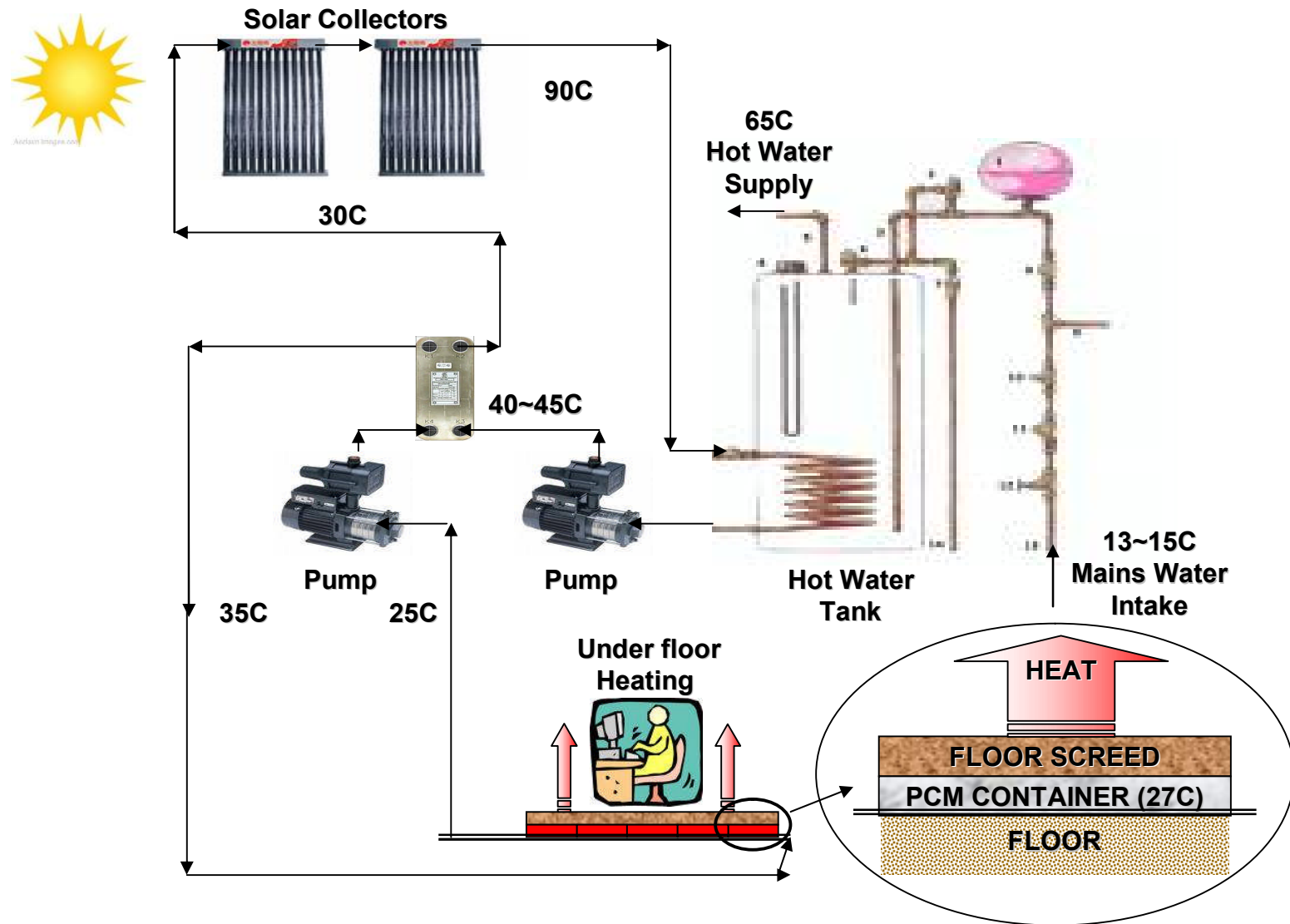
