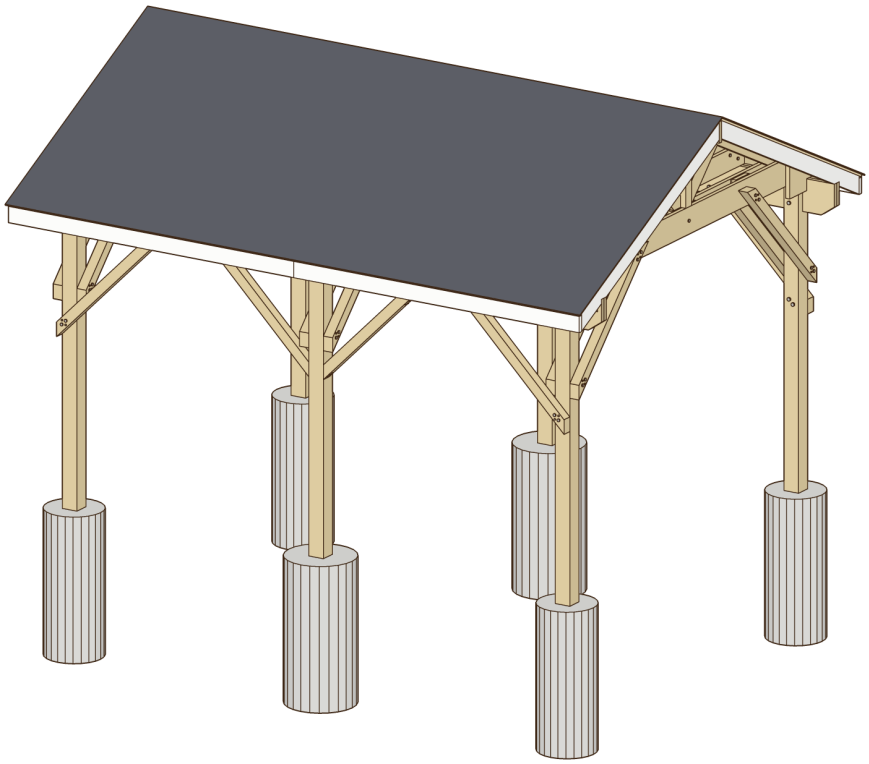
12X16

BACKYARD PAVILION PLAN

FREE STREAMLINED VERSION



Step overview · Framing previews · 3D views

Get the full plan: material list, cut list and every measurement > www.3dshedplans.com/12x16-backyard-pavilion-plan/

