

A good wood fence does more than mark a line on a map. It frames your yard, quiets the street, keeps a dog from wandering, and lifts the look of a property. With a weekend or two of steady work, a clear plan, and a few trade tricks, a first timer can build something straight, sturdy, and worth the effort. I have watched plenty of homeowners go from uneasy to proud as the last picket goes on and the gate swings smooth.

Start with purpose, style, and budget

Decide what the fence needs to do. Privacy calls for tall, tight boards like board on board or solid stockade. A picket fence sets a friendly tone out front and keeps toddlers in sight. If sound control is a concern, heavier boards and a slight overlap help. If you expect kids to kick balls into it or a big dog to lean on it, plan for bigger posts and extra gravel at the base.

Style follows function. A six foot privacy line along the rear and sides is common in neighborhoods. A four foot decorative run near the sidewalk can meet many city rules and still define the space. Horizontal boards feel modern but require stiffer framing to prevent sag. Traditional vertical pickets forgive small alignment errors and are kinder to beginners.

Costs vary with lumber species, height, hardware, and local permit fees. Pressure treated pine sits at the low end, cedar a step higher for better rot resistance and a cleaner look. When someone asks for a ballpark, I give a range per linear foot, then add gates, post caps, stain, and disposal of old fencing if needed. Most homeowners are surprised by how much hardware adds, so include hinges, latches, screws, and concrete on your list.

Permits, property lines, and neighbors

Before you sink a single post, call your local utility locating service. Striking a gas line or fiber conduit will turn a Saturday project into a costly problem. Next, check city rules for fence height, setback from sidewalks, and corner sight lines. Some areas cap front yard fences at four feet and limit solid fences near driveways for visibility.

Verify the property line. I have seen more disputes start with good intentions than with bad actors. Use a survey, find the pins if you can, and respect any easements for drainage or utilities. If you live in a community with a homeowners association, read their fence guidelines and get written approval. A quick conversation with neighbors also goes a long way when working near their side of the line.

Pick the right wood and hardware

Pressure treated pine is affordable and handles soil contact, which is why so many posts are treated pine. Cedar resists rot on its own and often lasts longer above ground. Redwood performs well but is not common in every region and usually costs more. Composite boards exist but behave and price more like a specialty product.

Use exterior rated fasteners. For cedar and redwood, choose stainless or hot dipped galvanized screws and nails to avoid black streaks from chemical reactions. For treated lumber, coated or stainless steel holds up better than bright zinc. A simple choice like a quality structural screw for framing often saves time and splits less than a nail.

Hinges and latches take abuse. Spend a little more on gate hardware with adjustable features, especially on wider gates. I favor gravity latches with a lockable option for backyard gates and a stronger, self closing setup around pools to meet safety codes.

Soil, frost, and weather considerations

Soils behave differently under load and water. Sandy ground drains fast but can shift if not compacted well, so wider holes and more gravel help. Clay holds moisture, so leave room for drainage to avoid frost heave. In regions with freezing winters, set the bottom of the post hole below the frost line. Local building departments usually publish this depth. In milder climates, you can often set posts 24 to 30 inches deep for a six foot fence, but deeper is almost always better than wider for resisting push.

Time the work. Digging in mid summer clay fights you, while a rainy week can turn holes into bathtubs. If rain is forecast, keep post holes covered so you are not setting posts in mud. Plan stain or sealer for a dry stretch with low humidity for the best cure.

Essential tools and materials

Use this as a short checklist, not an exhaustive catalog. You can rent augers, saws, and nailers from many fence installation services or tool rental shops if you do not want to buy.

- Post hole digger or power auger, shovel, and digging bar
- String line, stakes, tape measure, level, speed square, and marking paint
- Circular saw and handsaw, driver or impact with exterior screws, nailer if available
- Gravel, concrete mix or bagged fast setting concrete, and a wheelbarrow
- Hinges, latch, exterior screws or nails, stain or sealer, and safety gear

A five step roadmap

This is the high level flow I teach to new helpers. Each step includes trade notes to save you time.

- Layout and marking: Measure the run, set corner stakes, pull a string tight along the intended line, and mark post locations based on panel or picket spacing.
- Dig and set posts: Bore holes to proper depth, add drainage gravel, and set posts with concrete while keeping them plumb and aligned to the string.
- Frame rails: Attach horizontal rails at consistent heights, crown up if using dimensional lumber, and check that spans remain level to prevent a wave effect.
- Attach boards or panels: Install pickets or prebuilt panels with even gaps and consistent top lines, shimming as needed to follow grade or stay level.
- Build and hang the gate: Frame a rigid gate, skin it with boards, install quality hinges and a latch, then adjust for smooth swing and clearance.

Layout that prevents headaches

Accuracy at the layout stage saves rework later. After staking corners, I like to run a tight mason's line six to eight inches above the ground and as close to the future fence centerline as practical. Keep the string level or at a steady slope that respects your yard's grade. You are not building a laser rail on a hillside, so sometimes you choose to follow the ground with stepped sections rather than fighting nature. For privacy fences on a slope, a stepped approach looks cleaner and keeps gaps under the fence under control.