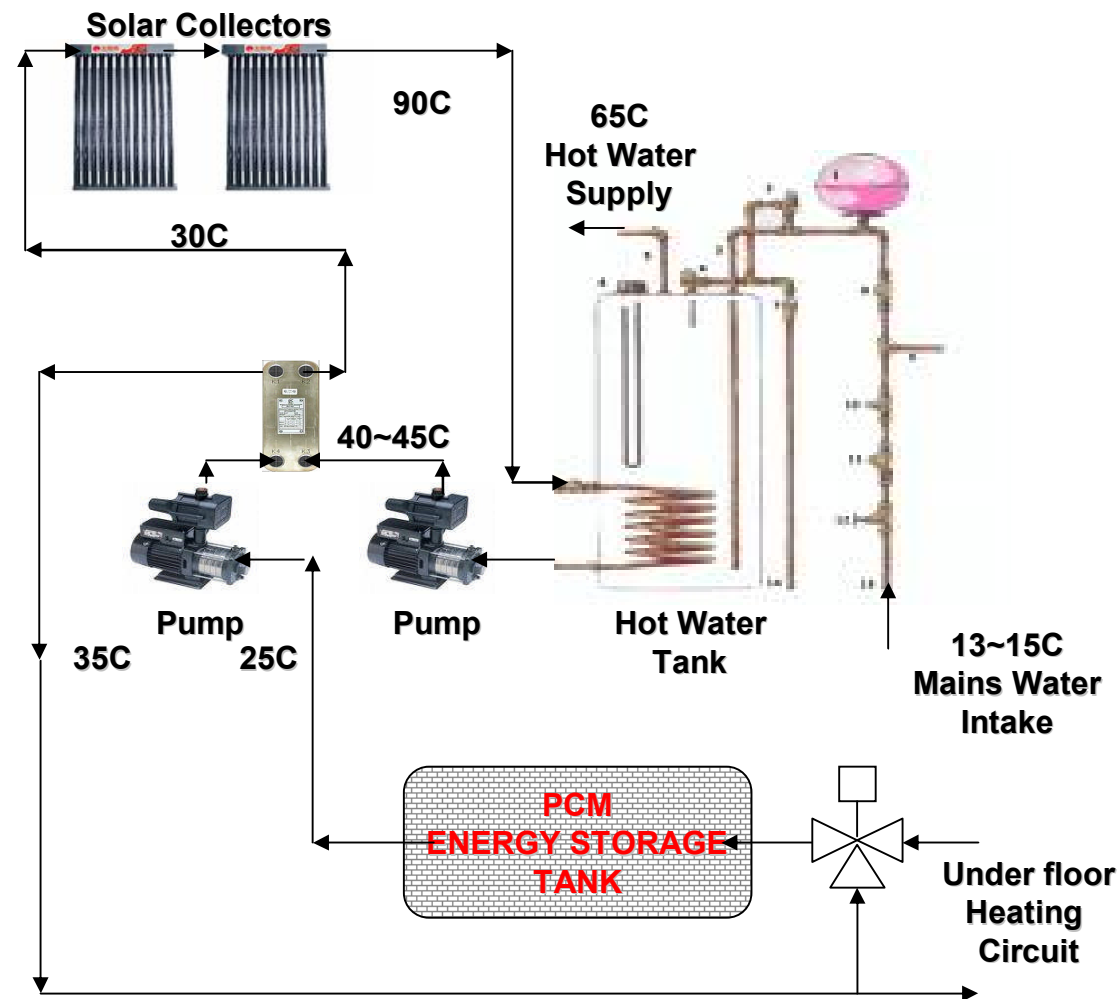


