

Step by step guide showing how to build a box to store shooters powder.



You will need

- 1, A router and a 6mm router cutter to cut the groves and hinge housings.
- 2, A drill and bits for the screw holes
- 3, A saw unless you buy the wood cut to size.
4. General hand and marking out tools.

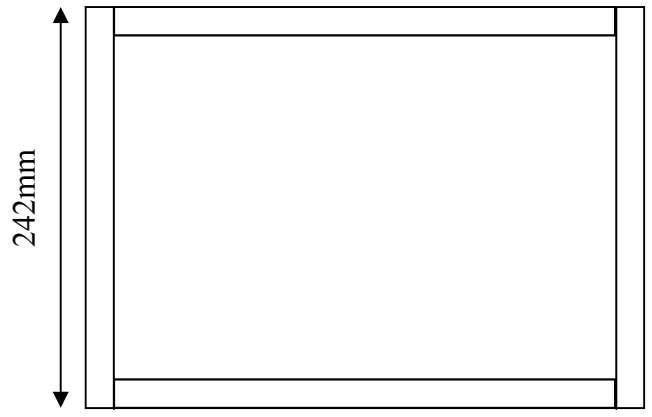
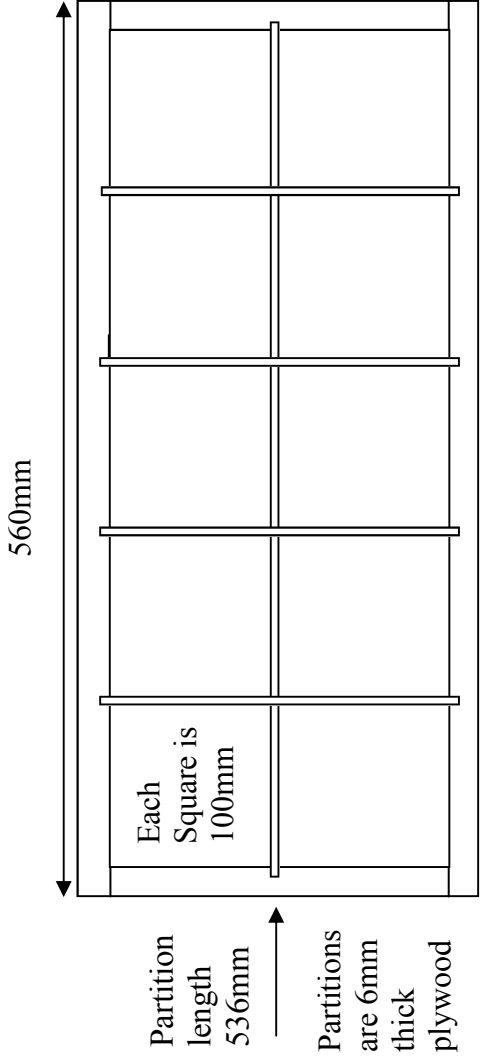
A reasonable knowledge of woodworking skills is assumed..

50p
to cover cost of
reproduction.

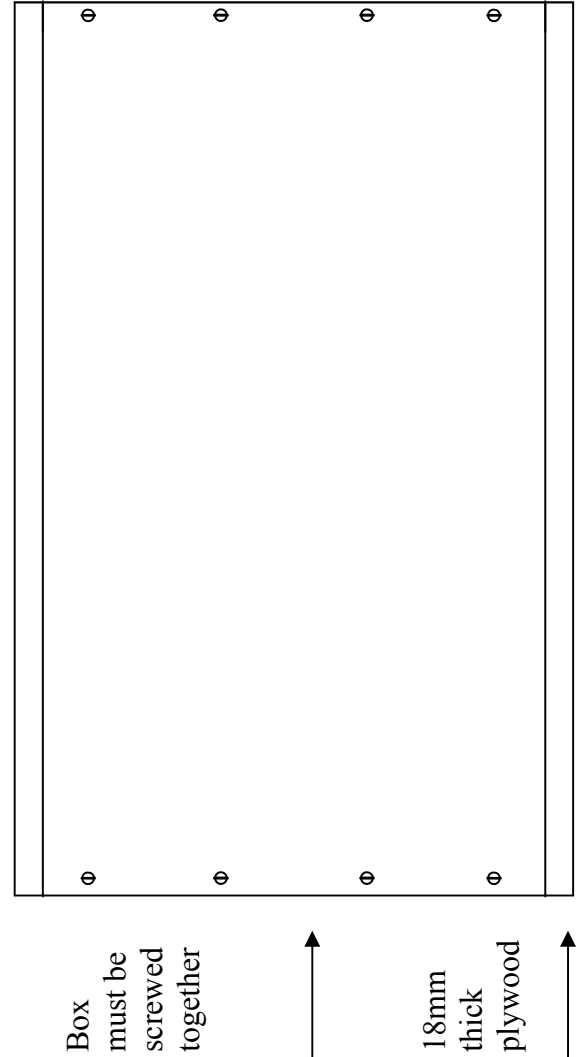
Box to store Shooters powder in (as per new regulations.)