Mark post centers with paint at your chosen spacing. A common pattern is eight feet on center for rails made from eight foot boards. If you can source ten foot rails, longer spans mean fewer posts, but they also ask more of the lumber. Windy sites benefit from closer post spacing and a slightly heavier frame.

Check gate locations twice. Make sure you have swing clearance, space for a wheelbarrow or mower, and solid ground to land on. If the only flat spot is near a tree root, shift the opening before you dig.

Digging and setting posts the right way

Holes need to be deep, fairly uniform, and clear of loose soil. In heavy clay or rocky yards, a digging bar earns its keep breaking through hard layers. In sandy soil, keep hole walls tight and vertical. A good rule is a hole diameter two to three times the post width, which leaves room for gravel and concrete while giving a stable base.

Drop four to six inches of clean gravel into each hole, then compact it with the post or a tamping rod. The gravel bed allows water to drain away from the post end. Set the post on the gravel, align it with your string, and brace it if you are working alone or in wind. I use scrap stakes and a diagonal brace screwed to the post to hold plumb in two directions.

Bagged fast setting concrete works well for most residential projects. Mix it to a thick consistency rather than dumping it dry into the hole, despite what the bag allows, because pre mixing gives a more uniform cure. Slope the top of the concrete away from the post so water does not sit against the wood. On fence lines with hundreds of feet, some pros skip concrete and use compacted gravel only. That can work in well draining soil and warm climates, but for beginners, concrete offers a wider margin.

Keep posts in line. Sight down the tops and use your level on two adjacent faces. Do not trust only one side of a post as lumber is rarely perfect. Step back every few holes and eyeball the overall run. Small corrections early keep you from a snake like fence.

Let concrete cure and plan your rails

Patience helps. Give posts a day to set before loading them. If you must keep moving, work in zones so you are framing where concrete has already firmed up. Measure post heights and snap a chalk line for where the top should land, accounting for any slope. It is common to cut post tops after rails and boards are on, since you can mark a clean, consistent line then.

Most six foot privacy fences use two or three rails. Two rails can hold up with good boards and calm weather, but three rails control warping better and support taller pickets. Attach rails with exterior screws or structural brackets, making sure to leave the same reveal on each bay. If your grade steps, treat each bay as its own level section and keep the steps even.

I always install rails with the crown up. Lumber has a natural curve along its length. If you put that curve up, any sag over time will reduce the arc rather than exaggerate it.

Pickets or panels

Beginners often choose prebuilt panels for speed. Panels do move the process along, but they demand near perfect post spacing and plumb to avoid ugly gaps. If your layout is not dead on, individual pickets forgive more. When installing panels, use blocks to lift the panel to the right height, level it, and attach to posts with exterior screws or panel brackets. In a yard with uneven grade, consider stepping panels so the bottoms are at a consistent distance from the ground to keep a tidy look.

For individual pickets, start with a spacer block cut to the desired gap, usually **fence installation** one quarter to three eighths of an inch if you want airflow and room for wood movement. Install a few pickets, step back, and

confirm the top line reads straight. On runs longer than thirty feet, a small drift from tiny errors can add up, so recheck plumb often. With dog ear pickets, you can blend minor height differences by adjusting the top cuts later.

Face the good side where it matters. Some cities require the smooth side to face the street or neighbors. Even if it is not a rule, orient the best face toward public view. A clean exterior keeps everyone happier.

Building a gate that does not sag

A gate is where many DIY fences let you know they were DIY. The weight, movement, and constant handling expose weak framing and flimsy hardware. Frame the gate from dry, straight lumber and tie the corners with pocket screws plus exterior glue, or use metal corner brackets. Add a diagonal brace from the bottom latch side up to the top hinge side so gravity loads transfer into the hinge post.

Skin the gate with boards that match the fence, leaving the same gaps if applicable. Pre drill hardware locations and use through bolts for hinges on heavier gates rather than relying on wood screws alone. Hang the gate with a slight upward bias so it settles into level under its own weight. If you have a wide driveway style gate, split it into two leaves rather than one heavy span, and provide a solid drop rod receiver in the ground.

Leave clearance. Ground that heaves or softens through the year will snag a tight gate. An inch of clearance at the bottom is safer than a half inch if frost or mud is common in your area. On the latch side, make sure the strike plate captures securely without slamming.

Finishing, stain, and long term care

Raw wood needs protection. A penetrating oil based stain or a high quality waterborne equivalent soaked into dry boards improves longevity and looks. I do not apply stain to very wet treated lumber; it needs weeks to dry to a moisture level under roughly 15 percent for best results. Cedar can be stained sooner, often within a few days of install if it has not sat in the rain.

Choose a color that matches your home's trim or stays neutral. Transparent finishes show wood grain but offer the least UV protection, semi transparent balances color with character, and solid color stains act more like paint with stronger UV blocking. A sprayer speeds application, but back brushing pushes stain into pores and evens coverage. Expect to recoat every two to five years, depending on sun exposure and product quality.

