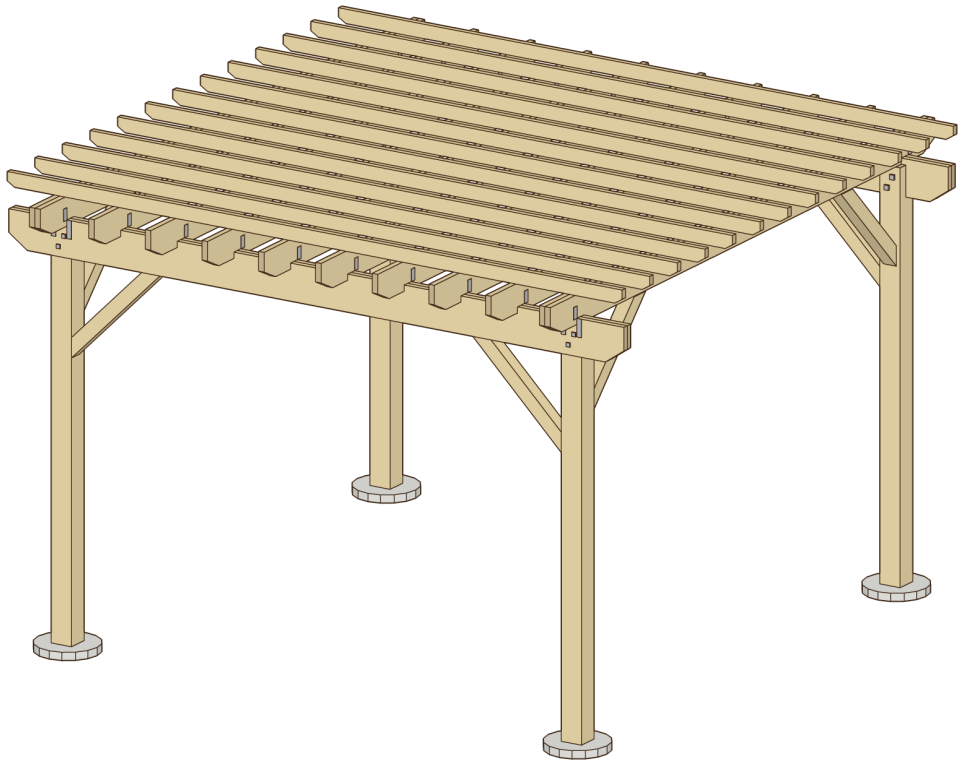
12X12

FREESTANDING PERGOLA PLAN

FREE STREAMLINED VERSION



Step overview · Framing previews · 3D views

Get the full plan: material list, cut list and every measurement > www.3dshedplans.com/12x12-pergola-plan/

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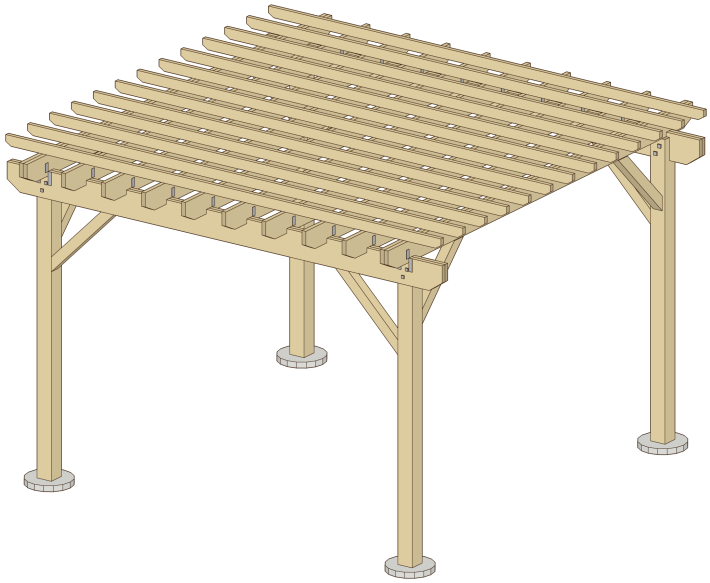
Before you start

