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Vine Trellis

Modeled after the vine trellises in Europe, this “tuteur” not only looks great, but also provides a place for vines to grow and be protected. The unique shape will add interest to your garden, without taking up much space.



Materials

50 linear feet of 1 x 4 pine
23 linear feet of 1 x 1 pine
10" x 10" square of $\frac{3}{4}$ " exterior plywood
Fence-post finial

Hardware

50, 1-1/4" wood screws
30, 1-1/4" (3d) finish nails
50, 1-5/8" wood screws

Special Tools and Techniques

Miter

Cutting List

Code	Description	Qty.	Materials	Dimensions
A	Vertical	8	1 x 4 pine	51" long
B	Center Vertical	4	1 x 1 pine	51" long
C	Short Top Support	2	1 x 4 pine	7-3/4" long
D	Short Middle Support	2	1 x 4 pine	11-1/4" long
E	Short Bottom Support	2	1 x 4 pine	13-1/2" long
F	Long Top Support	2	1 x 4 pine	9-1/4" long
G	Long Middle Support	2	1 x 4 pine	12-3/4" long
H	Long Bottom Support	2	1 x 4 pine	15" long
I	Top	1	$\frac{3}{4}$ " plywood	10-1/2" square
J	Top Trim	4	1 x 1 pine	12" long

Cutting the Wide Pieces

1. Cut eight Verticals (A) from 1 x 4 pine, each measuring 51 inches.
2. Miter each end of each Vertical (A) at a 5-degree angle, as shown in *Figure 1*.
3. Cut four Center Verticals (B) from 1 x 1 pine, each measuring 51 inches.

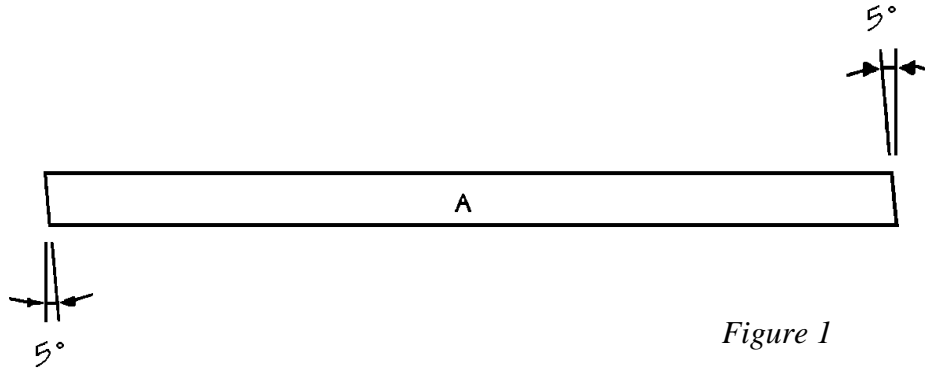


Figure 1

4. Cut two short top Supports (C) from 1 x 4 pine, each measuring 7-3/4 inches.
5. Miter each of the short top Supports (C) at opposite 5-degree angles, as shown in *Figure 2*.
6. Cut two Short Middle Supports (D) from 1 x 4 pine, each measuring 11-1/4 inches.
7. Miter the ends of each of the two Short Middle Supports (D) at opposing 5-degree angles, as shown in *Figure 2*.

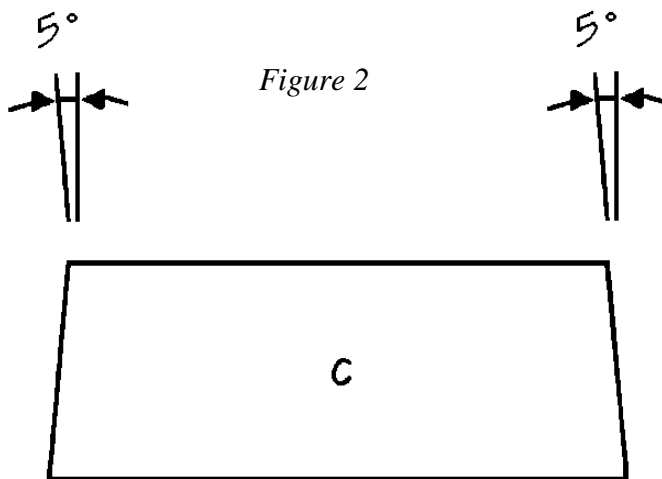


Figure 2

8. Cut two Short Bottom Supports (E) from 1 x 4 pine, each measuring 13-1/2 inches.
9. Miter the ends of each of the two Short Bottom Supports (E) at opposing 5-degree angles, as shown in *Figure 2*.

