



OUR ROOTS RUN DEEP. SINCE 1918

How to Build a Simple Corner Trellis

This simple corner trellis does double duty as both a sturdy support for your plants and a beautiful edible landscaping element in your yard. Use it to grow cucumbers, melons, peas, beans, or virtually any other vining plant. Cut the lumber and lattice yourself, or have them pre-cut at your local home improvement store.

Estimated Time: 3 hours* (including site preparation)

** less if you have wood pre-cut*

Difficulty: Easy

Approximate Cost: \$135

List of Materials:

- 2 – 1' x 2' x 8' boards
- 5 – 2' x 2' x 8' boards
- 4 – 2' x 4' x 8' boards
- 1 – 4' x 4' x 8' boards
- 2 – ½" x 4' x 8' lattice panels
- 1 – deck post finial/cap
- 1 box ¾" lath screws
- 1 box 1¼" deck screws
- 1 box 2½" deck screws
- 1 box 3" deck screws
- 1 gallon water-based solid exterior stain

List of Tools:

- miter saw or circular saw*
- jigsaw
- drill/driver with #10 countersink bit
- clamps
- square
- measuring tape

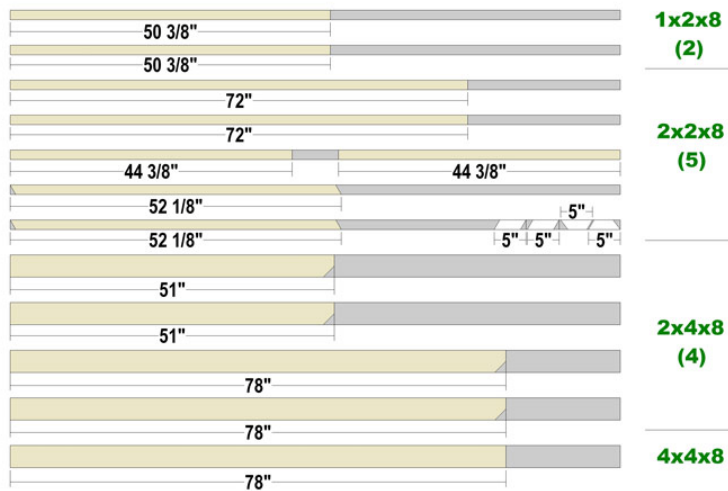
** or can have lumber pre-cut at home improvement store per dimensions in Parts List*

Parts List (see Cutting Diagrams below):

Part	Quantity	Size
Post cleats	2	1½ x 1½ x 72
Post	1	3½ x 3½ x 78
Long stiles (aka side rails)	2	1½ x 3½ x 78
Short stiles (aka side rails)	2	1½ x 3½ x 51
Upper rail cleats	2	1½ x 1½ x 5
Lower rail cleats	2	1½ x 1½ x 5
Bottom rail trim	2	¾ x 1½ x 50¾
Bottom rails	2	1½ x 1½ x 44¾
Top rails	2	1½ x 1½ x 52¼
Lattice panels	2	½ x 48 x 66**

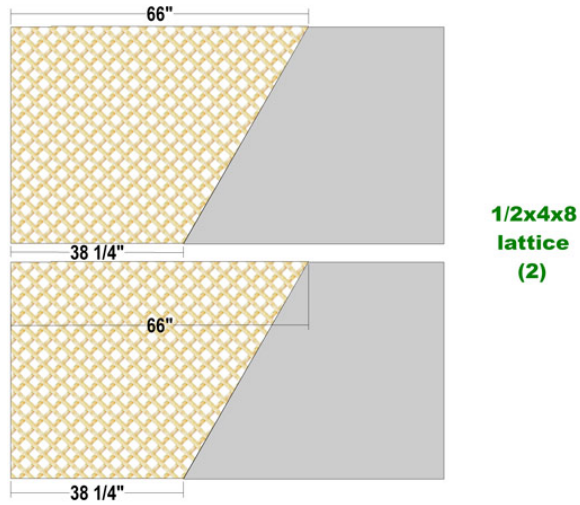
** to long point on one side (see Cutting Diagram for full dimensions)

INSTRUCTIONS:



Cutting Diagram 1

Use the **Parts List** and **Cutting Diagrams** as references for part dimensions. Cut the parts as needed for each step. Drill countersunk pilot holes for each screw except the ¾" lath screws; for those, drill non-countersunk pilot holes.



