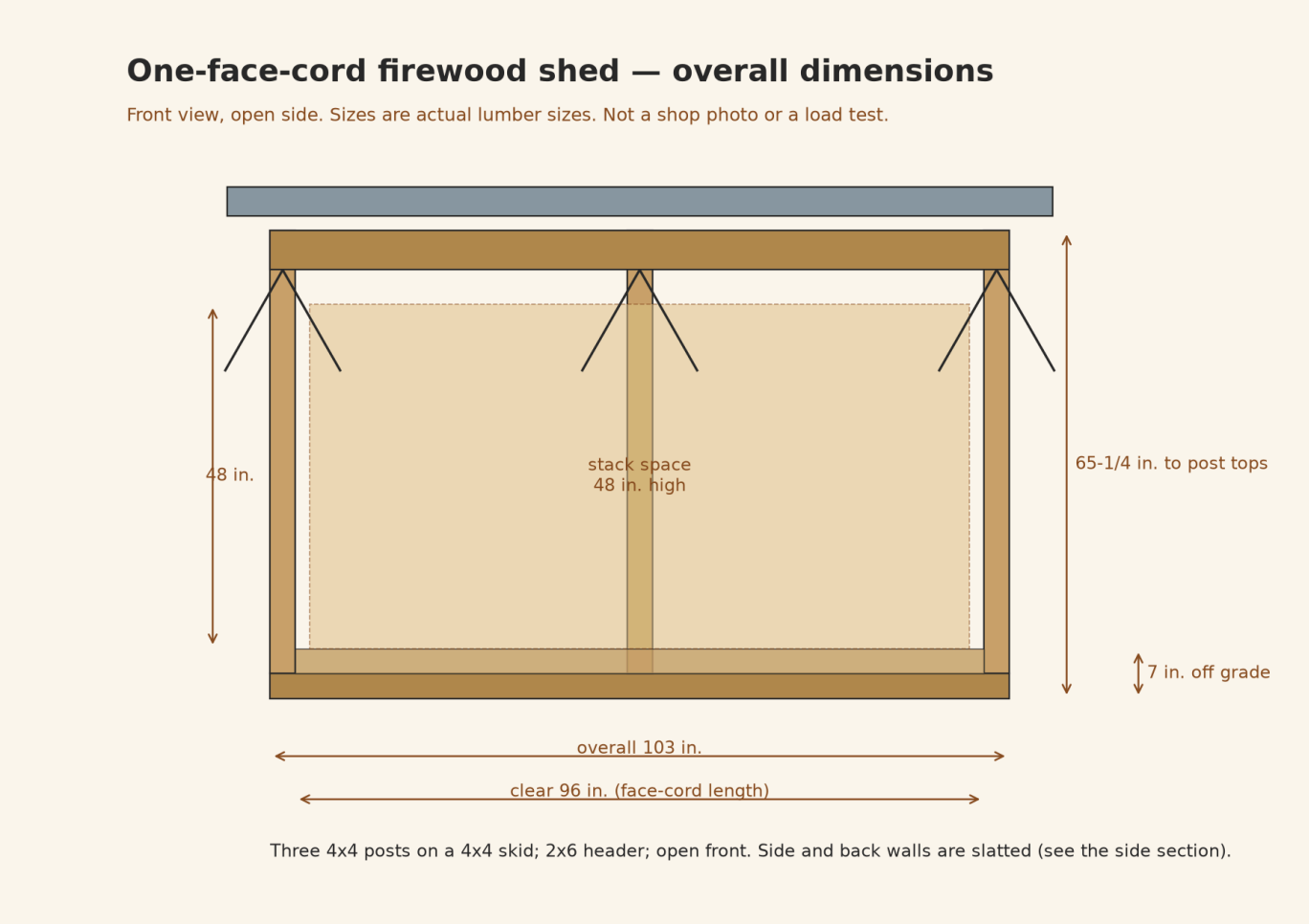
Shed & Bench shedandbench.com

Firewood Shed: Printable Plan

Materials list, cut list, key steps, and diagrams. Free to print and use.

