Principia

Each unit is a piece of the whole, but must be able to stand alone as per the bylaw requirements in this area. What we are trying to accomplish here is a 20’ x 20’ watertight structure from four (4) individual pieces.

Materials are limited and expensive, failure is not an option.

Take the 6 inch by 6 inch beams.



Cut the beam to exactly 10 feet.(cut five of these)



Align the five cut beams as shown, try to be as precise as possible.



Take the boards that are 1 inch by 12 inches by 10 feet. Make sure each board is exactly 10 feet.



Making sure you are as square as possible nail the board to the floor struts.



Repeat with the next boards until the floor is covered.



Build two of these structures, Must be as precise as possible.

When the base is secured and in place, it is time to put up the walls.





The “3d” version is not to scale and not a correct depiction of the actual structure.

The walls will be built off site and secured together on the platform.

In order to maintain maximum stability and to remain within the strict bylaws of a 10’ x 10’ structure the layout of these walls must be followed as precise as possible.





The two open walls are identical and do not have a floor base board.

The next section deals with roof truss. There are two types.

Fascia truss:



Which appear only at the Front and Back of the building.

And standard truss:



 This structure is held together (reinforced) with Gussets.

Parts for standard truss:



Placing of the truss on the framework:



Side view:

Open interior wall view: