



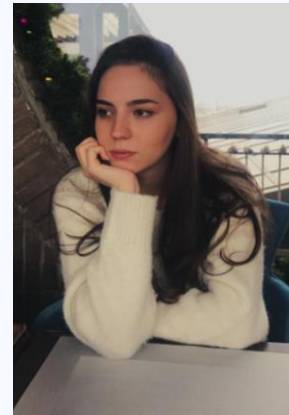
Café the Serpentine

Final design by ALLS-architects (group 4)

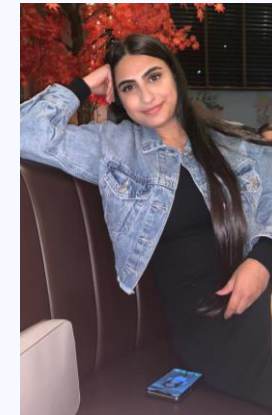
ALLS – architects



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7. Summarise & conclude

1. MA

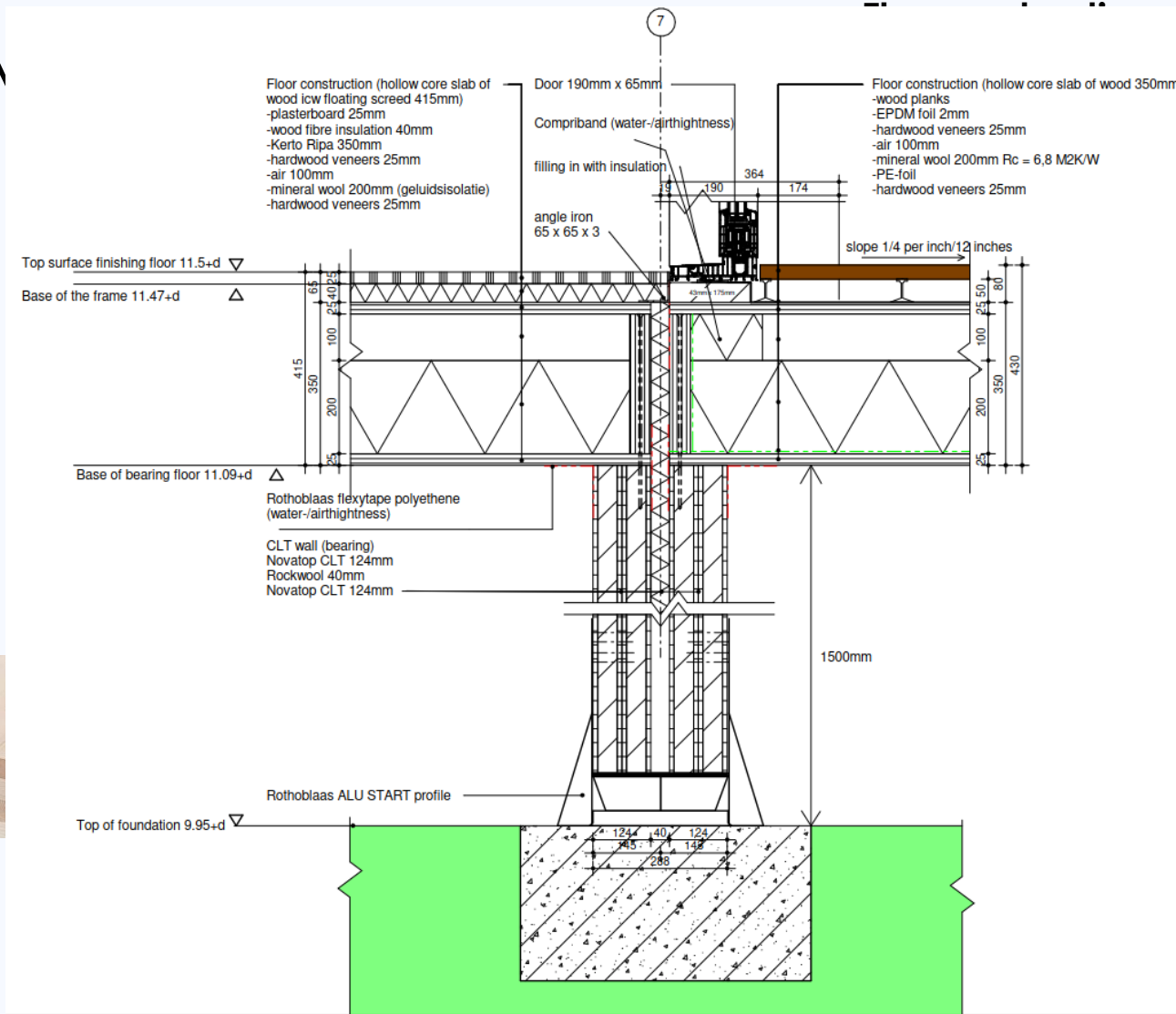


Kerto ripa hollow core slab of wood



CLT walls

ALLS – architects



the café Serpentine:

hollow core slab of

(288mm)

(86mm x 140mm)

non ventilated hollow
slab (410mm)

the floor:

