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# DIY SUKKAH MOBILE GUIDE

Easy to follow directions. Shopping  
lists, instructions, diagrams, to  
build a sukkah mobile.



*Happy Sukkot!*  
חג שמח!

# Materials

- **18** 2" x 3" x 8' Beam (we recommend buying extra in case of error)
- **4** 1" x 2" x 8' ft Beam (we recommend buying extra in case of error)
- **1 box** 3" Screws
- **1 box** 1" Screws
- **1 box** Washers
- Drill
- Saw (circular Perferably) or ask your local store to cut them
- **3** 16' Ratchet Straps
- **1** 4'x6' Bamboo Mat
- **1** Banner\* or lattice\*\*
- **3'** Step Stool

\*If you will be building your Sukkah Mobile to the exact measurements that we are doing here we recommend using the banner Merkos 302 designed which is 5'8"x18'. If you will be using that banner then it will be used as the walls as well, almost like a wrap for the sukkah. If you will be making a different size sukkah, then we recommend using lattice as the walls and using the design from Merkos 302 which is split into 3, one for each wall. You would be able to print each sign separately to fit your Sukkah better.

\*\*For lattice you will need roughly 108 square feet to cover all the walls. Depending on what size your store sells them in, is how many sheets of lattice you will need.

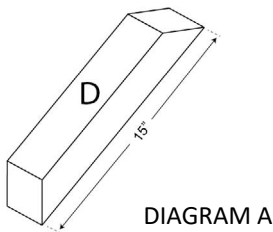
# Pointers to Keep in Mind

- The measurements we will use are measured on a single cab Chevy Silverado from Uhaul with an outer wall bed size of 8' x 5'3". If you will be able to get the same model it will be much simpler to follow the instructions that we have here.
- It is IMPORTANT to keep in mind that we measure the width from the inside of the two side walls. Your truck may be slightly different in measurements. That's ok just adjust the sizes accordingly and remember to always measure the width from the inside of the side walls of the truck.
- Although the bed of this truck is 8' in length, we will only be making the Sukkah 6' long. So even if you have a bed longer than 6' you can make it as we are.
- If yours is less than 6' you will need to adjust the measurements accordingly.

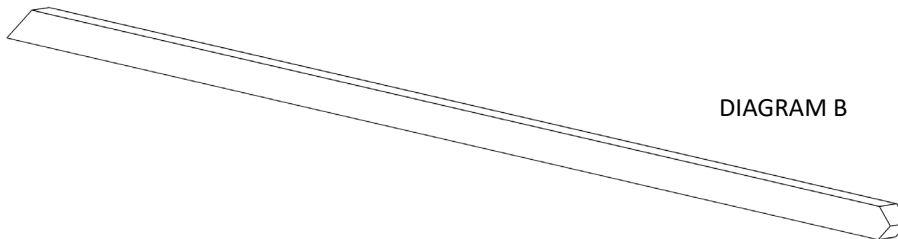
# Step 1

Cut wood (can be done all at once or as you reach them in the order of the steps)

- A. Cut 2 2" x 3" x 8' to 5'3" (length of back frame)
- B. Cut 6 2" x 3" x 8' to 5'5" (height of all frames)
- C. Cut 4 2" x 3" x 8' to 6' (length of side frames)
- D. Cut 12 2" x 3" to 15" on a 45 degree angle (Brackets, you can use the left-overs from A,B, and C) **DIAGRAM A**

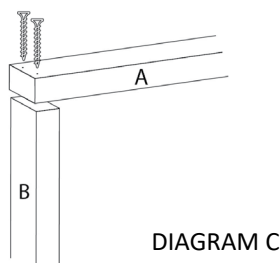


- E. Cut 2 2" x 3" x 8' to 5'9" (crossbeam supports)
- F. Cut 1 2" x 3" x 8' to 5'8" (front upper beam)
- G. Cut 2 2" x 3" x 8' to 5'9.5" (schach beams)
- H. Cut 4 1" x 2" x 8' to 6' (kosher beams)
- I. Cut 2 2" x 3" x 8' on one end, one 45 degree cut, on the other end make 2 45 degree cuts forming a spear-like point (diagonal supports) **DIAGRAM B**



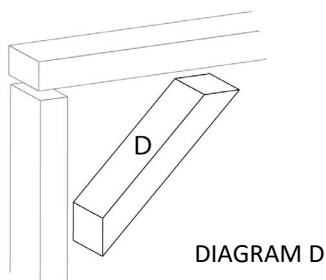
## Step 2 - Back Frame

- Set up the 2 A beams opposite each other and 2 B beams to form a rough frame. **IMPORTANT!** Make sure the B beams are on the inside of the A beams (**DIAGRAM C**). Using 3" screws drill the frame together.