Cutting Diagram 2

Apply solid stain to parts and assemblies as you build, and touch up as needed after the final assembly.

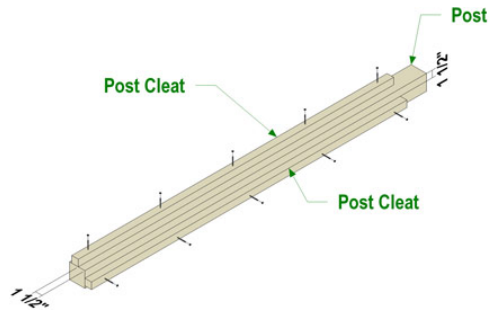


Figure 1

Position the **post cleats** as shown in **Figure 1** (flush with one end and 1½" from one corner) and attach to the **post** using 3" deck screws.

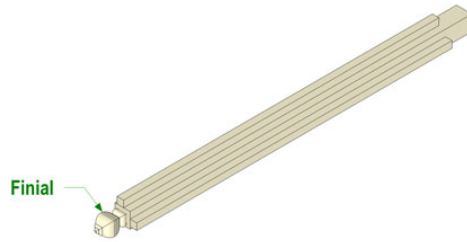


Figure 2

Drill a pilot hole in the end of the **post** where the **post cleats** are flush, and screw the finial in place as shown in **Figure 2**. Drill the pilot hole to match the diameter of the shank of the hanger bolt on the finial.

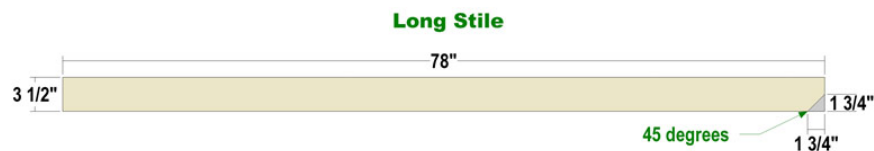


Figure 3

Use **Figure 3** as a guide for cutting the **long stiles** (aka side posts).

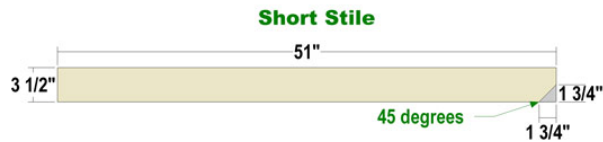


Figure 4

Use **Figure 4** as a guide for cutting the **short stiles** (aka side posts).



Figure 5

Use **Figure 5** as a guide for cutting the **upper** and **lower rail cleats**. Cut the rail cleats from a long section of lumber, cutting from the end and moving right to left.

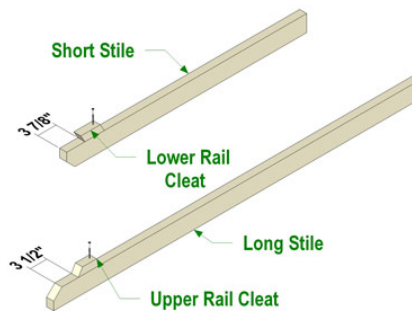


Figure 6

Position the **upper** and **lower rail cleats** as shown in **Figure 6** and attach to the **stiles** using 3-inch screws.

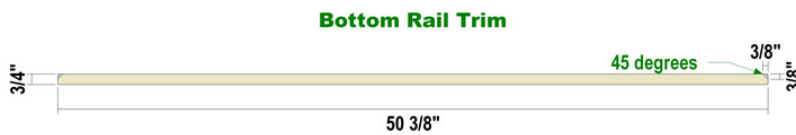


Figure 7

Use **Figure 7** as a guide for creating the **bottom rail trim**. The view in this figure is from an edge showing the 45-degree bevel cut on the ends.

