

8'X8' STAGE

DIFFICULTY: **COMPLEX**

 8 VOLUNTEERS

 8 HOURS

MATERIALS

PREP

(17) 2x6x8ft boards

(8) 2x8x8ft boards

(1) 4x4x8ft board

BUILD

(17) 2x6x8ft boards

(5) 2x8x91" pieces

(2) 2x8x94" pieces

(2) 2x8x22.5" pieces

(2) 2x8x20.75" pieces

(4) 4x4x12" or (4) 4x4x24" pieces - longer 4x4s if stage legs will be set into 12" of concrete

5lb of 3" deck screws

(16) .5"x6" galvanized carriage bolts

(16) .5" galvanized nuts

(16) .5" galvanized washers

(4) 12" patio stones or (4) 80lb bags of concrete - stones to place stage legs on surface, or concrete to set stage legs in.

(6) 2x8 joist hangers

1lb of 1" Simpson nails

Tools listed on page 2

PREP LIST

1. Sort all the materials into piles by like items to ensure you have materials needed to complete project.
2. Floor pieces: Set aside the [17] 2x6x8ft boards. These will not be cut.
3. Long edges: Take [2] of the 2x8x8ft boards. Measure and cut [1] 94" piece from each board.
4. Short edges and supports: Take [5] of the 2x8x8ft boards. Measure and cut [1] 91" piece from each board.
5. Spacing blocks: Take final 2x8x8ft board. Measure and cut [2] 203/4" pieces and [2] 221/2" pieces from the board.
6. Legs: Take the 4x4x8ft board. If the stage will be free-standing, cut into [4] 12" blocks. Remember, spare lumber can be used on another project! If the stage will be set in concrete, cut the board into [4] 24" blocks.
7. Final Prep Inventory: (17) 2x6x8ft ; (2) 2x8x94" ; (5) 2x8x91" ; (2) 2x8x20.75" ; (2) 2x8x22.5" ; (4) 4x4x12" or (4) 4x4x24" (longer legs for burying 12" into concrete).

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TOOLS

PREP

Tape measure

Pencils

Miter saw

Safety glasses

BUILD

Tape measure

Sandpaper

Pencils

Safety glasses

Drill

Long .5" drill bit

Screwdriver bit to match
deck screws

Hammer

.75" socket with ratchet

BUILD LIST

1. Sort all the materials into piles by like items to ensure you have materials needed to complete project.
2. Start with one of the 2x8x91" pieces and 2 of the 4x4x12" or 24" pieces. Use 2 screws at each end to attach 2x8 to 4x4s, both sides flush with top.
3. Use the 2x8x94" pieces to connect the two assembled sides. The longer 2x8s should run past the 4x4s and finish flush with outside of previously attached 2x8x91" pieces. Use three screws to attach one 2x8 to the other, & attach to the 4x4 as well.
4. Install .5" carriage bolts, washers and nuts on inside of stage. Use 2 bolts for each 2x8 to 4x4 connection (4 bolts through each 4x4). Stagger bolts so you don't drill through one.
5. Add the rest of the 2x8x91" pieces by fitting them between the 94" boards, tops flush on both sides. Space the 2x8x91" boards 24" center-to-center except at the ends: first and last 2x8x91" should be 24" to outside of existing 2x8x91". Use joist hanger at each connection.
6. Install blocks between each 2x8x91" boards, all tops flush. Use 22.5" blocks in the middle and the 20.75" blocks at the ends to maintain 24" joist spacing. Use 3 screws for each connection. Run them in the middle of the 91" span, offset them to screw in easier.
7. Set the first 2x6x8ft parallel to the 2x8x94" and overhanging it by 1.75" in both directions. Secure the 2x6 by using 2 screws down into every 2x8x91" joist (the first and last 2x6 will be nailed down into the 2x8x94in). Place the next 2x6 next to the first, making sure to leave a .25" gap. Continue across the stage - the last board should overhang the last 2x8 by the same 1.75".
8. If you are concreting the stage into the ground, dig a 12"-deep hole for each leg of the stage. Mix enough concrete for the legs. Concrete the stage into the ground, making sure that you are using a level.