this is a reason why it is a

installations

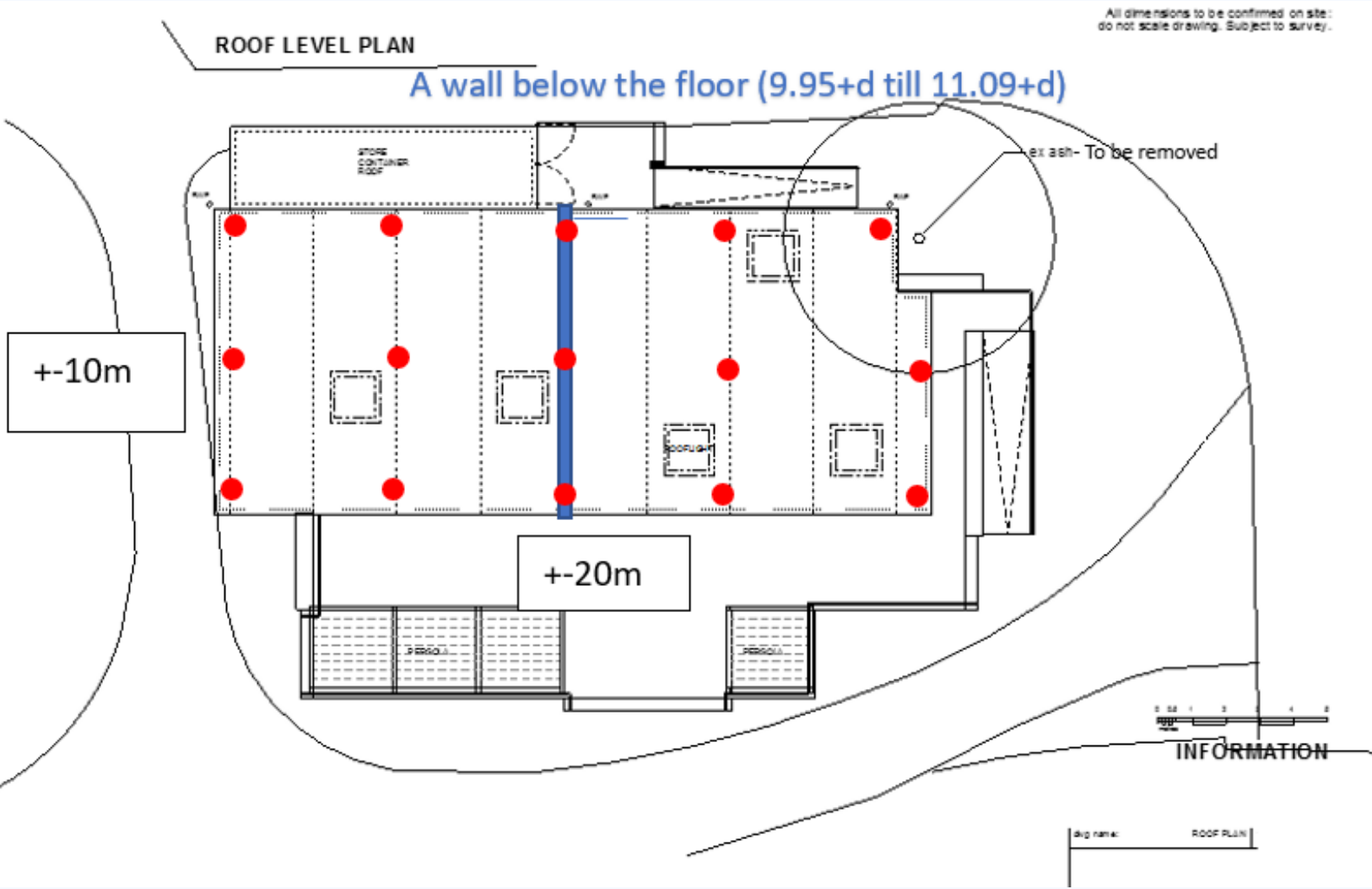
