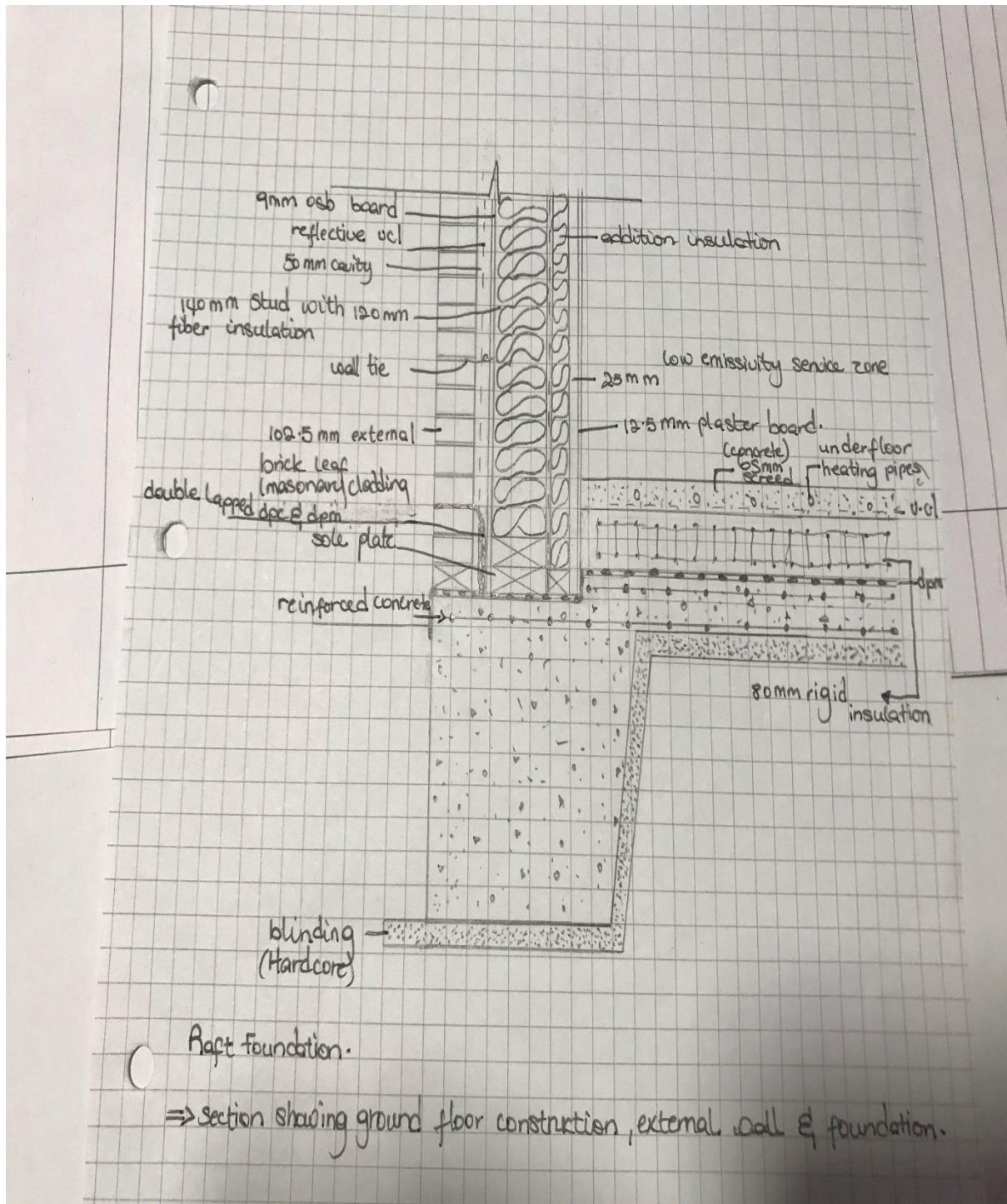


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