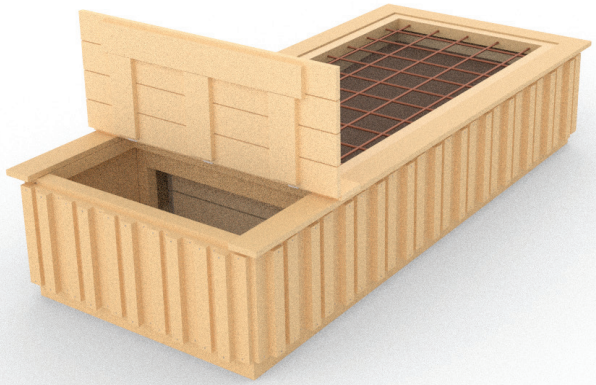
This grow box can also be built from freshly sawn timber.



Do you want to grow plants but want something nicer and more durable than a pallet frame? This grow box is built around two pallet frames in the dimensions 160x80 cm, which you can easily replace when they starts to crumble. The growing box has practical storage and a trellis that can be placed over the seedlings to act as protection against cats and birds when the box is newly sown. If you want to get an earlier harvest, you could also use plexiglass on the reinforcing mesh and make a hotbed during the early spring.

All wood has been sawn with the Logosol F2+. The panel on the grow box has four different dimensions, which makes an aesthetic planter.

The grow box is designed to be built from freshly sawn timber with suitable dimensions and screw placement so as not to crack easily in the drying process. If you want a simpler project, it is fine to replace the panel with longitudinal boards.

Saw and Build

Grow Box

with storage and trellis

Find more build templates here: https://www.logosol.com/support/downloads

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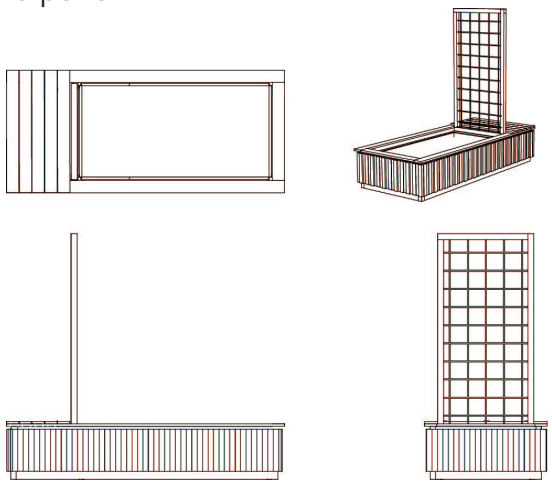
What you'll need:

Wood: pine, spruce or other rot-resistant wood
Pallet frames: 2 pcs 80x160 cm
Reinforcing mesh: width 1.25 m, length 2.35 m
Screws: deck screw 4.2x55, deck screw 4.2x75
Wood screw 5x90, wood screw 4x35
Fittings: 3 hinges
Machines: chain sawmill, power drill, circular or miter saw and angle grinder
Tools: carpenter square, ruler, level and pencil



Cutting list [mm]:

