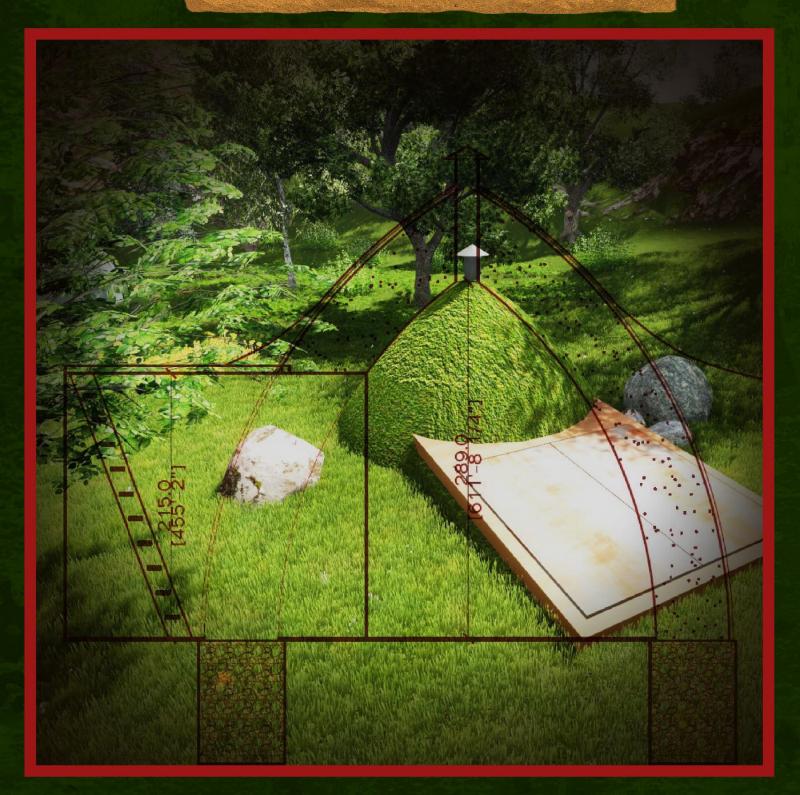
ULTMATE 90 SQ FT ROOT CELLAR

• FOR ONLY \$90





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Building Supplies List

The square footage of root cellar will be 87 square feet, 6.56 ft tall, and 6.56 ft deep below the ground level.

You'll find below a supply list along with some links and current prices so that you can get what you need.

Adapt this list according to any modifications in size or amenities that you make.

REQUIRED BUILDING MATERIALS

- 300 standard polypropylene bags (15" \times 27") price: \$0.30 per empty bag (\$300 for 1000 pieces), or \$3.50 per piece for filled bags (www.nmdirtbags.com)
- Material for filling the bags if you buy them empty (each bag could be filled with 50 kg of composite - earth, sand or gravel (www. nmdirtbags.com)
- Pressure-treated lumber (2x4) pieces of 2" x 4" x 16 ft overall current price: \$7.5-\$8 (www.lowes.com)
- Basement stairs current costs starting from \$250 for a DIY basic steps project
 - Plastering to cover the walls 650 ft
- Barbed wire approximately 850 ft current price: \$50 (www. homedepot.com)
 - Chicken wire to layer the outer walls current cost \$20 (www.amazon.com)
 - · Concrete for a 20" layer on the outer walls
 - One root cellar door 86" x 70"
- Door frame anchors current price: \$0.04 \$0.08 each (www. alibaba.com) (Or you may use pieces of wood with threaded rod screwed into them)



- Silicone sealant price: \$4 (www.homedepot.com)
- Ball of string 190' length roll current price: \$5 (www.amazon. com)

Most of these materials, with the exception of the bags, are fairly easy to find used (check sites such as freecycle.com and craigslist.org) so you could significantly reduce your cost to build your fortress if you go that route.

In theory, if you find and repurpose the building materials for free and dig your own composite material to fill the bags, you could build this fortress, exactly as designed, for about \$90.

REQUIRED TOOLS

- · Tape line
- Water Level
- Tamper
- Metal plate
- Plastering tools

ANNEX

Print and use the following plans and figures in order to build your earth bag root cellar. The following plans relate to:

Plan 1 - Front view

Plan 2 - Side view

Plan 3 - Cross section plan

Plan 4 - Ground floor plan

Also, print and use the pictures with brief Step-by-step instructions in order to see the basic techniques that you need to follow when building your root cellar.

Keep in mind to apply these techniques depicted in Step-by-step instructions to the exact measures of the root cellar that you are actually building.



Plan 1 - FRONT VIEW

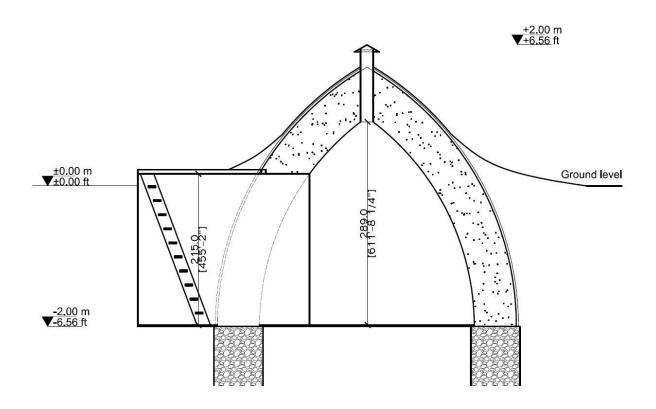


Plan 2 - SIDE VIEW

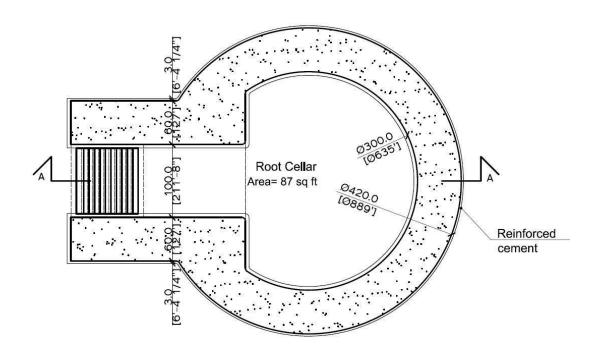




Plan 3 — CROSS SECTION PLAN



Plan 4 - GROUND FLOOR PLAN





STEP BY STEP INSTRUCTIONS

