



# Black Walnut Entryway Bench

Build Plan – V1 – 06/2022

<https://HuntsWorkshop.com>



## Introduction

This Plan will produce a simple and elegant 48"x15"x17" Entryway Bench. House guests always appreciate a place to sit down and take their shoes off or put them back on.

## Videos

Build Video is available on YouTube. <https://YouTube.com/c/HuntsWorkshop>

## Tools

- Table Saw (Substitutes: Track Saw, Miter Saw, Circular Saw, Jigsaw)
- Drill/Driver
- Drill/Counter Sink Bit
- Sander
- Clamps
- Optional: Festool Domino (Substitute dowel jig or mortise and tenon joinery)
- Optional: Taper Jig
- Optional: Jointer (Substitute: Buy perfectly flat and square lumber)
- Optional: Planer (Substitute: Buy perfectly flat and square lumber)



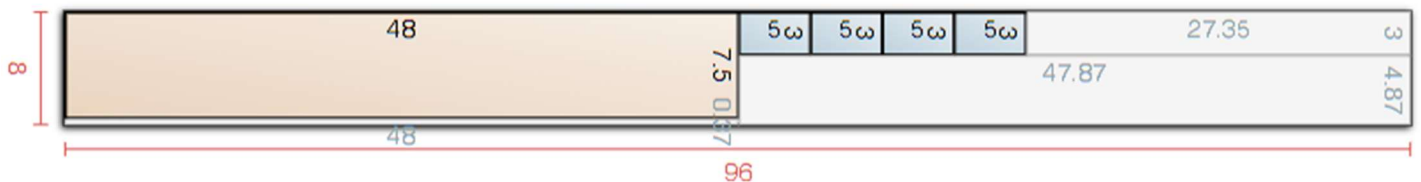
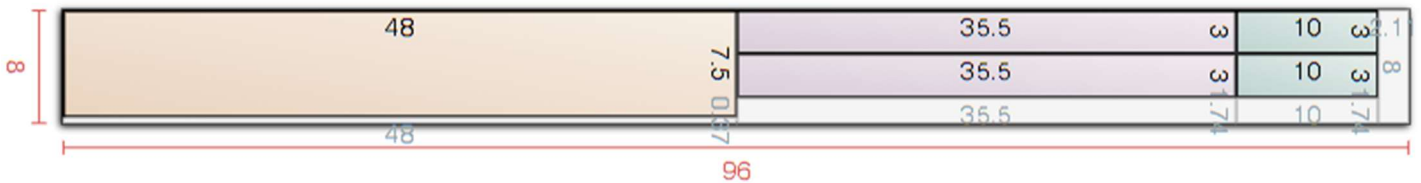
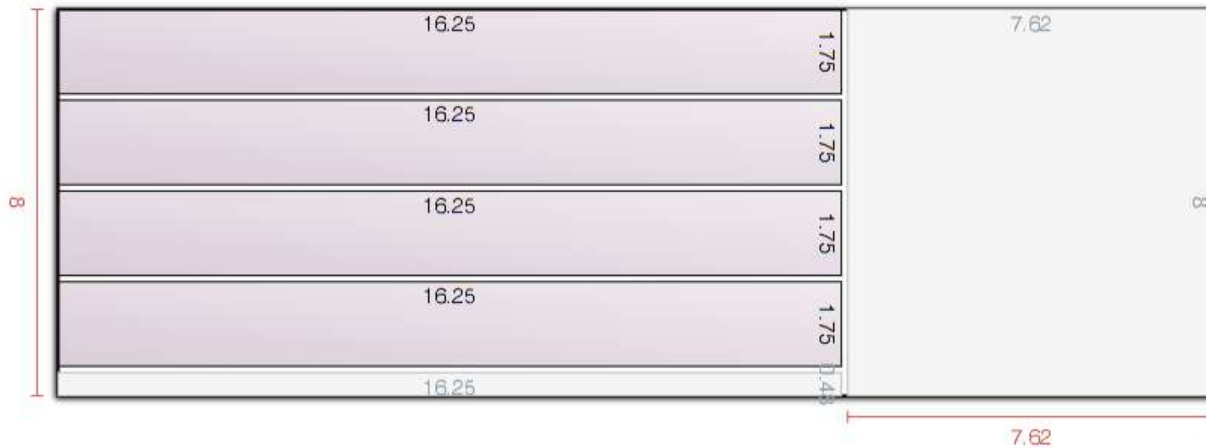
## Materials

- 8/4 x 8" x 24" | Qty: 1
- 4/4 x 8" x 96" | Qty: 4
- 1" Flat head hardwood screws | Qty: 15
- 8mm Dominos (or Dowels) | Qty 24
- Glue
- Sandpaper (80, 120, 180 grit)
- Danish Oil