air tight

12

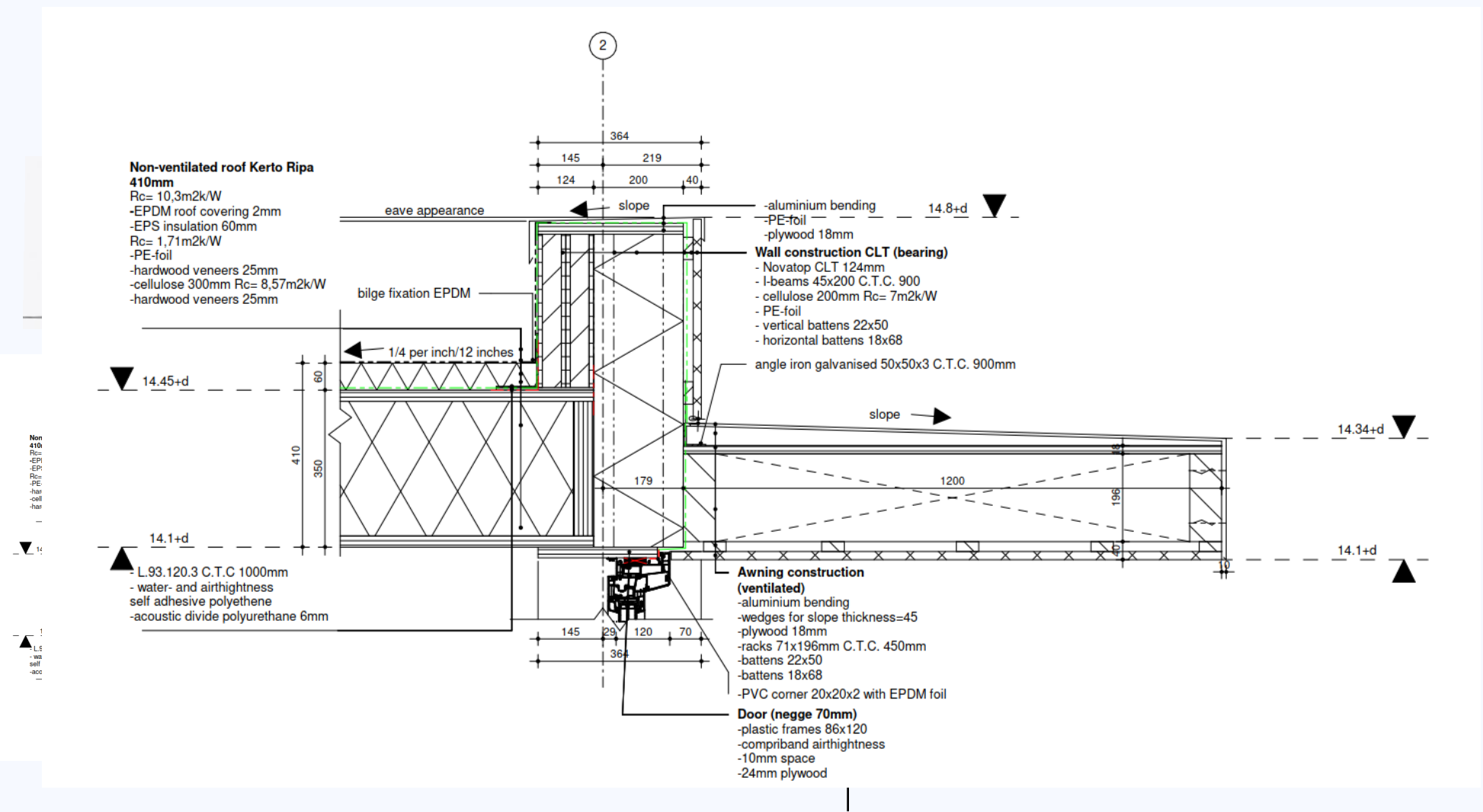
2.