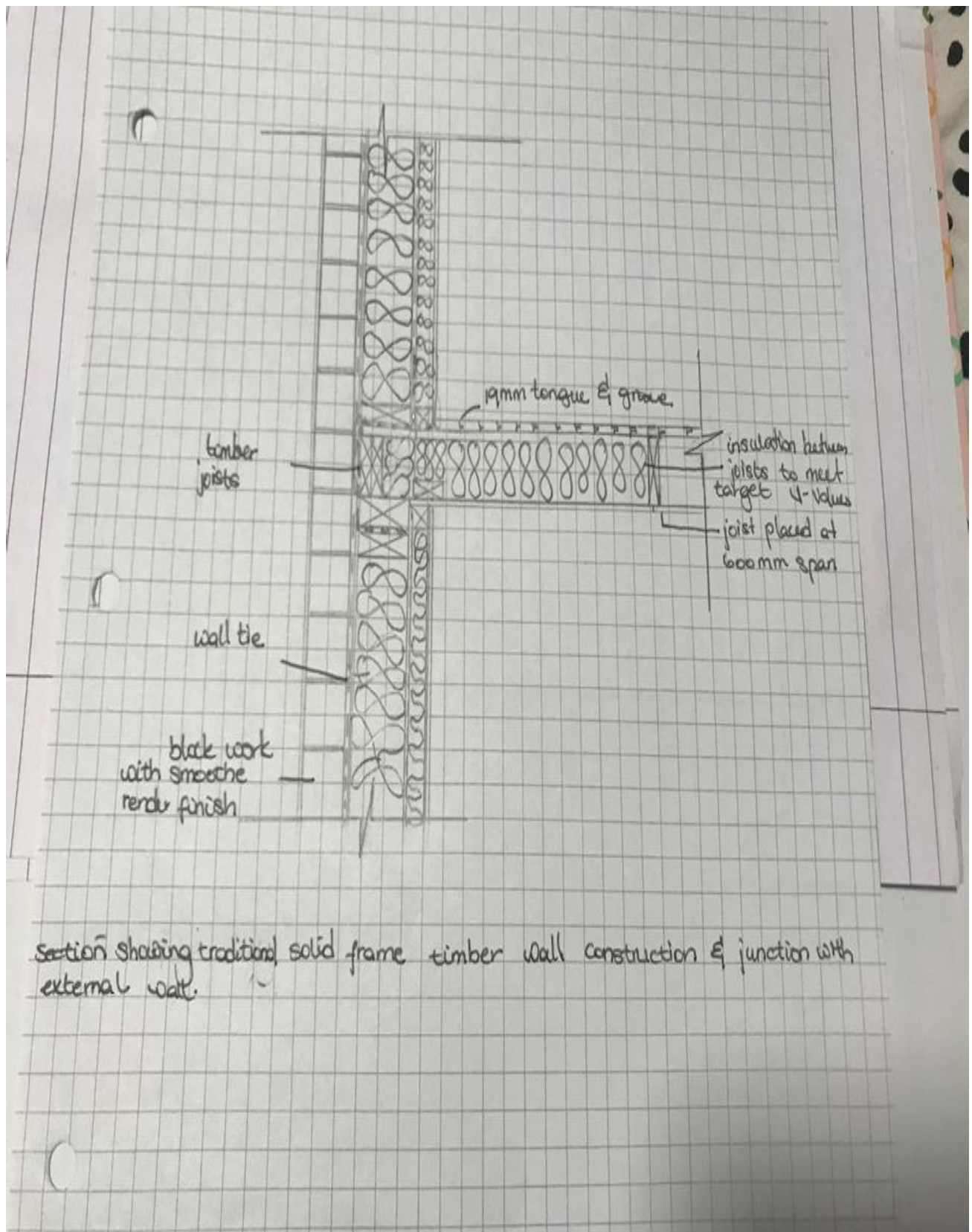
TECHNICAL REPORT