Frame: 2 pcs 10x4,5x215, 2 pcs 10x4,5x82

2 pcs 4,5x4,5x215, 3 pcs 4,5x4,5x82,

6 pcs 4,5x4,5x30, 1 pc 10x4,5x82

Panel: 5,5x2x36, 4,5x45x36, 3,5x2x36, 5x3,5x36

Frame cover: 1 pc 2x10x82, 2 pcs 2x10x230

Lid: 1 pc 2x10x82, 5 pcs 2x10x105, 3 pcs 2x10x28

Trellis: 2 pcs 5x5x167, 2 pcs 5x5x71

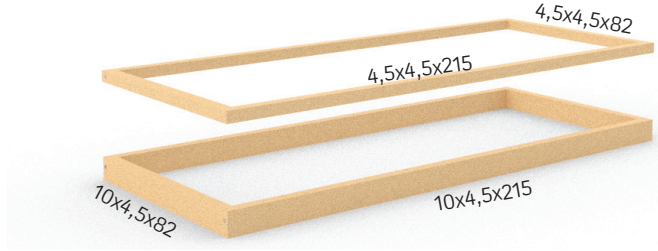
Instructions

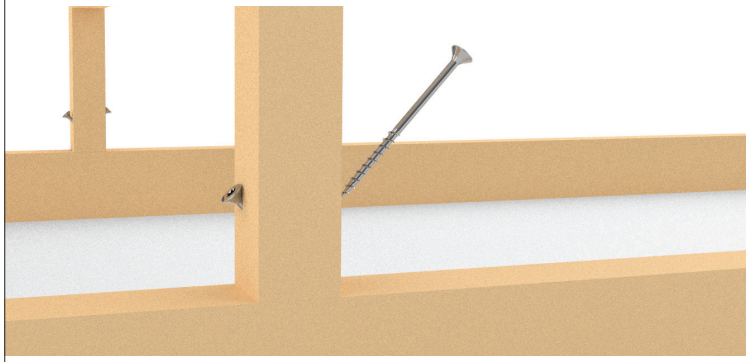
1. Level the surface where the grow box will stand. Place stone slabs in the corners to reduce rotting from the ground and to create ventilation underneath. In this drawing, there are pallet frames in size 160X80 cm inside the box, but it is of course possible to build only the box and cover the inside with, for example, a drainage mat as well.

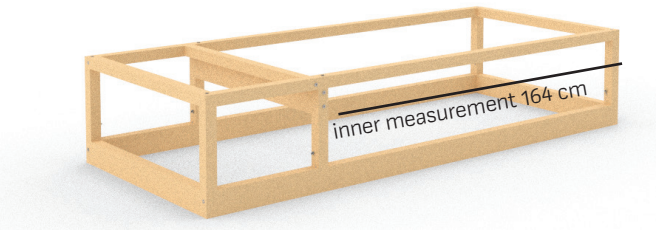
2. Cut out the parts according to the cutting list, it is fine to build this box in freshly sawn wood and let it dry in place.

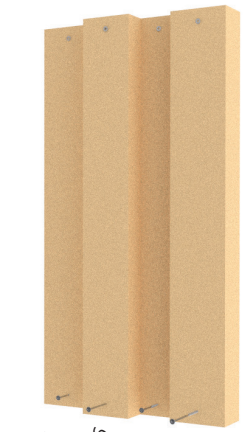
3. Screw together the lower part of the frame so that you get a frame of 10x4.5 cm wood, level it up with a spirit level. It is easiest to first screw two Ls together and then screw them together to form a frame. Measure the diagonals, when the measurement matches, the construction is at an angle. Pre-drill before you screw so the wood doesn't crack, you also get good control over the angle the screw takes. Screw together the upper frame in the same way. Then insert the short pieces and screw them to the lower frame with angled screws and the upper frame with screws straight through. Finish by attaching the transverse pieces that will support the trellis. The inside measurement is 164 cm between the short pieces.

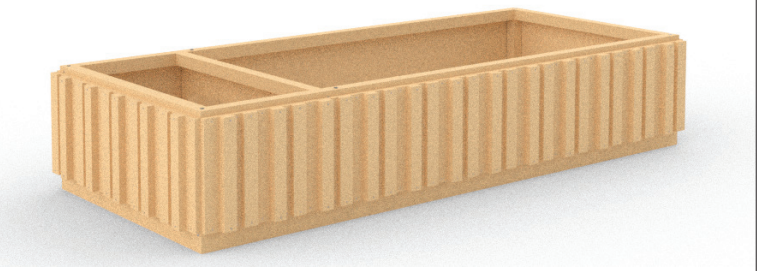
4. The panel's location is marked with a line on the upper frame. Measure 1.5 cm from the top edge and draw with a tape measure or long ruler. Pre-drill a hole centered 1.5 cm from the top edge on each side of the panel pieces. Then screw the

