

Physical Ability Test

Staircase plans for Stations:

2 - Stair Climb

7 - Step Test

8 - Simulated Stair Chair Carry

The PAT requires a five step staircase and platform for use in implementing the Physical Ability Test. If your location does not have one, you may construct one using these plans.

TOOLS NEEDED

Circular saw or table saw, crosscut saw, phillips head electric screwdriver, measuring tape, 4' straight edge or level, sandpaper or sander, Drill and 1/8" bit, and a marking pencil

MATERIALS NEEDED - STAIRCASE

3 - 5 step precut staircase stringers (available at retailers such as Lowes: Item# 4654 and Home Depot: Item# 100616) **A**

5 - 2x12x48" Stair Treads **B**

2 - 2x4x33 $\frac{1}{4}$ " Staircase Uprights (notched as illustrated) **C**

1 - 2x4x28 $\frac{1}{4}$ " Center Upright (angled as illustrated) **D**

1 - 2x4x29" Center Support **E**

1 - 2x4x40" Lower Width support **F**

1 - 2x6x40" Upper Width support **G**

1 - 1x6x43" Front Riser **H**

1 - 43x33x $\frac{3}{4}$ " Back Plate **I**

1 - 2x4x34" Hook Bracket **J**

1 - 2x6x34" Hook **K**

3 - 2x4x50" Depth Beams **L**

MATERIALS NEEDED - PLATFORM

1 - 2x6x39" Front Width Beam **M**

4 - 2x4x39" Width Supports **N**

4 - 2x4x42 $\frac{3}{4}$ " Depth Supports **O**

4 - 2x4x33 $\frac{1}{4}$ " Platform Uprights **P**

2 - 42 $\frac{3}{4}$ x33 $\frac{1}{4}$ x $\frac{1}{2}$ " Plywood Sides **Q**

1 - 43x33 $\frac{1}{4}$ x $\frac{1}{2}$ " Plywood Back **R**

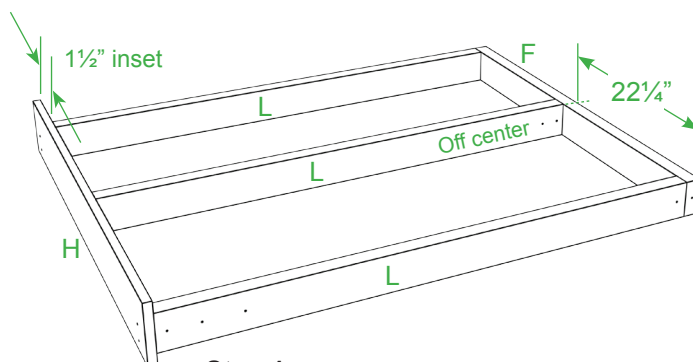
1 - 48x48x $\frac{3}{4}$ " Plywood Top **S**

SCREWS

120 - 2 $\frac{1}{2}$ " Deck Screws

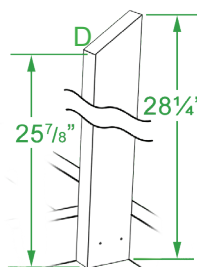
86 - 1 $\frac{1}{2}$ " Drywall Screws

PLEASE NOTE: It's very important that you read all instructions before beginning construction.