Assembling the Wide Sides

1. Position two Verticals (A) on a level work surface so that they form an upside-down V-shape that is open at the top (see *Figure 3*). The Verticals (A) should be 8-5/8" apart at the top, and 17-1/2" apart at the bottom.
2. The sides of the finished vine trellis should slope in at the top and out at the bottom. Each of the sides has three horizontal supports that determine the angle of the slope. Place all of the supports (C, D, and E) on the Verticals (A) to make certain that the side is properly

assembled before attaching any of the supports to the Verticals (A). Refer to *Figure 3* to check your measurements.

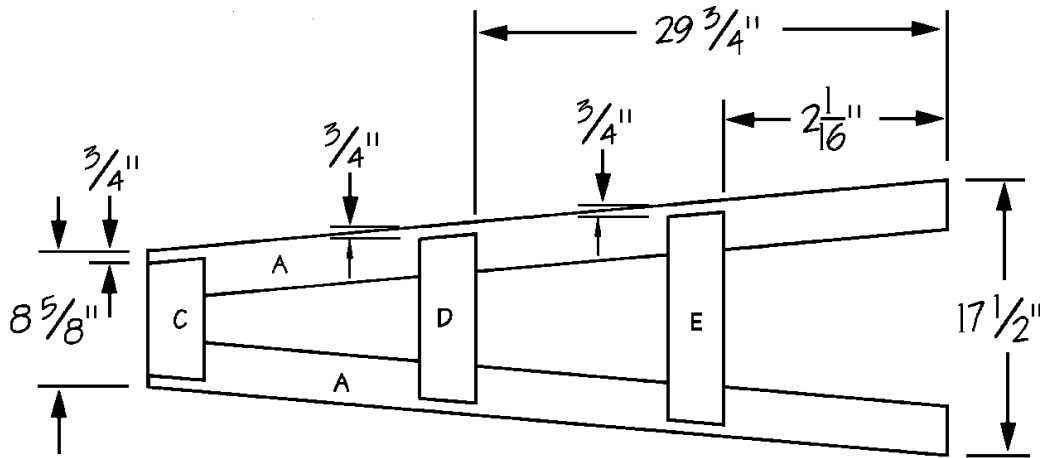


Figure 3

3. Position one Short Top support (C) on top of the two Verticals (A), flush with the top of the assembly. Position one Short Bottom Support (E) over the two Verticals (A), flush with the bottom of the assembly. Position one Short Middle Support (D) over the Verticals (A) in the middle of the assembly, as shown in *Figure 3*. Once all the supports are positioned correctly, apply glue to the meeting surfaces, and screw through the Short Top, Middle, and Bottom supports (C, D, and E) into the Verticals (A), using two 1-1/4" wood screws on each joint.
4. Turn the side assembly upside down, so that the Verticals (A) are on the top. Place one Center Vertical (B) between the two Verticals (A), on top of the short Top, Middle, and Bottom Supports (C, D, and E), as shown in *Figure 4*. Apply glue to the meeting surfaces, and nail through the Center Vertical (B) into the short Top, Middle, and Bottom Supports (C, D, and E), using a 1-1/4" finish nail on each joint.

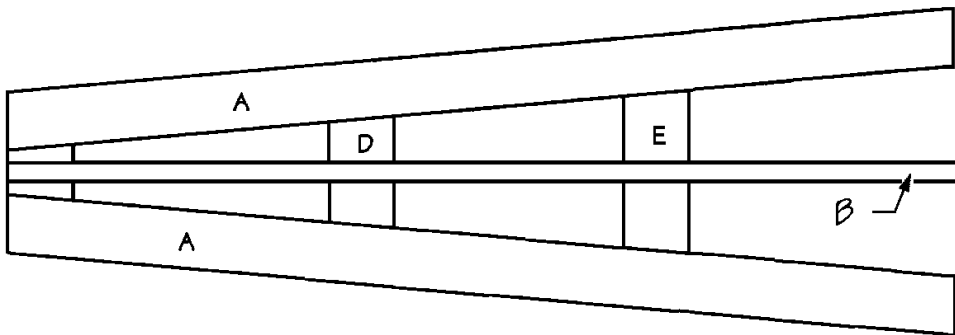


Figure 4

5. Repeat Steps 1 through 4 to form a second wide side. There should be four Verticals (A) and two Center Verticals (B) remaining. Set them aside for use in the next assemblies.

