

TRELLIS PLANTER BENCH

DIFFICULTY: **MEDIUM**

 6 VOLUNTEERS

 6 HOURS

MATERIALS

PREP

- (2) 2x6x10ft boards
- (5) 2x4x8ft boards
- (19) 4x4x8ft boards
- (2) 4x4x10ft boards
- (7) 2x2x8ft boards
- (1) 4x8' lattice

BUILD

- (2) 4x4x10ft boards
- (24) 4x4x31" pieces
- (28) 4x4x24" pieces
- (4) 4x4x8ft boards
- (14) 2x4x31" pieces
- (2) 2x6x10ft pieces
- (21) 2x2x32" pieces
- (2) 24"x66" lattice pieces
- 1lb 2 .5" deck screws
- 10lb 60d 6" galvanized nails
- (8) .5"6" galvanized lag screws
- (8) .5"6" galvanized carriage bolts
- (16) .5" galvanized nuts
- 7cf fill material
- 6cf potting soil
- Plants

Tools listed on page 2

PREP LIST

1. Sort all materials into piles by like items to ensure you have materials needed to complete project.
2. Take [8] of the 4x4x8ft boards. Cut each into [3] 31" pieces, for a total of [24] 4x4x31"pieces.
3. Take [7] of the remaining 4x4x8ft boards. Cut each into [4] 24" pieces, for a total of [28] 4x4x24" pieces.
4. Take the [5] 2x4x8ft boards. Cut each into [3] 31" pieces, for a total of [15] 2x4x31"pieces.
5. Take the [7] 2x2x8ft pieces. Cut each into [3] 32" pieces, for a total of [21] 2x2x32" pieces.
6. Take the 4x8ft lattice. Using the chalk line to mark and the circular saw to cut, cut [2] 24"x66" pieces of lattice.
7. Do NOT cut the following pieces: (4) 4x4x8ft boards ; (2) 2x6x10ft boards ; (2) 4x4x10ft boards.

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TOOLS

PREP

Miter saw
Circular saw
Chalk line
Tape measure
Pencil
Carpenter's square
Safety glasses

BUILD

Tape measure
Hammer or mini-sledge
Long .5" drill bit
.25" drill bit
Screwdriver bit
Drill
.75" socket with ratchet or .75" open-ended wrench
Safety goggles

BUILD LIST

1. Sort all materials into piles by like items to ensure you have materials needed to complete project. 
2. Build planter squares. Create 12 squares using (2) 4x4x24" and (2) 4x4x31". Attach these 4x4s using 6" nails and hammer. Pre-drill the holes with the .25" drill bit to avoid bending the nails. 
3. Build the planter bases. Using 6 of the squares, build 2 planter bases, each 3 levels (or squares) high. Attach one level at a time, rotating each level 90° so the 31" pieces always sit on top of 24" pieces. Use 6" nails to make two connections per level, one in the middle of each 31in piece. 
4. Connect the Planter boxes. Connect the two planter bases with the 4x4x10ft beams, sandwiching 24" pieces between them. 
5. Build three more levels on top of the 4x4x10ft beams to complete the planters (each planter should be a total of 7 courses high). Use the same rotation method from Step 3, using 6" nails for the connections. 
6. Using the 2.5" screws, attach the 2x4x31" pieces to 10ft beams, leave even-spaced gaps (about .25") between pieces, end pieces and planters. 
7. Attach 2 verticals per planter for a total of 4 per bench. Secure each beam with (2) 6" lag screws, driven through at a right (90 degree) angle to one another (tip measure where the lag screws will go, mark it on the 4x4, and remove the 4x4s to pre-drill the holes). 

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BUILD LIST

8. Next, attach the 2x6x10ft headers to the 4x4x-8ft vertical posts. One at a time, you'll need to level the headers at the top. Note the verticals may not be at exactly the same height, get the headers leveled as close to the tops as possible. Once level, attach the headers with (2) 6" carriage bolts, nuts, and washers on each side.



9. Attach the twenty-one (21) 2x2x32" louvers to the top of the headers using the 2.5" deck screws. They should be evenly spaced with one spanning flush with the end of each rafter and approximately 4.5" apart.



10. Lastly, attach the lattice sections to the vertical beams. Each pair of vertical beams will get (1) 66inx24" section of lattice. Use 2.5" screws or nails, spread about 12in apart, to attach the lattice.