FRI

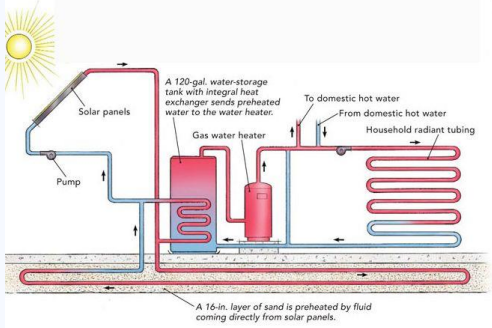
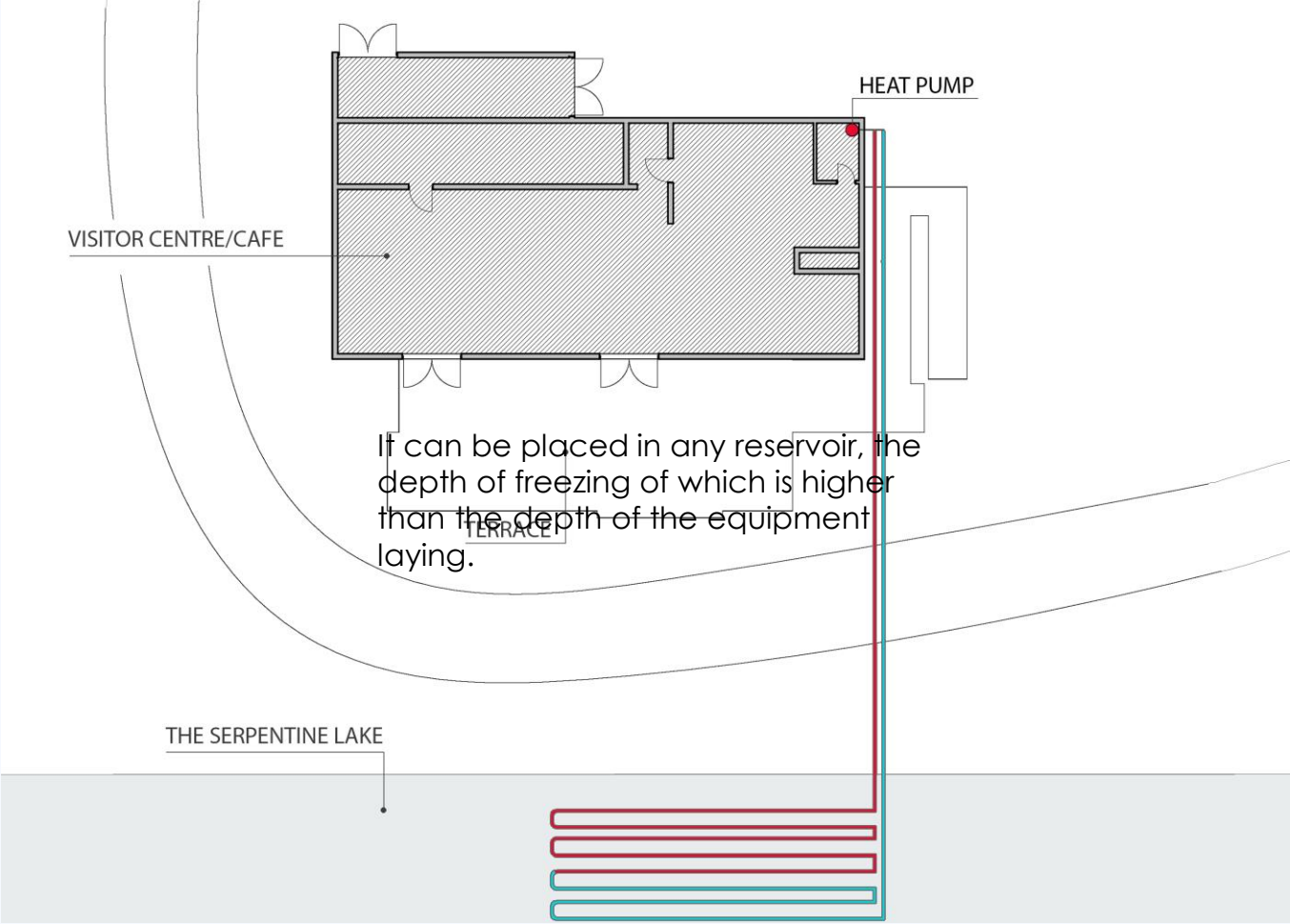
Side hung window
-plastic frames 86x
-compriband airthig
-10mm space
-24mm plywood —