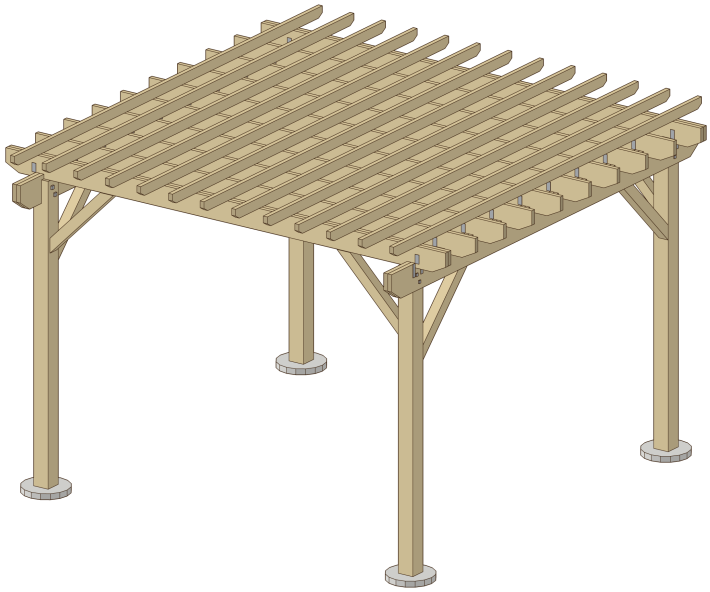
Pergola rules (height, setbacks, permits, footing depth) vary by town and HOA. Check your local permit office before you build, and have buried lines marked before you dig.

Safety: wear eye and ear protection, keep blades sharp and guards on, work from a rolling scaffold with a guard rail and stable step ladders, with helpers, and stay off the rafters.

This plan is for a sheltered backyard. It is not for mounting on a slab or on post bases: the posts are set in concrete.

This free version walks through five stages of the 12x12 pergola plan with views from the full plan. Below: the finished pergola. The gravel floor in the pictures is optional and not part of the plan.



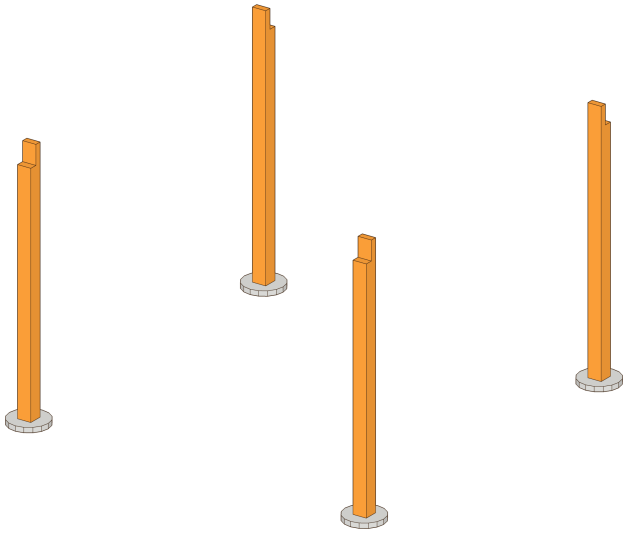


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1 LAYOUT AND POSTS IN CONCRETE

String out the post centers, prove the layout square with equal diagonals, dig the holes (to your frost line if it is deeper) and set the four posts in concrete, plumb and braced.

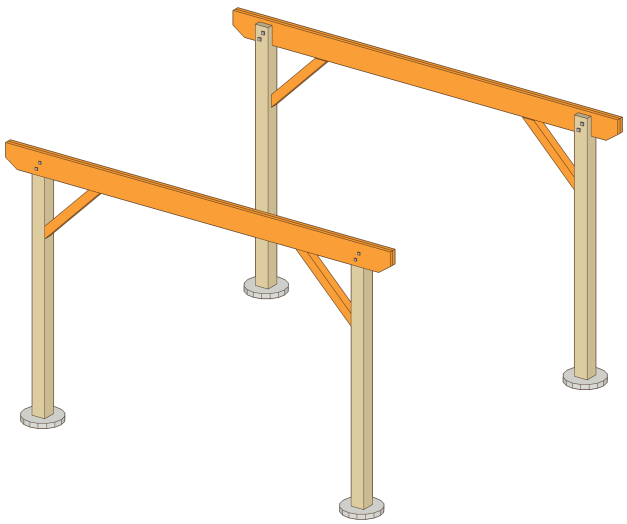
In the full plan: the foundation plan, the footing drawing and the concrete count. www.3dshedplans.com/12x12-pergola-plan/



2 BEAMS

The doubled beams go up one board at a time, sit on the notch shoulders and are bolted through the post. Four knee braces go on under them.