Cutting the Narrow Sides

1. Cut two Long Top Supports (F) from 1 x 4 pine, each measuring 9-1/4 inches.
2. Miter each of the Long Top Supports (F) at opposing 5-degree angles, as shown in *Figure 2*.
3. Cut two Long Middle Supports (G) from 1 x 4 pine, each measuring 11-1/4 inches.
4. Miter the ends of each of the two Long Middle Supports (G) at opposing 5-degree angles, as shown in *Figure 2*.
5. Cut two Long Bottom supports (H) from 1 x 4 pine, each measuring 15 inches.
6. Miter the ends of each of the two Long Bottom Supports (H) at opposing 5-degree angles, as shown in *Figure 2*.

Connecting the Frame

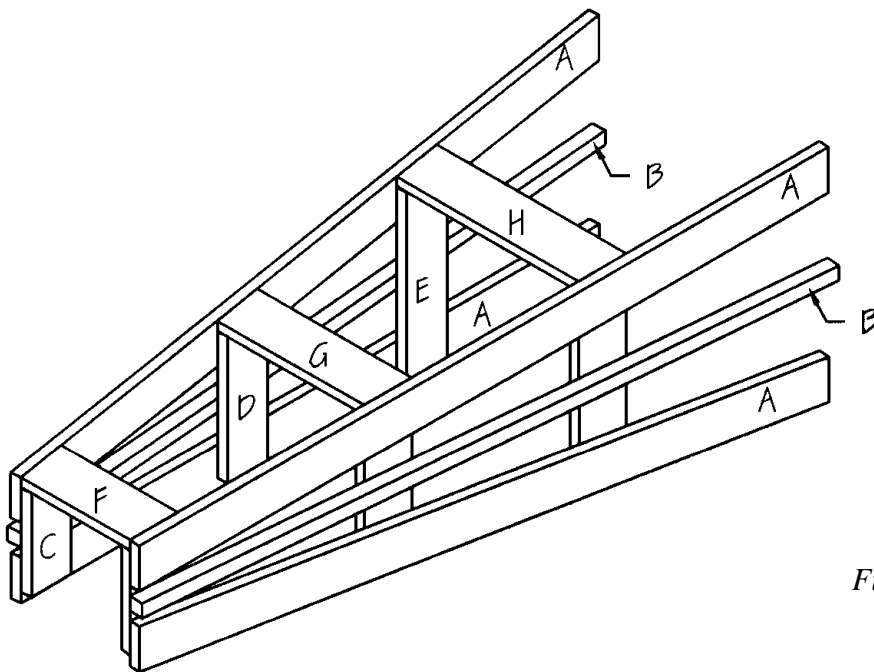


Figure 5

1. Position the two vertical assemblies (pieces A through E) opposite each other, as shown in *Figure 5*.

2. Place one Long Top Support (F) over the ends of the Short Top supports (C), as shown in *Figure 5*. Apply glue to the meeting surfaces, and screw through the Long Top Support (F) into the end of the short Top Supports (C), using 1-1/4" wood screws spaced about 6 inches apart.
3. Repeat Step 2 to attach the remaining Long Middle and Top Supports (G and H) as shown in *Figure 5*.
4. Turn the assembly over and repeat Steps 2 and 3 to attach the remaining Long Top, Middle, and Bottom Supports (F, G, and H).
5. Place one Vertical (A) against the edge of another Vertical (A) and Long Top, Middle, and Bottom Supports (F, G, and H), as shown in *Figure 6*. Apply glue to the meeting surfaces and screw through the Vertical (A) into the Long top, Middle, and Bottom Supports (F, G, and H) and into the Vertical (A), using two 1-1/4" wood screws in each joint spaced every 6 inches along the Vertical (A).

