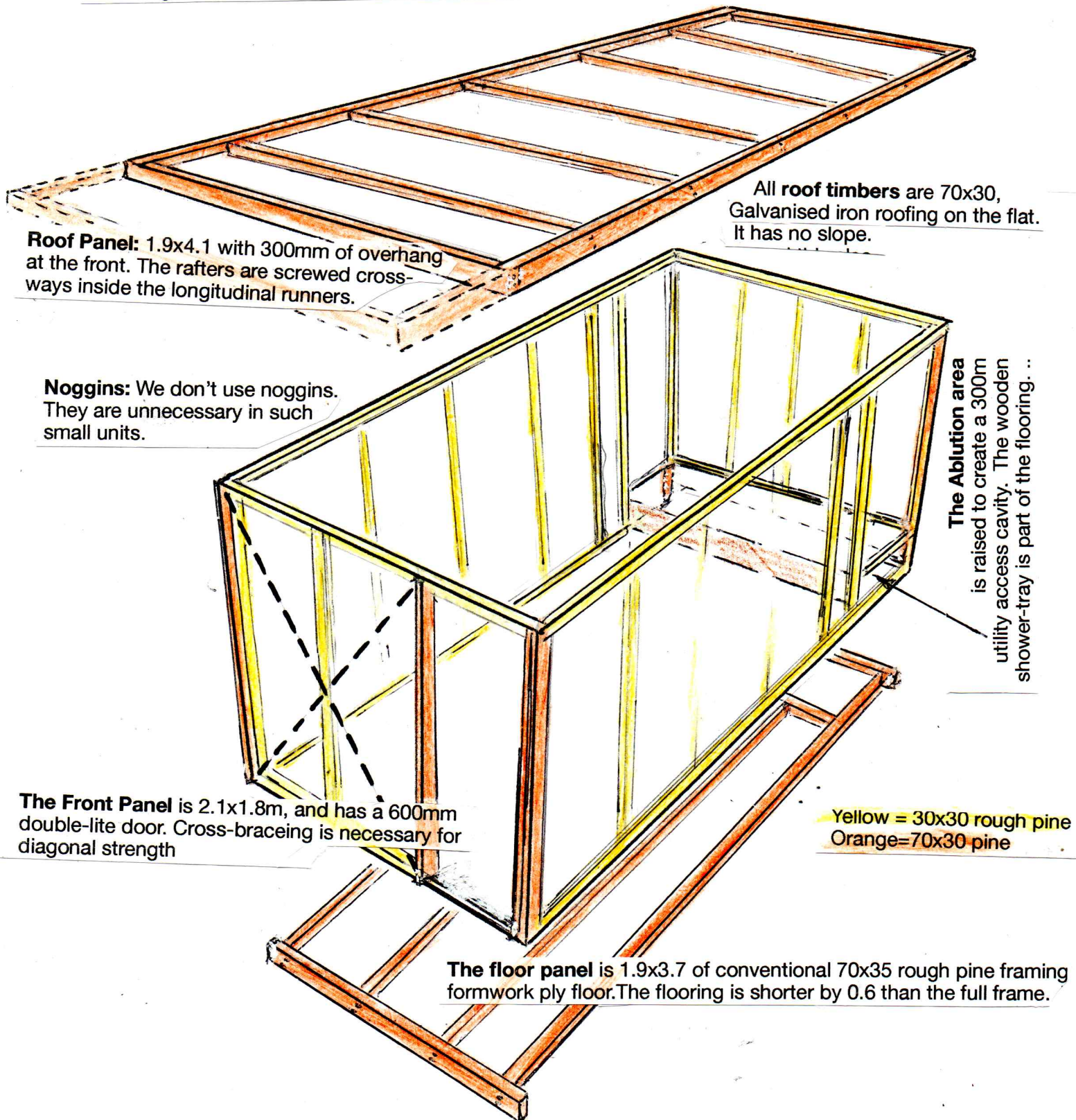


## General Framing and overall design

This Jan 2022 version uses mainly 30x30 rough pine for all framing of end and side panels, except for the corners of the side panels (use 70x30) to provide panel joining and hinge points inside the room.

Fabrication of all the panels would take place on a flat bench, made by supporting the roof-framing on trestles or milk-crates at near waist height,