Lid is to be hinges and held down with a hasp and staple fitted with a security padlock. An intumescent strip is recommended to be fitted to ensure a good seal between the lid and the box.
 All exposed metal on the inside of the box should be covered with a glued wooden liner not less than 6mm thick.
 Lid not shown on plan

(Shooters powder = smokeless powder and/or black powder.)
 This drawing assumes no exposed metal on the inside of the box, allow extra length if you are going bolt through the external ply frame.
 All dimensions in millimetres.
 3rd angle projection.
 Errors and omissions accepted.
 Author C M Nicholls. (R2)



Height 30% more than tallest container (300mm+)



Cutting list

Two pieces of 18 mm thick ply for front and back

Length 560 mm

Height 30% more than tallest container (300 mm +)

Two pieces of 18 mm thick ply for left and right hand side

Length 206 mm

Height 30% more than tallest container

Two pieces of 18 mm thick ply for Top and Bottom

Length 560 mm

Width 242 mm

One piece of 6mm thick ply for long partition

Length 536 mm

Height 30% more than tallest container (300 mm +)

Four pieces of 6 mm thick ply for short partitions

Length 218 mm

Height 30% more than tallest container (300 mm +)

Ironmongery and timber, (All items in brackets are as used by author to make his box.)

1 pair of hinges (50mm Steel butt hinges)

1 hasp and staple.

28 screws to hold box frame together (2 1/2" x 10 csk pozi)

9 screws for holding hasp and staple on (3/4" x 8 csk star drive security screws.)

8 screw to hold hinges on (4 off 1 1/2" x 6 csk pozi + 4 off 3/4" x 6 csk pozi)

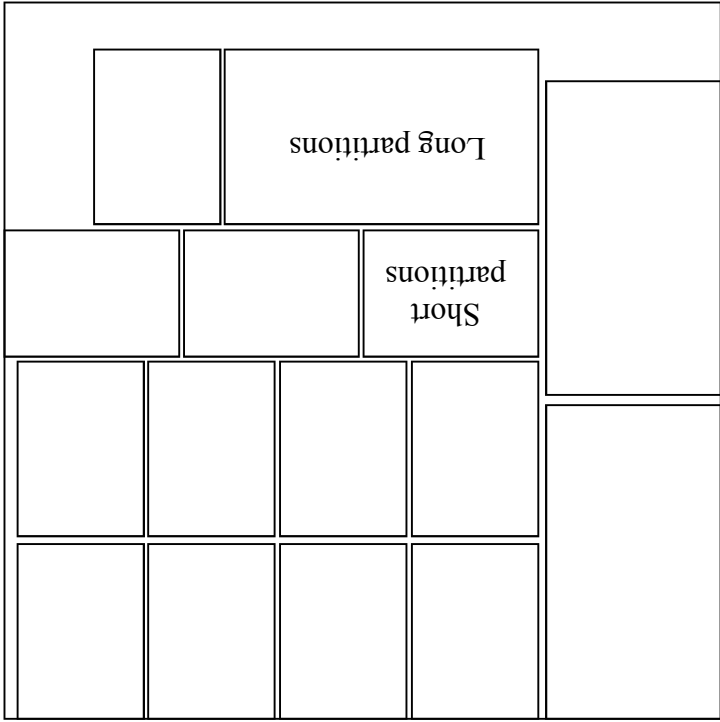
Intumescent strip is available from "Complete fire protection ltd, Unit 2, Ferry steps industrial estate, Albert road, St Philips, Bristol, BS2 0XW, Tel 0117 971 1917" ask for FP102 and ask them to make it without the brush strip. It is 1 mm thick and sticky backed, you need one and a half strips to fit the box. It is made in 1050mm long strips which are 25 mm wide.

