Hinged Hoop house

01.

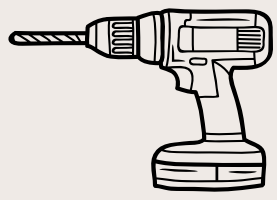
MAKING THE FRAME

Measure the length of your raised bed and cut two pieces of timber to the same length.
We used 3" x 2" Rough Sawn Treated Timber
Our raised beds were 6ft (1800mm)

02.

CUT THE ENDS

Make the ends slightly longer than necessary so the frame sticks over 1" along the front edge. This will give you a handle to lift the hoop house.
We cut our ends at 34.5" (875mm) for our raised beds



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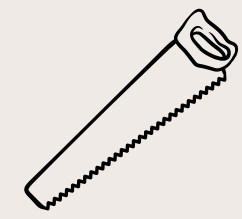
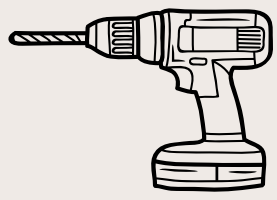


03. PILOT THE CORNERS

Use a 3/16" (5mm) pilot bit and drill through the first timber only.

04. SCREW THE CORNERS

Use 4" (100mm) wood screws to fix the 3"x2" sides to the 3"x2" ends.



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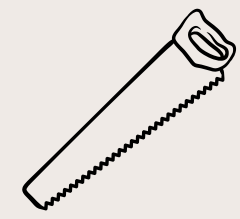

05. SCREW THE CORNERS

Put two screws in each corner. This rectangular frame will form the base of your hoop house.

06. CUT THE UPRIGHTS

Cut two upright timbers to half the width of the planter, not the hoop house frame!

We cut our uprights to 18" (450mm)

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07. CENTER THE UPRIGHTS

Fix your uprights to the centre of the hoop house frame, flush with the outer edge. You are in the centre if the distance to the frame edge is the same on both sides of the post.

08. SCREW THE UPRIGHTS

Pocket screw the uprights into position using the same 4" (100mm) wood screws.

09.

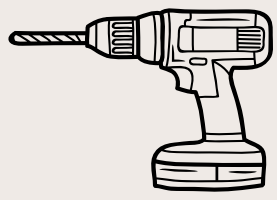
FIT THE CROSS-BAR

Cut the cross-bar to the same length as the frame. Fix the cross-bar with two 4" (100mm) screws. Don't forget to drill your pilot holes!

10.

MARK THE ALKATHINE PIPE

Hold the alkathine pipe at one end of the hoop house and bend it roughly into the correct position. Mark the pipe 1" longer with a marker pen as you can always trim this down later!



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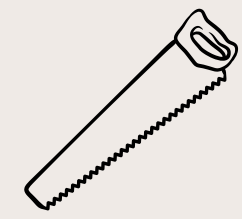

11. CUT THE PIPE

You can cut the pipe using a handsaw, angle grinder, hacksaw, garden shears, or circular saw. **We used 25mm alkathine pipe**.

12. DRILL THE CORNER HOLES

Mark the centre of the 4 corners
We measured 1.5" (37mm) in from both edges to give us our centre point.
We used a 25mm spade bit to drill our holes.