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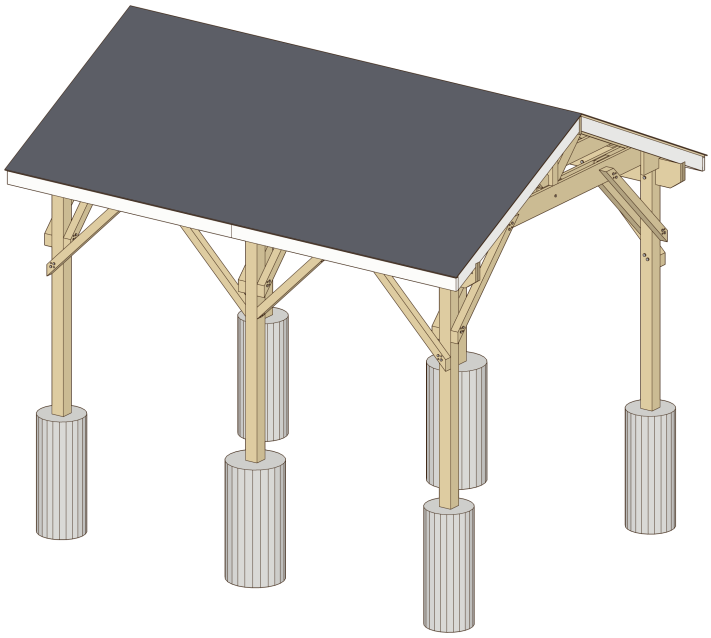
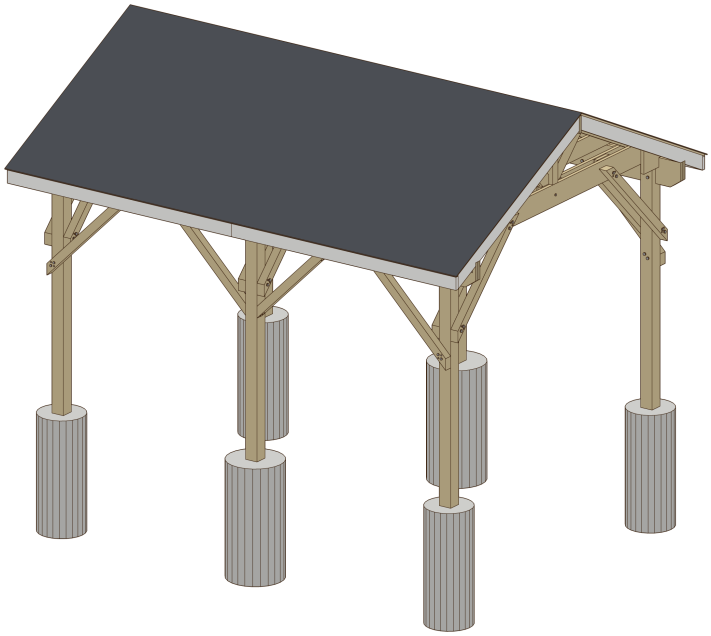
Before you start

Rules for roofed structures (permits, setbacks, footing depth, snow and wind) vary by town and HOA. Check your local permit office before you build, and have buried lines marked before you dig.

Safety: wear eye and ear protection, keep blades sharp and guards on, work from stable ladders with two helpers, and stay off a wet roof deck.

This free version walks through the five stages of the 12x16 pavilion plan with views from the full plan. Below: the finished pavilion.





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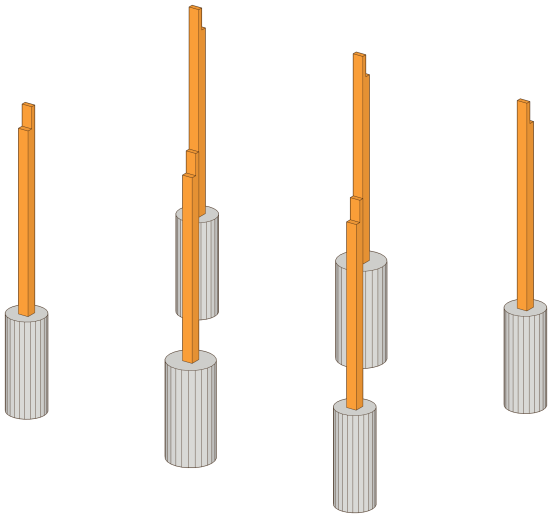
1 LAYOUT AND POSTS

String out the post centers, prove the layout square with equal diagonals, and set six 6x6 posts 4 ft deep in concrete, each marked level with a laser and notched for the beam.

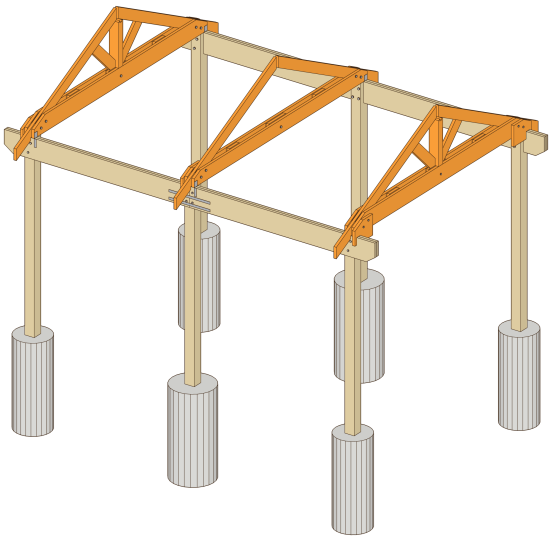
In the full plan: hole sizes, the post marking method and the concrete count. www.3dshedplans.com/12x16-backyard-pavilion-plan/