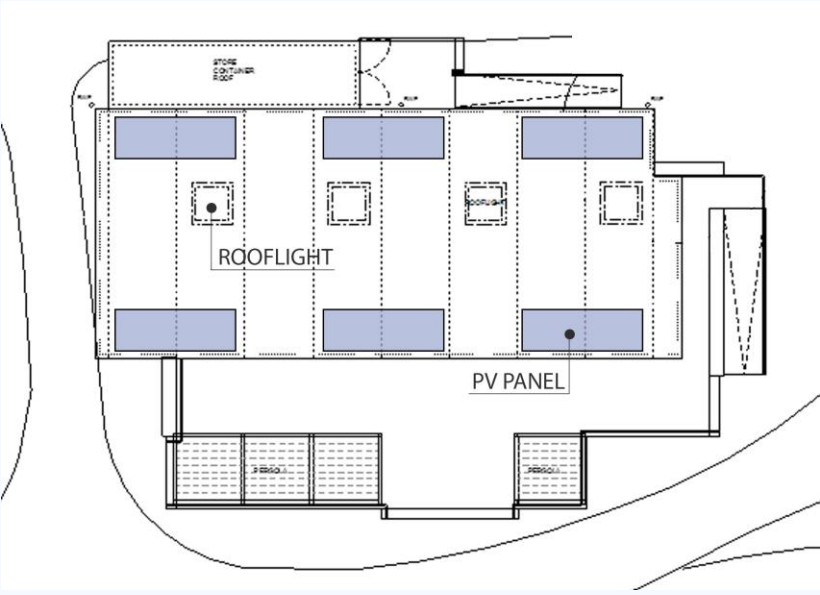
stable;
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embly
is much
plying



RENEWABLE ENERGY SYSTEM



The thermal water pump system is characterized by absolute environmental safety, does not require regular expenditures on consumables.



RENEWABLE ENERGY SYSTEM

ROOFLIGHT



The additional sunlight from a roof lantern means that less artificial lighting is required, helping to make electricity savings to cut bills and reduce a home's carbon footprint. It also can be used as ventilation tool.



