# 8x10 Wall-Attached Pergola Guide

## Your complete cut list and hardware guide for a beautiful patio ceiling.

Build a sturdy, two-post pergola that seamlessly extends your living space. Pre-plan your cuts, hardware, and shade spacing before you drill a single hole.



### Key Project Measurements

**10 ft**
Ledger, beam, and base slat length

**8 ft**
Wall-to-post span for the rafters

**45°**
Angle for custom-length knee braces

**1 inch**
Standoff base elevation above patio

**Tested on site**
Spacing for full or dappled shade

*Pre-Paint Every Board*

*Apply thick coats of exterior paint matching your window trim to all sides before installation. This fully seals the end grain and saves you from tedious overhead brushwork.*

### Assembly Sequence

1. **Anchor the Ledger** Drive heavy exterior lag bolts through the ledger board into wall studs for rigid, reliable support.
2. **Set Posts & Beam** Plumb the vertical posts and secure the heavy cross beam so it sits perfectly level.
3. **Lift the Rafters** Bridge the gap with rafters, crowning the natural upward bow toward the sky to prevent sagging.
4. **Lock the Frame** Install diagonal knee braces and lock overhanging rafter tails to the beam with structural screws.
5. **Test the Shade** Dry-fit top slats with a small orange bar clamp during a hot afternoon to perfect shadows.

## Select Your Structural Lumber

Find your row: **Wood Type**

| Wood Type | Your pick | Why |
|---|---|---|
| **Western Red Cedar** | Overhead rafters and slats | Naturally high rot resistance, lightweight |
| **Pressure-Treated Pine** | Vertical structural posts | Chemically treated and heavy |
| **Douglas Fir** | Painted structural beams | Moderate resistance and medium weight |
| **Redwood** | Premium visible trim | Naturally high resistance, premium finish |

## Hardware Shopping List

- [ ] Standoff post bases to safely lift wood
- [ ] Heavy-duty exterior structural screws
- [ ] Exterior-grade lag bolts for wall studs
- [ ] Properly rated galvanized washers
- [ ] Exterior-grade clear sealant for hardware
- [ ] Small orange bar clamps for shade testing

## Site Checks & Layout

- ◯ Measure total width along the house wall to locate the center point.
- ◯ Mark front post locations at your planned distance out from the wall.
- ◯ Measure diagonally between post marks and wall to confirm a square footprint.
- ◯ Snap a chalk line to mark the precise metal base boundary.
- ◯ Check standoff packaging to find the right concrete anchor rating.

## Project Notes & Measurements

Enjoy your beautifully shaded, custom outdoor room for many seasons to come!