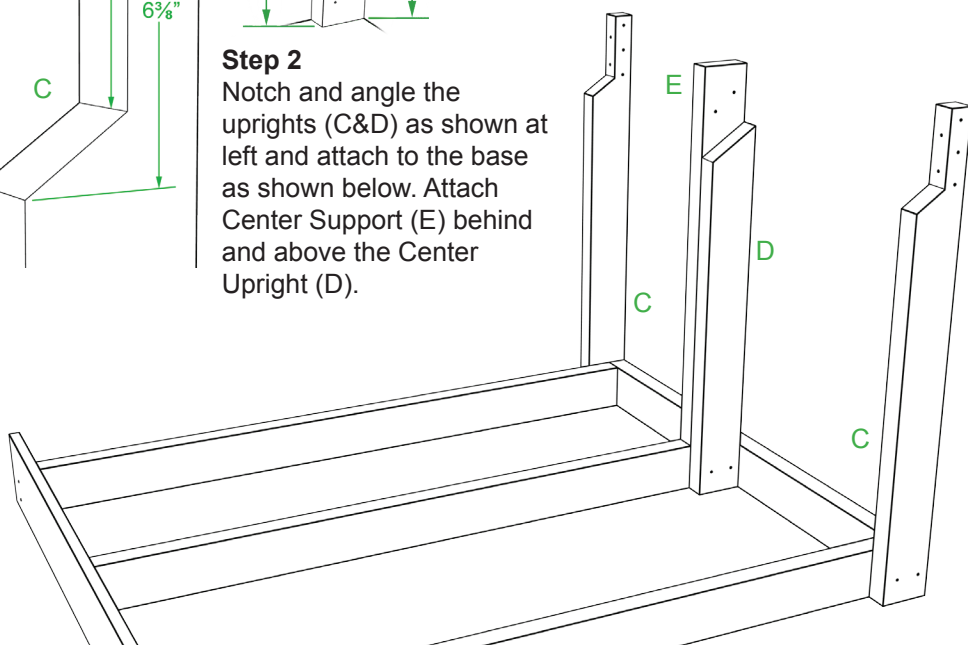
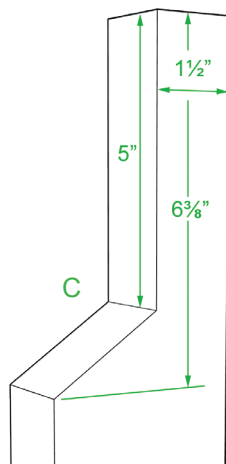
Step 1

Using deck screws, assemble the base of the staircase by attaching the lower width support (F) to the two outside depth supports (L). Secure the off-center depth support 22 $\frac{1}{4}$ " from the left edge. Using drywall screws, attach the front riser (H) but inset each end by 1 $\frac{1}{2}$ " as shown above.

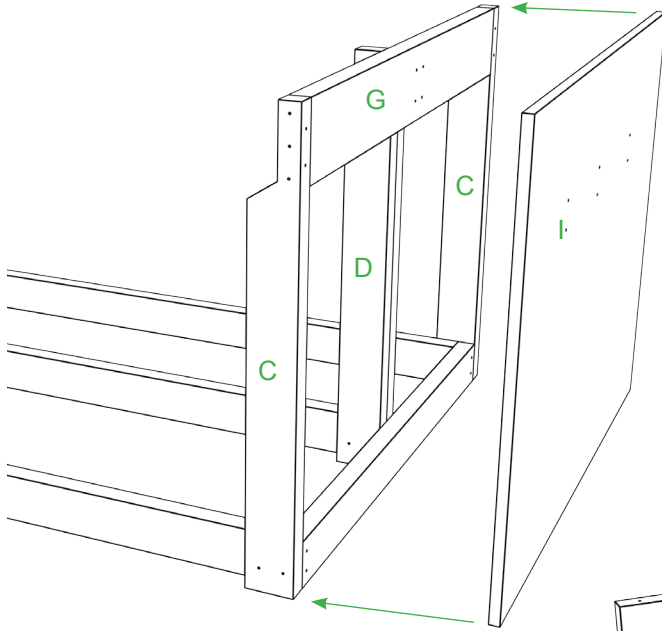


Step 2

Notch and angle the uprights (C&D) as shown at left and attach to the base as shown below. Attach Center Support (E) behind and above the Center Upright (D).



NOTE: When securing pieces together pre-drill the holes and make sure your screws are positioned so that they don't intersect previous screw placement. Each drawing has screw hole markings you can use as a reference.



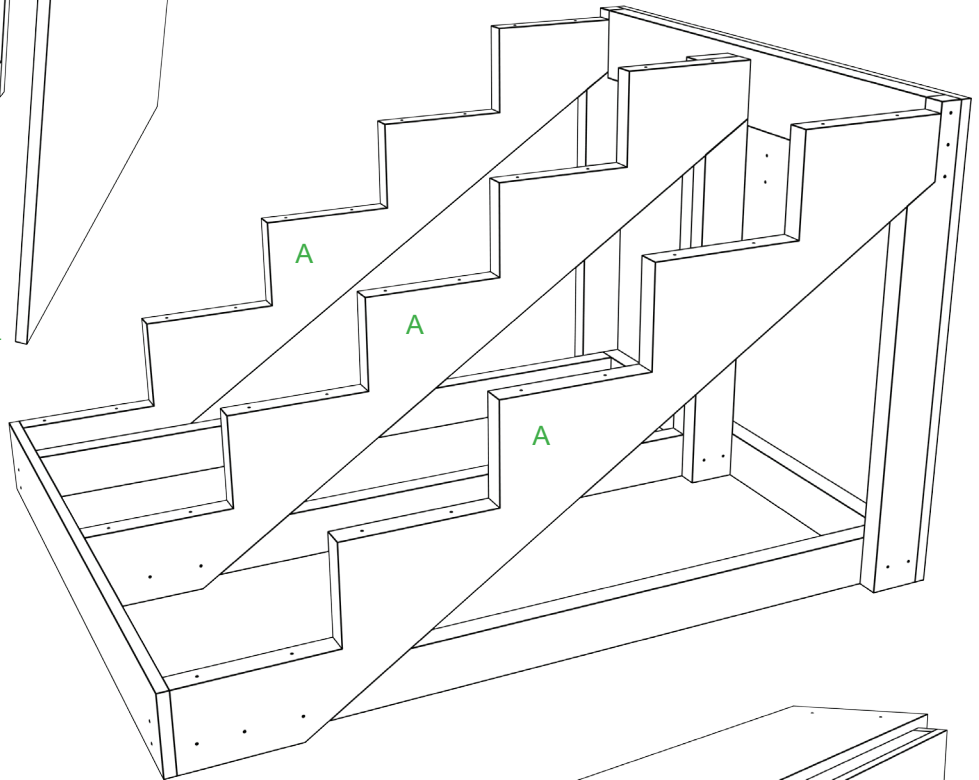
Step 3

Using deck screws, attach the upper width support (G) to the uprights (C&D), then using drywall screws, attach the back plate (F) to the uprights as shown. Position screws at approx. 6" intervals all the way around the back plate.

Step 4

Using deck screws, attach the stringers (A) to the base and upright assembly. The top of the stringers should be $\frac{3}{4}$ " lower than the upright/backplate assembly. This is so that when the treads are attached and the platform is mated to the staircase the top level is flush with the platform.

NOTE: If you purchase stringers from other sources, they may vary in size slightly. You may need to adjust the length of the depth supports and the height of the uprights accordingly.



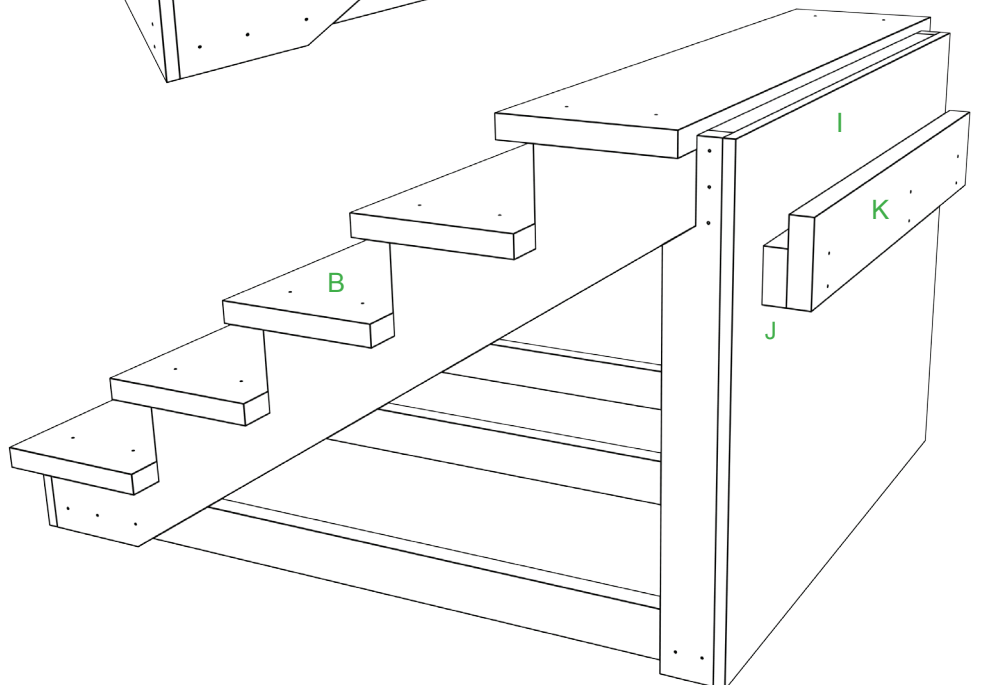
Step 5

Using deck screws, attach the stair treads (B) to the stringers (A).

Step 6

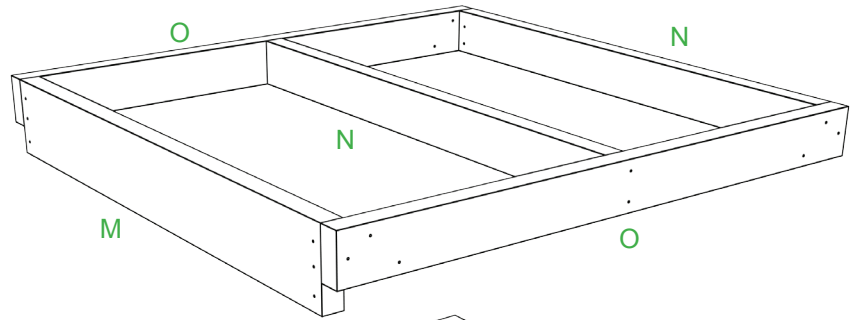
From under the stairs use 6 drywall screws, to attach the hook bracket (J) to the backplate (I), then use deck screws to attach the hook (K) to the bracket as shown.

NOTE: If your hook is too tight when you try to attach the platform to the staircase, you can place a piece of chipboard or poster board between the hook and the bracket as a spacer.



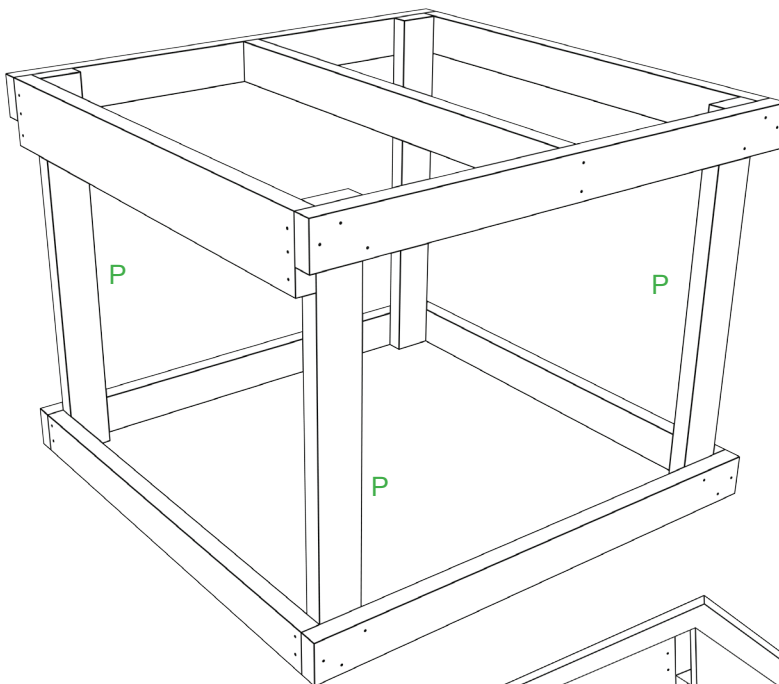
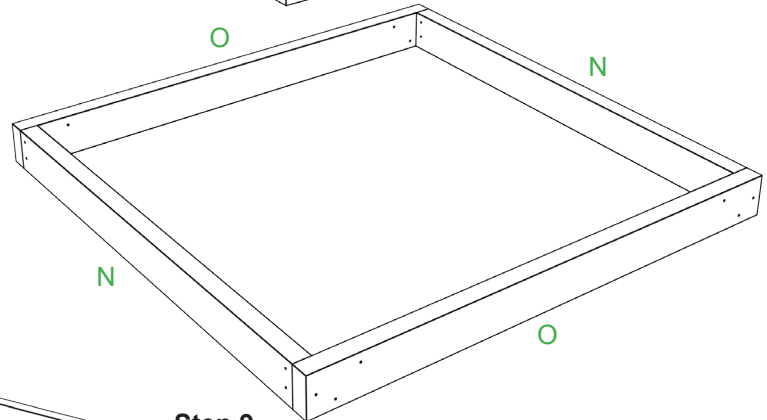
Step 7

Using deck screws, assemble the platform top by attaching 2 depth supports (O) to 2 width supports (N) and the front beam (M) as shown to the right. Notice you'll only use one screw for the outer width support and the front beam (the uprights will provide the final securement).



Step 8

Using deck screws, assemble the platform base by attaching 2 depth supports (O) to 2 width supports (N) as shown to the right. Again, notice you'll only use one screw for the width supports (the uprights will provide the final securement).



Step 9

Using deck screws, attach the four uprights (P) to the base and then attach the top support flush with the uprights.

NOTE: Once again, if stringers have a different height, the uprights, and the back and side heights will have to be adjusted accordingly.

Step 10

Using drywall screws, attach the plywood sides (Q) to the platform and position screws every 6" along the top and bottom.

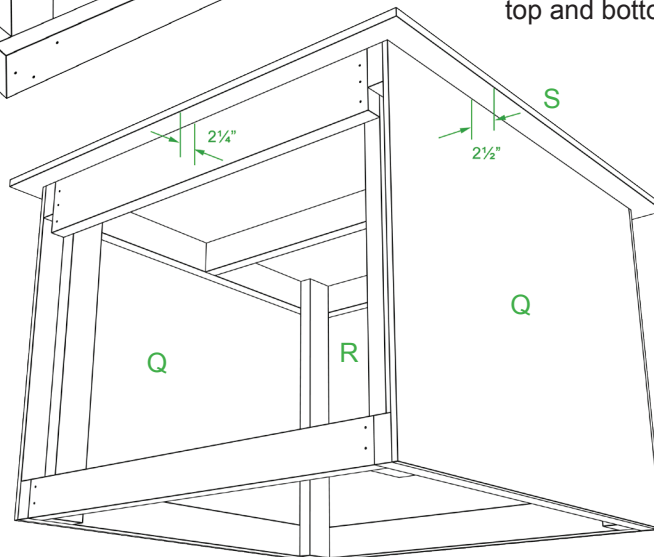
Step 11

Using drywall screws, attach the plywood back (R) to the platform and position screws every 6" along the top and bottom.

Step 12

Finally, using drywall screws, attach the plywood top (S) to the platform base, positioning screws every 6" all around.

NOTE: To insure a proper fit, it's a good idea to connect the staircase to the platform before affixing the top piece.



You can also order the completed staircase and platform by contacting:

