WAVE SHELF

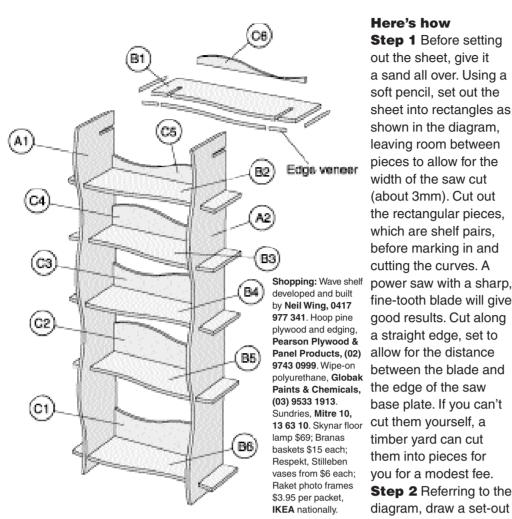


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This shelf can be made from a single sheet of ırniture-grade plywood, which costs less than \$100. uilding it is a breeze – all you need is a jigsaw, a power saw, if making the large, straight cuts yourself

Gather your supplies PART MATERIAL 1800 x 610 x 17mm Side (makes 2) 795 x 510 x 17mm C1-C6 various 597 x 17mm All components are cut from one sheet of 2400 x 1200 x 17mm hoop pine plywood.

You'll also need 800 x 100mm cardboard or thin plywood strips; 22mm hoop pine edge veneer; PVA adhesive; 40mm wood screws; colour-matched plastic screw caps; wipe-on polyurethane



Step 1 Before setting out the sheet, give it a sand all over. Using a sheet into rectangles as of plywood, make up shown in the diagram, leaving room between pieces to allow for the width of the saw cut (about 3mm). Cut out the rectangular pieces, which are shelf pairs, before marking in and cutting the curves. A Shopping: Wave shelf power saw with a sharp, fine-tooth blade will give 977 341. Hoop pine good results. Cut along

used for the waves is only 25mm deep. Cut out the templates. a straight edge, set to base plate. If you can't timber yard can cut

Step 5 Align the templates with the setback components, and in you for a modest fee. Step 2 Referring to the the case of the sides, slide the template along

line down the centre

from the bottom, mark

in intervals of 595mm

along the line. Also,

draw set-out lines

down the centre of

set-out line is 155mm

from the C1 side, on

the C3 side and on

The segment height

from the C5 side.

the shelves (B).

of sides (A). Measuring of successive waves. The templates are used full length to mark in curves on the backs and shelves. Mark each of the shelves **Step 3** The set-out lines and the backs to on the backs (C) are offkeep them in their centre. Referring to the correct positions. diagram, on C1,C2, the Step 6 Along the straight back of the sides and the curved front of C3,C4, it is 115mm from the shelves, mark in slots for the cross-halved joints C5,C6, the line is 55mm as shown in the diagram. These slots enable

the assembly of the Step 4 On a strip of cardboard or thin piece templates for the curves. Either use the templates here or draw your own arcs with a radius of 455mm for the sides and shelf backs, and 800mm for the shelves

Step 7 Before cutting out, fit a splinter guard (which may be an optional accessory) to your jigsaw, to lessen the chance of wood breaking out at the top surface as the jigsaw cuts upwards. Cut along the curved lines.



to each 595mm mark to on the waste side of the set-out line, then across to the opposite corner to leave a little triangle at the slot end. Use a chisel to clean out the remainder. Check the fit of an offcut of the plywood – it should be a snug fit. If necessary, sand the inside surfaces of the

wavy front. Place the veneer glue side down on the edge, then set a household iron to hot and run it over the veneer, to melt the glue. The glue should be melted in 10 seconds and will stick as soon as it cools. Follow this immediately with a soft wooden block to ensure the veneer is well glued. Cut out the slots on curved edges of shelves after the veneer has been glued in place. As you iron each piece, trim around

the edges with a utility

knife, then lightly sand

to clean up the edges.

Step 9 Veneer the

side edges, then the



Step 10 After preparing the 2 sides, 6 shelves and 6 backs, give a final sand, then apply 3 coats lightly with 320-grit

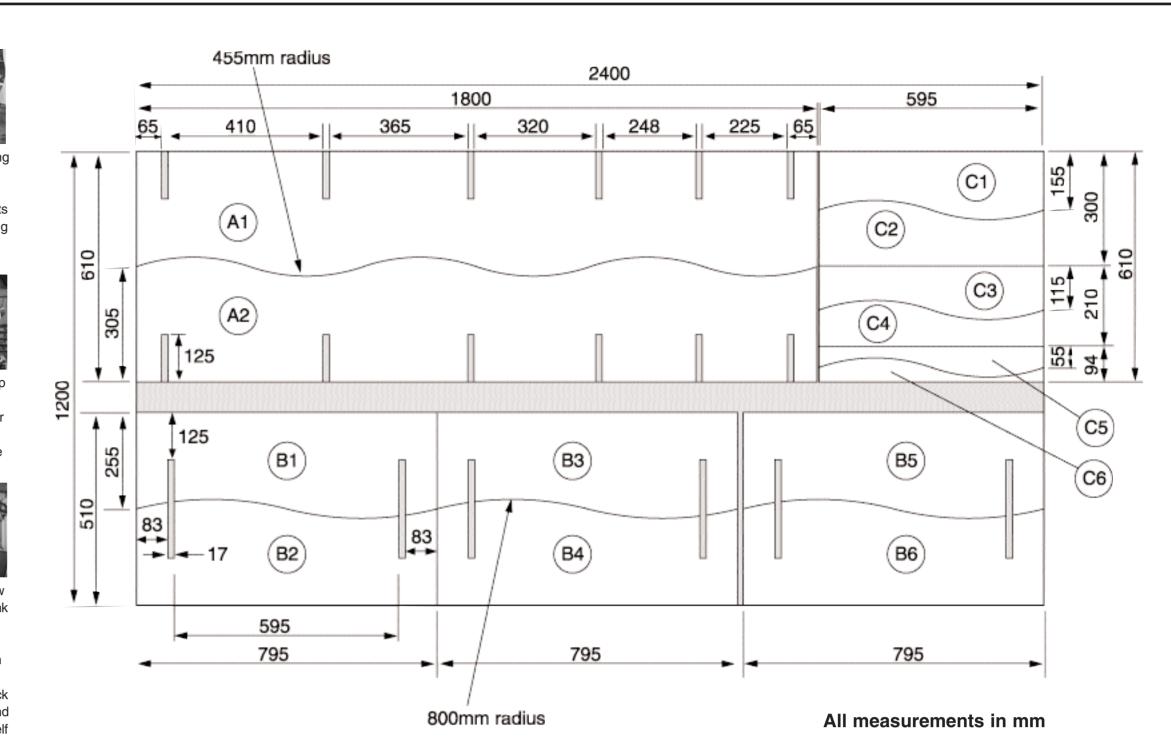


and bottom shelves, tapping in with a rubber mallet. Install the other shelves, alternating the waves with each shelf.



Step 12 Predrill screw holes to take countersunk screws, then screw on backs with 3 screws from underside of each shelf and 1 from each side. The crest of a back wave should correspond with the trough of its shelf wave. The largest back goes at the base, with each one above being

the next size down.



Use a splinter guard on your jigsaw to surf the waves without wipe-outs