PCM INTERNAL UNDERFLOOR ENERGY STORAGE

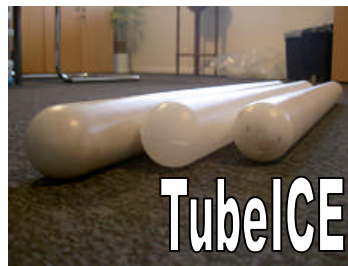
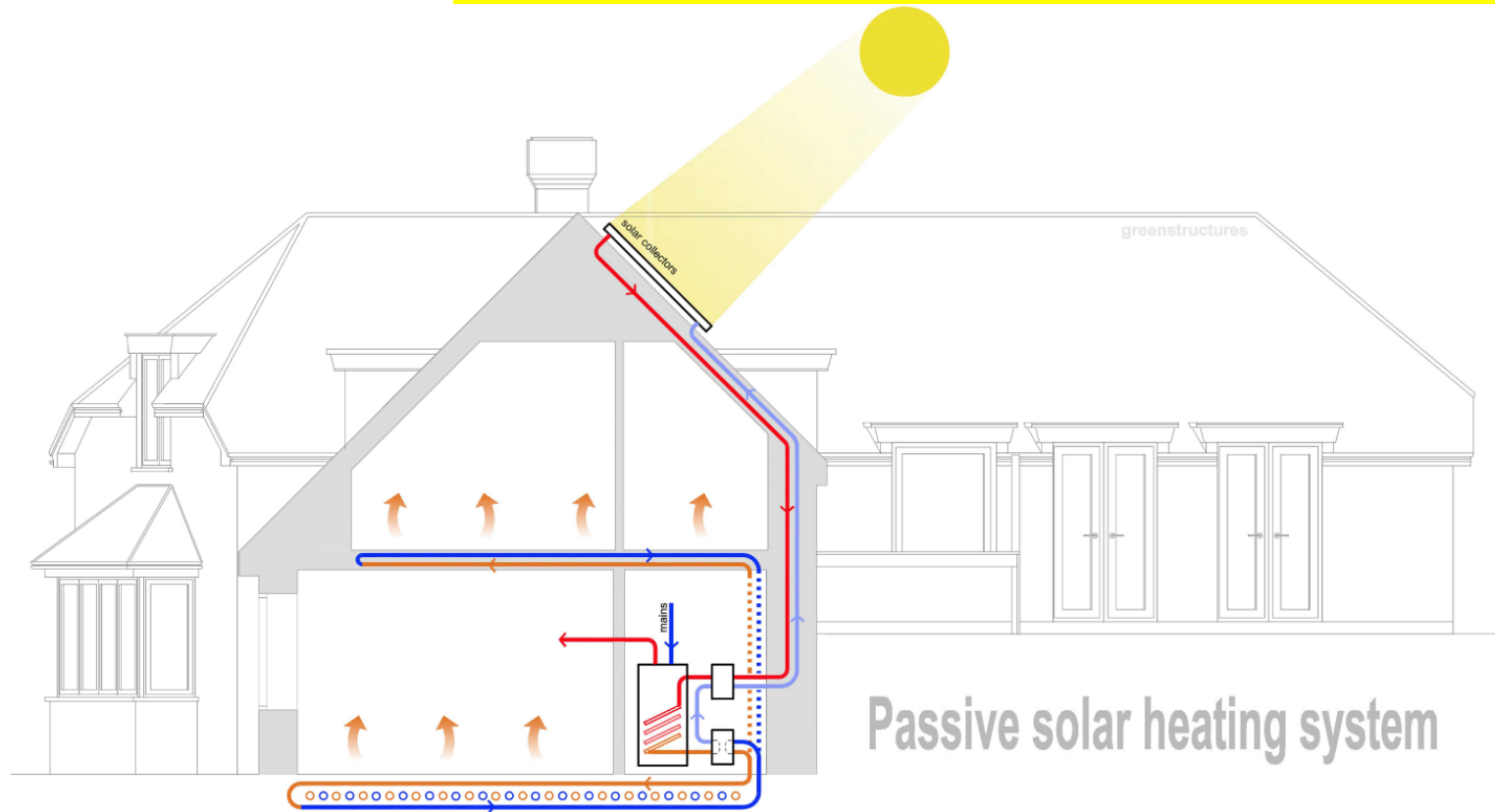


PCM EXTERNAL UNDERFLOOR ENERGY STORAGE





PCM UNDERFLOOR ENERGY STORAGE PRODUCT OPTIONS



Encapsulated PCM Product Options



The ground conditions have been assumed as River terrace (upper chalk with flints / valley gravel) according to Geological Map. Structural engineer to be contacted if ground conditions differ to what has been noted above.

FOUNDATION DEPTHS

The proposed foundations need to be taken down to a minimum depth of 1000mm below ground level and to be at least 100mm into virgin ground. The final foundation depth needs to be agreed with the Local Authority to suit the ground conditions.

FOUNDATION LEVELS

The proposed foundation soffit levels and existing ground levels will need to be confirmed on site and information sent to Structural Engineer for checking.

GROUND FLOOR CONSTRUCTION

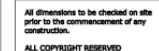
1. 100mm floor screed with Polypipe under floor heating pre-installed;
2. 1200 gauge DPM over;
3. 170mm Kingspan Insulation board using 100 and 70mm boards cross laid (50mm Kingspan upstand to be used at all perimeters and junctions);
4. 1200 gauge DPM over;
5. 25mm compacted blinding over;
6. 100mm concrete base slab with 100mm XPS upstand around perimeter and junctions over;
7. Consolidated hardcore with 100mm XPS upstand around perimeter and junctions;
8. For sections refer to drawings 216/02;

GENERAL NOTES

1. All internal blockwork to be 140mm 7.3/nc2 unless otherwise stated;
2. All external BGL blockwork to be 100mm 7.3/nc2;
3. All internal backfill below floor slab to be insulated from blockwork by use of XPS insulation board for minimum 450mm BGL;
4. All in-filled cavities BGL are to be overlapped by external insulation by at least 300mm on both sides;
5. Footing blockwork cavity to be in-filled by at least 150mm above footings but not higher than 300mm BGL;
6. Reinforced wall infill to be terminated at 300mm below upper ground level and stop against full fill cavity slab;
7. For sections refer to drawings 216/002;



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Client:
Hugh & Wendy Knight
58 Harthall Lane
Kings Langley
WD4 8JH

Project:
New PassivHaus Dwelling
Rear of 58 Harthall Lane
Kings Langley

Title:
Proposed Foundation Plan

Scale
1-50Drawing No.
216/01