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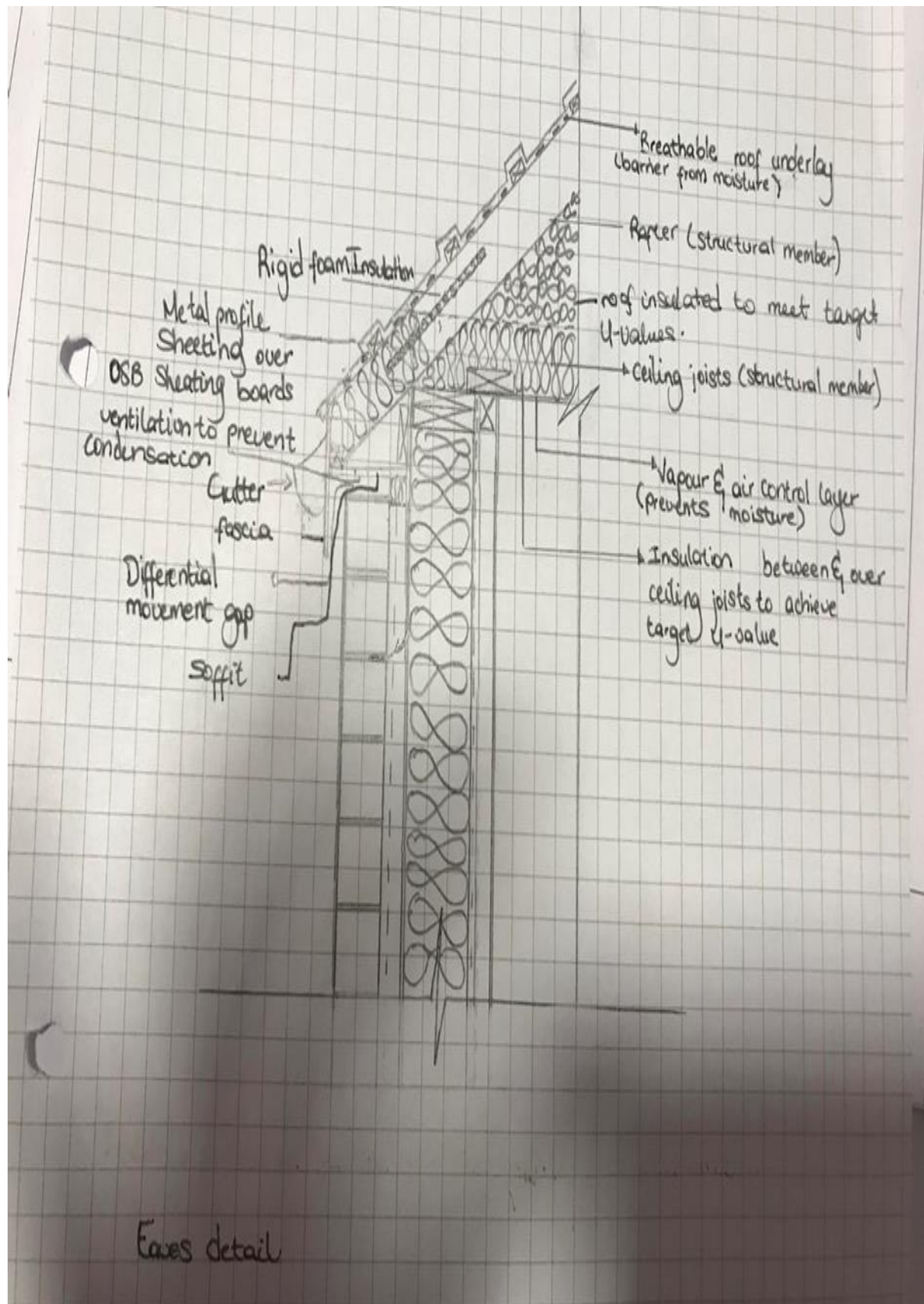
Ground Floor detail