## Step 3 - Bracket Reinforcement

- Add D to each corner with 2 3" screws on each side of the bracket.
- DIAGRAM D**



- The back frame should look as follows: **DIAGRAM E**

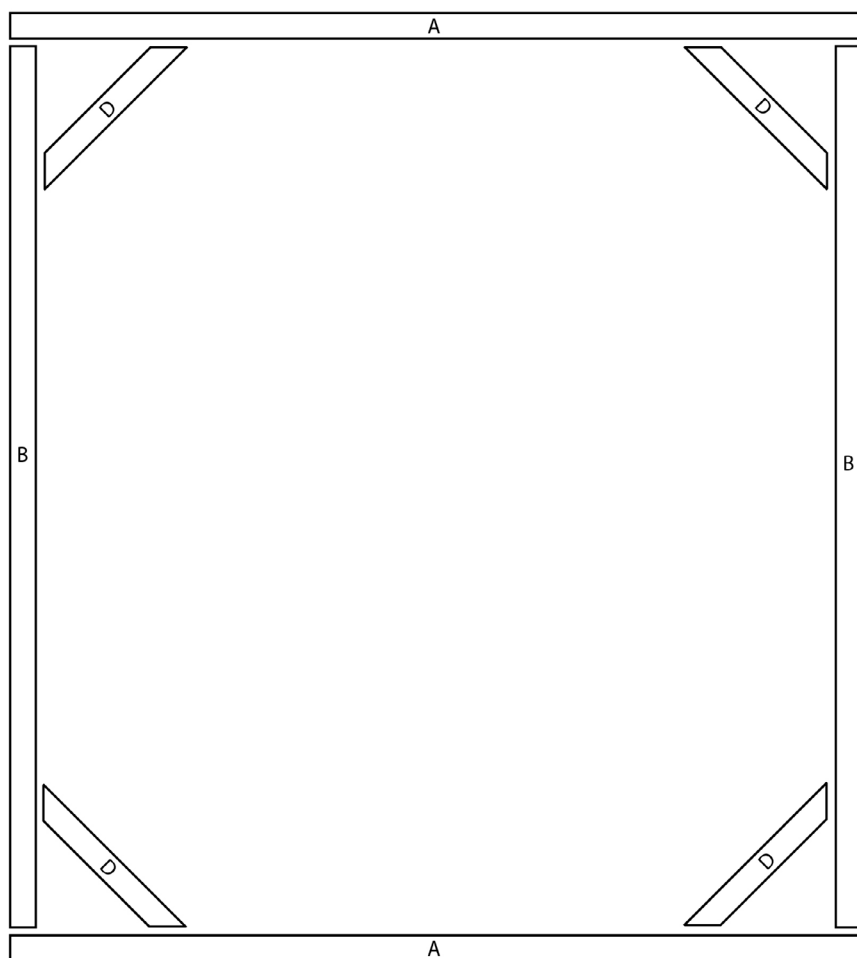


DIAGRAM E

## Step 4 - Side Frames

- Similar to step 2, set up 2 C beams opposite each other and 2 Bs opposite each other to form a rough frame. IMPORTANT! Make sure the B beams are on the inside of the C beams. Using 3" screws drill the frame together.
- Repeat for the 2nd side frame

## Step 5- Bracket Reinforcement

- Add D To each corner with 2 3" screws on each side of the bracket.

**DIAGRAM F**

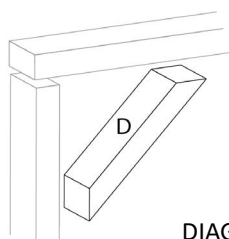


DIAGRAM F

## Step 6- Crossbeam Reinforcement

- Add E to the middle (horizontally) of each of the 2 side frames (from step 4)

- The side frames should look as follows: **DIAGRAM G**
- Please note: This diagram was made without the kosher beams

