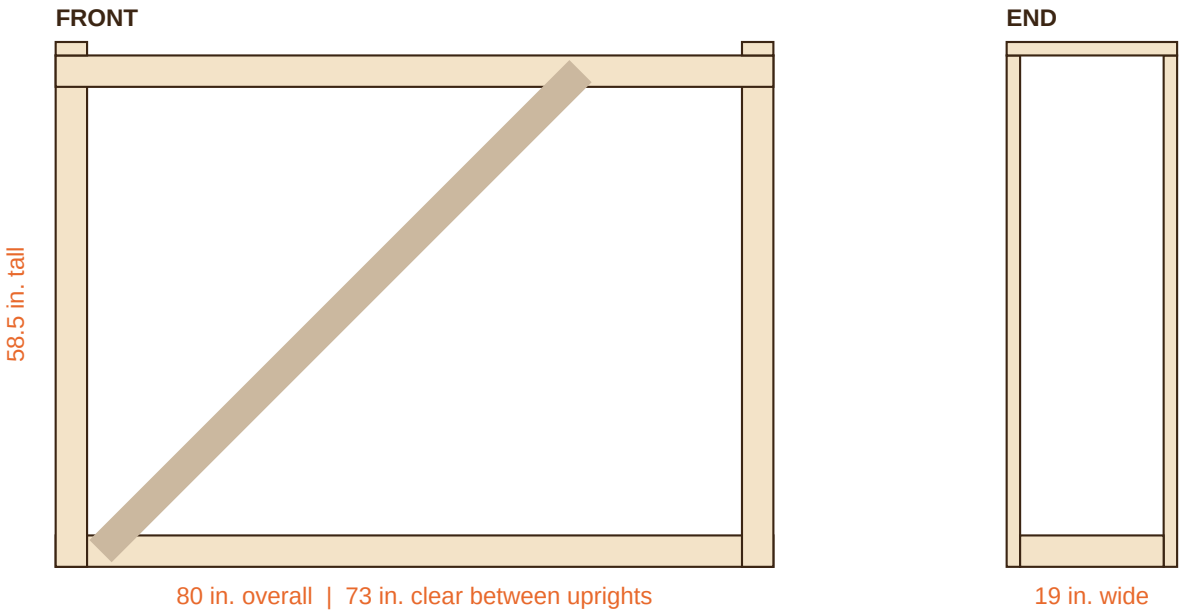
DIY 2x4 Firewood Rack

Holds a quarter cord (32 cubic feet) of 16-inch firewood. About 2 to 3 hours with basic tools.



Materials

- 10 pressure-treated 2x4s, 8 ft (rated for ground contact)
- 16 carriage bolts 3/8 x 3-1/2 in. with washers and nuts
- About 40 exterior deck screws, 3 in.
- 4 concrete pavers or blocks to set it on
- Optional roof: 1 corrugated metal or polycarbonate panel, 26 in. x 8 ft, and roofing screws
- Tools: circular or miter saw, drill with 3/8 in. bit, square, tape, level, clamps, wrench

Cut list

Part	Qty	Length	Notes
Base rails	2	80 in.	One 8 ft board each
Top rails	2	80 in.	One 8 ft board each
Uprights	4	57 in.	One 8 ft board each; keep two 39 in. offcuts
Base spacers	3	13 in.	From one 39 in. offcut
Top ties	2	19 in.	From the other 39 in. offcut
Diagonal braces	2	about 76 in.	45 degree ends; cut to fit after the frame is square

Steps

1. Build the base. Stand the two base rails on edge and screw a 13 in. spacer between them at each end and one in the middle, two 3 in. screws through the rail into each spacer end. The base is 16 in. wide outside, so 16 in. splits sit fully on it.
2. Add the uprights. Clamp an upright to the outside face of a base rail, flush with the rail end and the bottom. Square it, drill through both pieces and fit two carriage bolts. Repeat at all four corners.
3. Add the top rails. Clamp a top rail to the inside faces of each pair of uprights, flush with the tops, and bolt it with two carriage bolts at each upright. Measure the diagonals of each long side; adjust until they match.
4. Brace the long sides. On the outside of each long side, lay a 2x4 from the base rail near one end up to the top rail. It sits flat against both rails. Mark 45 degree ends, cut and screw it to each rail with four 3 in. screws. Run the two braces in opposite directions.
5. Tie the ends. Screw a 19 in. top tie across the tops of each end pair of uprights.
6. Set it level on four pavers so no wood touches the ground. Add the roof panel across the top if you want one, overhanging the sides, and leave the sides open.
7. Stack 16 in. splits bark side up, up to 48 in. above the base, below the top rails. Full, it holds about 32 cubic feet: a quarter cord.

Keep the rack at least 20 feet from your house, off the ground, with the sides open to the wind. Wear eye and hearing protection when cutting, and follow your tool makers' safety instructions. Need wood to fill it? Order seasoned firewood by the cord at woodforfire.com.