In the full plan: the notch drawing, bolt positions and the end pattern. www.3dshedplans.com/12x12-pergola-plan/

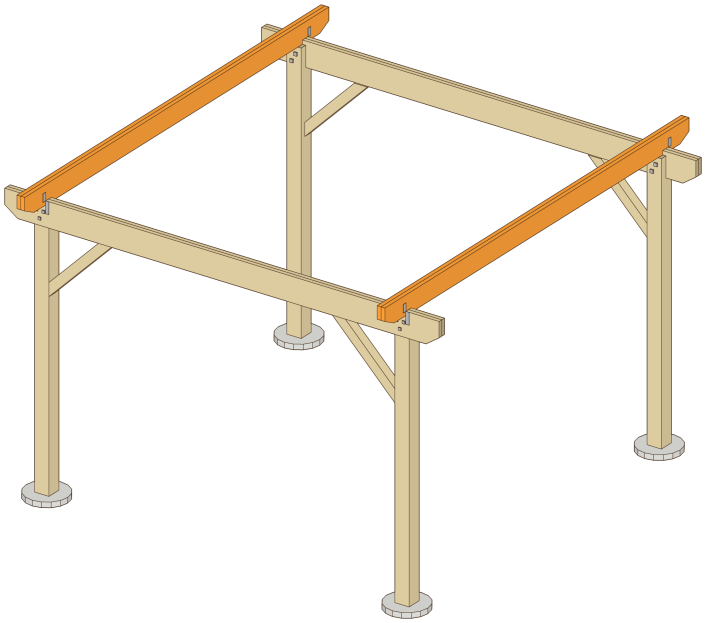


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3 POST-LINE RAFTERS

Doubled rafters go over each post line, notched over both beams.

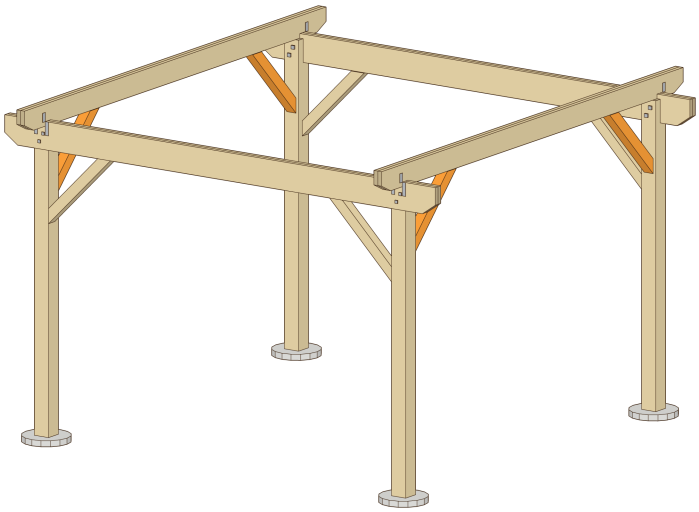
In the full plan: the rafter pattern and how each board goes up without carrying it up a ladder: two lift from the ground, a third catches it on the scaffold. www.3dshedplans.com/12x12-pergola-plan/



4 KNEE BRACES

Angled braces go on under the doubled rafters, so every post is braced in both directions.

