



Do my own millwork or buy millwork?

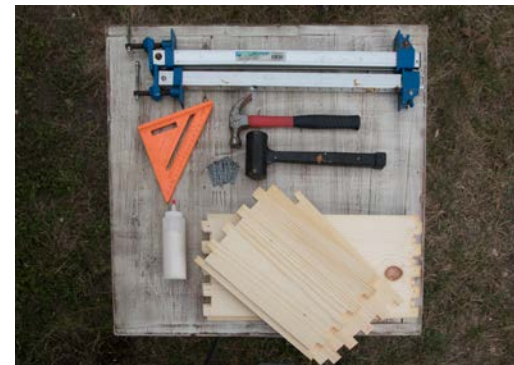
- Wood for boxes from the home repair store costs as much or more than pre-cut pieces. Millwork needs to be very precise.
- Frames require a lot of cuts (a lot of time) and are cheap (under \$1 each)
- Tops and bottoms require less precision
 - Typically offered as assembled (millwork not available)
 - Migratory style tops are not much more than exterior grade plywood
 - Bottom boards can be made from fence pickets or other scrap material

Why assemble my own equipment?

- Components cost about half of the cost of assembled equipment (fasteners, glue, paint add additional expense)
- Better assembled equipment
 - High quality waterproof glue
 - Well glued components
 - Nailed boxes vs stapled
 - Properly primed and painted boxes
- Availability of wax foundation (not readily available in assembled equipment)

Tools for assembling boxes

- Hammer
- Mallet
- Carpenters Square
- Bar Clamps
- Nails
- Glue



Apply glue

- Liberally apply glue
 - Titebond III - waterproof



Fit pieces together

- Clamps greatly simplify keeping the box square



Tighten joints

- Use a mallet or dead blow hammer to close up joints
- Check that box remains square



Nail box together

- Use 7D nails
- Nail (4) nails into one side
- Rotate and nail (4) into opposite side
- Check box remains square
- Remove clamps and continue nailing
- Continue checking for squareness



Complete nailing and allow glue to dry

- Finish nailing joints
- Use finishing nails in upper rabbet joint



Primer and paint

- Apply 1 coat primer & 2 coats paint



Tools for assembling frames

- Hammer
- Carpenters Square
- Nails
- Glue
- Optional
- Pliers
- Frame Wire
- Staples or Eyelets



Apply glue and loosely assemble

- Apply to both end bars and both ends
- Loosely assemble frame



Nail bottom bar

- Put (2) 1 ¼" frame nails in each end of bottom bar



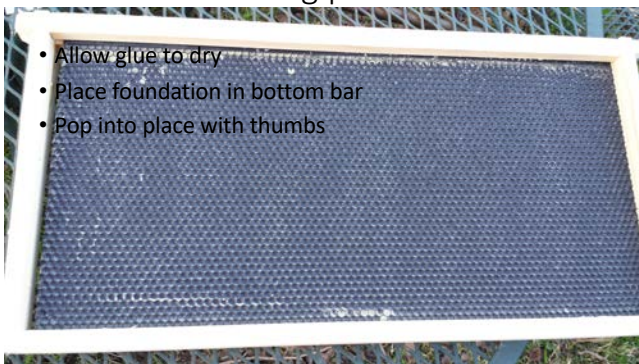
Nail top bar

- Put (2) 1 ¼" frame nails in each end of top bar
- Check that frame is square



Installing plastic foundation

- Allow glue to dry
- Place foundation in bottom bar
- Pop into place with thumbs



Preparing for wax foundation – wiring frames

- Staples or eyelets
- Cross wiring



Installing wax foundation

- Wedge is removed, hooks positioned and wedge is nailed in place



Questions?



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