

Installation Guide

CHOOSE YOUR FENCE STYLE

Whether installing preassembled panels or building with components, there is a fence style right for you. Preassembled panels make installation easier and are perfect for long runs. Components leave you with more flexibility on short runs (less than 8') and on sites that are not level.

Solid – Allows for complete privacy. Used to surround swimming pools, define property lines or cover unattractive areas. (See Dog Ear Privacy photo below).

Spaced Picket – Ideal for defining boundaries while maintaining decorative appeal. (See Spaced Picket photo below.)

Shadowbox – The ideal "good neighbor" fence features the same look on both sides. This style has the look of a privacy panel but allows for more air circulation. (See Shadowbox below.)



Dog Ear Privacy







Spaced Picket

Items you will need:

Tools	Material
Power saw	String
Hammer	Grade Stakes
Level	Concrete and gravel
Posthole digger	Fence panels or pickets
Power drill	Fence posts
Tape measure	2x4's for bracing posts
Carpenter's pencils	Nails or screws*

* Use hot-dip galvanized fasteners or other fasteners as required by building codes

PREPARATION

Check with local ordinances and regulations before building fences in your area. Before construction, contact your local utility companies to mark any underground cables and pipelines. In addition, it's a good idea to discuss plans with any neighbors along your proposed fence line.

DESIGN AND LAYOUT

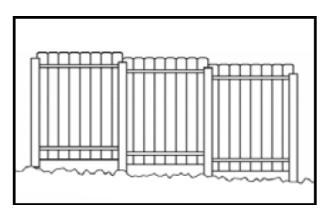
- Determine the number of posts, panels and gates needed to complete the job based on total linear footage. Take into consideration post, panel and gate width when determining the total number of each.
- Adjust layout to accommodate as many full panels as possible. If you must use part of a panel, place in the farthest rear corner of the property. Some types of preassembled panels can be trimmed to fit odd-sized layouts, but other types are difficult or impossible to cut to size.
- Locate property boundaries and drive stakes into the ground at corners and ends of fence line, 6" inside property boundary.
- Stretch twine or heavy string between stakes and pull tight to mark layout of fence line.
- Be sure to measure your fence panels and gates prior to locating the postholes. Also take into consideration your chosen method of attaching the backer rails to posts (see Connecting Backer Rails to Post section). Locate post placement in the following order along string line.
 - o End/corner posts
 - o Gate posts
 - Line Posts

INSTALLING FENCES ON SLOPED LANDSCAPES

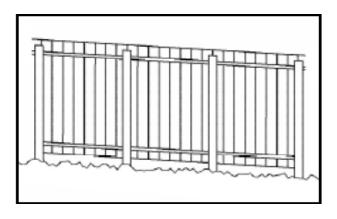
Fences are installed on slopes using one of two methods (see Fig. 1). Preassembled panels can only be installed using the step method. The fence gradually steps up the slope with the rails level, rather than parallel to the slope. With loose components, you have the option to use the parallel method. The rails are installed based on the degree of the slope. Since this method requires that the fence be constructed to conform to the slope. It cannot be accomplished using preassembled fence panels.

DIGGING POSTHOLES

Fig. #1

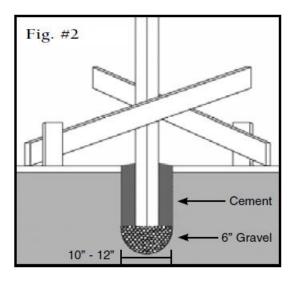


Step Method



Parallel Method

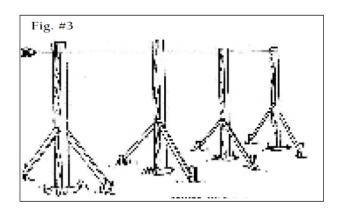
A general rule of thumb is to place 1/3 of the length of the post in the ground. The fence will be stronger if end, corner and gate posts are set at least 6" deeper than needed. Backfill the hole with 6" of gravel to drain water away from the bottom of the post (see Fig. 2). Keep the height of your fence panels in mind when digging your postholes.



SETTING POSTS

Install end and corner posts first. Tie a string between the posts along the fence line. This establishes a reference, ensuring the posts are in line (see Fig. 3).