Not engineered or load-tested. No engineer has reviewed this plan. Shed & Bench worked out the dimensions and checked that the parts fit together on paper, but strength depends on your lumber, fasteners, anchors, snow, and wind. Don't treat the sizes on this page as a rated capacity. If you have heavy snow or strong wind, or local rules that apply to even a small shed, have a local professional review the plan before you build, and check permit and setback rules with your building department.

At a glance: open-front firewood shed for about one face cord of 16-in. wood; clear bay 96 in. long × 18 in. deep × 48 in. stack height (48 cubic feet; a 16-in. face cord is 42-2/3 cubic feet). Overall footprint 103 in. × 25 in., plus 6-in. roof overhangs. Lean-to roof at 3-in-12, high at the open front. Two 4x4 skids, on grade or on blocks. Front posts 61-3/4 in.; back posts 55-1/2 in.. Floor slats sit 7 in. above grade if the skids are on the ground. All sizes are actual lumber sizes. Full instructions: shedandbench.com/firewood-shed-plans/



Overall dimensions, front view

Materials list

Buy	Size	Qty	Used for
4x4, pressure-treated, ground-contact	10 ft	2	Skids
4x4 (treated or untreated)	8 ft	6	Posts
2x6	10 ft	2	Front and back headers
2x4	10 ft	3	Purlins
2x4	8 ft	8	Floor slats, rafters, side plates, and braces
1x6	10 ft	8	Back slats
1x6	8 ft	6	Side slats
Carriage bolts with washers and nuts, 3/8 in. × 5 or 6 in., exterior-rated	—	24	Posts to skids and headers to posts
Exterior-rated 2-1/2 in. or 3 in. screws	—	about 200	Slats, rafters, purlins, and braces
Corrugated metal roofing, plus the maker's fasteners and closure strips	to cover about 10 ft × 4 ft	1 set	Roof
Optional concrete blocks	sized to the skids	6 to 8	If you want the skids up on blocks instead of on grade

Use fasteners the maker rates for exterior use. For copper-based pressure-treated lumber, stay with hot-dip galvanized or stainless fasteners unless the preservative supplier specifies something else.

Metal roofing is sold in different coverage widths. Buy enough to cover a roof about 115 in. wide by 38-1/8 in. along the slope, plus the maker's fasteners and closure strips, and follow the roofing label.

No prices are listed. Lumber and metal prices change by region and by week. Price this list at your local store on the day you buy.

Cut list

Part	Material	Qty	Length / size	Notes
Skids	4x4 PT, ground-contact	2	103 in.	Pressure-treated, rated for ground contact; run the 8-ft length, front and back
Front posts	4x4	3	61-3/4 in.	Sit on the front skid; high side of the lean-to, at the open front
Back posts	4x4	3	55-1/2 in.	Sit on the back skid; low side of the lean-to
Front and back headers	2x6	2	103 in.	Bolt to the post faces, flush with the post tops; rafters bear on these
Floor slats	2x4	12	25 in.	On edge, across the two skids, with gaps for airflow
Side plates	2x4	2	18 in.	Between the front and back posts on each end, at the top
Rafters	2x4	6	38-1/8 in.	3-in-12 slope; 6-in. overhang at the front and at the back
Purlins	2x4	3	115 in.	Across the rafters, to carry corrugated metal roofing
Knee braces	2x4	6	18 in.	One at each post, in the plane of the front or back wall
Back slats	1x6	8	103 in.	Horizontal, with about 1-in. gaps for airflow
Side slats	1x6	16	25 in.	Horizontal, eight per side, with about 1-in. gaps; the front stays open

Cutting plan

4x4 (skids)	Cut from it
4x4 x 10 ft #1	skid (103 in.)
4x4 x 10 ft #2	skid (103 in.)

