

## LOFT BED

EYES FOR THE JOB- EPISODE 209.2

'KIDS, KIDS, KIDS'



### MATERIALS NEEDED

#### **ALL TIMBER IS ROUGH PINE**

- 28 feet of 6x6 for posts
- 12 feet of 2x13 for Fibonacci slats
- 12 feet of 2x5 for Fibonacci slats
- 12 feet of 2x2 for Fibonacci slats
- 12 feet of 1x2 for Fibonacci slats
- 24 feet of 2x5 for stretchers and ribs
- 16 feet of 2x4 for stretchers and ribs
- 8 feet of 2x10 for stretchers and ribs
- 75 feet of 1x4 for slats
- 16 feet of 1x8 for side table
- 24 feet of 2x4 for table
- 20 feet of 2x5 for ladder
- 1x6 steel straps for ladder
- ½" x 6" zinc coated hex bolts
- Nuts and washers
- ½"x4" zinc coated hex lag bolts
- Citric acid for stripping zinc from bolts (blackening)
- Castile soap for finish

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### STEP BY STEP BUILD PLAN

1. Prep
  - a. Strip zinc from all bolts, nuts, and washers by soaking in citric acid solution for 48 hours
  - b. Rub all hardware with mineral oil when they're done soaking
  - c. Make castile soap finish by mixing soap flakes with hot water
2. Cut all lap joints
  - a. Kerf dados with a circular saw
  - b. Remove waste with a hammer
  - c. Smooth dado floors with a chisel
3. Cut post and beam timbers to length
  - a. Cut an arc in the rib
  - b. Laminate 2x4 slat support to 2x5 beams with glue and screws
4. Dry fit all pieces of the bed
  - a. Assemble the main structure of the bed
  - b. Mark locations of where the bolts will be
  - c. Counterbore for head and nut washers using the Forstner bit
  - d. Bore holes for the bolts using an auger
  - e. Assemble with hardware but don't tighten
  - f. Cut joinery for the rib- you'll basically be cutting a notch
5. Make slats
  - a. Cut the slats to length
  - b. Drill countersunk holes- 6 per slat
6. Build the side table
  - a. Cut 2x8's to length for the table top
  - b. Assemble a box stretcher system
  - c. Mount the table top to the stretcher using pocket screws
  - d. Sand the top of the box more thoroughly

7. Build the ladder
  - a. Determine the slope you'd like your ladder to be
  - b. Layout dados on stiles using a speed square
  - c. Kerf and cleanout waste as above
  - d. Cut to length
  - e. Cut 5" plumb line at the top
  - f. Cut rungs to length
  - g. Sand rungs extra smooth
  - h. Layout lag bolts, and counterbore for washer head
  - i. Assemble the ladder using glue and bore holes for lag bolts
  - j. Install lag bolts
  - k. Attach the strap to the top, making sure the strap spacing matches the slat spacing
8. Finish
  - a. Disassemble all joints excluding the ladder
  - b. Rub on soap finish
  - c. Rub off soap finish
9. Put bed back together
  - a. Tighten all joints with an impact driver