Brace the posts using 2 x 4's nailed to both the posts and stakes in the ground. This will keep them straight while the concrete sets. Check from plumb (90° angle) on two adjacent sides prior to pouring concrete. Fill holes with readymix concrete following the package instructions. Tamp the concrete to remove any air pockets. Overfill the holes at the top and slope the concrete away from the post to keep water from collecting around it. Recheck plumb and alignment of all posts and allow concrete to cure from 24 to 48 hours.



CUTTING POSTS TO THE PROPER HEIGHT An easy method to ensure your post tops are level is to run a string from corner post to

corner post at the desired height, keeping the string taut (see Fig. 3). Mark each post at the string line and cut off the tops of the posts. Finish off your posts with a decorative finial tops.

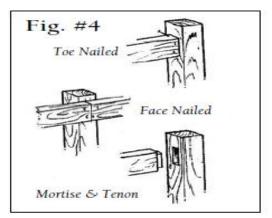
INSTALLING PANELS AND PICKETS

For preassembled fence panels, use 18d to 20d nails to attach them to the posts. If possible, pre-drill holes through the panels to minimize and splitting from using such a large nail.

To install loose pickets to backer rails use 8d or 10d box nails. Start at one end of the rail and check for level and plumb every three or four pickets. If you wish to build a solid "privacy" fence, butt the pickets without leaving a gap in between. To build a spaced picket fence, cut a board the width of the desired gap and use it as a spacer. Remember to check for plumb every few pickets. Use two backer rails for shorter fences, three rails for fences 6' tall, and four rails for 8' tall fences. Backer rails should be attached on edge to prevent sagging.

CONNECTING BACKER RAILS TO POSTS

There are many ways to attach the backer rails or stringers to the posts (see Fig. 4). Place a board under preassembled panel to use as a lever to adjust the panel to the proper height on the post. All backer rails should run the same measurement to the ground and to each other on a horizontal plan, regardless of minor grade changes. Your finished product will be much more appealing to the eye if proper attentionis given to this detail.



GATE INSTALLATION

- Determine the swing direction of the gate (left or right-hand open).
- Mount hinge hardware to gate frame at the proper ghight, pre-drilling all screws holes.
- Mount gate to gate post, pre-drilling all screw holes.
- Check for full gate swing clearance.
- Mount latch harware, pre-drilling all screw holes.

FINISHING YOUR FENCE

Appling a protective finish is recommended to prolong the life of your fence. The type of finish will be determined by the look desired, as well as the species of wood used. There are three options in finishing treatments: stain, pain and waterproofing sealer. Clean you fence with a cleaner/brightner that contains a mildewcide, prior to applyinig your finish.

- Stain provides a durable finish coat while maintaining the natural look of wood. A semitransparent stain is recommended for new fences; it gives an even appearance and hint of color while allowing the grain to show through.
- Paint adds color as it protects and seals the fence. The color can easily be coordinated with your home. Clean, dry and prime with oil-based primer prior to painting the fence. Durable exerior latex paint is recommended.
- Waterproofing sealer is best for woods that are not naturally resistant to decay and exposure to weather. The sealer helps prevent rain and moisture from soaking into the wood. Add a UV stabilizer to slow the discoloration process.

CARE AND MAINTENANCE

• The continuous changes in weather conditions are hard on your fence. Your maintenance plan must be geared to

combating the problem caused by water absorption and loss, mildew growth, and UV discoloration.

- First-year maintenance Reapply cleaner/brightner as described in the initial maintenance, as well as you method of finsh (paint, stain or water sealer). This should be completed after 12 months.
- Future periodic preventative maintenance – Deptinding on the location of your fence with regard to direct sun exposure, foliage coverage, etc., it may be sufficient to clean/brighten and recoat every two years. A power washer may be necessary to properly clean your fence.



The diagrams and instructions in the brochure are for illustrative purposes only, and are not meant to replace a licensed professional. Any contruction or use of the product must be in accordance with all local zoning and/or building codes. The consumer assumes all risks and liability associated with the construction or use of this product. The consumer or contractor should take all nescessary steps to ensure the safty of everyone involved in the prject, including, but not limited to, wearing the approrate safety exuipemnt. Biewer Lumber, LLC makes no warranty, either express or implied, and shall not be liable for any damages including consequential damages.