18 mm shuttering ply (2440 x 1220 sheet is enough for 3 boxes)

6 mm ply (2440 x 1220 sheet is enough for 6 boxes)



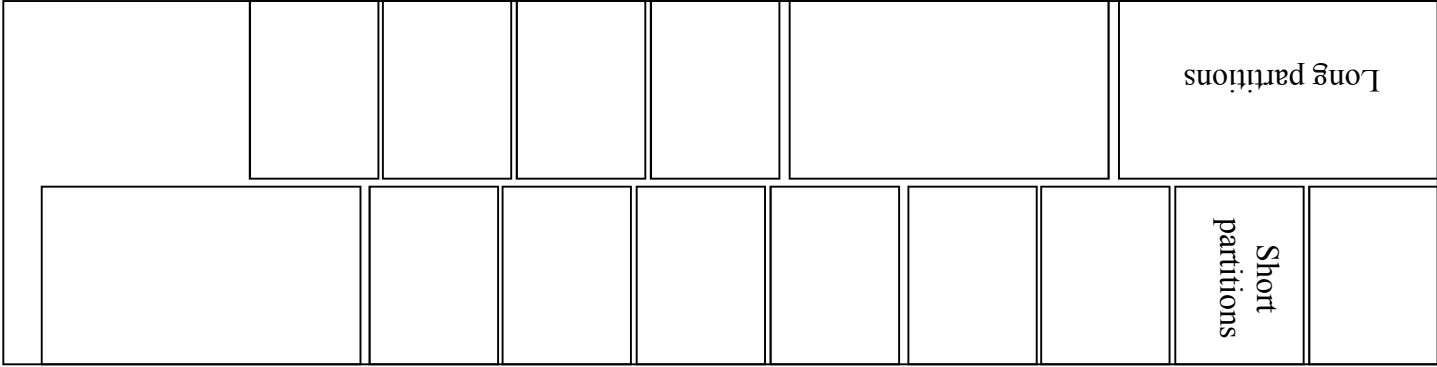
This is a photo of the authors box. He made his box 336 mm high, all sides and partitions were cut 300 mm high. This may not be tall enough for you, please check what height you need before you cut any timber



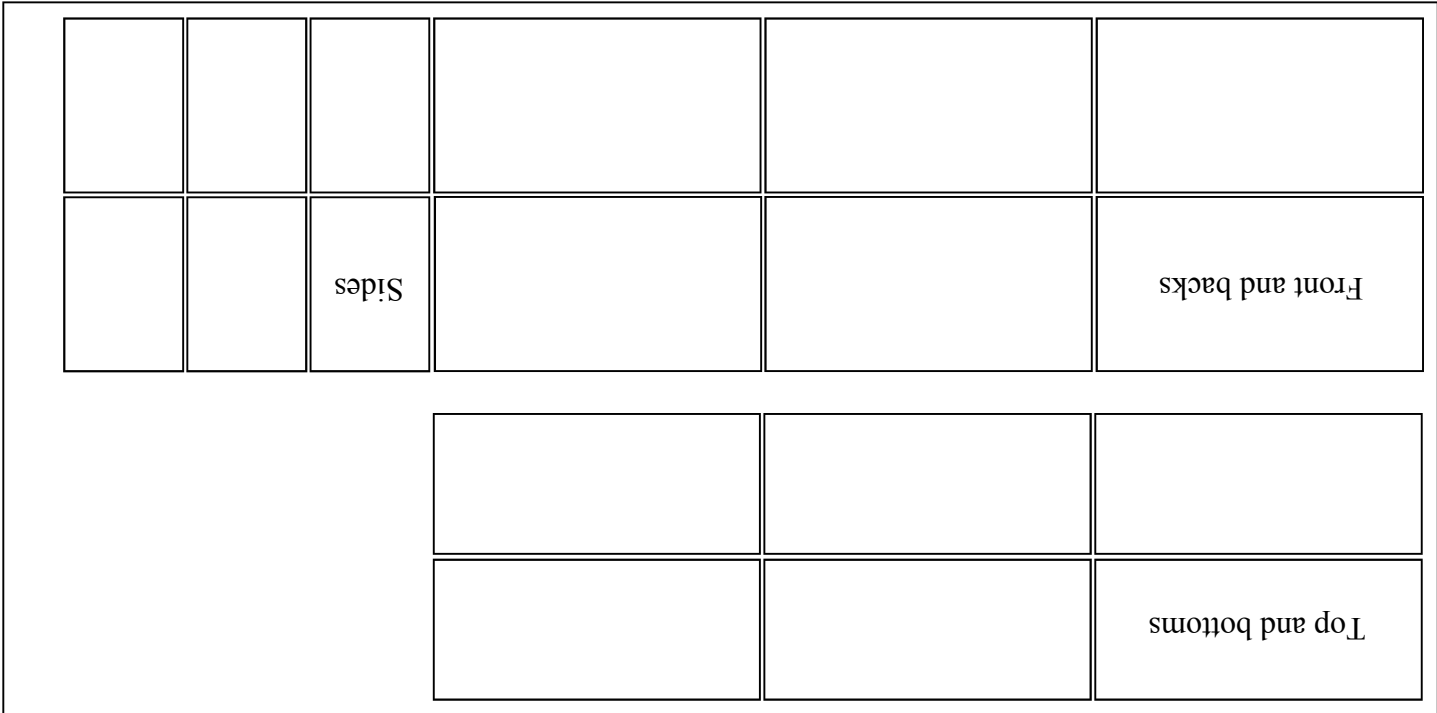
1220 mm x 1220 mm x 6 mm ply
 marked out for 3 boxes

