

Assembly Instructions: Fiberglass Table Top Lab Frame Kit, 4 Foot

Tools needed:

- Pencil or other removable marker
- Straight edge
- Tape measure or ruler
- 12 Screws, #8 countersunk head, appropriate for the table top material, i.e. wood screw, sheet metal or machine screws/nuts (screws are not provided with this kit).
- Drill
- Drill bit sized for the screws you are using
- Screwdriver to fit the screws you are using
- 3/8" wrench (or adjustable wrench)
- 1/8" Allen wrench (included with kit)

Components Included:

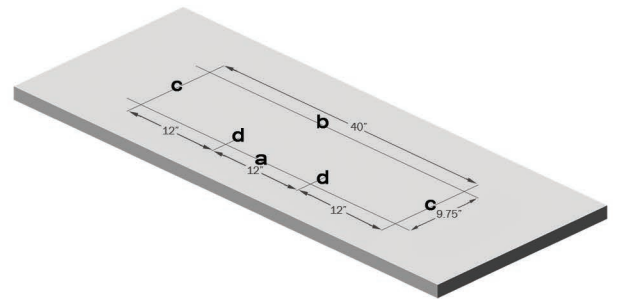
- (4) 36" Fiberglass Rods
- (4) 38" Fiberglass Rods
- (2) 24" Fiberglass Rods
- (2) 4" Fiberglass Rods
- (18) Closed Connectors
- (6) Vertical Base Plates



**Note: This kit was designed to allow a one-foot grid spacing. The grid spacing can be changed to suit your needs. If you need a denser grid spacing you can order extra rods, connectors and base plates by going to www.engineeringbylee.com or calling 844-781-5080. Do not overtighten the screws or it will crack the plastic.*

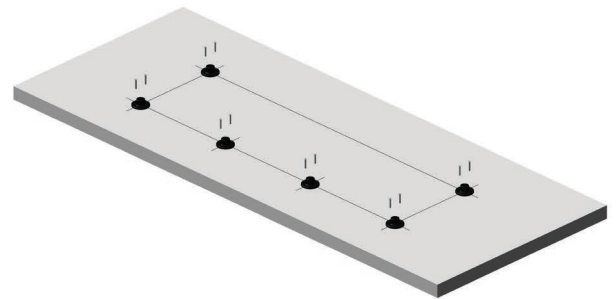
Step 1: Mark the locations of the vertical bases

- First, draw a straight line about 40" long on the table top, parallel to the table edge from left to right. This line will be the front of the lattice frame.
- Next, draw a second straight line from left to right on the table top 9-3/4" in back of the first line you drew. This will be for the rear support bases.
- Next, draw two perpendicular lines about 14" long, 36" apart for the left and right vertical rods, centered over the two lines drawn above.
- Next, draw two lines about 4" long perpendicular and centered to the front line every 12" on the front line.



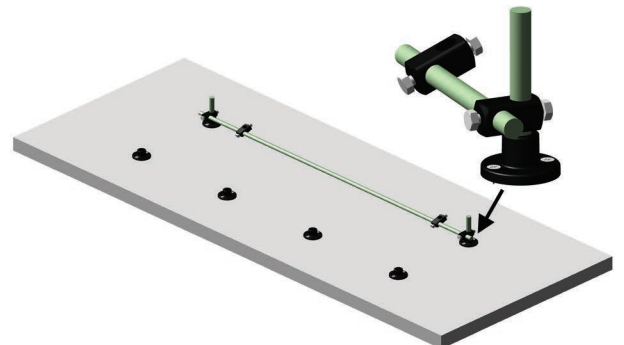
Step 2: Mount the six vertical base plates to the table top

- Center the base plates over the lines.
- Drill the appropriate diameter and depth of hole into the table top in the center of each screw hole.
- Before mounting the bases erase the alignment marks on the table top.
- Install the screws and tighten.



