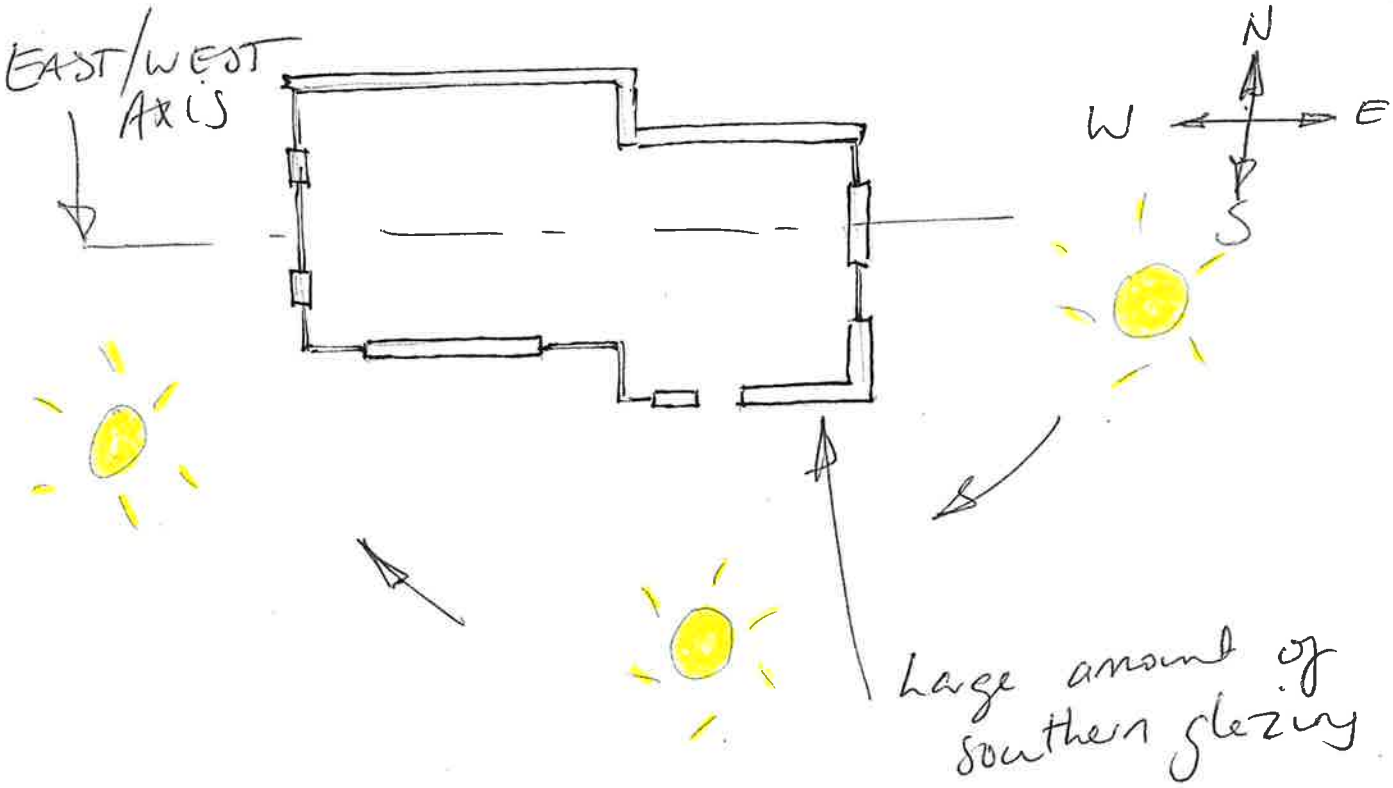
6(a) – features you could use

- * Pv panels.
- * water butts.
- Solar panels (water)
- 1 room deep.
- Woodburning stove
- internal fireplace
- South facing windows
- South facing skylights
- Compact form / low carbon footprint
- Use of Roof space instead of 2 storey.
- Plumer n scale

① South Facing Windows

The house has a large amount of windows / glazing on the front which is presumably South facing. Also has a high number of skylight on south side of roof. Those south facing windows will allow large amounts of passive solar gain to enter the house providing heat and light. This is turn reduces the dependency on fossil fuels to provide heat and light which means reduced CO_2 levels / low carbon footprint.



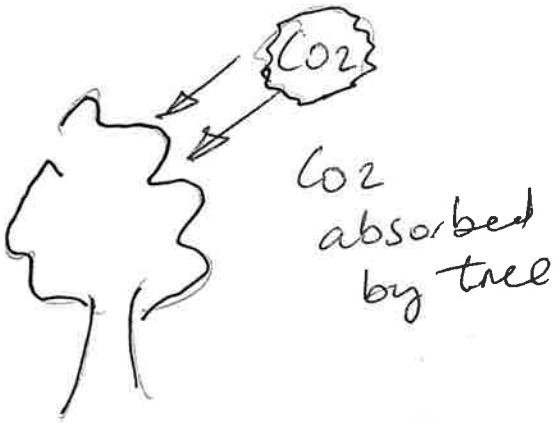
② Woodburning internally walled stove

The house appears to have a woodburning stove. The use of a woodburning stove is much more environmentally friendly than the use of oil or an open fire. Wood is renewable and a sustainable source of fuel. Wood is also carbon neutral meaning whatever CO_2 is created when it is being burned is cancelled out by the CO_2 it took in while growing.

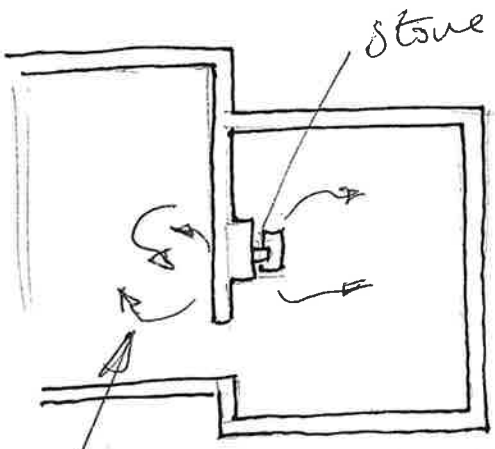
Also the use of a stove over an open fire is much more efficient. Stoves are generally

80% approx efficient where as an open fire is approx 30% (other 70% being lost up the chimney).

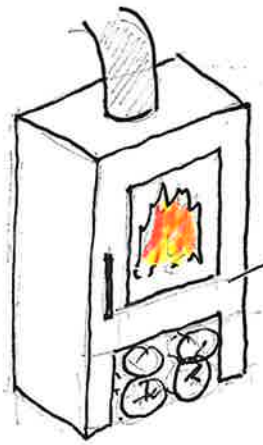
Finally the fact that it is on an internal wall mean that any heat that is lost into the back of chimney/stove will radiate back in to another room.



CO2 absorbed by tree



heat lost back into house.



Wood burning stove 80% - 85% efficient

(3) Compact form

The house is quite compact in its design. They have made maximum use of space ~~but~~ by using the roof space as rooms instead of building an extra story. By keeping the building compact the house uses less material,

meaning a lower carbon footprint. A smaller more "human in scale" house will have less of a visual impact on the environment too. Finally a compact house with a 'low surface to volume ratio' will ~~Red~~ be much easier to heat meaning less fossil fuels being burnt. This = good for environment.