Choose **ONE** only

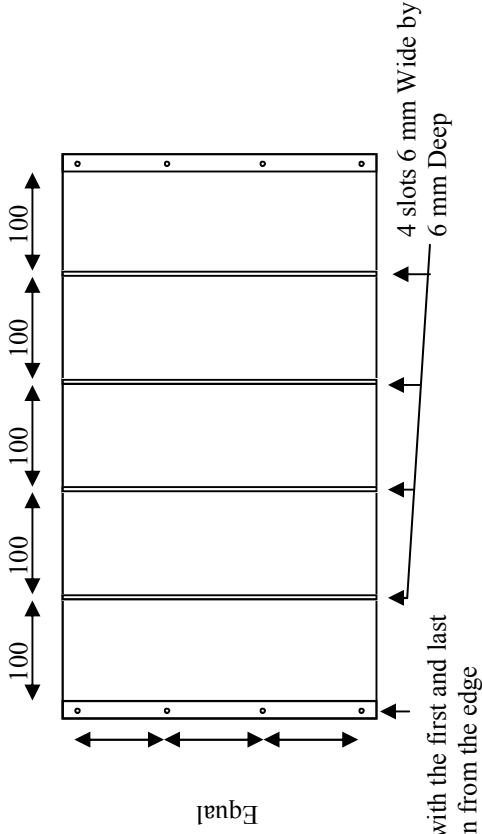
2440 mm x 610 mm x 6 mm ply
 marked out for 3 boxes



2440 mm x 1220 x 18 mm ply marked out for 3 boxes

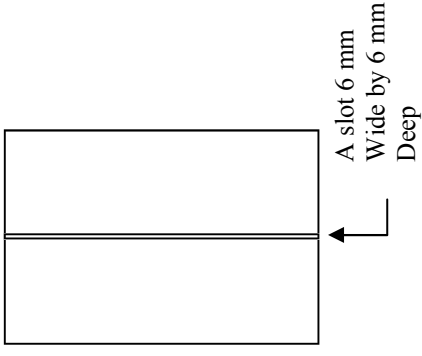


1



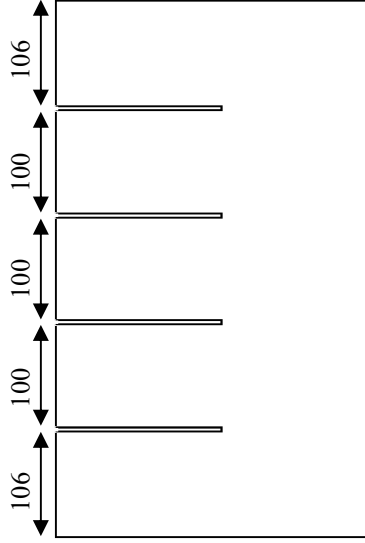
Take the Front and Back pieces of wood and find the middle. From the middle mark, measure 50 mm each side and mark, from that mark measure 6 mm and mark. Repeat this again so you have four 6 mm slots marked out. Cut the 4 slots 6 mm deep. Mark off 18 mm strip from each end, mark and drill 4 clearance holes for the screws in the centre of that strip. Countersink holes on the others side to the slots.

