BUILD GREAT CASTLE SHELVES

SMILES AND MEMORIES WITH PORTA

Tools you'll need:

- Hammer
- Circular saw
- Electric brad gun (optional)
- Jig saw
- Sander
- Clamps
- Measure
- Straight edge
- Paint brush
- Safety gear

Timber you'll need:

Profile	Length	Qty
DAR 300x19mm (Clear Pine or FJ Pine Panels)	0.9m	9
DAR 67x18mm FJ Pine	1.8m	2
DAR 67x18mm FJ Pine	2.4m	1
SQE 35x08mm Pine	1.8m	1

With Porta Mouldings' timber products, our new range of children's Porta Projects and a spare afternoon you can build fun, long-lasting toys like this castle bookshelf.

Made from DAR radiata pine panels and pine mouldings these shelves provide storage, display units or can be used for play.

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TIMBER CUTTING LIST

PART	MATERIAL	Cut Size (mm)	QTY to be cut
Tower sides	DAR300x19PICL09	750mm	4
Tower horizontals	DAR300x19PICL09	280mm	6
Fixed shelf	DAR300x19PICL09	196mm	1
Adjustable shelf	Use remains of panel piece above	192mm	1
Base top	DAR300x19PICL09	840mm	1
Caste top bases	DAR300x19PICL09	320mm	2
Base front and rear	DAR67x18PIFJ24	840mm	2
Base side	Use remains of moulding above	262mm	2
Castle top side 1	DAR67x18PIFJ18	300mm	4
Castle top side 2	DAR67x18PIFJ18	360mm	4
Window sills	SQE35x08PICL18	110mm	4

1 Measure, mark and cut each length of panel to size using a circular saw guided with a straight edge or a sliding compound mitre saw.

2 Lay two upright tower sides out and mark a line vertically up through the centre. Then on one mark the arched window bases 70mm and 435mm up from the base. Mark the window heights 190mm up from these. On the inner side a taller arch of 230mm is started at 30mm from the base. Window widths are marked at 55mm either side of the centre line and the arch top drawn by tracing around the base of a 1lt paint can.

3 A jigsaw is used to cut the window shapes. Place two side panels on top of one another to make to two outer sides at one and then repeat for the inner sides. Fit a clean-cut wood cutting blade into the jigsaw and drill a 10mm starter hole within the waste area of each cutout, before proceeding carefully with the cut outs.

4 Assemble each tower with pva and brad nails. Mark the centre shelf position inside and out before proceeding with assembly. Position the top and base pieces flush with the top and base edges of each side. Then position centre shelf and use outside centre mark to guide your nailing positions.

5 Assemble the base by first butt joining the base frame pieces and then adding the top panel. Along the front and back measure 100mm from each end and 40mm up from the bottom edge to layout the base cut-out. Once again use a 1lt paint can to mark curves and cut these shapes away with a jigsaw.

6

Lay out the crenulations along the castle tops by marking every 40mm along the longer sides and 43mm along the shorter sides, and then 25mm down from the top edge, Make each of the cut-outs with the jigsaw and then assemble the top.

7

After filling all nails holes with pine timber putty and sanding away all pencils lines and sharp edges paint each section. The tops and base are coated with primer and then two coats of a solid colour. The tower and cross shelves however are painted with a white primer diluted 1 to 4 with water. The watery wash is applied liberally to each surface and then wiped with a rag.

8

Before bring the final assembly together position and drill some 5mm holes for shelf support pin on the inner faces of towers, 50mm in from each edge and 315, 365 and 415mm from the base. Place towers on base with pva and position fixed cross shelf 180mm from tower tops. Glue clamp and nail all these into position. Top decorative top can then be glued into position.

FINISHING DETAILS

Small finishing details add some charm to the project. We completed the shelves buy painting the inner edges of each window cut out with solid paint and gluing in some small window sills cut from Porta 35 x 08mm pine cover strips. The protective wax coating is applied with superfine "0000" grade steel wool and then buffed back with a rag.