2 BEAMS AND BENTS

Two-board beams sit in the post notches. Across them, a tie beam on every post line clamps a rafter pair, and king posts stand ready for the ridge.

In the full plan: the rafter pattern and the bent drawings. www.3dshedplans.com/12x16-backyard-pavilion-plan/



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3 KNEE BRACES

Lapped 4x4 knee braces at every post, along the beams at the corners and across every bent, and four seated braces under the beams at the middle posts, stop the frame from swaying.

In the full plan: the brace cut drawings, bolt and screw positions.
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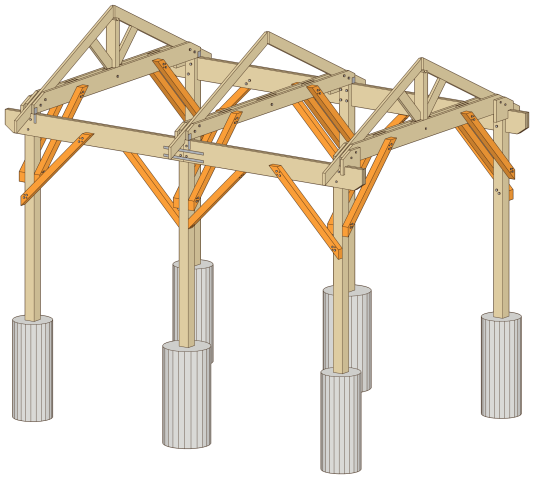

4 RIDGE AND RAFTERS

The ridge drops into the king posts, the rafters go up one at a time, and a rafter tie bolts across every inner pair.

In the full plan: the framing plan and the ground jig for the ties.
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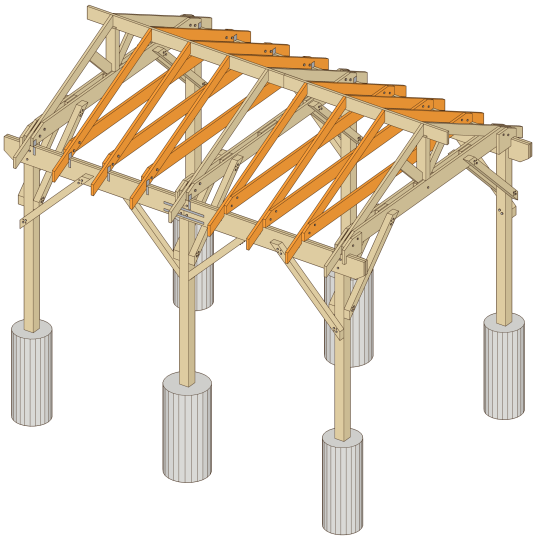