2



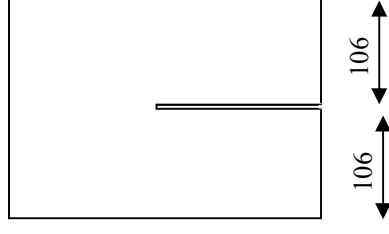
Take the Left and Right hand sides and find the middle. From the middle mark, measure 3 mm each side and mark, Cut the slot 6 mm deep

3

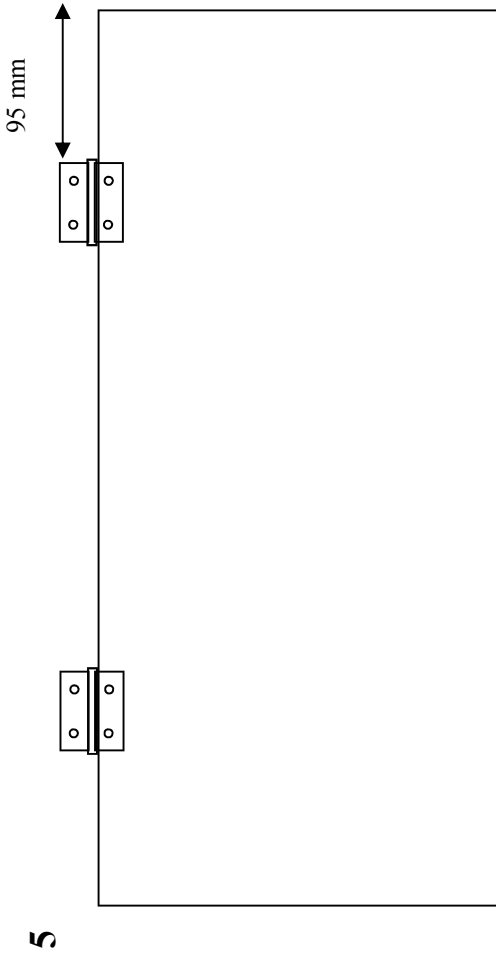


Take the long partition pieces of wood and find the middle. From the middle mark, measure 50 mm each side and mark, from that mark measure 6 mm and mark the slot. Repeat this again so you have four 6 mm slots marked out. Each slot should be 5 mm longer than half way. Cut the 4 slots all the way through the wood.

4

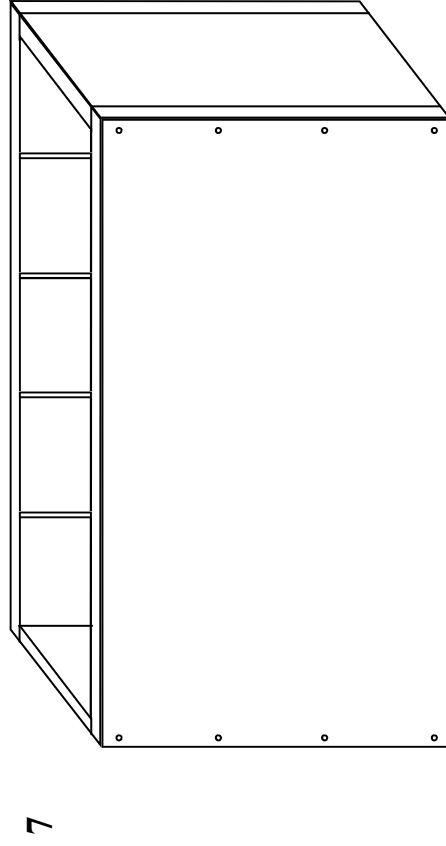


Take the four short partition pieces of wood and find the middle of each piece. From the middle mark, measure 3 mm each side and mark the slots, Each slot should be 5 mm longer than half way. Cut the slot all the way through the wood.