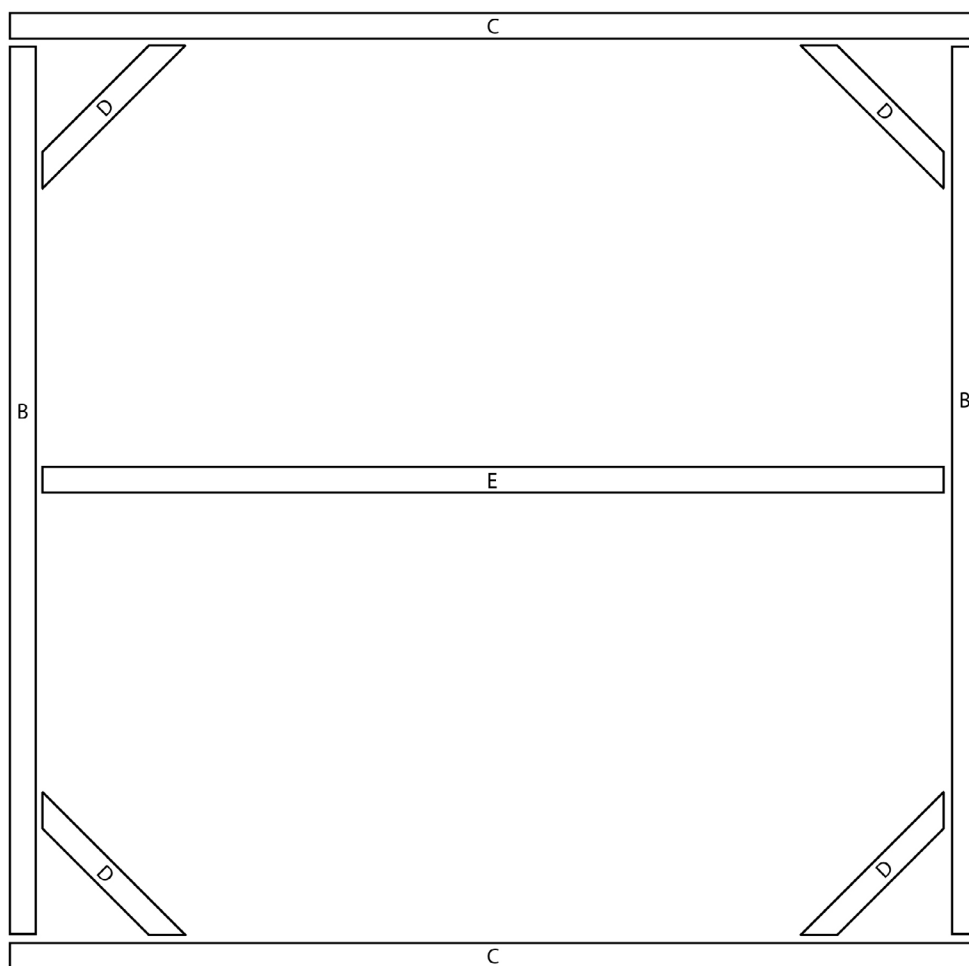
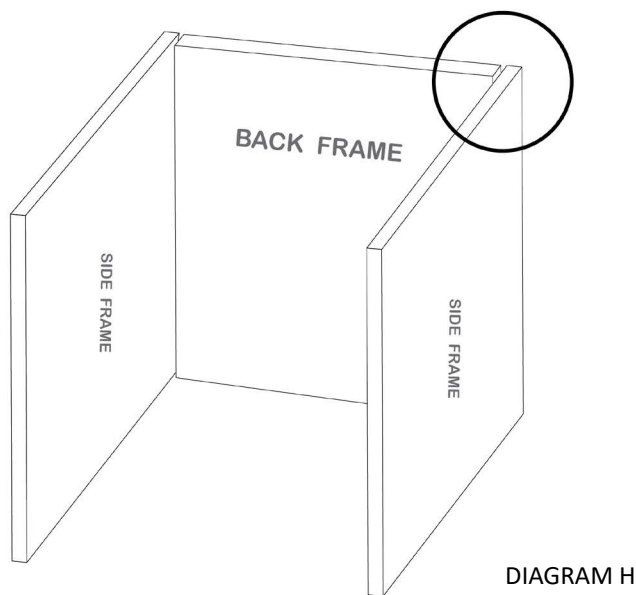


DIAGRAM G



## Step 7- Connecting the Frames

- Connect 1 side frame to the back frame.
- **IMPORTANT!** The back frame should be connected to the **INSIDE** of the side frames. **DIAGRAM H**



- Connect with 3 screws (Top Bottom Middle) from the the back frame to the side frame. Repeat on second side. Remeber the back frame stays on the inside of the side frame.

## Step 8- Front Upper Beam

- Add F to the top of the front of the sukkah to connect the two side frames. Remember to place it on the front part of the sukkah beams and not on the top of the sukkah (**DIAGRAM I**). Use 3" screws.

