## TREEHOUSE EYES FOR THE JOB- EPISODE 306.2 'WHAT GOES UP...'



## MATERIALS NEEDED

Eight GRK RSS 1/4" x 6" Sixteen 2"x6"x8' Tree Mount Eight GRK RSS 3/8" x 2" Twenty 5/4"x6"x8' PT Eight 2"x4"x8' PT Five hundred 3" #8 deck screws Eleven pieces of 2"x4"x8' spruce Four 1"x6"x8' fence boards Four pieces of 2"x4"x8' PT Seven pieces of 2"x4"x8' PT Seventeen pieces of 1"x6"x8' Fence boards PT One Thousand 2" #8 decking screws Twenty Four 1"x6"x8' Fence boards PT Five Hundred 1 1/2" #8 decking screws Ten joist hangers 2 x 6

TOOLS NEEDEDCircular sawCircular saw guideDrillDrillDrill bits1 1/8" Auger BitChalk lineHammersLevels - 48" and 24"Squares - Speed square and framing squareSocket set for lag screwsTwo Impacts drivers with 1 of the socket attachmentDriver bitsLaddersMeasuring tapes



## **STEP BY STEP BUILD PLAN**

## 1. Floor Assembly

- a. First, the tree is selected -16" to 24" in diameter is preferable.
- b. Drill a 1 1/8" hole through centre of the tree six feet off the ground.
- c. Insert 1" steel rod through tree leaving an even amount on each side. Install a flat washer and cotter pin on each end in pre drilled holes.

- d. Centre 2" x 6" x 8' beam on steel rod. Place the rod bracket over the rod and fasten it to 2 x 8 using 3/8" x 2" GRK RSS screws. Repeat on the other side of tree. Cut blocking to go between the beams to keep it parallel and flush. 3 pieces in each side. Level the beam and brace it back to the base of the tree temporally.
- e. Install the first two joists on either side of the tree, at least 3" from the tree and perpendicular to the beams
- f. Screw together the perimeter structure of the tree house, 8' x 8', with six pieces of 2 x 6 approximately 8' long. Starting with two 2 x 6's at the beam frame ends. Double up 2" x 6"'s on joist ends for stability. Use joist hangers on all joists except the end joists.
- g. Add 2 x 6 joists to complete the floor structure. Screw into the beam frame and the perimeter structure.
- h. Make 4 diagonal supports by screwing together two 2 x 4's by 8' to make a strong back
- i. Screw diagonal supports to each corner of the floor frame and to the base of the tree trunk.
- 2. Ladder Assembly length of the ladder may vary depending on sloping ground.
  - a. Using one piece 2x4x8' temporarily screw it to one corner of the finished floor frame and the rest on the ground at 30 degree angle.
  - b. Mark a vertical line at the edge of the floor framing on the ladder stringer. Mark a horizontal line on the ladder stringer on the ground.
  - c. Remove the ladder stringer from the floor framing and cut at the marked lines.
  - d. Mark a horizontal line with a level on a stringer 6 5/8" from the top of the floor framing.
  - e. Trace all marks on the ladder stringer shape on 2x4x8' (the second ladder stringer).
  - f. Cut nine 2x4x18" ladder treads.
  - g. Screw the top ladder tread to ladder stringers.
  - h. Screw the ladder assembly to the floor frame.
  - i. Screw the remaining ladder treads to stringers 6 5/8" apart vertically.
- 3. Floor Sheathing and Decking
  - a. Cut 1x6x8' to fit floor framing.
  - b. Starting at one edge, screw 1x6 into the floor framing perpendicular to the floor joists.
  - c. Continue installing 1x6 across the floor framing to complete. Trim the final board to suit floor dimension.
  - d. Floor sheathing around the tree trunk to be cut leave 1" gap between floor boards and trunk.
- 4. Upper Structure Assembly
  - a. Make five pieces of 2x4x3' 10" for railing support.
  - b. Screw in railing supports.
  - c. Make four pieces of 2x4x6' for low roof edge support.
  - d. Screw in low roof edge supports.
  - e. Make two pieces 2x4x8' for high roof edge support.

- f. Screw high roof edge support.
- g. Make top railing from 1x6x8'.
- h. Screw the top railing to railing supports and roof supports should be 42" above treehouse floor.
- i. Make four roof support beams from 2x4x8'.
- j. Screw roof support beams to roof edge support, two at 6' high and two at 8'.
- 5. Ladder Railing Assembly
  - a. Make two pieces of ladder railing support 2x4x1' 6 1/2".
  - b. Screw to ladder stringers.
  - c. Make two pieces of 2x4x7' for ladder railings.
  - d. Screw to upper railing and lower railing supports as noted on sketch cut ends of railing and railing support once installed as noted on sketch.
- 6. Roof Assembly
  - a. Make seven pieces of 2x4x6' 9" for roof rafters save cut off for blocking.
  - b. Screw roof rafters at 16" on the centre, with 1' overhang at high roof edge.
  - c. Screw blocking 2x4x1' 3" to midspan off roof rafters staggering each block.
  - d. Cut 1x6x8' to fit roof framing.
  - e. Starting at the low roof edge, screw a 1x6 to roof framing perpendicular to roof rafters.
  - f. Continue installing 1x6 across roof framing to complete trim the final board to suit the roof's dimension.
  - g. Roof sheathing around tree trunk to be cut to meet conditions leave 1" gap between roof boards and trunk.
- 7. Railing & Peek-a-Boo Blind
  - a. Make railing spindles from 1x6x8'
  - b. Screw railing spindles maximum spacing 4" between spindles.
  - c. Make screen spindles from 1x6x8'
  - d. Screw screen spindles maximum spacing 1" between spindles.