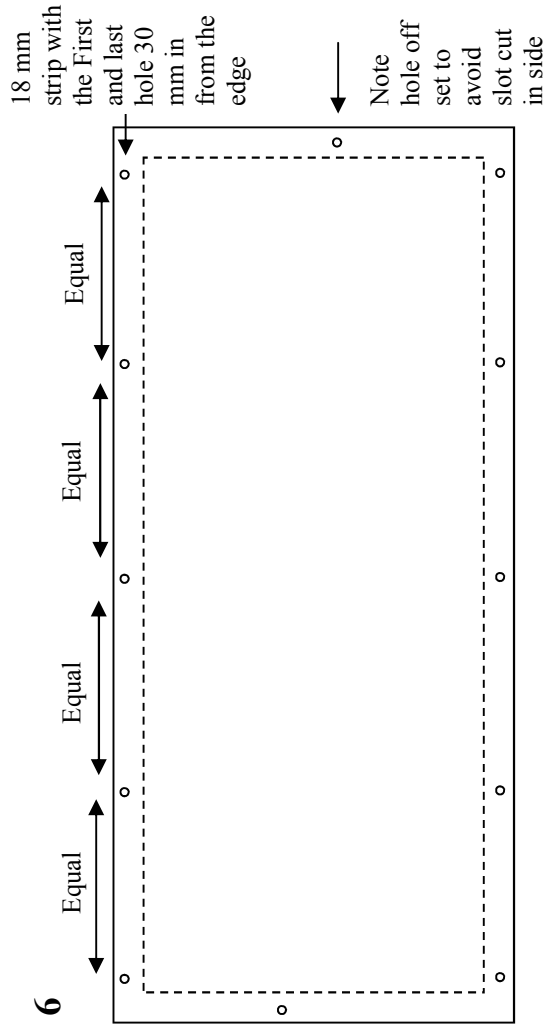
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Take the piece of wood that is to be the top, measure in 95 mm and mark around the hinges. Cut out enough wood for the hinges to fit flush with the surface of the wood.



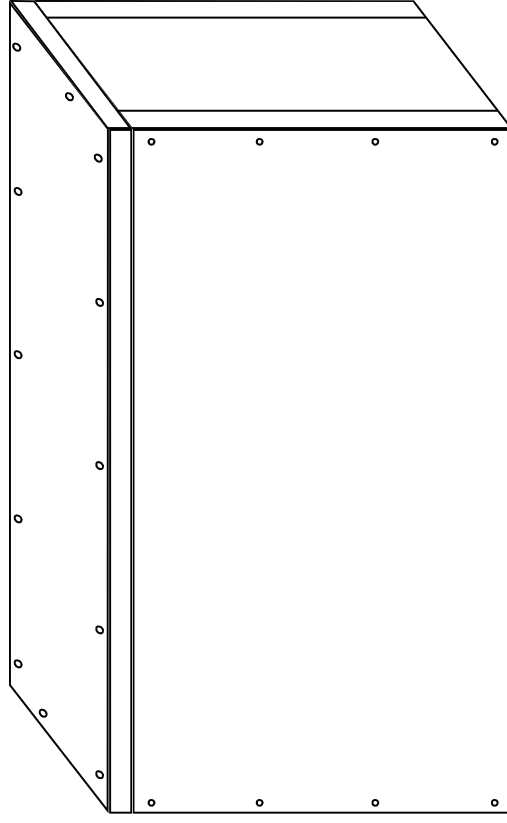
7

Take the front, back and 2 sides. Using the predrilled holes in the front and back as a guide, drill pilot holes for the screws and put main frame together. You might find it useful to hold it together with a few panel pins while you drill the pilot holes. Screws about 65 mm long work well.



6

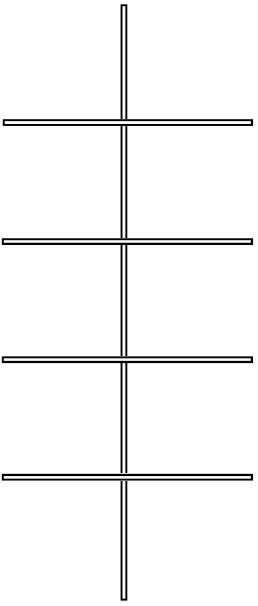
on the bottom piece of wood, mark out holes and drill clearance holes then countersink for screws.



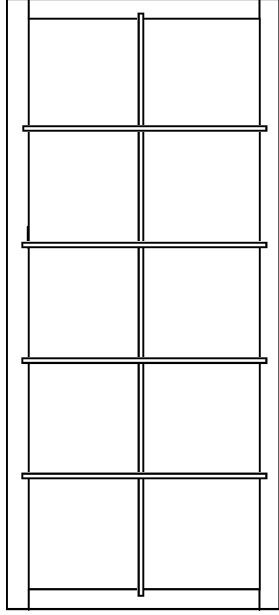
8

Take the bottom. Using the predrilled holes as a guide, drill pilot holes for the screws and put bottom on. You might find it useful to hold it together with a few panel pins while you drill the pilot holes. Screws about 65 mm long work well.

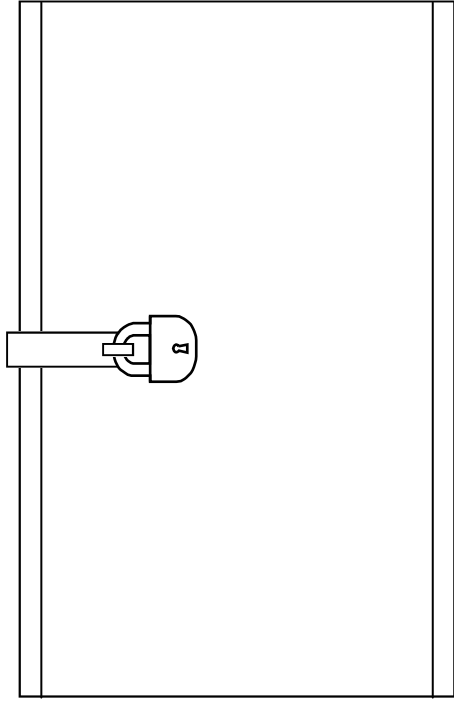
9



Assemble partitions and slip in to the box, a dab of wood glue here and there will help to hold them in

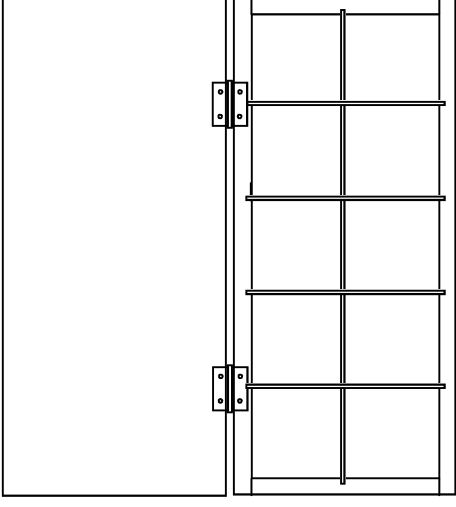


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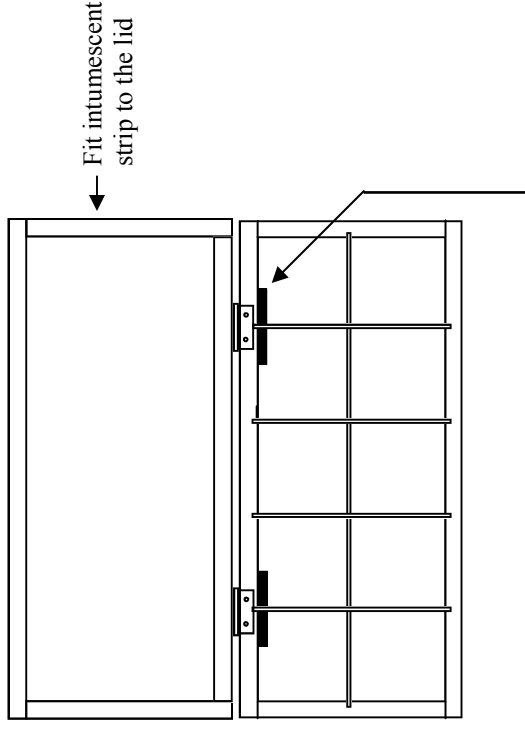
Fit hasp and staple,

10



Mark out hinges on the main body of the box and cut wood away to allow hinges to fit flush with the surface of the wood.

12



Note small blocks of wood glued to inside to cover metal of the hinges if there is not 6 mm of wood left when hinge housing was cut. Use off cuts of ply from partitions. Shown much larger than real life for emphasis.