In the full plan: the brace cut drawing and how each end is seated. www.3dshedplans.com/12x12-pergola-plan/

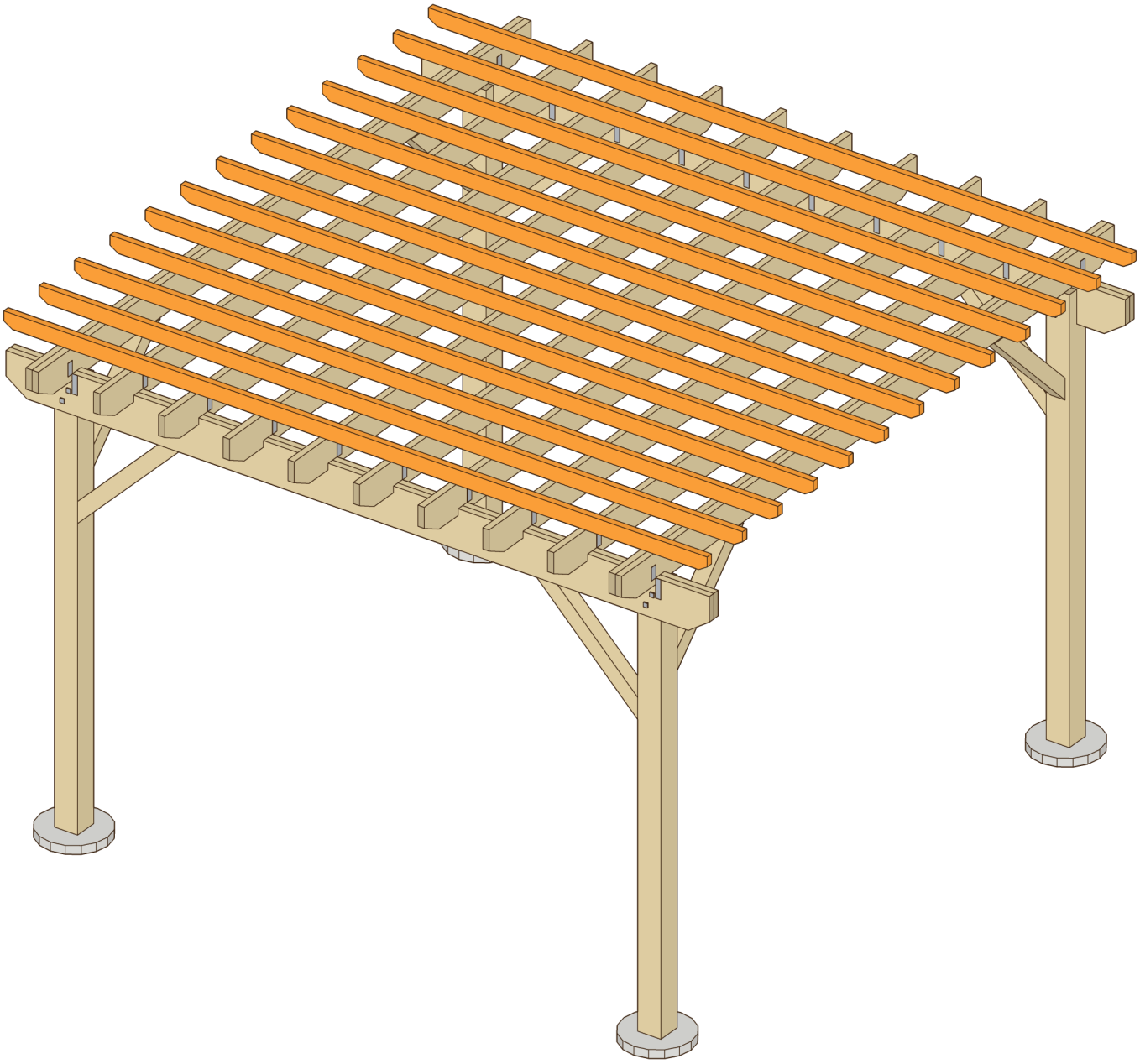


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5 RAFTERS AND PURLINS

Notched rafters drop over both beams with a tie at every crossing, then purlins stand on edge across them.