4x4 (posts)	Cut from it
4x4 x 8 ft #1	front post (61-3/4 in.)
4x4 x 8 ft #2	front post (61-3/4 in.)
4x4 x 8 ft #3	front post (61-3/4 in.)
4x4 x 8 ft #4	back post (55-1/2 in.)
4x4 x 8 ft #5	back post (55-1/2 in.)
4x4 x 8 ft #6	back post (55-1/2 in.)

2x6 (headers)	Cut from it
2x6 x 10 ft #1	header (103 in.)
2x6 x 10 ft #2	header (103 in.)

2x4 x 10 ft (purlins)	Cut from it
2x4 x 10 ft #1	purlin (115 in.)
2x4 x 10 ft #2	purlin (115 in.)
2x4 x 10 ft #3	purlin (115 in.)

2x4 x 8 ft	Cut from it
2x4 x 8 ft #1	rafter (38-1/8 in.) + rafter (38-1/8 in.) + side plate (18 in.)
2x4 x 8 ft #2	rafter (38-1/8 in.) + rafter (38-1/8 in.) + side plate (18 in.)
2x4 x 8 ft #3	rafter (38-1/8 in.) + rafter (38-1/8 in.) + knee brace (18 in.)
2x4 x 8 ft #4	floor slat (25 in.) + floor slat (25 in.) + floor slat (25 in.) + knee brace (18 in.)
2x4 x 8 ft #5	floor slat (25 in.) + floor slat (25 in.) + floor slat (25 in.) + knee brace (18 in.)
2x4 x 8 ft #6	floor slat (25 in.) + floor slat (25 in.) + floor slat (25 in.) + knee brace (18 in.)
2x4 x 8 ft #7	floor slat (25 in.) + floor slat (25 in.) + floor slat (25 in.) + knee brace (18 in.)
2x4 x 8 ft #8	knee brace (18 in.)

1x6 x 10 ft (back)	Cut from it
1x6 x 10 ft #1	back slat (103 in.)
1x6 x 10 ft #2	back slat (103 in.)
1x6 x 10 ft #3	back slat (103 in.)
1x6 x 10 ft #4	back slat (103 in.)
1x6 x 10 ft #5	back slat (103 in.)
1x6 x 10 ft #6	back slat (103 in.)
1x6 x 10 ft #7	back slat (103 in.)
1x6 x 10 ft #8	back slat (103 in.)

1x6 x 8 ft (sides)	Cut from it
1x6 x 8 ft #1	side slat (25 in.) + side slat (25 in.) + side slat (25 in.)
1x6 x 8 ft #2	side slat (25 in.) + side slat (25 in.) + side slat (25 in.)
1x6 x 8 ft #3	side slat (25 in.) + side slat (25 in.) + side slat (25 in.)
1x6 x 8 ft #4	side slat (25 in.) + side slat (25 in.) + side slat (25 in.)

1x6 x 8 ft #5	side slat (25 in.) + side slat (25 in.) + side slat (25 in.)
1x6 x 8 ft #6	side slat (25 in.)

The leftover on each board stays on the board. The eighth 8-ft 2x4 is mostly leftover after one 18-in. knee brace; keep it as a spare brace or a stake.

