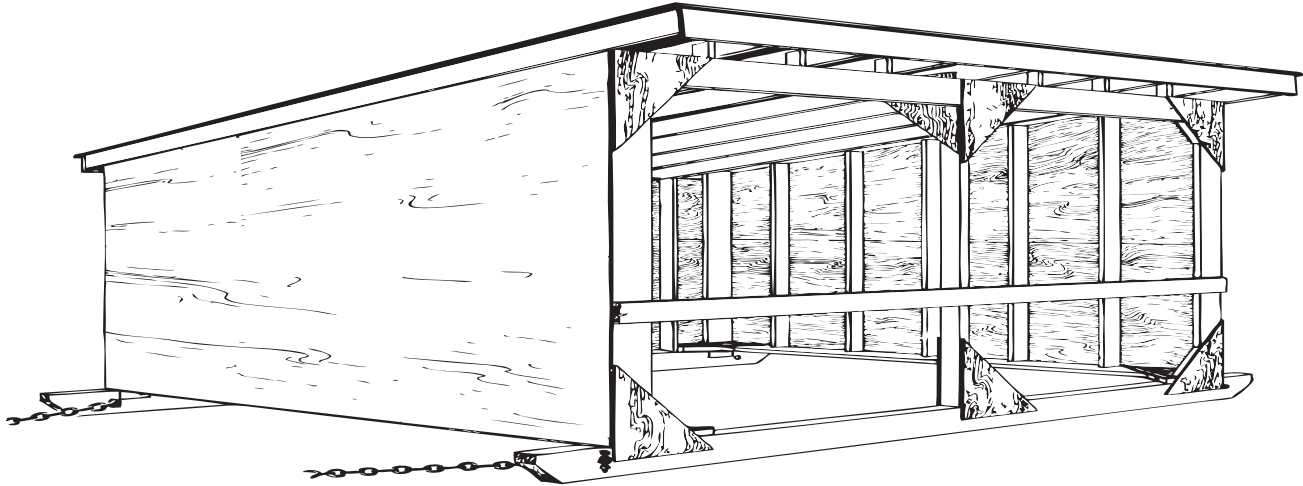


12 x 16 calf shelter



12' x 16' calf shelter by Todd Larson

Materials:

- 2 = 5" x 6" x 18' green treat (skids)
- 5 = 2" x 8" x 16' (top beam & cow stopper) (side sills & back corner studs) (front corner studs)
- 5 = 2" x 4" x 8' (back wall studs = 38" long) (and center post)
- 2 = 2" x 4" x 10' (side wall studs)
- 3 = 2" x 4" x 12' (side wall studs & rafter tie blocks(12"))
- 2 = 2" x 4" x 16' (top plate(15' 10") and bottom sill(175.5") back wall)
- 9 = 2" x 6" x 14' (rafters)
- 2 = 1" x 8" x 16' (face boards for rafters front and back)
- 13 = 4' x 8' osb sheeting
- 1 = 4' x 8' x 5/8" green treat plywood (gussets) I cut these in 16" squares split diagonally
- 4 = Liquid nails
- 2 = bags sheet metal screws
- 4 = 12' Sheet metal (sides)
- 2 = 16' sheet metal (back)
- 5 = 14' sheet metal (roof) (must fill in with scrap left over 8" or so)
- 2 = 14' sheet metal corners
- 2 = 10' sheet metal corners
- 4 = 8" x 3/8" carriage bolts with washers and nuts (chains on skids)
- 4 = short chunks of chain to bolt to skids
- 12 = 4" long lag bolts to bolt down to skids (pay attention to front side corners most)

Notes:

Gusset rafters in back, front top beam, corners to skids in front and everything else you can think of including horizontally in the corners and center post top and bottom as shown above.

Studs are 24" on center...line up under the rafters in the back

Notch side studs 1.5" with an angle of 9.6 deg. (measurements (ss) denotes short side of angle.) Cut 5" longer to extend onto inside of rafter.

You will need some sort of scrap wood to nail between rafters in the back to keep out the wind.

2" x 4" x 12" long rafter tie downs in the front. (nail to top beam and rafter)

Frame slightly less than 16' so roof sheeting will overhang each side then you must frame end walls and rafters from the center-out, unless you use sheet metal corners then this is unnecessary to overhang sides.

