

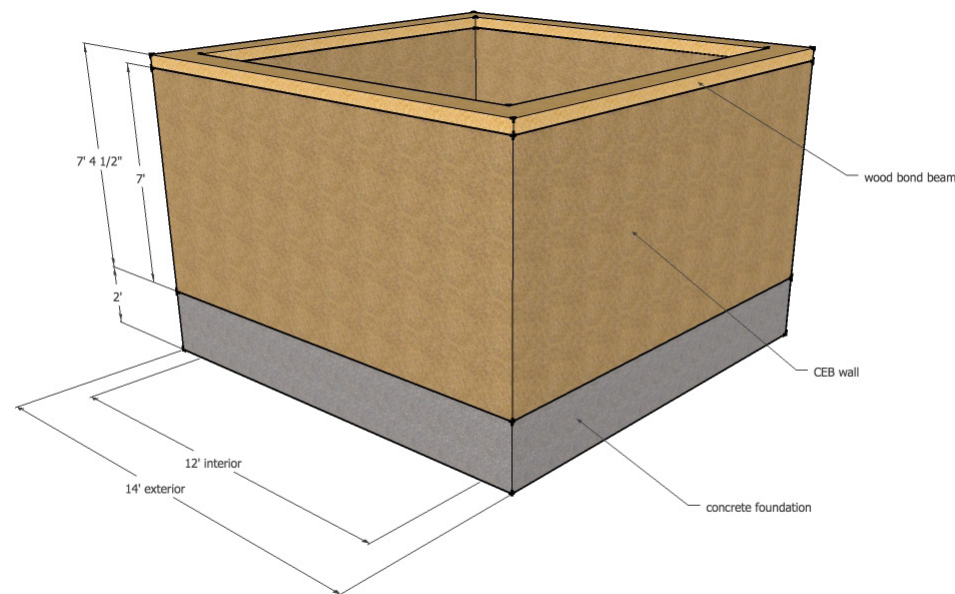
Direct Gain Passive Solar

According to The Green Studio Handbook, design .2-.4 sf of solar glazing for every sf of heated floor area.

$$144 \text{ sf} \times .2 = 29 \text{ sf}$$

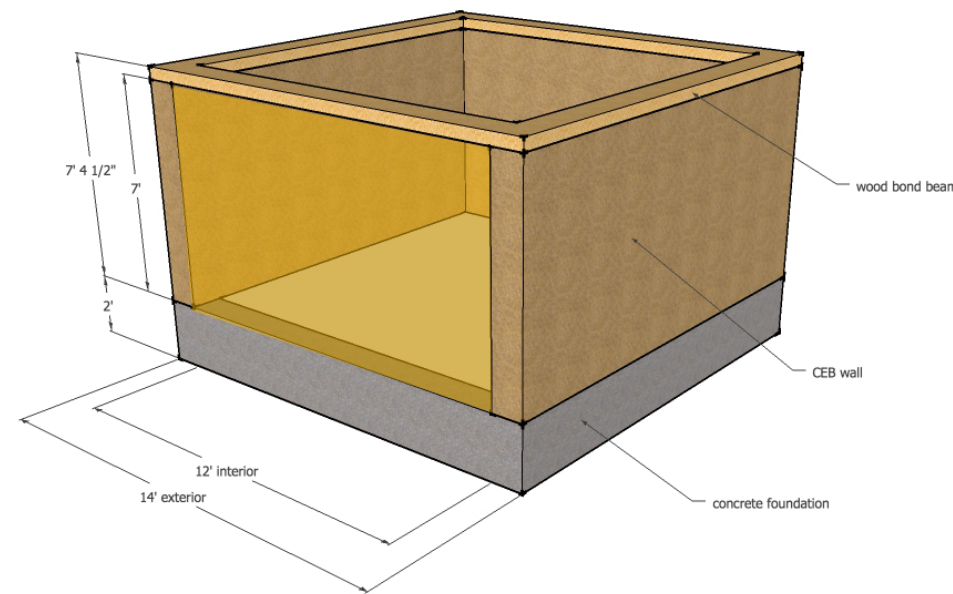
$$144 \text{ sf} \times .3 = 43 \text{ sf}$$

$$144 \text{ sf} \times .4 = 58 \text{ sf}$$



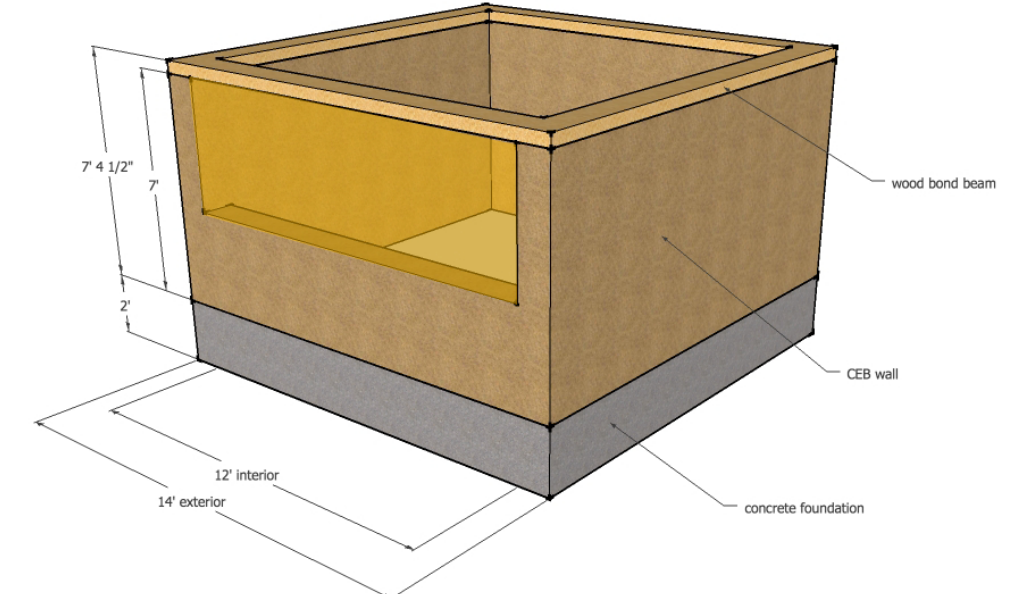
The 12' x 12' interior dimension was chosen as a compact size, yet large enough to serve many functions, including a simple dwelling for an individual.

144 sf of heated floor space.



The south wall has a maximum theoretical area (does not subtract areas for mullions and window structure) of 84 sf.

84 sf maximum of solar glazing.



Using half the potential solar glazing area would come close to the value of 43 sf.

47 sf is half of the south wall.