Key steps

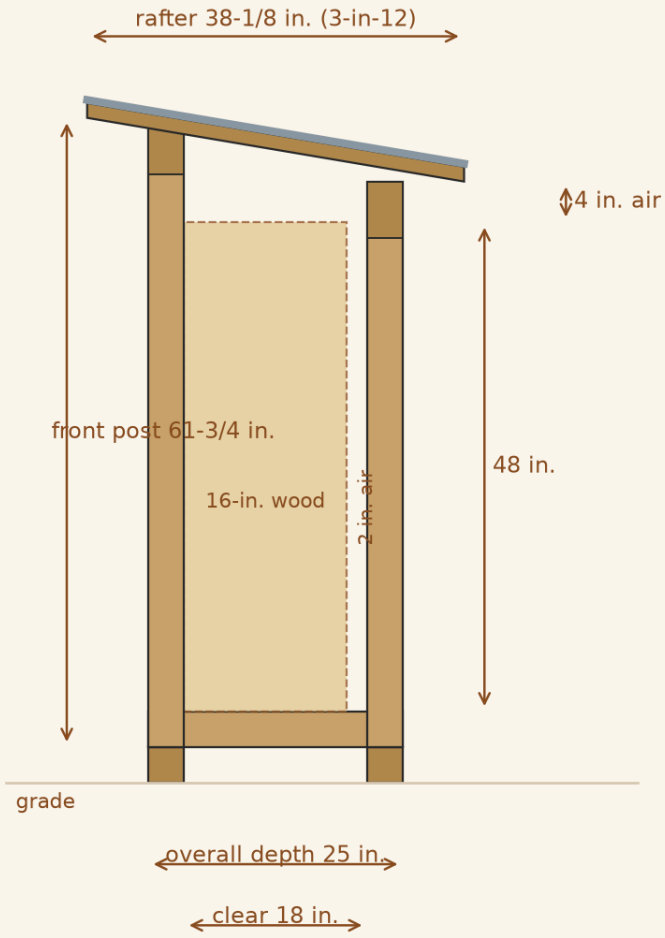
1. **Cut and label the parts.** Cut the two 103 in. skids from the 10-ft 4x4s, the three 61-3/4 in. front posts and three 55-1/2 in. back posts from the 8-ft 4x4s, and the two 103 in. 2x6 headers from the 10-ft 2x6s, following the cutting diagrams. Cut the 2x4 floor slats, rafters, side plates, and braces from the eight 8-ft 2x4s, and the three 115 in. purlins from the 10-ft 2x4s. Cut the eight 103 in. back slats and the sixteen 25 in. side slats from the 1x6s. Label each part. Cut a test rafter first (38-1/8 in. along the long edge, 3-in-12 slope), set it on the two headers, and confirm the overhangs before you cut the rest.
2. **Set the skids.** Lay the two 4x4 skids on a firm, reasonably level spot, 25 in. apart outside to outside, running the long direction. The front skid is the open side. You can set them on grade or on concrete blocks; if you use blocks, use pieces large enough that each skid is fully supported and does not teeter. Check that the skids are level with each other, or as close as the site allows, and that water will drain away from the stack, not toward it. The skids should be pressure-treated lumber rated for ground contact.
3. **Stand the posts and bolt them to the skids.** Stand the three front posts on the front skid, one at each end and one at mid-length, and the three back posts on the back skid in the same way. The inner faces of the end posts should be 96 in. apart, and the inner faces of the front and back posts 18 in. apart. The post bottoms sit on top of the skids, not in the soil. Plumb each post, clamp or brace it, and bolt it to the skid with two exterior-rated 3/8-in. carriage bolts, washers, and nuts. Pre-drill. Check the diagonals on the long walls before you tighten.
4. **Add the headers, side plates, and braces.** Bolt a 103 in. 2x6 header to the faces of the three front posts, flush with the post tops, with two bolts at each post. Do the same at the back. Fit an 18-in. 2x4 side plate between the front and back posts on each end, at the top, and screw it in place. Add one 18-in. 2x4 knee brace at each post, in the plane of the front or back wall, from the post to the header. Recheck that the posts are plumb and that the clear bay is still 96 in. by 18 in..
5. **Add the floor slats.** Set the twelve 2x4 floor slats on edge across the two skids, spaced with about 7-3/4 in. gaps, so they fill the 103 in. length. Keep the end slats tight to the end posts or just inside them. Screw each slat to both skids with exterior-rated screws. The top of the slats should be 7 in. above grade if the skids are on the ground.
6. **Set the rafters, purlins, and roof.** Set the six 2x4 rafters on the front and back headers, on the 3-in-12 slope, with a 6-in. overhang at the front and at the back. Place one rafter at each end, one over the mid posts, and the others spaced between. Screw each rafter to both headers. Then add the three 115 in. 2x4 purlins across the rafters — one near the front overhang, one near mid-slope, and one near the back — and screw them to each rafter. Install the corrugated metal roofing with the maker's fasteners and closure strips, and follow the label. An open-front shed can catch wind under the roof. In a windy site, anchor or weight the skids with an outdoor-rated anchor the maker rates for a small shed, or set the skids on blocks in a way that resists uplift. This plan does not include an engineered anchor schedule.
7. **Add the slatted sides and back, and check the shed.** Screw the eight 1x6 back slats across the back posts, with about 1-in. gaps, starting just above the floor slats and stopping short of the back header so air can move at the top. Screw eight 1x6 slats on each side, with the same gaps, between or across the front and back posts. Leave the front completely open. Confirm the shed sits flat, the bolts and screws are tight, the stack space is still 96 in. by 18 in. by 48 in., and there are about 4 in. of air under the rafters at the back. Stack 16-in. wood with a little air at the back, and do not pack the shed past the 48-in. stack height.

