

Palladian Pediment

This pediment would make a beautiful top for your trellis. Take your time and follow the directions carefully — it's not as complicated as it might look.

Start by cutting the two arch segments (A) first. Use the arch segment diagram below to draw each one on a 24³/₄-inch-long section of a cedar 1x8. Lay them aside.

Cut the hub (B) next. It's half of a 4¹/₂-inch-diameter circle. To make it, use a pushpin and a piece of string. Tie the string to the pin and push it into the edge of a 1x8. Measure out from the pin one half of the diameter of the circle, in this case, 2¹/₄ inches. Mark the string at that point, and swing the arch, marking the board as you go. Use a saber or jig saw to cut the piece.

The keystone (C), or piece at the top of the arch comes next. It's 5 inches wide at the top and tapers to 3 inches at the bottom. Cut one base trim piece (E) 2¹/₄ inches wide and 36¹/₂ inches long.

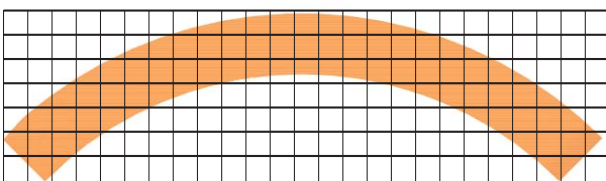
The final pieces to cut are the five spokes (D). Each one is 1¹/₂ inches wide and 15 inches long. Cut four of them from the 6-foot 1x2 and the

fifth one from what's left of the 8-foot 1x8 that you used earlier.

Start to assemble the pediment by butting the two arch segments together, face down, with the joint centered over the keystone. Use four 1¹/₂-inch-long screws to fasten it, driving them in from the back so they won't show from the front. Next, center the arch on the base trim centered over the keystone. Use four 1¹/₂-inch-long screws to fasten it, driving them in from the back so they won't show from the front. Next, center the arch on the base trim board, as you see in the illustration. Fasten the arch to the base trim piece with one 2¹/₂-inch screw driven up through the base trim into each end of the arch.

Then find the center of both the base trim board and the hub. Center the hub on the board and fasten it on with two 2¹/₂-inch screws driven up through the base trim. With the pediment face down on a flat surface, space the five spokes evenly around the arch as you see in the illustration. Fasten them onto the back of the arch and hub using 1¹/₂-inch screws, two in each spoke.

Use three 2¹/₂-inch screws to fasten the pediment to the top of the trellis. Insert the screw from the top, screwing through the base trim board into the trellis. □



Arch segment (A)
Scale: 1 square = 1 square inch

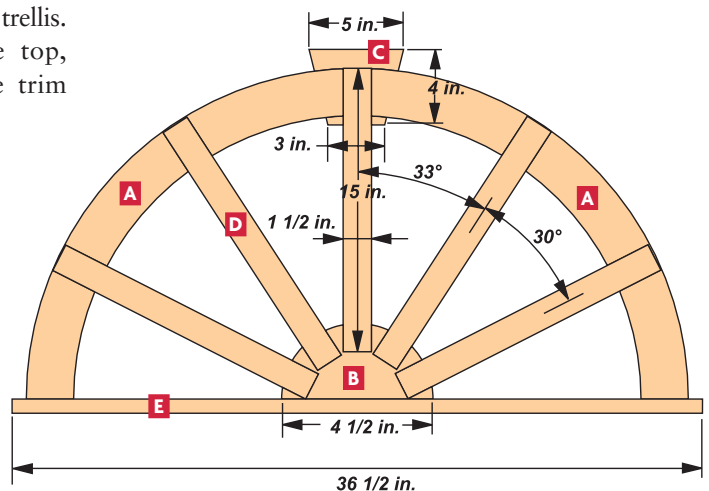


MATERIALS AND TOOLS

Materials:

- 1 8-ft. cedar 1x8 to make:
 - A 2 arch segments $\frac{3}{4} \times 7 \times 24\frac{3}{4}$
 - B 1 center hub $\frac{3}{4} \times 4\frac{1}{2} \times 2\frac{1}{4}$
 - C 1 keystone $\frac{3}{4} \times 4 \times 5$
 - E 1 base trim piece $\frac{3}{4} \times 2\frac{1}{4} \times 36\frac{1}{2}$
 - D 1 spoke $\frac{3}{4} \times 1\frac{1}{2} \times 15$
- 1 6-ft. cedar 1x2 to make:
 - D 4 spokes $\frac{3}{4} \times 1\frac{1}{2} \times 15$
- 7 2¹/₂-in. coated screws
- 14 1¹/₂-in. coated screws

Tools: Circular saw, saber or jig saw, drill and ³/₁₆-in. bit, screwdriver



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