

Carpentry – week 3

Ok, I've received one submission of an idea for a micro house. From now on let's call our project the 'Mini Home' project.

Using ideas from that submission and following constraints detailed below I have sketched a floor plan of a mini home we could explore as a class.

Constraints:

- living space for 2 adults
- energy efficient
- cost effective – no more expensive per area than regular residential builds
- use regular building materials and methods – no custom materials or sizes required
- can be built off site and transported to locality by regular means (either on detachable wheels or on a flat bed) without special permits
- easily built by using regular building trades
- meet national building and fire codes for residential buildings

Features:

- area of main structure is 360 square feet (10' by 36')
- southerly orientation to maximise solar gain
- minimal number of breaks on the northern side of the building envelope
- dimensions minimize waste and labour
- meets the following requirements for comfortable living
 - o regular ceiling heights
 - o accommodations for sleeping, food prep, eating, relaxing, bath, privacy
 - o use regularly available fixtures and appliances
 - o unencumbered traffic flow
 - o minimal number of partitions
 - o regular floor, wall and roof structures
 - o either 2x6 exterior walls, 2x4 interior walls
- will accommodate indoor/outdoor living (large sunroom, site built, to help with solar gain in winter and expand indoor living space)

Have a look at the sketch and think of what you would like the building to look like:

Give some ideas on exterior and interior finishes: cladding? flooring? roofing?

Also for this week, I would like you to find some links describing the building techniques that would be used to execute the build. Share your found links.

Next week we will at some of the links in detail and also look at the requirements of the national building code and the development bylaws.

SOUTH

