RPO Driveway Dock Launch Ramp

DISCLAIMER

The purchasers and users understand and accept full responsibility for materials and construction of this product. Purchasers and users understand that skateboarding, BMX biking, rollerblading, rollerskating and similar activities may be hazardous and assumes full responsibility for use of this product. Purchasers and users agree and waive Ramp Plans Online and ccDesign from and against any claim or expense related to this product including personal injuries, medical expenses, attorney's fees, or any other related fees. Ramp Plans Online and ccDesign are also not responsible for injuries or harm incurred due to improper construction, improper use of tools and materials during assembly, alteration of the assembly materials or instructions.

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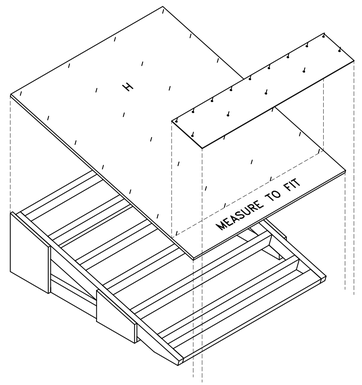
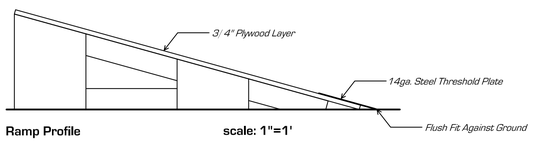
Step 7

scale: 3/4"=1'

Attach the plywood and the metal threshold plate to the ramp frame.
First, using 1-1/4" wood screws, attach the 3/4" plytood surface (H) to the ramp frame as shown in the diagram. Use about four screws per stud, you may have to draw a line to find your center along the stud. Next, place the steel threshold plate near the bottom of the ramp to find the proper fit. The metal plate should meet the ground smoothly as shown in the diagram at the bottom of this step. Finally, attach the steel plate using 1-1/4" wood screws through the pre-drilled holes.





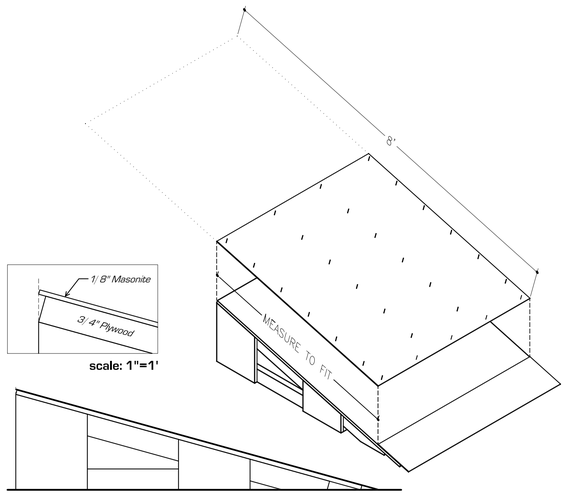
Ramp Profile **scale: 1"=1'**

Step 8

scale: 3/4"=1'

Attach the riding surface to the ramp frame. (final surface is optional; it's structurally sound as is) Measure and cut to fit your riding surface of choice. Lay your material on top of the ramp, flush with the metal plate, and mark a line where the rough cut will be. The material list calls for an 8' long piece of Masonite, the diagram will give you an idea about where the cut will be.

Choose your final riding surface(s) wisely! It will affect the ridability of your ramp over time! Please visit the RPO website for further information about riding surfaces.



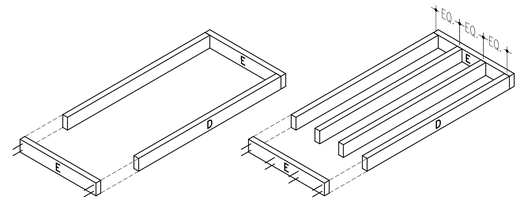
scale: 1"=1'

Ramp Profile **scale: 1"=1'**

Step 9

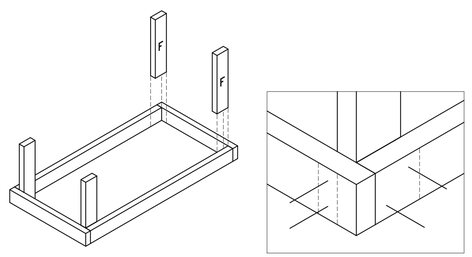
scale: 3/4"=1'

Next Begin assembly of the box portion.
Using basic butt joints and 3" wood screws, make the Bottom and Top frames below. Use pieces (E) as your guide. For the Top Frame, evenly space out the two interior cross braces (D).



Bottom Frame **Top Frame**

Secure the four riser pieces (F) to the Bottom Frame using four 3" wood screws. See the enlarged drawing for an example of where to place the screws.

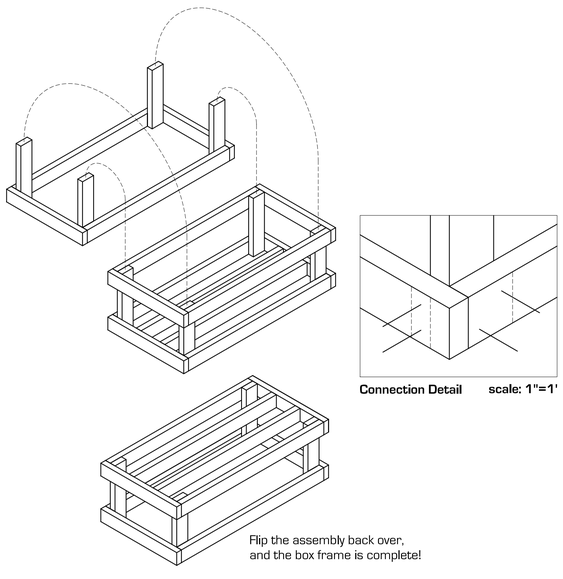


Connection Detail **scale: 1"=1'**

Step 10

scale: 3/4"=1'

Once the riser pieces are attached to the Bottom Frame, flip it over and insert it into the Top Frame. Make sure all four legs are touching the ground and that the Top Frame assemble is flush with the ground! Attach the riser pieces to the Top Fame using the same method as used in step 9.



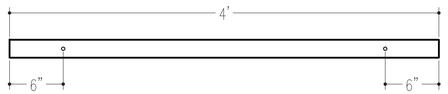
Connection Detail **scale: 1"=1'**

Flip the assembly back over,
and the box frame is complete!

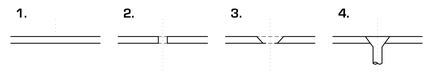
Step 11

scale: 1-1/2"=1'

Pre-drill the Angle Iron.
This is a very easy process! You will need your 3/16" drill bit and your #10 countersinking bit. Using the same methods as pre-drilling the metal plate, drill two holes in the Angle Iron; each hole spaced about 6" inside of each end. Line up each hole in the middle of the flange.



Follow these steps to Pre-Drill the holes in the Angle Iron:
1. Use a drill tap to make a small indentation where the hole will be drilled.
2. Use a 3/16" drill bit to drill a hole all the way through the steel.
3. Use a 1/8" to 3/8" (#10) countersink bit to bore out space for the screw head.
4. The screw head should fit flush (or slightly below) the surface of the metal plate.



scale: 1' = 1'

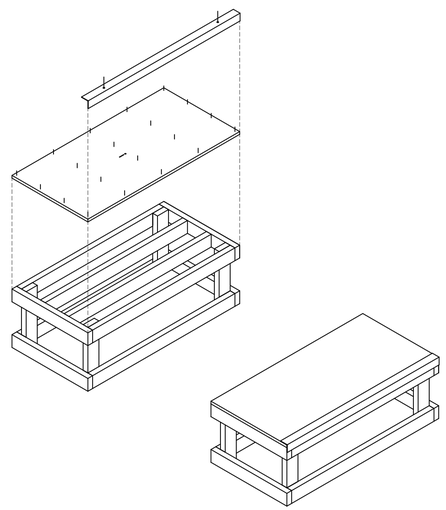
Do not drill all the way through the angle iron with the countersink bit!

Watch a video of this step online: http://www.rampplansonline.com

Step 12

scale: 3/4"=1'

Attach the Angle Iron and 3/4" Plywood to the Box Fame.
First, attach the 3/4" Plywood Surface (i) to the box frame using four or five 1-1/4" wood screws per stud. Then attach the Angle Iron using two 3" wood screws through the pre-drilled holes.

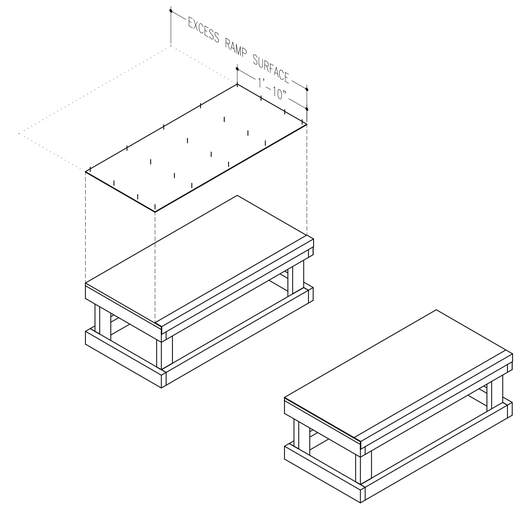


The Box is ready to skate now. If you choose to add the Masonite, or other kind of riding surface, move forward to the next step.

Step 13

scale: 3/4"=1'

Attach the riding surface to the Box Fame.
Use the excess material left over from surfacing the ramp. The length needed is approximately 1'-10". To be safe, lay the material uncut across the box and draw a line for perfect fit! Attach the surface using four or five 1-1/4" wood screws per stud.



Step 14

scale: 3/4"=1'

Finished!! Ride it.
Slide the Ramp and Box together for a launch dock feel, or use each obstacle separately! Check out the website construction tutorial for information on adding wheels for mobility.