In the full plan: the rafter pattern and every layout mark. www.3dshedplans.com/12x12-pergola-plan/

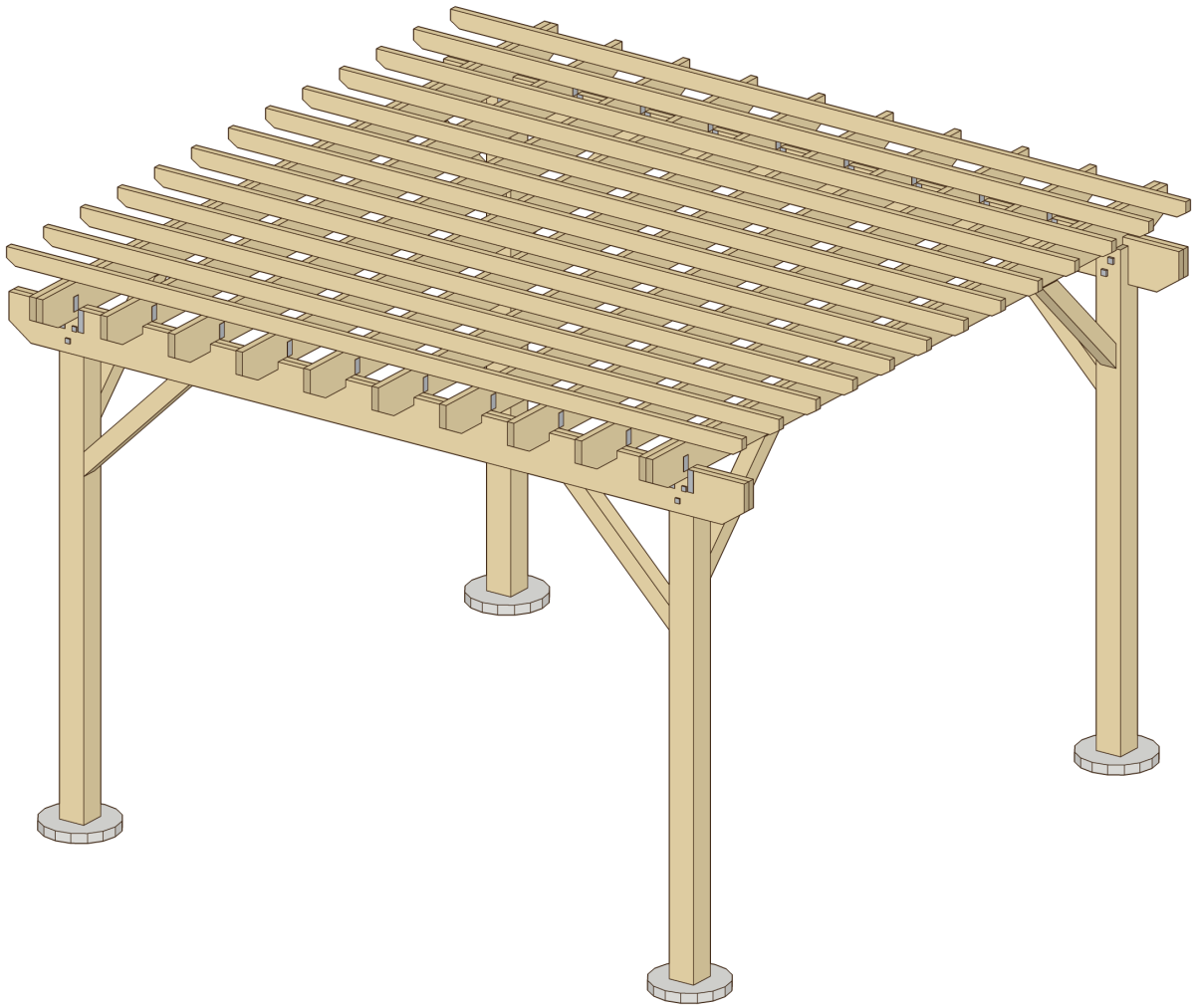


Get the full plan: material list, cut list and every measurement > www.3dshedplans.com/12x12-pergola-plan/

Ready to build?

The full 12x12 pergola plan gives you the shopping list, the cut list, every measurement and a dimensioned drawing for each building step. The top is an open top: about one fifth shade at noon; add shade cloth for more. Instant PDF download: www.3dshedplans.com/12x12-pergola-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
Foundation plan and footing drawing	No	Yes
Every joint up close	No	Yes
Full-size rafter end pattern	No	Yes
Who lifts what at every heavy step	No	Yes



Get the full plan: material list, cut list and every measurement > www.3dshedplans.com/12x12-pergola-plan/

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