Intermediate Floor detail

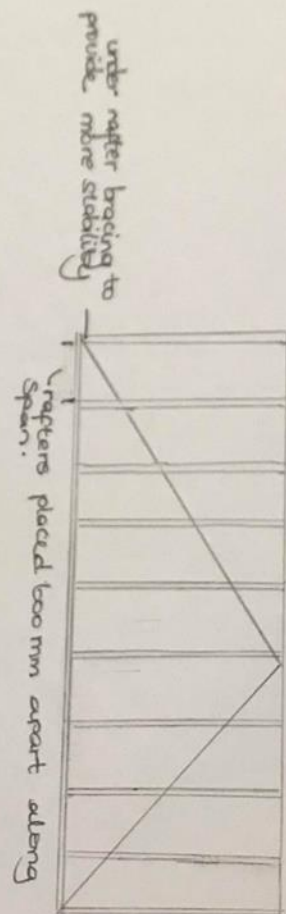
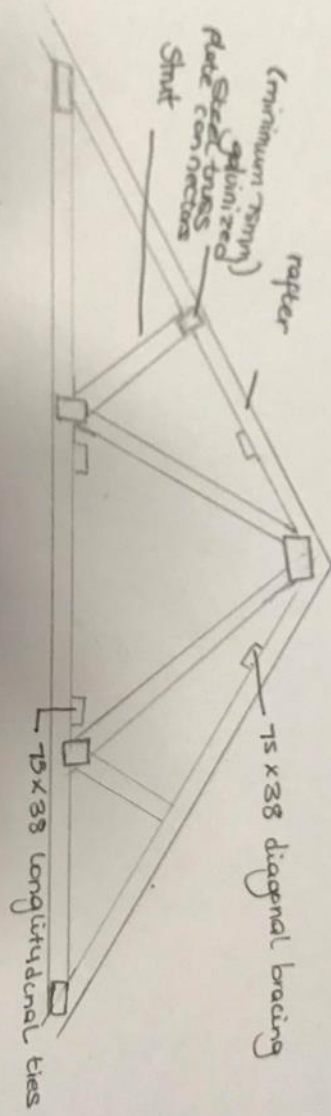


Eaves detail

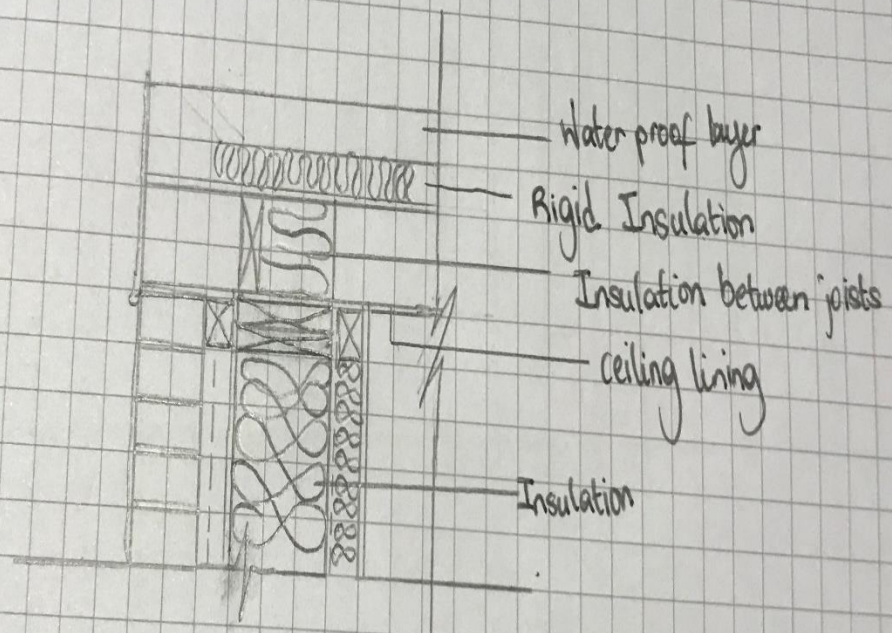


Roof Construction

Trussed Rafter - prefabricated structural component delivered to site.



Alternative Roof Structure



Flat Roof (warm)
* Alternative to Trussed Rafter.

Advantages of Trussed Rafters

- Trussed rafters are manufactured quickly to fit the normally quick construction of timber frame buildings
- They use less timber than traditional roof structures, so this makes them more economical
- They are versatile so that they can be used for a range of roof structures and building types
- They are thermally efficient compared to other building components such as steel and concrete

Advantages of metal roofing

- Metal sheets are durable and last for a long time
- They are easier to install
- Cheaper to maintain
- Various styles to complement

Disadvantages

- Although metal sheets are cheaper to maintain they are more expensive than other roofing options.

Offsite construction is the planning, design and construction done off site in factories. There are four main categories of offsite construction: Panelised systems, an example of this is the timber framed wall structure panel which consists of OSB sheathing boards and insulation, etc. Volumetric systems, example trussed rafter roof, which is to be constructed offsite, Sub-assemblies and components, example the I-Joist beam in flooring and also Hybrid systems.

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