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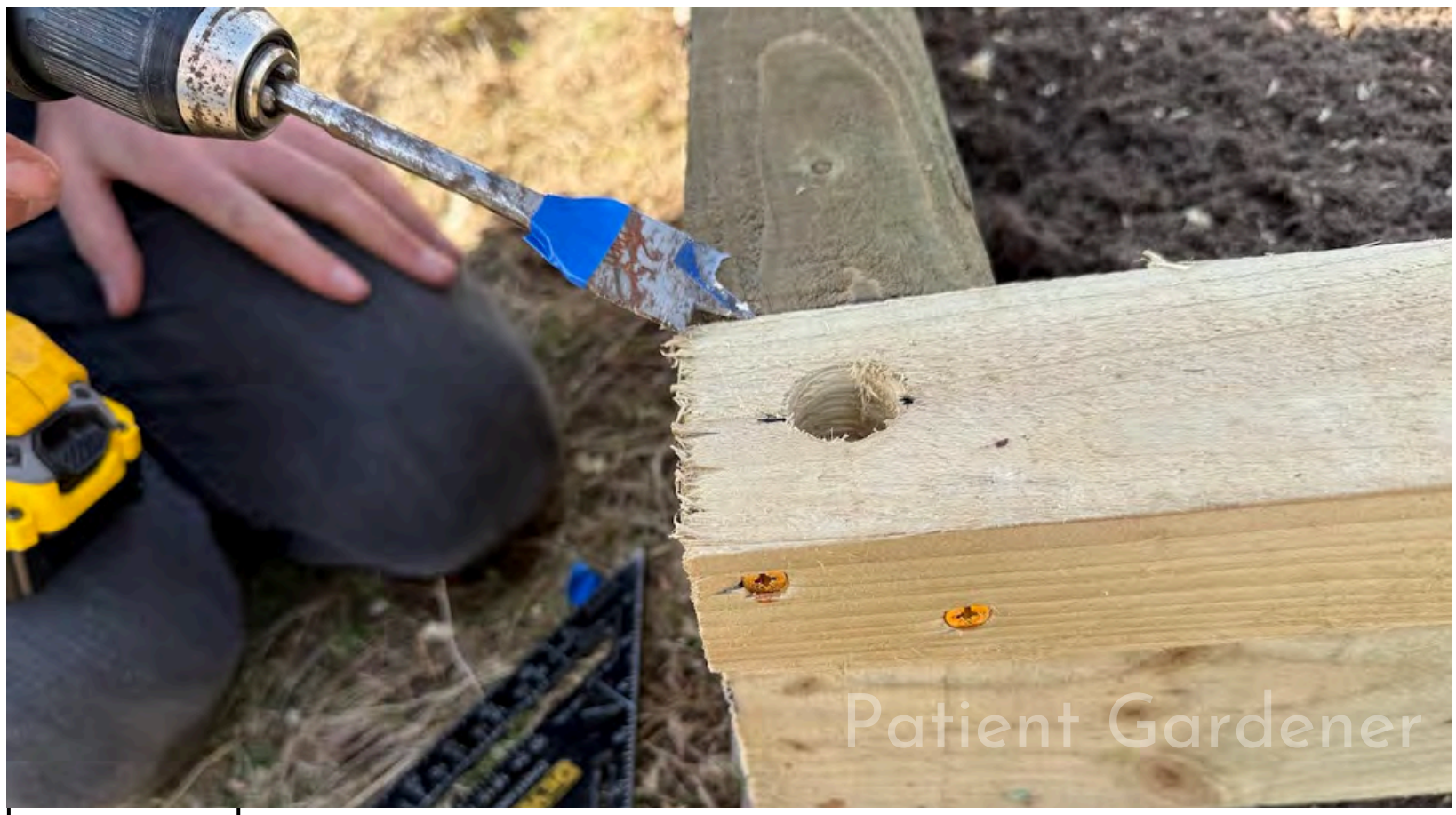

13.

MARK THE DRILL DEPTH

Only drill half way through your 3x2 frame with your spade bit. Use some tape to mark half the depth of the 3"x2" on the drill bit.

14.

CHECK THE PIPE LENGTH

Check that the pipe fits all the way into the 25mm holes and touches the cross-bar at the top.

Keep cutting off any excess pipe, this is now your template rib!

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15. MARK THE RIBS

Use the template pipe to mark and cut the rest of the ribs to the correct length, to from the spine.
We used 4 lengths of pipe for our 6ft (1800mm) hoop house.

16. CUT THE RIBS TO LENGTH

Once the ribs are cut to length space them out equally.
We spaced our 4 ribs every 2ft (600mm) for our 6ft long hoop house.

