

## **LUMBER STORAGE**

**EYES FOR THE JOB- EPISODE 201.1**

**'MAKIN' IT WORKSHOP'**



### **MATERIALS NEEDED**

3 pieces of G1S 1/2" plywood

2 pieces of G1S 3/4" plywood

Twenty-one 1/2"x6" concrete anchors

GRK RSS 2" screws

GRK 1 3/4" screws

120 feet of 2x4 pine

40 feet of 2x4 pine

48 feet of 2x6 pine

1/2"x4' threaded rod

16 nuts

16 washers

1 cut off wheel for grinder

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### STEP BY STEP BUILD PLAN

1. Build a frame
  - a. The measurements will depend on your needs and the location
  - b. Lay the top and bottom 'plates' side by side
  - c. Use a measuring tape on the horizontal plates to determine where each vertical stud will go
  - d. Lay the studs vertically between the top and bottom plates so they line up with the marks
  - e. Attach the studs to the plates by screwing through the plate into the top and bottom of each stud
  - f. Pre-drill 2 holes in the end of each stud closest to the walls. The holes should be about 4-6" from the top plate, and 4-6" from the bottom plate
  - g. Use a forstner bit to drill roughly ½" deep into the stud where the holes for the bolts will be. This is so the nuts can sit inside the studs.
  - h. You can now raise the unit and place it against the wall. Use a concrete drill to drill through the holes in the studs into the concrete. You can install the nuts and bolts that will keep the unit in place.
2. Make gussets
  - a. Cut your plywood gussets at the desired depth and style. Cut enough gussets for each stud that will be bearing weight. This includes the brackets for the work bench.
  - b. Cut 2x4's to match the length of your gussets
  - c. Sandwich cut 2x4's between two gussets and screw them together.

- i. Remember, the plywood portion of the gussets will extend back past the stud to the wall, while the 2x4 cut for the middle will be shorter by the depth of the wall stud
- d. Cut additional plywood gussets at a longer length. Repeat the 2x4 sandwiching step, and attach them lower down the studs to accommodate a work surface.
  - i. Since this unit is designed to be wheelchair accessible, the middle portion of the work surface will be roughly 6-8" lower to accommodate a mitre saw.
- e. Cut  $\frac{3}{4}$ " plywood to the size of the lower accessible portion, and screw into place as a work surface.
- f. Repeat this step with the rest of the work surface.