

Safe, Warm, Easy to build

Winter Shelter



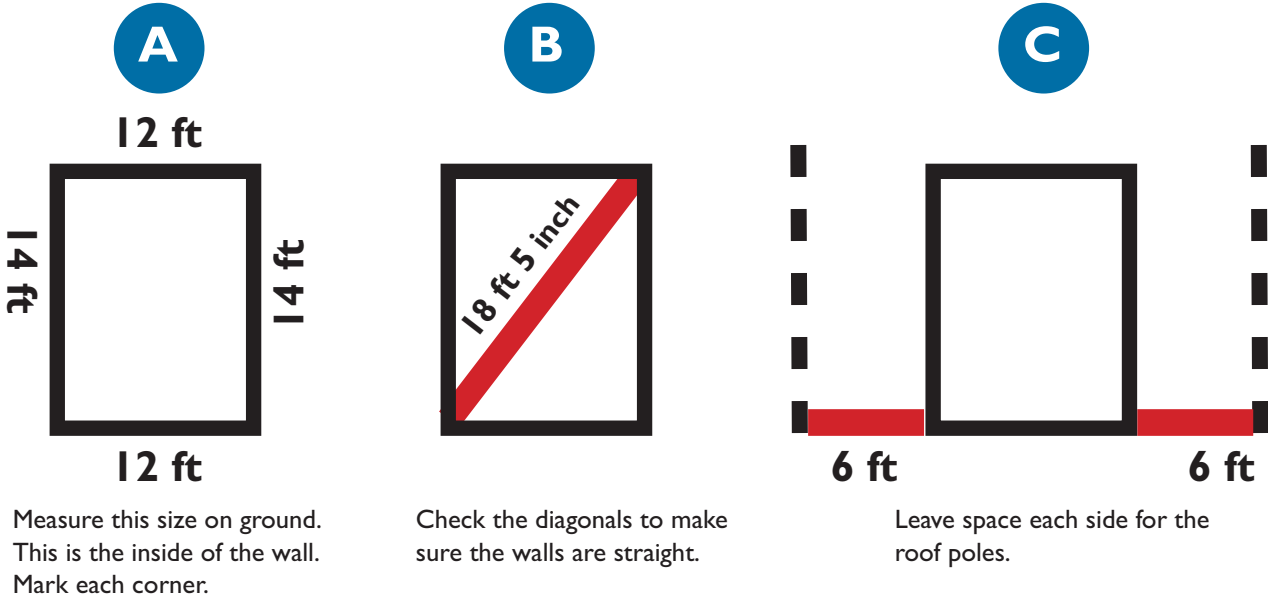
How to Plan

This shelter can be made quickly.

Choose a site with protection from wind.
Plan for the door to face the sun.

It is important to protect the shelter from aftershocks, cold and wind. Please carefully follow all the details shown below to make sure the shelter is safe and lasts for the winter.

Start by filling the sandbags so that the wall can be made.



Making the Walls



Fill the bags with dry earth. No large stone. Bags must be only half full.



Lay the bags flat and level, with no gaps.



Fold over the top of the bag.



After 2 courses lay a full sheet of shelter plastic for floor.



Fix the door in place so the wall can be built around it.



The wall should be maximum 3 feet high.



One bag should overlap the other.



Vertical joints are dangerous. The wall may fall over.



Lay barbed wire between the courses to tie the wall together.

Making the Roof



The roof is made from 6 bamboo or timber trusses.



Joints should be nailed and also tied with rubber or wire.



A ridge pole ties the trusses together and holds them in place



After the trusses are fixed, cover the roof with shelter plastic.



Tie down the roof with rope or wire. The wire should be laid in wall from the base.



Fix 4 purlins for the CGI sheets. Sheets are 10 ft long.



Fix kera mats or other insulation between the purlins.



Fix shelter plastic at the gable. Insulate inside and fix another sheet of plastic.



Fix CGI well against wind. Make sure roof poles are also well fixed on the ground.

Fixing and Finishing



Do not nail plastic sheeting it may rip, always fold it and use a washer.



Fix the door in the wall with a steel strap.



Protect a stove with a reproof surround. Take care with fire in all tents and shelters.



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