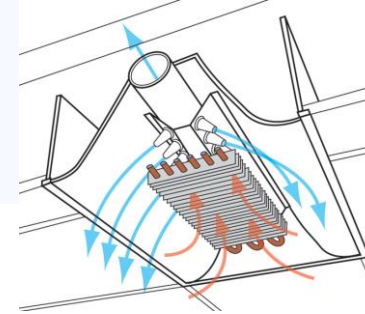
Wall Heating System



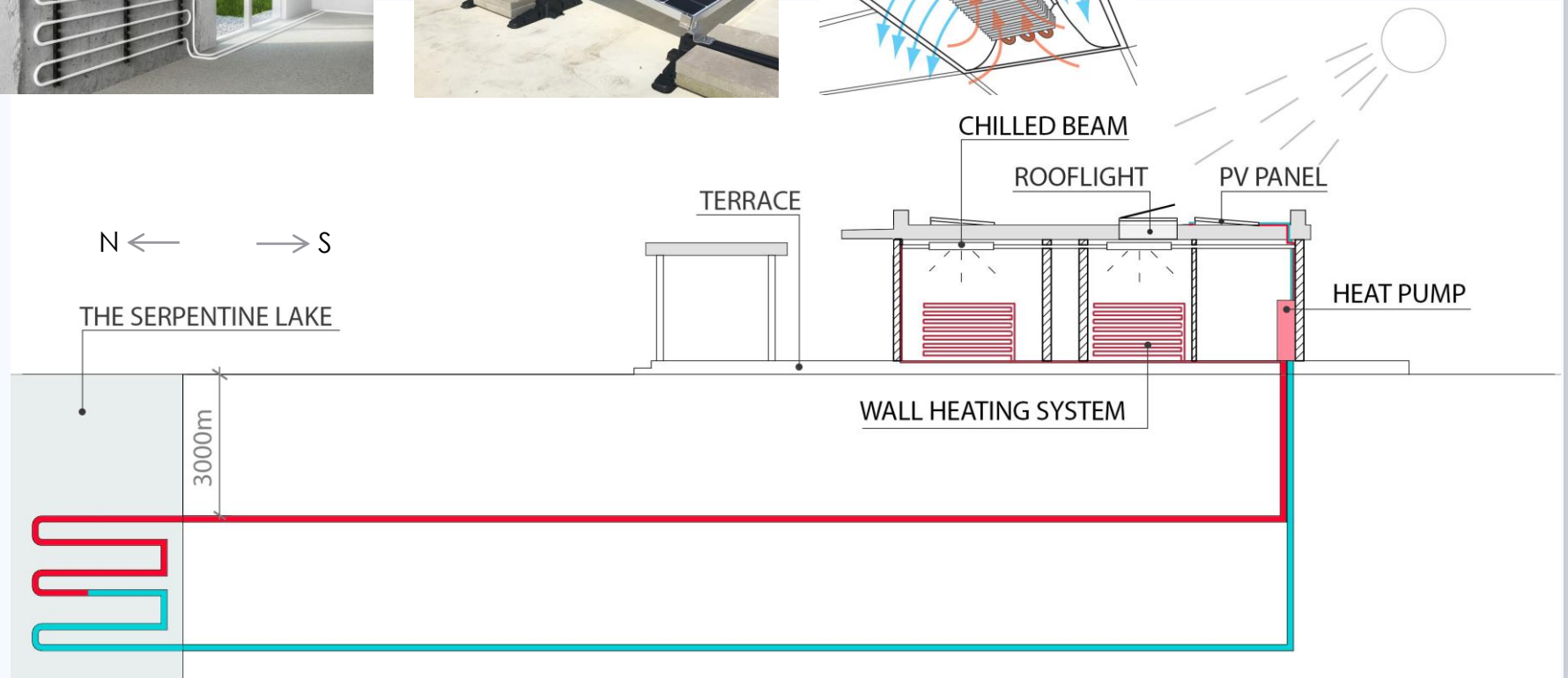
PV Panels



Chilled Beam

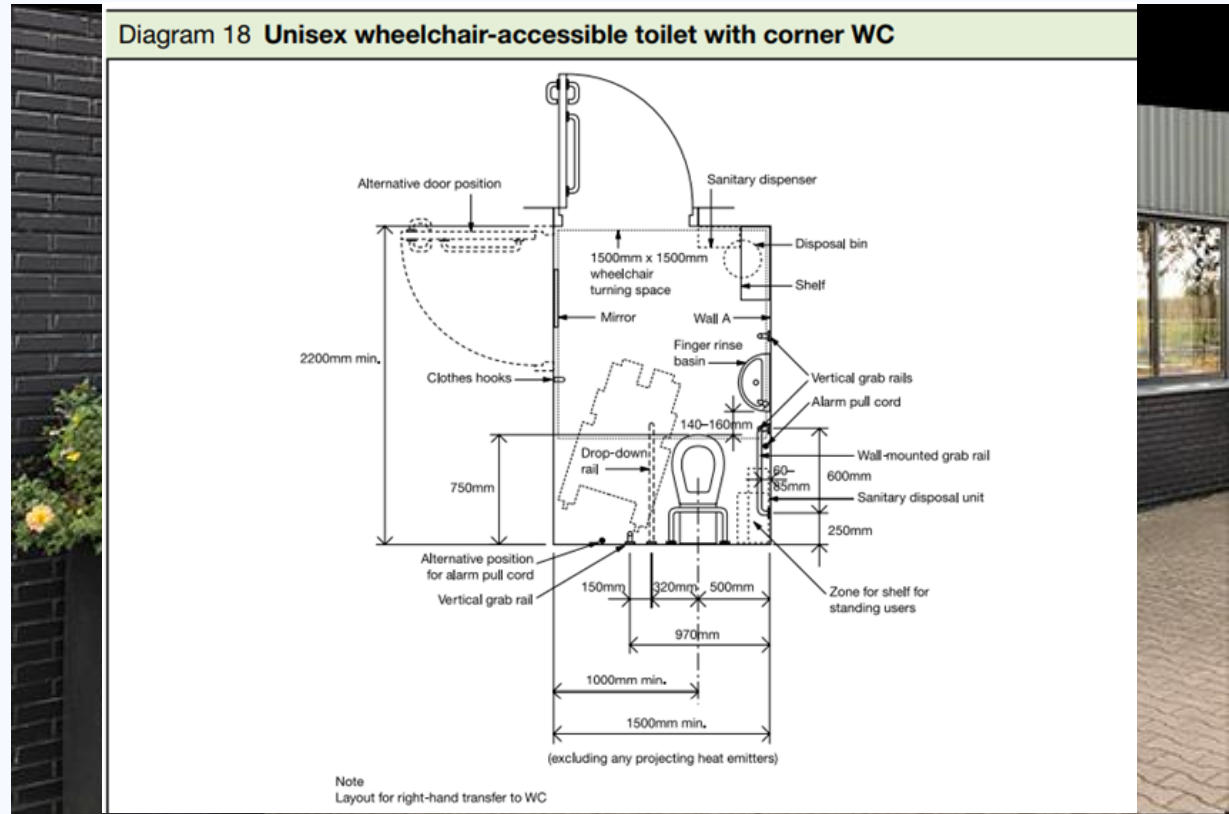


The primary advantage of the chilled beam system is its lower operating cost.



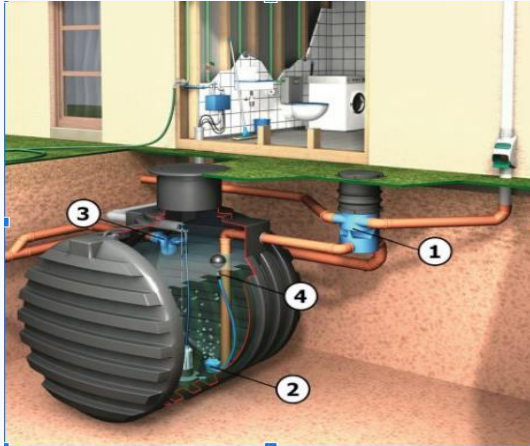
COMPLIANCE WITH BUILDING REGULATIONS

- 10 m → 500 mm
- 3 Ramps
- Slip resistant
- Powered entrance doors
- Motion sensor
- Accessible toilet