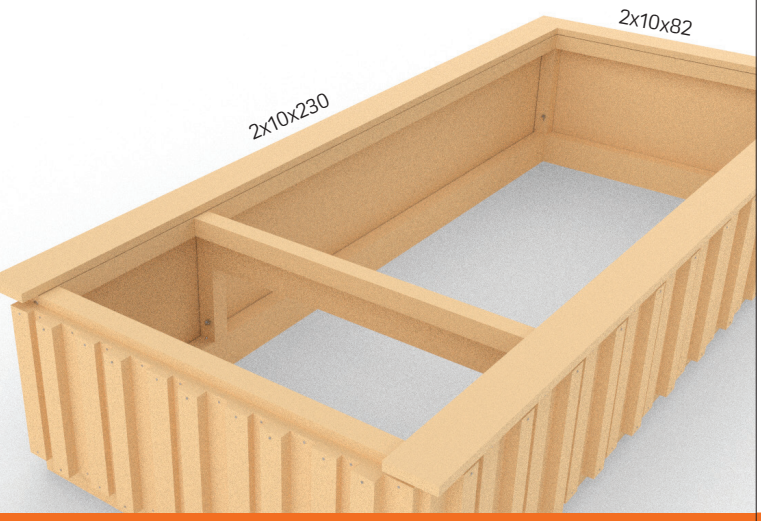












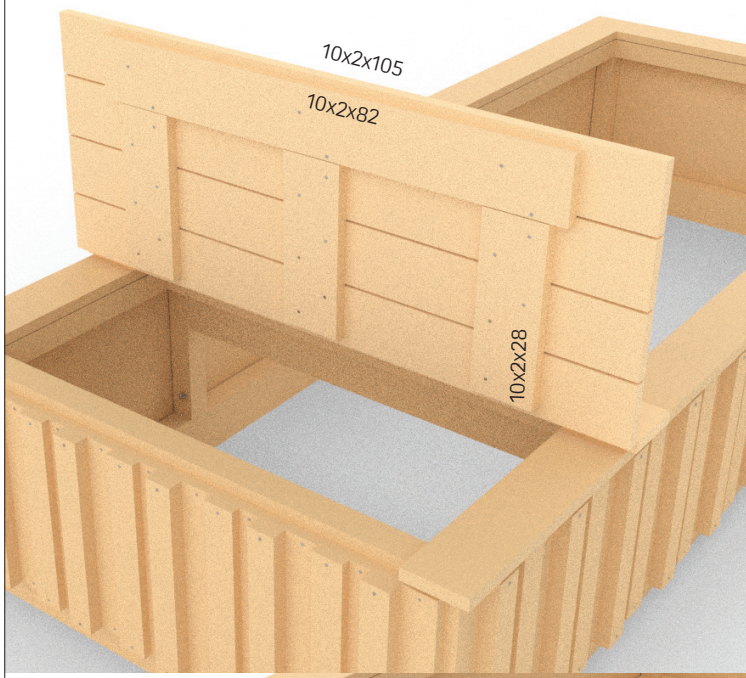
pieces in the same sequence around the entire growing bench. If your pieces are slightly different in size, it's helpful to lay them on the ground around the frame to get neat finishes at the corners. Screw them in place with a 4.2x75 deck screw on the thicker ones and a 4.2x55 deck screw on the thinner ones. If you want, you can also nail the panel with hammer and a nail set, but don't skip the pre-drilling, otherwise it will easily crack so close to the end wood. Check between turns that the angle matches with an carpenter square.

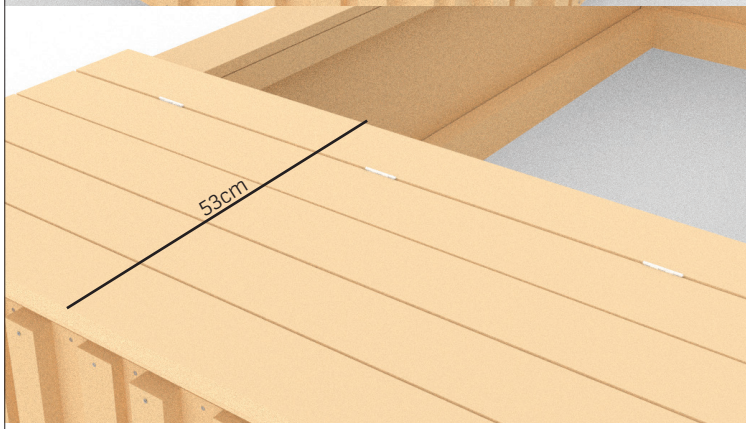
5. Now it's time to build the frame cover that rests on top of the frame. The boards are screwed down flush with the inner edge of the frame. The frame cover part on the short side during storage must not be screwed to the end as it must be attached to the lid of the box.

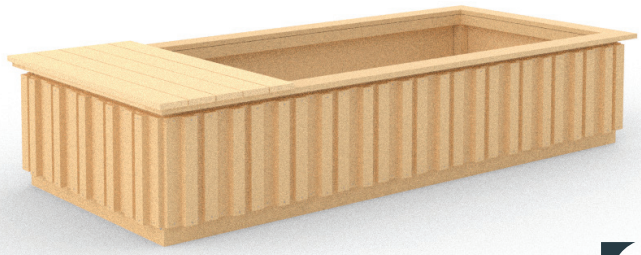
6. The lid protrudes a little from the frame to make it easier for you to get hold of when you open it. Screw the innermost board into the frame, the part that can be opened you screw together as shown in the picture, fit the short frame part against the three parts you have already screwed to the frame.