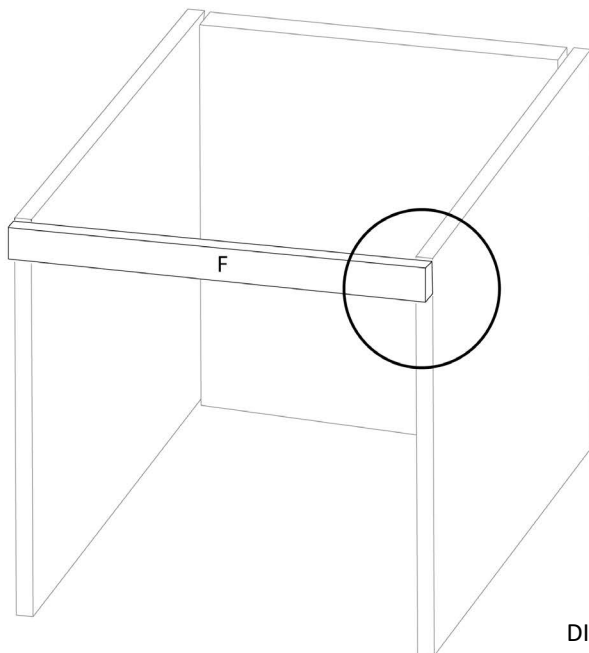


DIAGRAM I

## Step 9 - Schach Beams

- Take G and with 3" screws screw them lengthwise on the top of the sukkah. These beams should fit snugly in between both top beams.

## **Step 10 - Kosher Beams**

- Add 2 H to the bottom of each side frame about 11" apart (to make it a wall halachikly, as advised by Rabbi Osdoba). Place them on the outside of the sukkah walls. Use 1" screws as well as a washer to drill in the screws to prevent the wood from cracking.

## **Step 11 - Banner/Lattice**

- Add a banner or lattice to the walls. If you will be using a banner, drill in 1" screws together with the washers. Make sure to pull the sign tightly before drilling each screw to ensure that it will be flat without creases along the sides. This will prevent unnecessary flapping in windy weather and while you are driving.

## **Step 12 - Placing the Sukkah on the Truck**

- You will need another pair of hands for this. It can be done with 2 people, although it is easiest with 4 adults. The sukkah will be sitting on the walls of the bed of the truck.

## Step 13 - Securing the Sukkah to the Truck Part A

- Take 1 ratchet strap set. Separate both ends.
- With the strap end take the hook and place it on the hook in the truck which is closer to the door of the bed.
- Take the strap and place it over the bottom beam of that side and under the banner or lattice.
- Pull the rest of the strap all the way through.
- Take a spare beam and tie the end of the strap to one side of the beam.
- Use the beam to feed the strap through the bottom of the truck.
- With this end of the strap, put it under the sign and over the bottom beam of the sukkah just as on the other side.
- With the ratchet part of the ratchet strap set, hook the end into the hook at the opposite side of the truck
- and now place the strap through the ratchet and ratchet until it is tight.
- Make sure the strap is flat on all surfaces.
- Take the 2nd and 3rd ratchet sets and separate both parts of each ratchet.
- Take both of the strap parts and place them each over the top side beams connecting them in the middle above the schach beams.

- Make sure the remaining strap is on the inside of the banner until the strap passes the outside of the crossbeam.
- Before it reaches the kosher beams bring the rest of the strap inward.
- Place both ratchet ends of the set to the hooks in the corners of the bed which are closer to the cab.
- Connect each strap to its ratchet and tighten.

## **Step 14 - Securing the Sukkah to the Truck Part 2**

- Add I. Place the spear-like end into the corner of the truck bed and truck-bed door (while door is closed). Match the other end of the beam to the crossbeam in middle of the side frame. With 2 3" screws drill into the crossbeam and another 2 screws into the bottom beam of the Sukkah. Repeat on the other side frame. (If you have shorter than an 8' bed the diagonal support can be adjusted to reach the back beam. In that case drill it into the back beam as well).

# Wood Measurements

Wood Measurements Back/Width Frame		
	Size	Amount
LENGTH	5.3'	2
HEIGHT	5.5'	2
BRACKETS	15"	4

Wood Measurements Side/Length Frame (x2)		
	Size	Amount
LENGTH	6'	2
HEIGHT	5.5'	2
BRACKETS	15"	4
CROSSBEAM	5'9"	2
KOSHER (1"x2")	6'	4

Additional Wood Measurements		
	Size	Amount
FRONT UPPER BEAM	5'8"	1
SCHACH BEAM	5'9.5"	2
DIAGONAL SUPPORT BEAM	8'	2

If you live in the tri-state area we encourage you to do it through the Mitzvah Tank Org. and get a Sukkah mobile to come to you all packed with bochrin sukkah speaker etc. You can reach them by texting 718-804-0077 or email [shluchim@sukkahmobiles.org](mailto:shluchim@sukkahmobiles.org). As well as by clicking this link: <https://forms.gle/a89qRKCFx6XST6Pc8> .