Wear eye and hearing protection. Pre-drill near board ends. This design isn't engineered or load-tested. Square each assembly as you go, and don't climb on the roof.

Diagrams

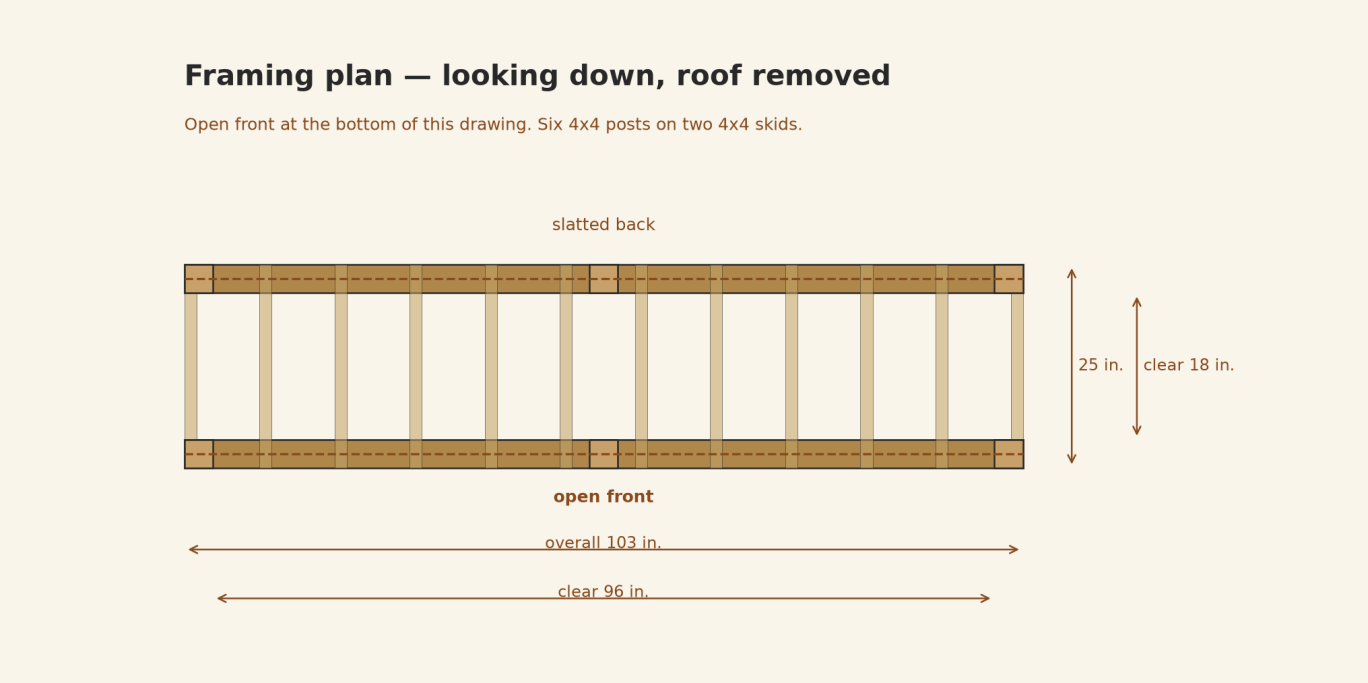
Side section — lean-to roof, slatted back, 16-in. wood