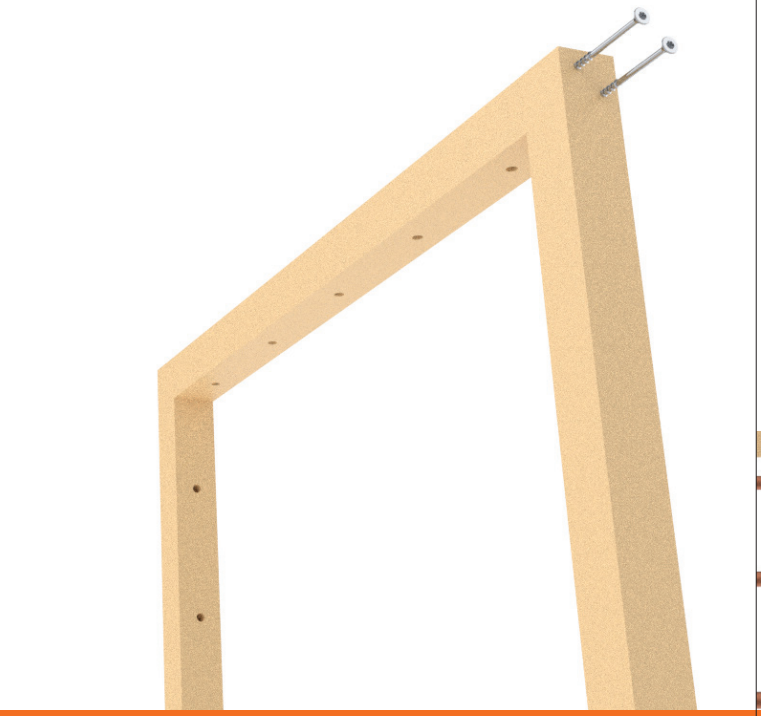
Once you've screwed the opening part together, it's time to attach the hinges. The easiest way to do this is to screw them onto the board that is attached to the frame, then put the lid in the maximum open position, screw in a screw on the outermost hinges and check that it looks nice when you close the lid, then screw in the remaining the screws.

7. Pre-drill the holes in the edges of the trellis. This part is exposed to a whole load of plants and



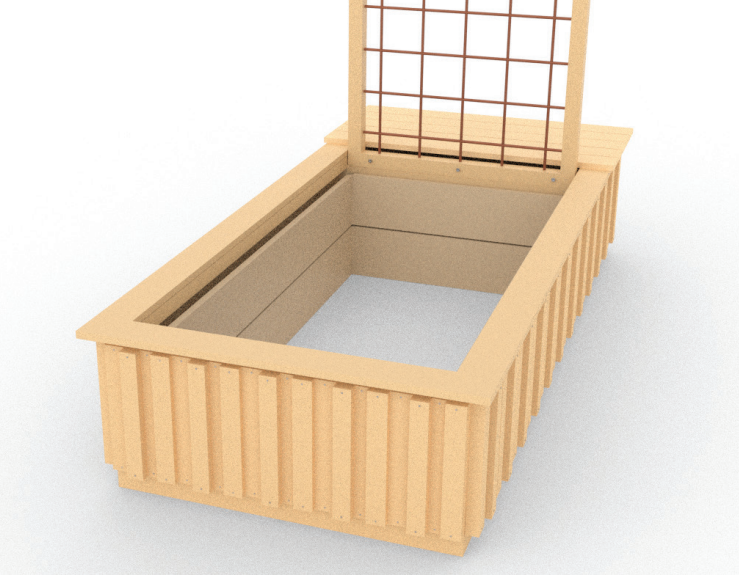






wind, that is why there are two screws in the corners so that it is stable.

Choose straight-grown and preferably densely grown wood for this part. Screw the frame together with a screw in each corner, measure the diagonal so it is at an angle. Lay out the frame on the reinforcing mesh, making sure it looks symmetrical and mark with a chalk on the outer edge of the frame. Then measure in 2.5 cm from the outer edge and cut the reinforcing mesh with an angle grinder there. To get the holes right, lay out the cut-out reinforcing mesh on the frame and mark where each hole should be drilled. Mark the parts with numbers in the corners of the frame so you know how and in which direction it should be screwed together when you have made the holes. Unscrew the frame, drill the holes 3.5 cm deep, thread the reinforcing mesh into the holes and screw together.

Now your growing bench is ready!

When filling the grow bench, feel free to put in twigs, branches, leaves, compost before finishing with a layer of soil to plant in. Sow or plan seedlings and protect them for the first time with the trellis lying over your sowing. When your seedling has grown up, you can fasten the trellis in a vertical position with wood screws.