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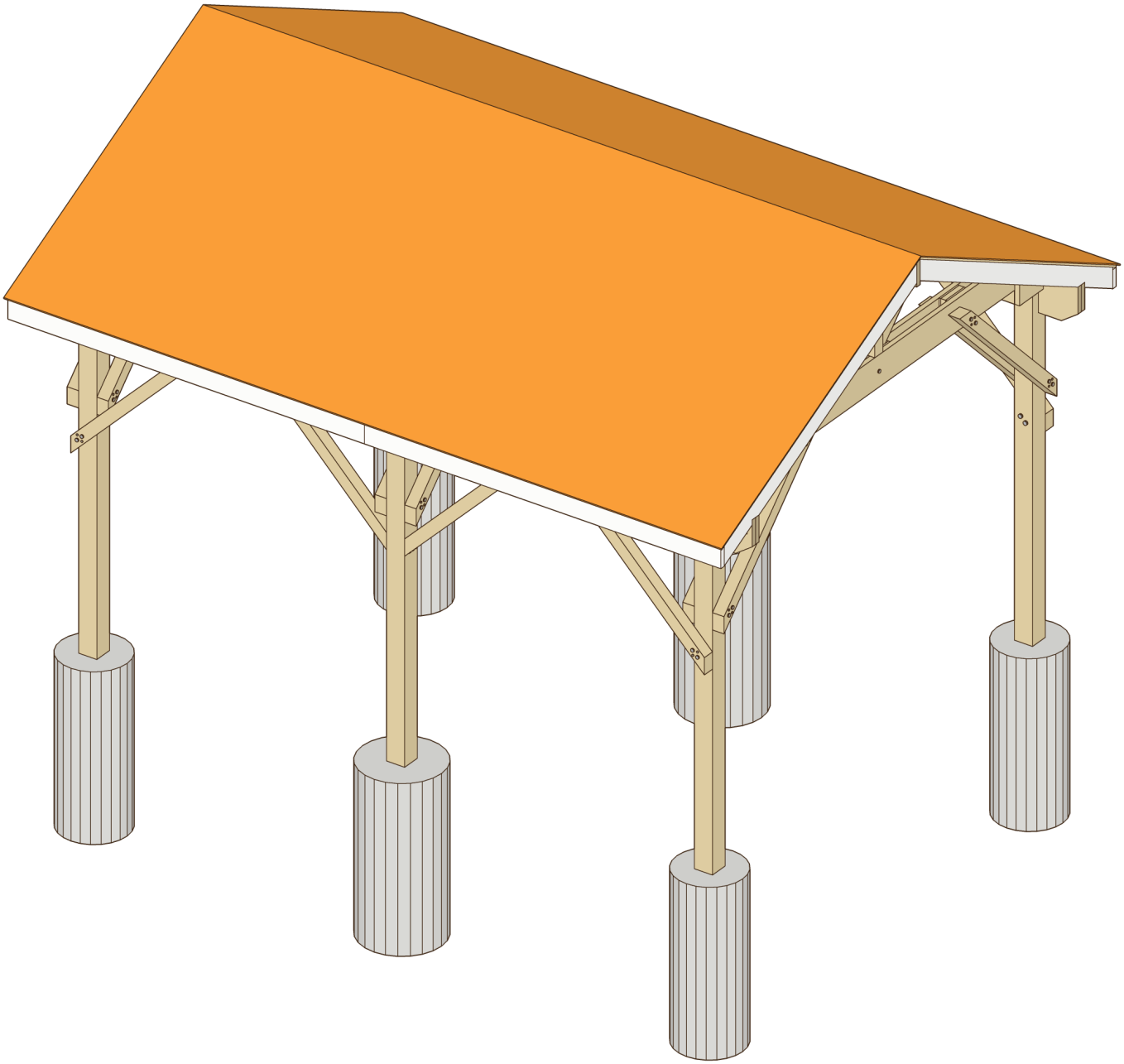
5 ROOF

Fly rafters and fascia trim the edges, then a plywood deck, drip edge, underlayment and laminated shingles finish the roof.

In the full plan: the deck sheet layout and the roofing order. www.3dshedplans.com/12x16-backyard-pavilion-plan/