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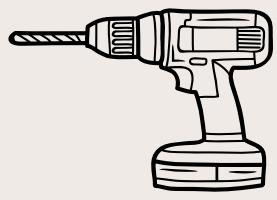

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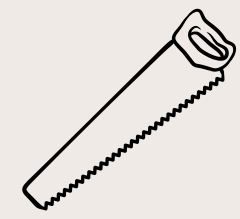

17. FORM THE SPINE

Push all the ribs into the 25mm holes and ensure they all touch the cross-bar.

18. FIX THE HOOP ENDS

Pilot the alkathine pipe with a 3/16" (4mm) drill bit. Use 2" (50mm) wood screws to fix the pipe to the cross-bar.

19.

FIX THE HOOP ENDS

Make sure the pipe slightly over-hangs the sharp end of the 3"x2" cross-bar.

20.

FIX THE HOOP ENDS

Make sure that the screws sit slightly bellow flush with the top of the pipe. This will ensure they do not tear the polythene sheet.

21. FIX RIBS TO CROSS-BAR

Work your way along fixing all the pipe ribs into position every 2ft (600mm) with a single screw through the top of the pipe.

22. FIT THE LOCKING SCREW

Drill a 3/16" (4mm) pilot hole through the side of the hoop house frame 1/2" (12mm) down from the top edge. **Only pilot drill through the timber, and not into the plastic pipe!**

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23.

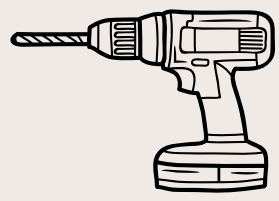
FIT THE LOCKING SCREW

Use a 2" (50mm) wood screw to attach the pipe to the frame. This will act as locking screw stoping the pipe from slipping out, when you open and close the hoop house.

24.

FIX ALL RIBS TO FRAME

Work your way around the hoop house attaching a locking screw to the pipe ends, to ensure they stay in position.



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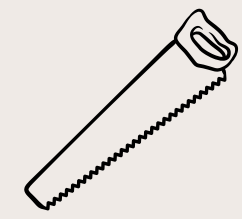

25. OFFER THE SHEET OVER

Throw the sheet over the hoop house and cut it 1ft (300mm) over-size all the way around. The excess will be trimmed off later.

26. CUT TIMBER BATTENS

Cut two timber battens to the length of the hoop house, to help you attach the polythene sheet.

We used rough sawn 2"x1" slate batten cut to 6ft (1800mm)

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27. FIX THE 1ST BATTEN

Wrap the polythene sheet around the first batten and nail it to one of the long sides of the frame.
Wrapping the batten prevents it from rotting and it looks neater!

28. FIX THE 2ND BATTEN

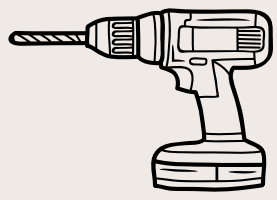
Pull the polythene sheet over the hoop house, then wrap it around the second batten.
You can keep adjusting the wrap around the second batten in order to get the sheet taught.

29. PLEAT THE ENDS

Start in the middle by forming a “V-shape” then work out to the edges.
Pinch the polythene sheet at the top and keep folding over 2" (50mm) at the bottom and keep stapling the pleats into position

30. FIT THE LAST 2 BATTENS

Cut the battens to the length of the ends and nail them into position using 50mm glavanised round wire nails. Cut off the remaining polythene sheet with a stanley knife



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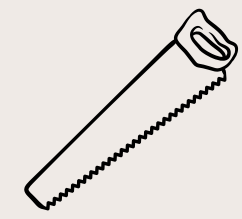

31.

FIT THE HINGES

Position your hinges 6" (150mm) in from either end. Make sure that the knuckle of the hinge is in the centre where the hoop house frame meets the raised bed. **We used two 4" (100mm) stainless steel ball-bearing hinges, so they are less likely to rust!**

32.

OPEN IT UP!

Now your hinges are in place, you can lift up your hoop house from the lip at the front edge.

Now you can get sowing and growing!