Single Hive Stand

This is a simple design for a hive stand and yet it is strong enough to cope with moving colonies around in an apiary.

Completed stand

The legs are all constructed from 5cm x 5cm timber. The top cross struts for the legs are 7.5cm x 2.5cm. So adjust the dimensions accordingly if you use other sizes of timber. The bottom bracing struts are 5.0cm x 1.0cm. Simple joinery is all that is required to construct the carcase with PVA glue and screws to assemble the stand. The legs are attached to the sides with 50mm screws – with 2 per face in a staggered pattern.
The overall size as shown on the plan is a square top surface 46cm x 46cm and 47.5cm in height.

Cutting List

Quantity	Description	Length	Width	Thickness	Total Length (m)
4	stand leg	475mm	50mm	50mm	1.9
2	top brace long	460mm	75mm	25mm	0.92
2	top brace short	426mm	75mm	25mm	0.852
4	bottom brace	426mm	50mm	10mm	1.7
16	screws	50mm			

Construction technique

1. Cut all pieces to length.
2. Cut 8mm deep x 67mm lap joint for the 2 longer of the top brace pieces.
3. Cut 8mm deep x 50mm lap joint for the 3 shorter top braces
4. Now it's just a question of applying glue to the faces of the lap joints and screwing into place. It gives the structure a bit more rigidity if you screw each corner with 2 screws on a diagonal. Drill pilot holes for each of the screws to prevent splitting.
5. Fix and screw the lower cross braces in place around 20 cm from the bottom of each leg.

Finishing

Once the glue has dried you can treat the timber with a suitable preservative such as Cuprinol. To give the maximum protection possible to the bottom of the legs let them stand in Cuprinol for 24 hours.