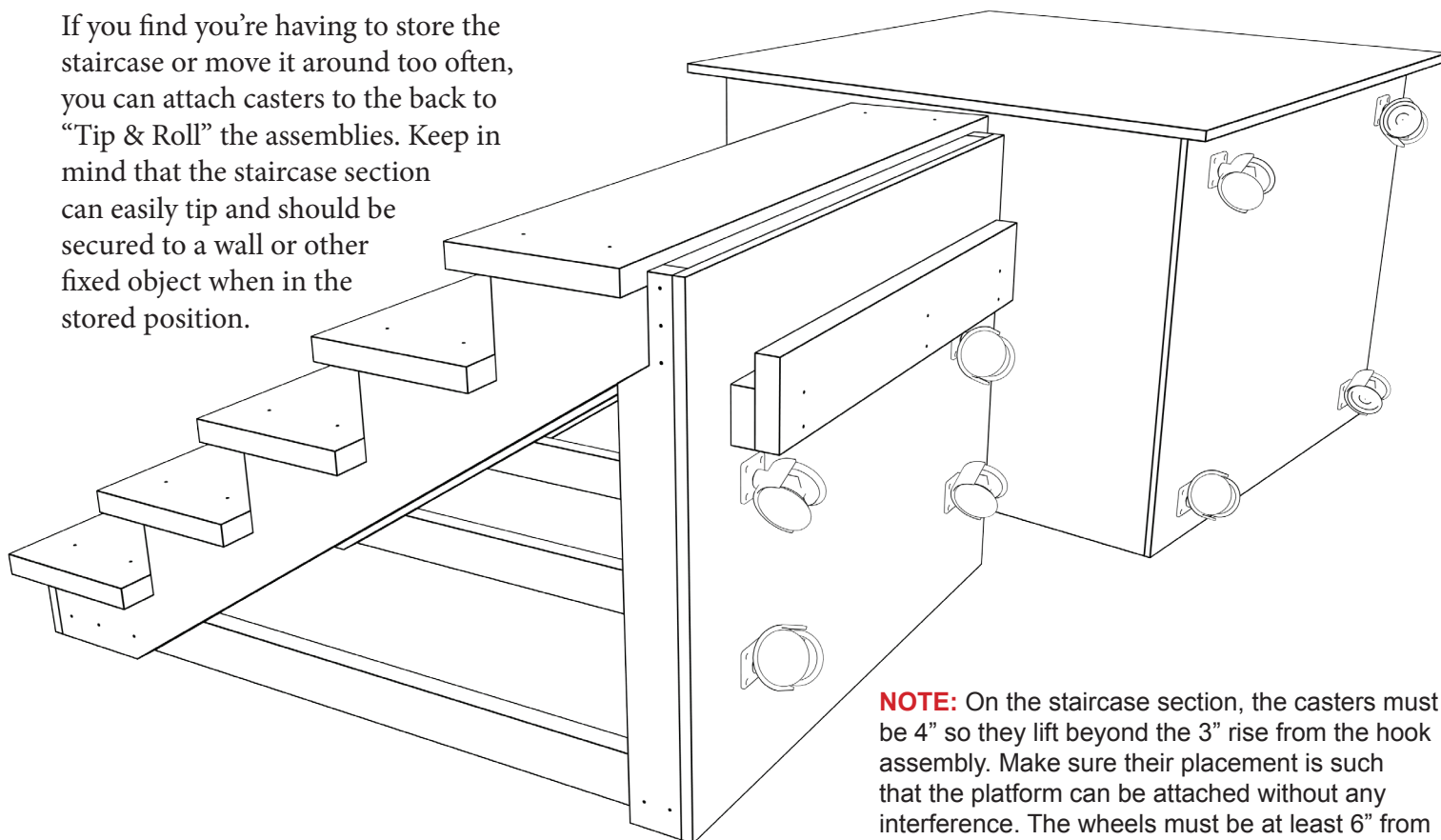
Frank Papp
Papp Builders
330-819-2225

Cost of Custom Built Staircase \$750.00
(Materials & Labor)

Additional Cost for Shipping & Handling
Please Allow 2 to 3 Weeks for Construction
and Delivery

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If you find you're having to store the staircase or move it around too often, you can attach casters to the back to "Tip & Roll" the assemblies. Keep in mind that the staircase section can easily tip and should be secured to a wall or other fixed object when in the stored position.



NOTE: On the staircase section, the casters must be 4" so they lift beyond the 3" rise from the hook assembly. Make sure their placement is such that the platform can be attached without any interference. The wheels must be at least 6" from the bottom and inset 4" from the sides.