FOUL AND SURFACE WATER DRAINAGE

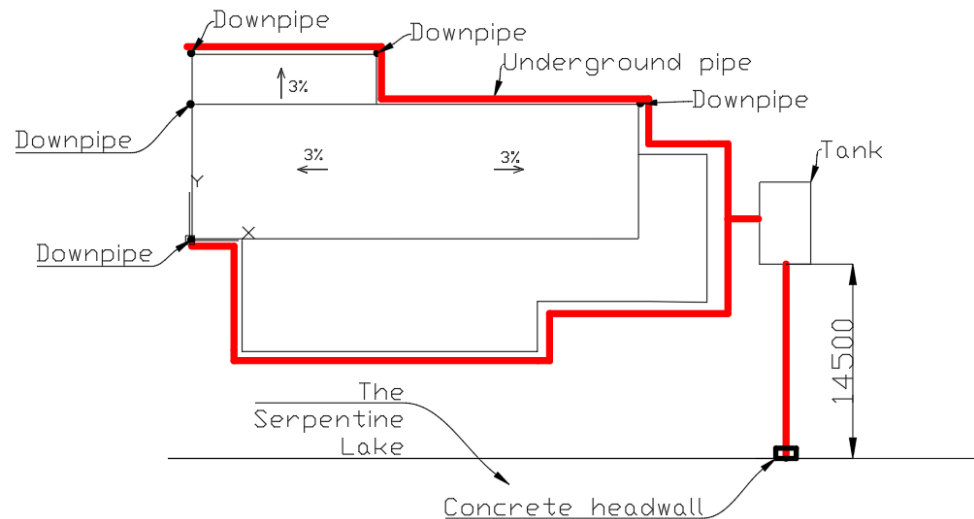
Rainwater harvesting system



Concrete headwall

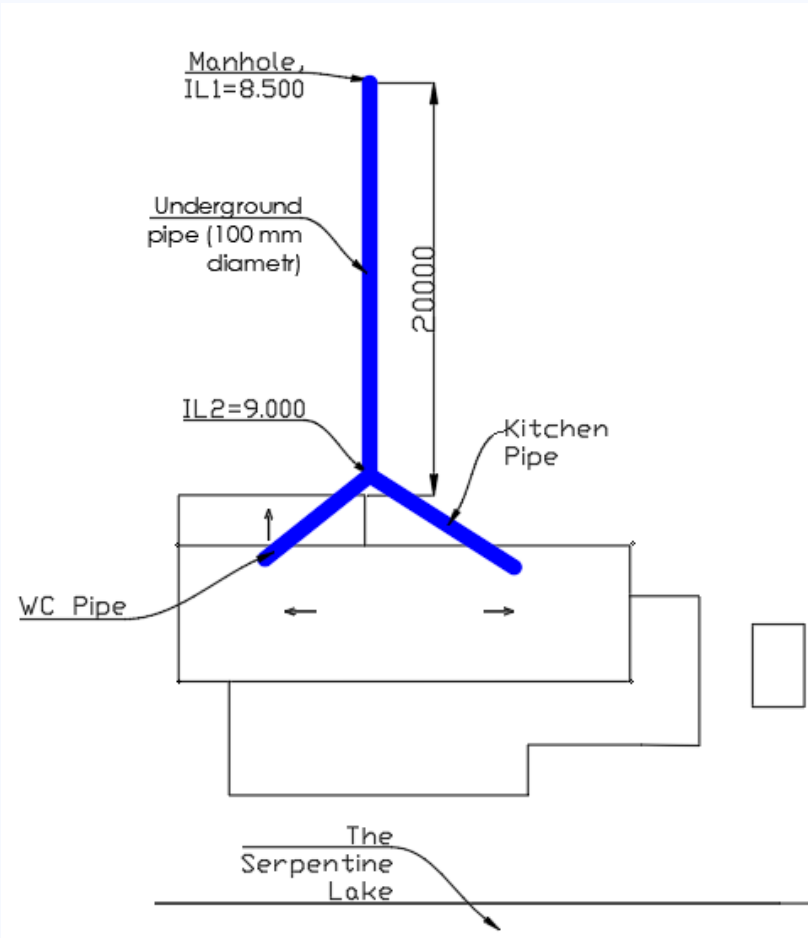


To collect water from the roof we use:
Gutters (150 mm)
Downpipe (120 mm)
1) Rainwater Filter
2) Oxygenate the water and Calmed Inlet
3) Overflow Siphons
4) Floating Intake Filter
Underground pipes from vitrified clay BS 65
Plastic tank (2500 gallon)



We use a concrete headwall and a 14.5 meter long vitrified clay BS 65 underground pipe (Gradient 1/40) to drain excess rainwater into the lake.

FOUL AND SURFACE WATER DRAINAGE

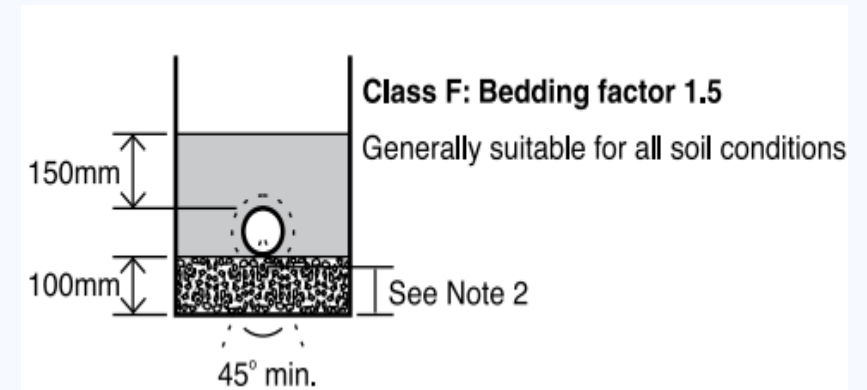


In order to get rid of dirty water, a sewerage system is provided, connected to the city network. The altitude mark of the city sewerage system is 8500.

The underground drainage will be made from vitrified clay BS 65.

When connecting to an existing drain, an obliquely, simple, watertight connection must be provided.

Bedding for pipe



Lumps of clay 150 mm



Granular material, maximum size of 10 mm

SUMMARISE AND CONCLUDE

