


10'X10' STAGE

DIFFICULTY: **COMPLEX**

 8 VOLUNTEERS

 8 HOURS

MATERIALS

PREP

(21) 2x6x10ft boards

(9) 2x10x10ft boards

(1) 4x4x8ft board

BUILD

(2) 2x6x10ft boards

(2) 2x10x118" pieces

(6) 2x10x115" pieces

(3) 2x10x22.5" pieces

(2) 2x10x20.75" pieces

(4) 4x4x12" pieces or (4) 4x4x24" pieces

5lb 3" deck screws

16.5"x6" galvanized carriage bolts

16.5" galvanized nuts

(8) 2"x10" joist hangers

1lb 1" Simpson nails

TOOLS

PREP

Miter saw

Pencil

Tape measure

Carpenter's square

Safety glasses

BUILD

Tape measure

Hammer

.5" long drill bit

Drill

Screwdriver bit

.75" socket with ratchet

Carpenter's square

Safety glasses


PREP LIST

1. Sort all the materials into piles by like items to ensure you have materials needed to complete project.
2. Do NOT cut the (12) 2x6x10ft boards. Set aside until you are ready to build.
3. Take (2) of the 2x10x10ft boards. Cut each down to 118", for a total of (2) 2x10x118" pieces.
4. Take (6) of the remaining 2x10x10ft boards. Cut each down to 115", for a total of (6) 2x20x115" pieces.
5. Take the remaining 2x10x10ft board. Cut down to (2) 2x10x20.75" pieces and (3) 2x10x22.5" pieces.
6. Take the 4x4x8ft board. If the stage will be free-standing, cut down to (4) 4x4x12" pieces. Leftover lumber can be used for another project. If the stage will be concreted into the ground, cut the 4x4x8 down to (4) 4x4x24" pieces.

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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 2x10x115" piece and two 4x4 pieces. Use 2 screws at each end to attach the 2x10 to the 4x4s, ensuring it is flush with the top of the 4x4s. Do the same with another 2x10x115" piece to the other two 4x4s.
3. Next, use (2) of the 2x10x118" pieces to connect the two assembled sides. These longer 2x10s should run past the 4x4s and finish flush with the outside of the previously attached 2x10x115" pieces. Use three screws to attach one 2x10 to the other & attach to the 4x4 as well.
4. Now, install the .5" carriage bolts, have the washers and nuts on the inside of the stage. Use 2 bolts for each 2x10 to 4x4 connection (4 bolts through each 4x4). Stagger the bolts so you don't drill through one (use the .5" drill bit to pilot these holes).
5. Add the rest of the 2x10x115" pieces by fitting them in between the 118" boards, set the tops flush on both sides. Space the 2x10x115" boards 24" center-to-center except at the ends: the first and last 2x10x115" should be 24" to the outside of the existing 2x10x115". Use a joist hanger and 1" Simpson nails at each connection.
6. Install the 2x10 blocks between each of the 2x10x115" boards, keep all the tops flush. Use the 20.75" blocks at the ends and the 22.5" blocks in the middle to maintain 24" joist spacing. Use 3 screws for each connection. Run them in the middle of the 115" span, but offset them to make it easier to screw in.

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(2) 2x6x10ft boards

(2) 2x10x118" pieces

(6) 2x10x115" pieces

(3) 2x10x22.5" pieces

(2) 2x10x20.75" pieces

(4) 4x4x12" pieces or (4)
4x4x24" pieces

5lb 3" deck screws

16.5"x6" galvanized carriage
bolts

16.5" galvanized nuts

(8) 2"x10" joist hangers

1lb 1" Simpson nails

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BUILD LIST

7. Attach the deck boards. Attach the first 2x6x-10ft to the 2x10x118" edge and overhang it by 1.75" in both directions. Secure the 2x6 by using 2 screws down into every 2x10s115" joist (the first and last 2x6 will be nailed down into the 2x10x118"). 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 2x10 by the same 1.75".
8. If you will be setting the stage in concrete, dig (4) holes that are 6" diameter and 12" deep. Use a level to ensure the stage stays level as you pour concrete into the holes around the legs.