Maintenance is simple if you set aside a half day each spring. Walk the line, tighten loose screws, realign a latch, and wash away mildew with a mild cleaner. If a storm drops a limb and cracks boards, prompt fence repair prevents small problems from spreading. A single replaced picket now beats a bowed section later.

Common mistakes I see and how to avoid them

Shallow posts lead the list. Fences act like sails. In wind, too little embedment depth lets posts rock, which loosens rails and creaks joints. Aim deep, use gravel at the base, and bell out the bottom of the hole slightly in frost zones to resist uplift.

Rushing layout causes crooked lines. Even if your property has a jog, keep each span straight in itself. The human eye forgives steps and changes, but it hates wavy lines.

Using bright, non exterior screws invites streaks and failures. Spend a few extra dollars on proper fasteners and you will not be swapping rusted hardware in two years.

Forgetting to leave expansion gaps between pickets can trap moisture and create cupping. Wood moves with seasons. Give it a little room to breathe.

Setting the gate on a weak post turns every open and close into leverage against a soft point. If you have room for a bigger post on the hinge side, use it. If a narrow setback limits size, brace well and anchor hardware through the post to spread load.

When to call a pro

Plenty of homeowners do their own wood fence installation and feel great about it. There are times, though, when hiring a fence contractor saves money and aggravation. Long runs along steep slopes, rocky soil that laughs at shovels, and multi gate designs test patience. If you are close to a pool or need to meet strict codes, a reputable fence company knows the rules and has the jigs and tools to make quick work of a complex job.

Look for fence installation services that carry insurance, pull permits when required, and provide references you can call. Walk the yard with the estimator and ask about post depth, hardware choices, and how they handle slopes. A commercial fence company may charge more, but they bring crews, specialized equipment, and experience with heavy duty hardware and security features. For a small residential project, a local crew with solid reviews often hits the right balance of price and quality.

Do not overlook repair work. If your fence only needs a few new posts or a new gate, targeted fence repair can stretch the life of an existing line. The same goes for mixed material properties. If you have a section of vinyl that took a hit from a storm, vinyl fence repair is its own craft. Matching color and profile, then resetting panels without breaking brittle clips, feels different from working with wood. If you are adding a new wood section next to existing vinyl, plan heights and transitions carefully so it feels intentional rather than patched together. Should you decide to switch entirely, vinyl fence installation rides on different hardware and footing choices, and a crew familiar with the system will move faster with fewer mistakes.

Dealing with slopes, trees, and obstacles

Few yards are blank slates. On a gentle slope, you can follow the ground with a consistent reveal at the bottom of the fence, or step each bay so the top remains level. For privacy fences, stepping usually looks tidier, while for picket fences, a slight follow of the grade can read more natural.

Trees complicate lines. Most codes require clearance around trunks to protect the tree and allow growth. Build around with a tasteful jog rather than notching boards around bark. Roots also derail post holes. If you meet a root wider than your wrist, do not hack through it unless an arborist approves. Shift the post location slightly and adjust panel widths to compensate.

Sprinklers, drain lines, and landscape lighting get damaged when digging carelessly. After utility marking, run your own quick checks. A shallow hand dig over suspected lines can save you a repair bill. Map what you find so future projects do not repeat the discovery.

Budgeting time and money

A typical weekend crew of two can set twenty to thirty posts if holes dig cleanly and the run is straightforward. Add another weekend to frame and skin, then set aside an evening for gates and hardware. Staining adds a day depending on size and drying time.

Material costs hinge on lumber markets, which swing through the year. When pine prices spike, consider alternates like shorter bay spacing with thinner pickets, or peruse local classifieds for leftovers from larger jobs. Hardware does not go on sale as often, so buy quality once and reuse extra on future maintenance. If hiring out, get at least two bids, and compare scope carefully. One line item may include removal and haul off of an old fence, while another assumes you handle demo.

Safety and etiquette on site

Wear eye protection, gloves, and ear protection when cutting or drilling. Concrete dust irritates lungs and skin, so mix at a distance from open windows and wash off splashes promptly. Keep kids and pets away from open holes and erected panels that are not yet braced.

Let neighbors know your schedule and keep an eye on their plants and structures that sit close to the line. A tarp over delicate shrubs or a piece of plywood to shield a shed wall shows respect and prevents accidental damage.

A final walkthrough mindset

When the last screw goes in, walk the fence with fresh eyes. Sight along the top line for humps that could use a trim, test the gate several times, and look for proud screws or nails that should be set flush. Hose off dust and stray concrete spatter. If you are staining, label the product and color on a piece of tape hidden inside the gate for future touch ups.

A well planned fence feels like it has always belonged on the property. It meets practical needs, stands square, and improves the daily experience of home. Whether you built it yourself or partnered with a fence contractor, the last step is the most satisfying one. Close the gate, hear the latch click, and take in the straight line you carved with your own hands.