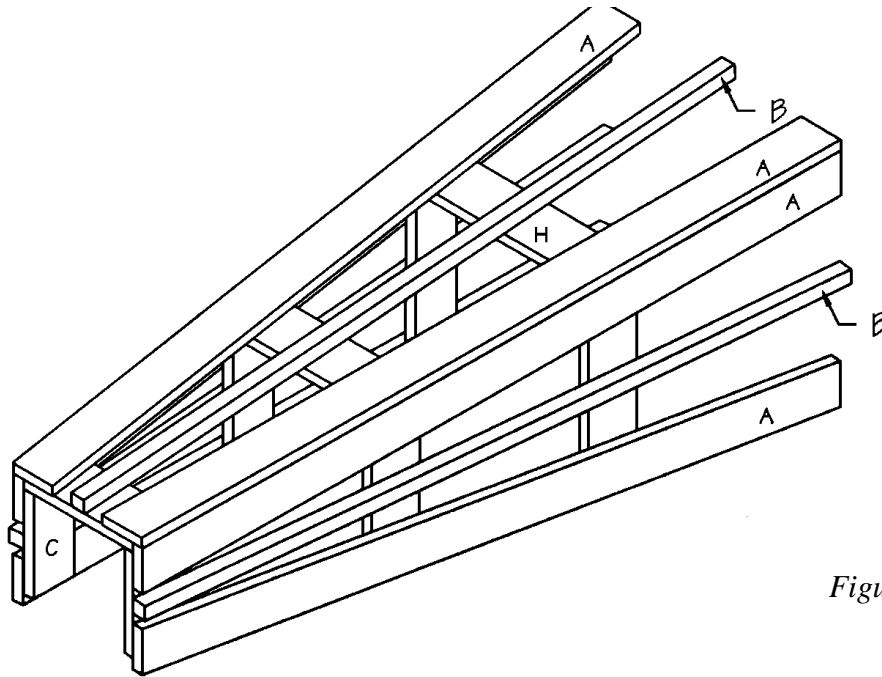


Figure 6

6. Repeat Step 5 to attach another Vertical (A).
7. Turn the assembly over and repeat Steps 5 and 6 to attach the remaining two Verticals (A).
8. Position one Center Vertical (B) between the two Verticals (A), over the Long Top, Middle, and Bottom Supports (F, G, and H), as shown in *Figure 6*. Apply glue to the meeting surfaces, and nail through the Center Vertical (B) into the Long Top, Middle, and Bottom Supports (F, G, and H), using a 1-1/4" finish nail on each joint.
9. Repeat Step 8 for the remaining Center Vertical (B).

Finishing

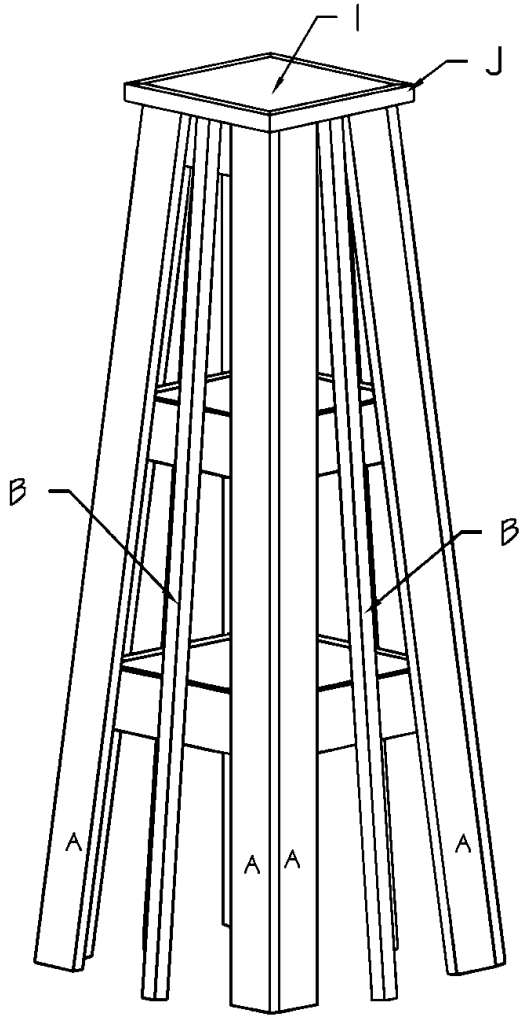
1. Cut one top (I) from $\frac{3}{4}$ -thick plywood, measuring 10-1/2 inches square.
2. Stand the vine trellis upright, and center the Top (I) over the ends of the Verticals (A). Apply glue to the meeting surfaces, and screw through the Top (I) into the Verticals (A), using two 1-5/8" wood screws on each side.
3. Locate and mark the center of the Top (I). Pre-drill a starter hole then screw the fence-post finial to the Top (I).
4. Cut four Top Trims (J) from 1 x 1 pine, each measuring 12 inches.
5. Miter the ends of each of the Top Trims (J) at opposing 45-degree angles.
6. Working around the Top (I) in rotation, glue and nail each of the Top Trims (J) over the edges of the Top (I), matching miters on all four corners. Use three 1-1/4" finish nails on each Top Trim (J). (See *Figure 7*.)
7. Stain or paint the finished vine trellis the color of your choice, or simply leave it natural.

*Fence Post
Finial*



*Close-up of
trellis bottom*

Figure 7



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