## Cut List

Part Name	Stock	Quantity	Width in	Length in	Height in
Leg	4/4	4	1.75	16.25	1.75

Part Name	Stock	Quantity	Width in	Length in	Height in
Front/Back Rail	4/4	2	3	35.5	0.75
Side Rail	4/4	2	3	10	0.75
Top	4/4	2	7.5	48	0.75
Gussets	4/4	4	3	5	0.75



## Instructions

1. Cut all 14 pieces defined in the Cut List.
2. Cut 45-degree bevel on both ends of the 4 corner gussets



3. Cut 7 Mortises into each half of the table top.
4. Put glue into all 14 mortises
5. Glue both edges
6. Install 7 Dominos



7. Fit pieces together



8. Clamp for 24 hours
9. Mark all 4 sides of each leg 1" from one end.
10. Mark all 4 sides of each leg 2" from one end.
11. Mark all 4 sides of each leg 3" from one end.
12. Mark centerline on 2 sides of each leg, 3" from the same end.  
**NOTE: May be easier to mark 10mm off center if using the domino (to account for the base to bit offset).**
13. Cut 2 Mortises into each leg
14. Turn each leg 90 Degrees

15. Cut 2 Mortises into this side of each leg (4 mortises total per leg, 2 each on face of an adjoining corner).



16. Optional: Taper Legs

- a. Setup leg on taper jig to remove 0.25" from bottom to removing 0" at the 3" from top mark.
- b. Pass jig through saw.
- c. Rotate leg 90 degrees.
- d. Pass jig through saw.
- e. Complete steps a-d for all 4 legs.
- f. Repeat steps a, moving the bottom end of taper jig fence 0.25" closer to the blade.
- g. Repeat steps b-e.



17. Cut 2 Dominos into each end of the side rails (25 mm from each edge)



18. Cut 2 Dominos into each end of the front/back rails (25 mm from each edge)



19. Sand all pieces to desired grit.

20. Attach 2 legs to each side rail with Dominos and Glue.



21. Attach assembled ends to each side of the front and back rails with Dominos and Glue.



22. Clamp for 24 hours

**Note: Measure corner to corner to ensure it is clamped square.**

23. Remove clamps

24. Remove any dried glue squeeze out at joints.

25. Finish Sand near joints if glue is present.

26. Cut 2x 5mm mortises into the inside of the side rails, about 1" left and right of center, about 23mm from the top (for Z-Clips).



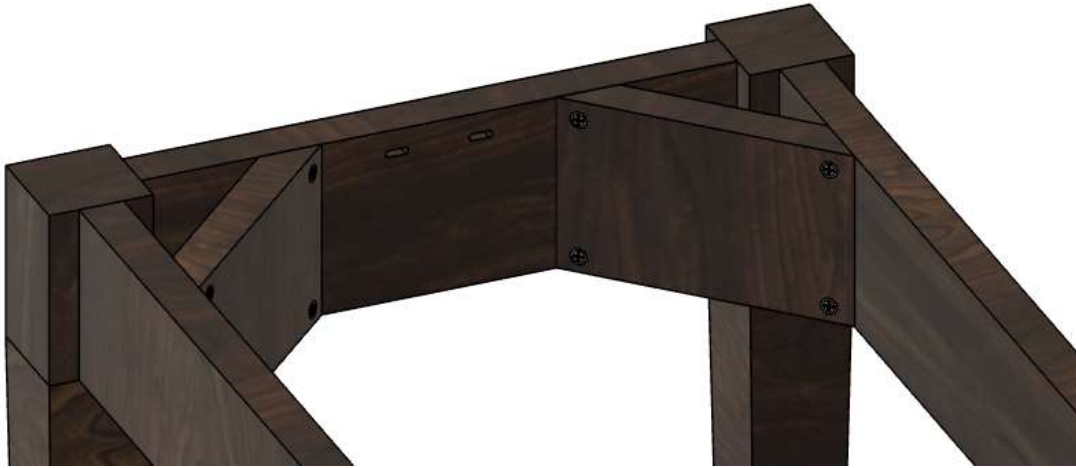
27. Clamp Corner Gusset into place.

28. Drill and Countersink 4 holes near corners.

29. Install #6 Hardwood Screws.



30. Repeat Steps 26-28 on all 3 remaining corners.



31. Place benchtop face down
32. Place Frame Assembly on benchtop upside down
33. Center Frame Assembly on Bench Top
34. Secure top to frame using 4x Z-Clips into the 5mm mortises.



35. Flip full assembly right side up
36. Clean with compressed air
37. Saturate with Danish Oil and spread evenly.
38. Wait 15 minutes.
39. Apply a second lighter coat of Danish oil.
40. If adding sealer wait 72 hours. (I don't recommend this, bc it makes oil touchups more difficult).
41. Wipe down every 24 hours with a clean cloth until no more oil residue is on the rag.

