (amount string is off the ground) from 49" (post height out of ground) = 39". Mark with a pencil 39" down from the top of all the posts.



1. Pour approximately half a bag of concrete mix into the hole.
2. Place posts in hole with concrete.
3. Level the posts to the string and to the correct center to center measurement (if needed, you can use a spacer cut to the inside to inside measurement for this).
6. Pour more concrete around post. We recommend concrete be at least 8" below the ground.
7. Using a rod (or something similar), run it up and down through the concrete a few times around the post to help pack the concrete.
8. When all posts are installed, double check all post heights.
9. Add some water to permanently set the posts, let concrete harden.

Step 4: Attach Sections

Line and Universal Brackets

1. Using a 1/4" x 1 3/4" bolt, go through bracket and each rail, hand tighten nut.
2. Position brackets on post so the sections are 2" from ground level.
3. Place a screw through the bracket and into the post.
4. Finish tightening the bolts securing the rails.

End Brackets

1. Determine location of bracket on post.
2. Fasten bracket with screw provided.
3. Attached section to bracket with 1/4" bolts.

Step 5: Gate Installation

We recommend using heavy wall (.125") posts on both sides of gates. The gates are pre-assembled; however, the hinges and latch will need to be applied. Installation instructions are provided with the gate hardware.

Cutting Sections to Length

1. Determine length of section needed (measurement inside to inside of post *minus* 3/4"). (Example: 6' section = 69 1/4" rail length.)
2. Center section between posts, mark, and cut rails 3/8" shorter than mark.
3. Drill a 5/16" hole 3/8" from end of rail to center of hole on both sides of the cut rail. NOTE: Center hole vertically on the rail.
4. Install as above.

Replacing a Picket

1. Determine which side of the picket the e-clip is located. (All e-clips will be located on same side in section.)
2. Take a flat head screw driver under rail between picket and e-clip.
3. Slide away from picket.
4. Do this for all rails.
5. Insert new picket with pre-drilled holes facing e-clips.
6. Slide e-clip toward picket with flat head screw driver (or finger) until e-clip snaps into picket.

If e-clip needs replaced:

1. Using needle nose pliers, squeeze e-clip together.
2. Twist and pull down.
3. To insert new e-clip, squeeze e-clip together.
4. Twist and insert above track inside of rail.
5. Slide e-clip toward picket with flat head screw driver (or finger) until e-clip snaps into picket.

Rail & Bracket Attachment Examples

Example 1	Example 2	Example 3
<p>Rail Length for a 6' section is 69 1/4".</p> <p>Shortest distance that can be made center to center is approx. 71 1/4".</p>	<p>When the posts are positioned at exactly 6' center to center, a 3/8" gap exists between the rail and post.</p>	<p>The maximum distance that can be between the posts center to center is 72 3/8".</p> <p>Post positioning variation is 1 1/2".</p>