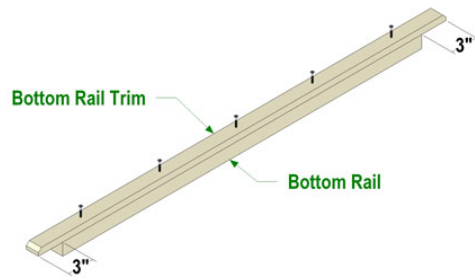


Figure 8

Position the **bottom rail trim** on the **bottom rail** as shown in **Figure 8** and attach using 1¼" screws.

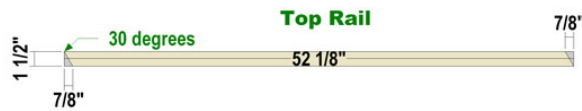


Figure 9

Position the **bottom rail trim/bottom rail assembly** on the **long stile** and **short stile** as shown in **Figure 9**, and attach the **bottom rail trim** to the **stiles** using 1¼" screws.

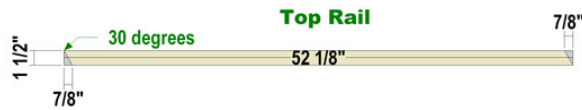


Figure 10

Use **Figure 10** as a guide for creating the **top rails**.

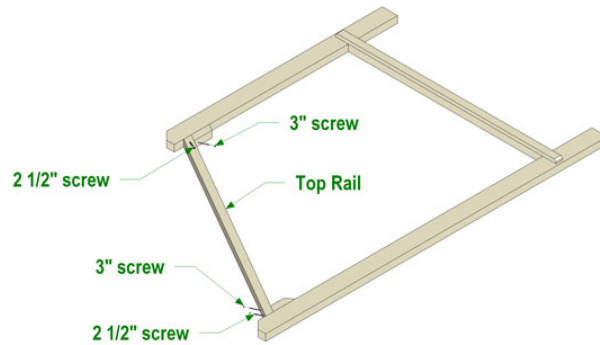


Figure 11

Position the **top rail** as shown in **Figure 11** (flush against the **upper rail cleat** and **lower rail cleat**) and attach to the **stiles** and **cleats** with the screws indicated at the specified positions.

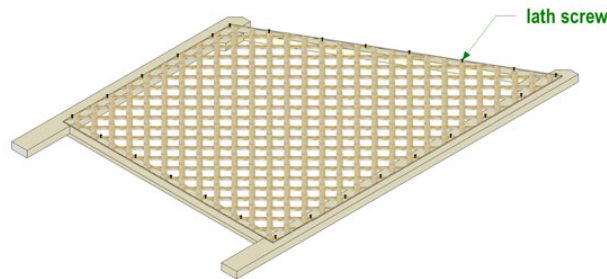


Figure 12

Use a jigsaw to cut the lattice to the size indicated in the **Parts List** and **Cutting Diagram**, then position in place to check for size, and trim if needed. (Make sure the **bottom rail** is facing up). Attach to the **stiles** and **rails** using $\frac{3}{4}$ " lath screws as shown in **Figure 12**. Repeat this process to create a **second side assembly** as a mirror image of the first assembly.

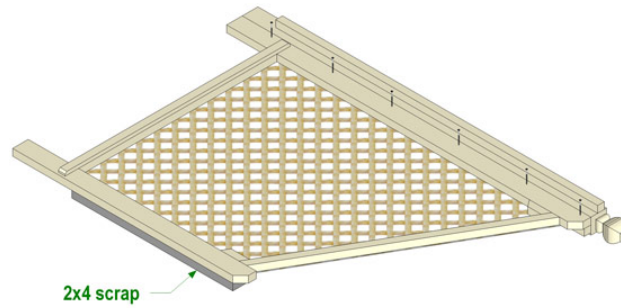


Figure 13

Position the first assembly on the **post cleat** as shown in **Figure 13** and attach the **long stile** to the **post cleat** using 2½" screws.