High side at the open front, 3-in-12 slope. Not a load-test or a photo of a built shed.

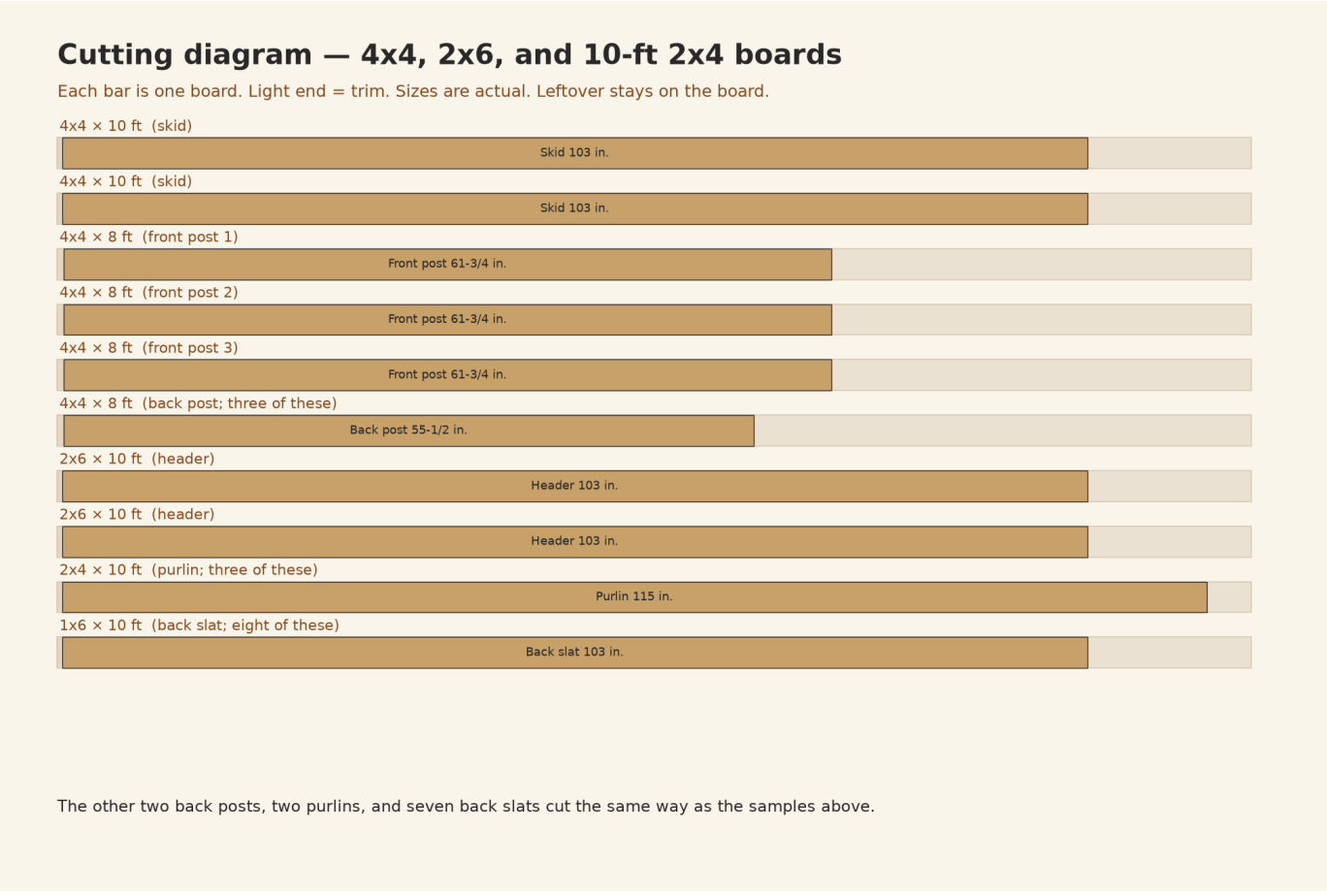


Open front (left). Slatted back (right). Skids may sit on grade or on concrete blocks.

Side section: 3-in-12 roof, 16-in. wood, and air at the back



Framing plan, looking down with the roof removed

