LOW COST COLD STORAGE ROOM FOR MARKET GROWERS

NOTE: Layered Sectional Schematic of a Cold Storage Room; 8' x 8' x 10'-2" x 6' Frame 16" on center (Size Can Vary)

Plastic Tape
Outside Sheathing, 1/2" Exterior Plywood
1/2" Hard Foam Insulation R-4 to R-6
Wall Insulation R-15
Ceiling Joint 2" x 6"
Ceiling Joint Rim 2" x 6"
Double Top Plate 2" x 6"
Outside Sheathing, 1/2" Exterior Plywood
1/2" Hard Foam Insulation R-4 to R-6
Wall Insulation R-15
Bull 2" x 6"
Bottom Plate 2" x 6"
Floor 1/2" Exterior Plywood
a. Note: Floor joint trim and joint are 2x6" and framed 16" on center.
b. Note: Place spacers between the floor joist for support.
c. Note: Use 1x6" sheathing to trim the floor joist nos for supporting the floor beams ins.
d. Note: 6 mil poly is applied on top of outside bottom sheathing and below floor insulation. Also a non-asbestos non-cement. This creates an air and vapor barrier substituting for the barrier the least dense insulator creates. Foam was not used under the floor because foam compresses under weight.
e. Note: A California Corner can achieve a better insulation value than conventional corner, with minimal hot spots.
1" Insulation (California Corner)
F R19
F R15
R 15
R 19
F 2x6 Solid Floor
F 2x6 Insulation
d. 6 mil Poly
1/2" Insulation (California Corner)

Note: The Cold Room can be built as a pair of 8' x 8' with ends made of treated timber and joined by an eye bolt located on both ends.