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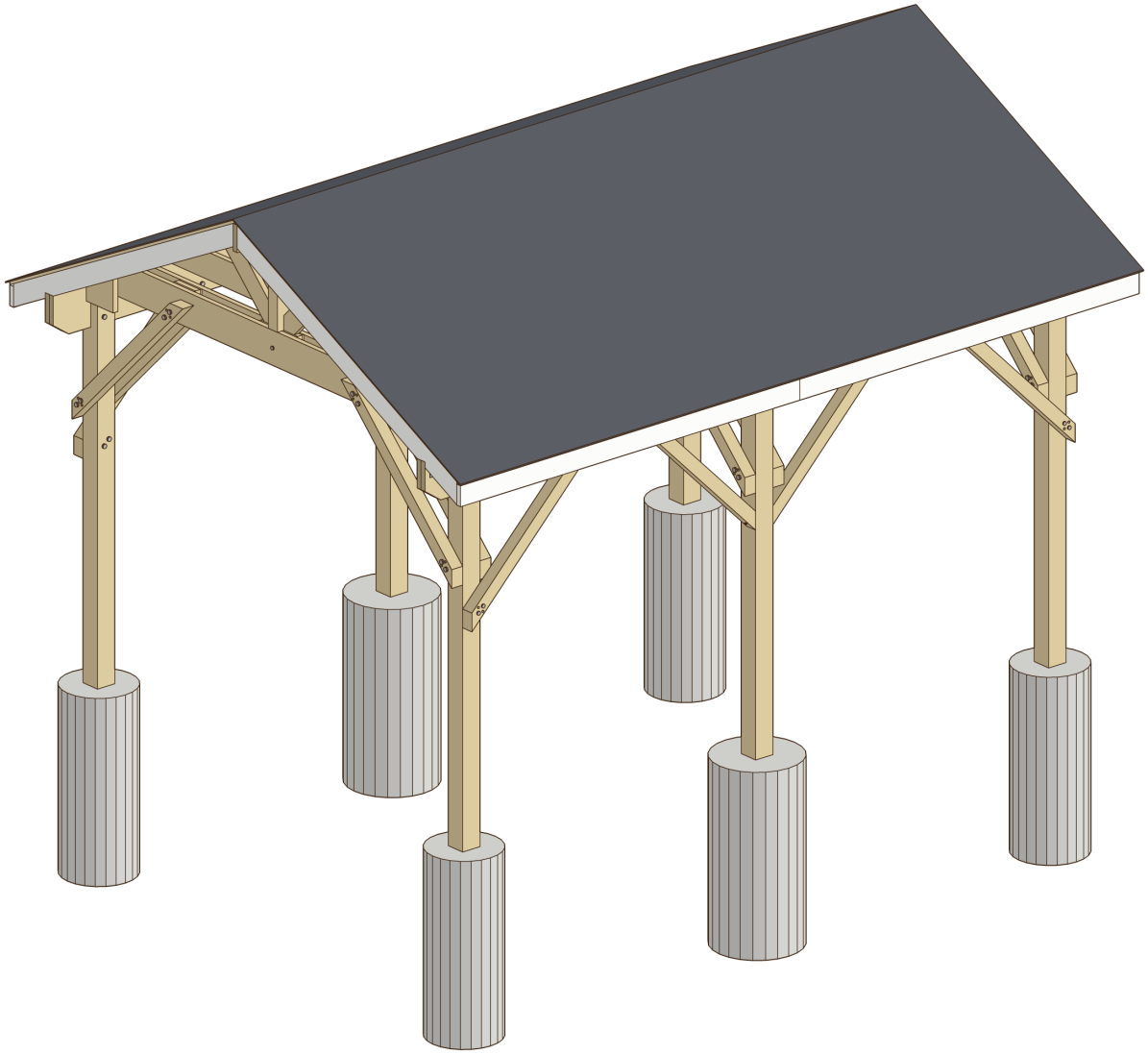
Ready to build?

The full 12x16 pavilion plan gives you the shopping list, the cut list, every measurement and a dimensioned drawing for each building step. Instant PDF download: www.3dshedplans.com/12x16-backyard-pavilion-plan/

	Free	Full plan
3D views and step overview	Yes	Yes
Material list with quantities	No	Yes
Cut list for every part	No	Yes
Measurements for every cut and layout step	No	Yes
Rafter pattern and bent drawings	No	Yes
Every joint up close	No	Yes
Pro tips	No	Yes



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