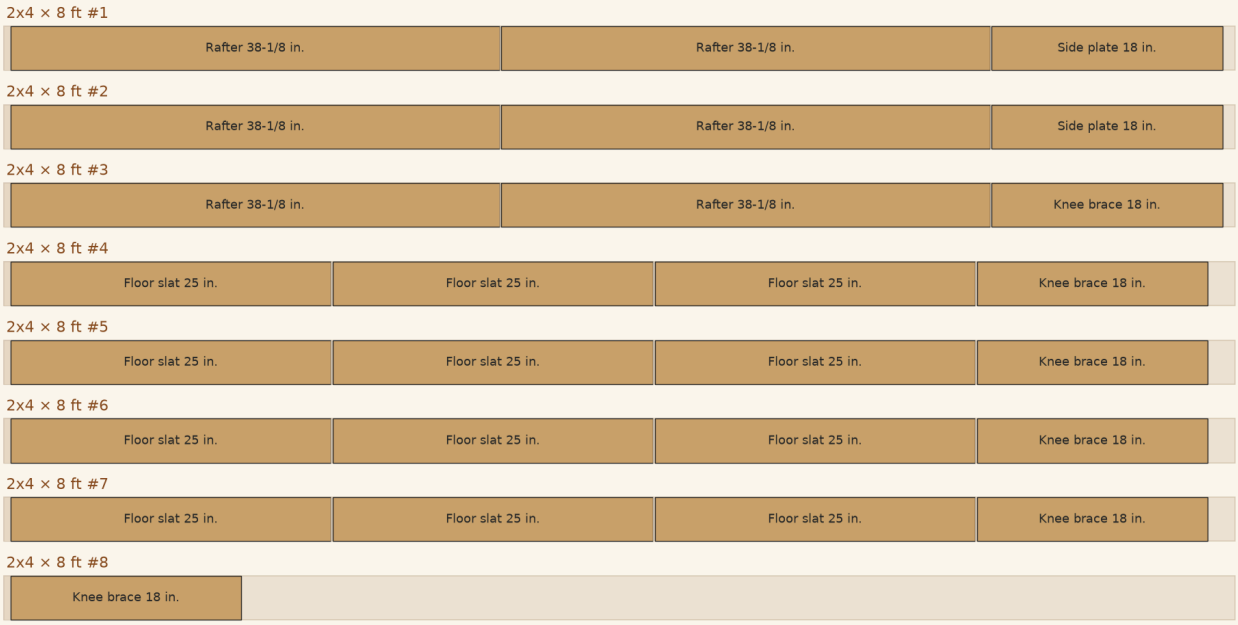


The other two back posts, two purlins, and seven back slats cut the same way as the samples above.

Cutting diagram: 4x4, 2x6, and 10-ft 2x4 boards

Cutting diagram — eight 8-ft 2x4s (slats, rafters, plates, braces)

Packed with a 1/2-in. trim allowance and a 1/8-in. kerf between cuts.



Cutting diagram: eight 8-ft 2x4s