Step 3: Install the rear support

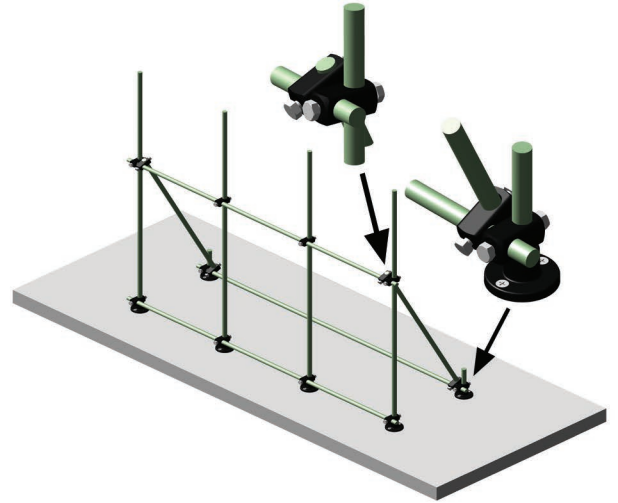
- Back out the setscrews in all the bases to allow the rod to slip thru them.
- Install the two 4" rods into the rear bases (Do not tighten set screw at this time).
- Slip four connectors onto one 38" rod.
- Using the two outer connectors, attach the 38" rod so it is in front of the 4" rods, slide the connectors all the way down on the 4" rods until they rest against the bases, center the 38" rod and use a 3/8" wrench to tighten the two screws on each of the two outer connectors.
- Use the supplied 1/8" Allen wrench to tighten the setscrews in the two rear vertical bases.



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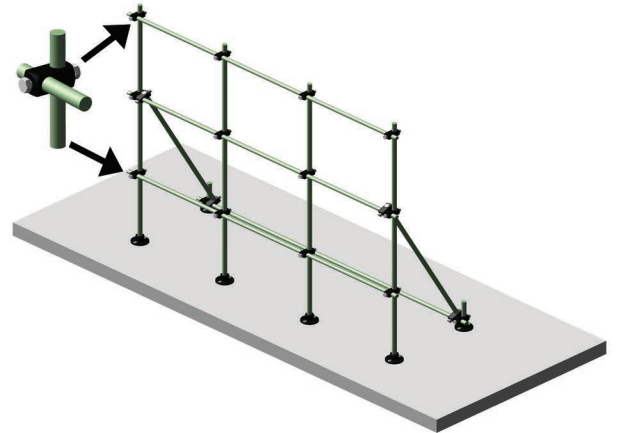
Step 4: Install the center horizontal rod

- Make a pencil mark at $10\text{-}\frac{7}{8}$ " , $22\text{-}\frac{7}{8}$ " and $34\text{-}\frac{7}{8}$ " on four 36" rods.
- Install the four rods into the front bases so the $34\text{-}\frac{7}{8}$ " mark is at the top.
- Use the $\frac{1}{8}$ " Allen wrench to tighten the setscrews in the four front vertical bases.
- Slip a 38" rod thru four connectors and place on the vertical rods with the horizontal rod in front of the vertical rod and slide all the way down for now. Do not tighten screws.
- Slip six connectors onto a 38" rod.
- Using the center two and the outer two connectors on the 38" rod, slide onto the four vertical rods and temporarily slide all the way down. Use the $\frac{3}{8}$ " wrench and tighten ONLY the front screws on the connectors to lock the spacing between the vertical rods.
- Now lift the center rod evenly so the $22\text{-}\frac{7}{8}$ " pencil mark is even with the top of the connector. Adjust the four rods so they are square to the table and tighten the rear screws on the connectors using a $\frac{3}{8}$ " wrench.
- Use the two 24" rods as a brace to fit between the rear rod and the center rod. *Note the position of connectors as shown in the drawing. Adjust the vertical rods so they are square to the table and use $\frac{3}{8}$ " wrench to tighten the screws.*



Step 5: Install the bottom and top horizontal rod

- Position the bottom horizontal rod you installed in step 4c so the $10\text{-}\frac{7}{8}$ " mark is even with the top of the four connectors and use the $\frac{3}{8}$ " wrench to tighten the screws on the connectors.
- Slip a 38" rod thru four connectors and place in front of the vertical rods near the top.
- Position the rod so the $34\text{-}\frac{7}{8}$ " mark is even with the top of the four connectors and use the $\frac{3}{8}$ " wrench to tighten the screws on the connectors.



Step 6: Final step, check your work

- Check that all rods are straight, level and plumb. Adjust as necessary.
- Double check that all setscrews, connector screws and base screws are tight. Do not overtighten or you may crack the plastic.