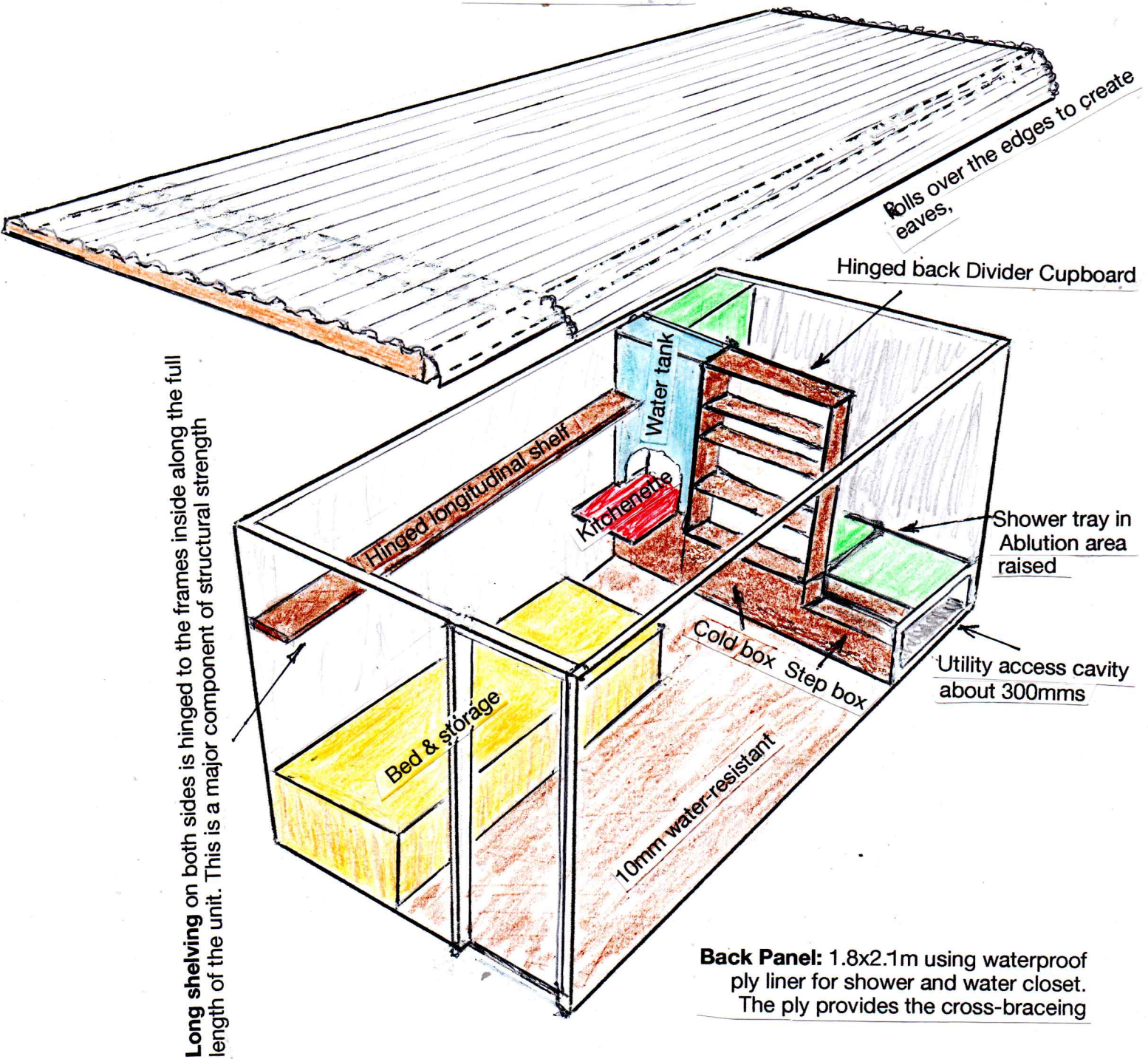


**Insulated:** All vertical panels and the roof panel will be double-sided and insulated, probably by using old foam fruit crates and/or glass wool. There are no electrical cables in the walls, Liner (form-work ply) should be tacked and glued for strength. Cladding can be ply or Colorbond.

**Side Panels:** The two side panels are identical, and neither has any slope. This means that all studs are equal in height, and without noggins, the timbers can be delivered pre-cut, thus avoiding the need for electrical circular saws in the factory areas.



## Exploded fit-out



The cupboard under the tank can be separate, or part of a 1.8m unit consisting also of a Cold Box (under hinged Divider unit, and a Step Box (using the step as a hinged lid).



# Water tank details

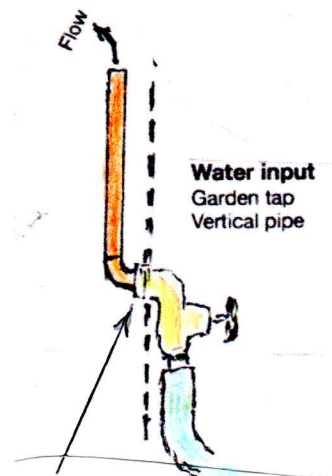
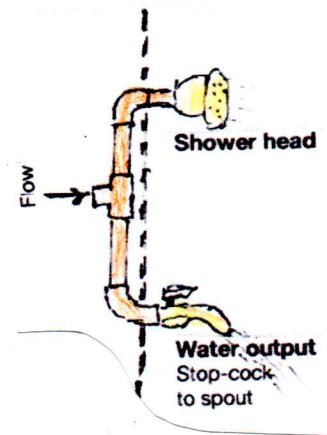
The cap plate should be double-bent on all four sides. Do the outside (down) bend first, then the inner (up). The gap between can be filled with NoMoreNails to seal. Use only metal screws here. You will want to be able to take this cap off for cleaning, or to fix a leak.

All tap and shower/basin spout fittings are on the back near this edge of the tank.

Curve the base plate and rivet to all sides outside the tank. Then seal it by solder using a small blowtorch and plenty of flux, and working inside the tank.

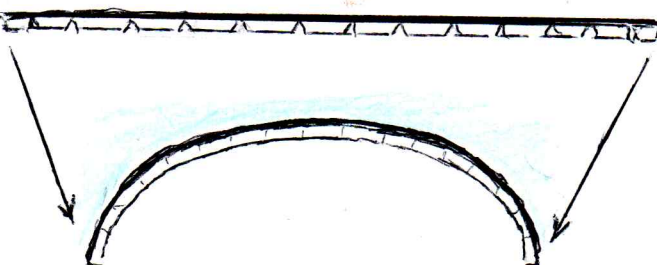
Use gal angle iron as corner/leg strengtheners to carry water weight. DONT fix with holes inside the tank.

Heating cavity on Kitchenette bench



Also the tap should be screwed (using a hose fitting inside). Then seal around tap and the shower/spout fittings with solder. Buy solderless fittings, and solder them yourself.

Ideally use the main vertical sheet joint (pop-riveted outside the tank) as a corner support here so that it can attach to the vertical hinge-post which carries the fold-back Divider Cupboard,



We haven't given all the size details. It will depend to a degree on the sizes of gal flat iron that you decide to use.