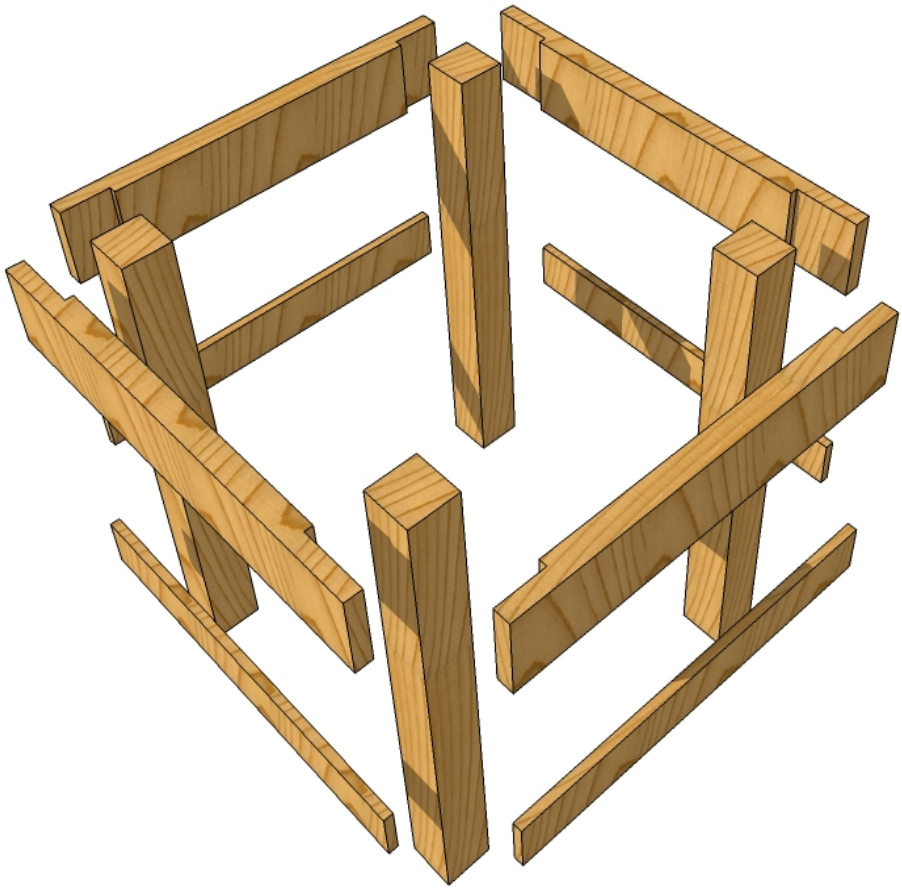
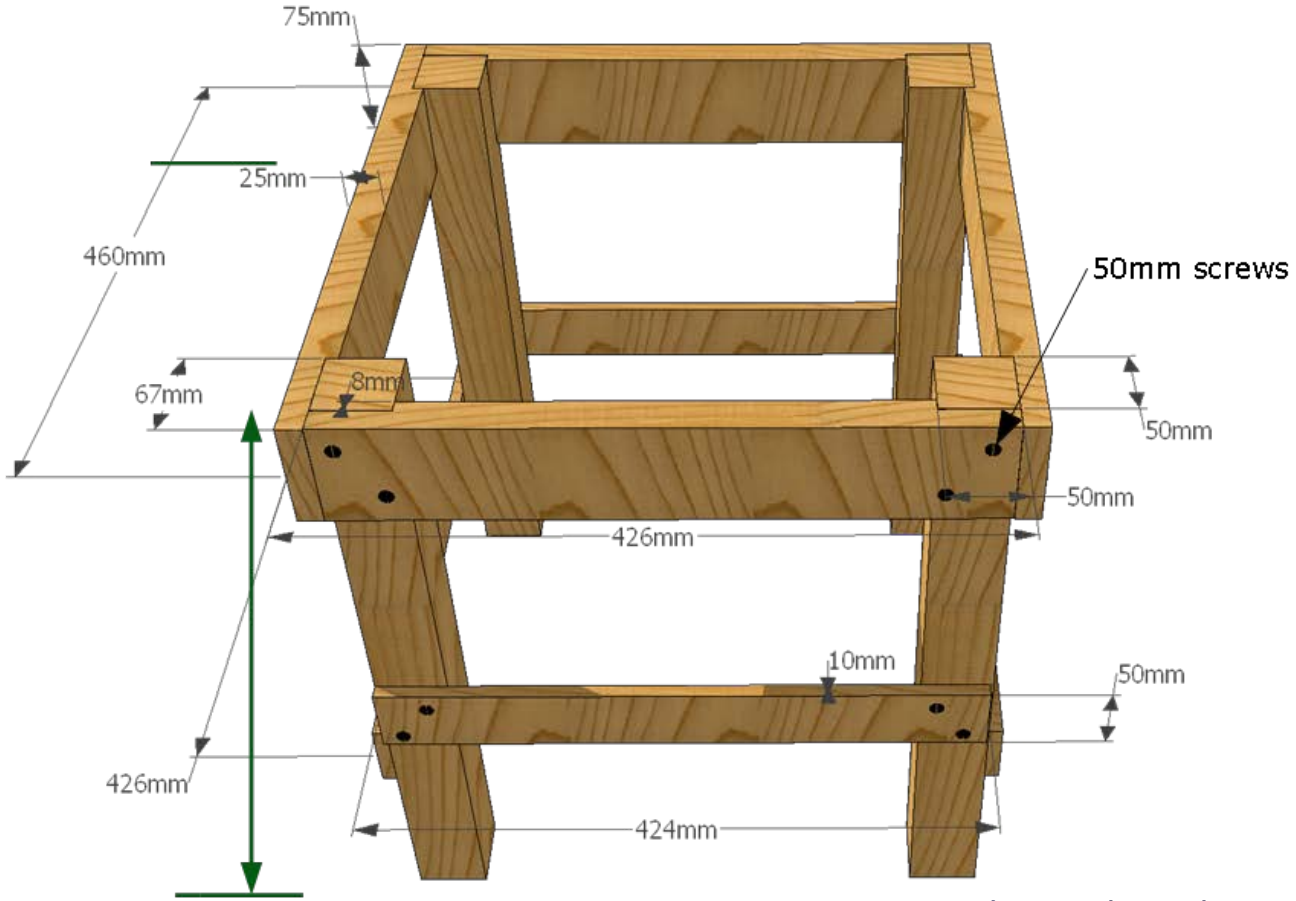


Figure 1 Exploded View

Plan for Single Hive Stand



height from ground 47cm

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