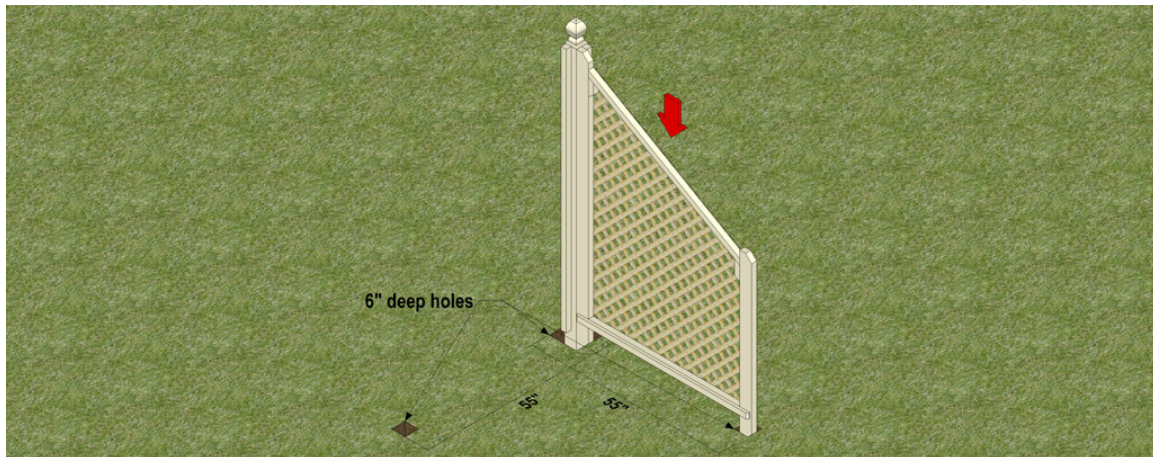


Figure 14

Use a post-hole digger to create 6" deep holes positioned as shown in **Figure 14**. Insert the assembly into the holes as shown and temporarily brace or have a helper hold it in place until the next step.

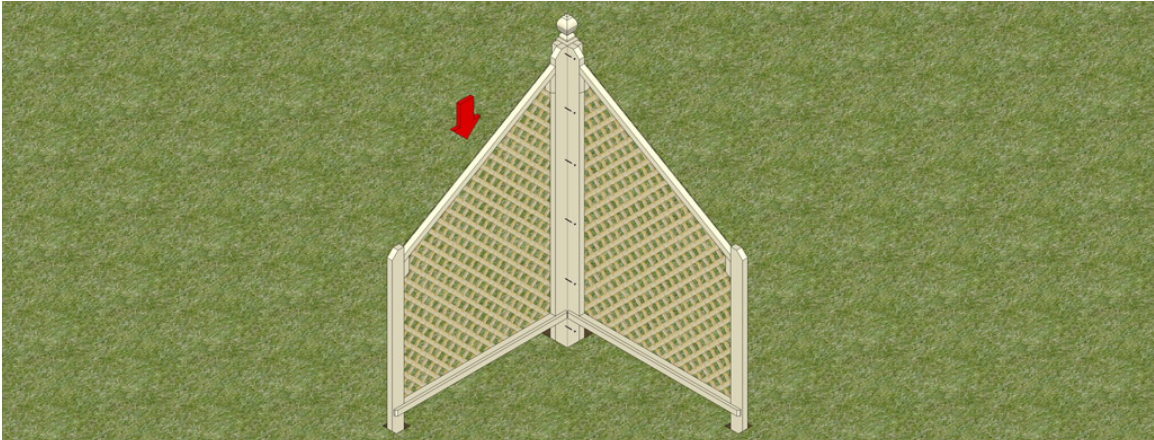


Figure 15

Position the second assembly as shown in **Figure 15** (set in place in the holes and flush with the top of the **post cleat**) and attach using 2½" screws. Touch up any marred or scratched areas with solid stain as needed.

Finished Dimensions:

Height: 78" (72" when installed in ground)

Width: 55"

Design by Chris Hill