

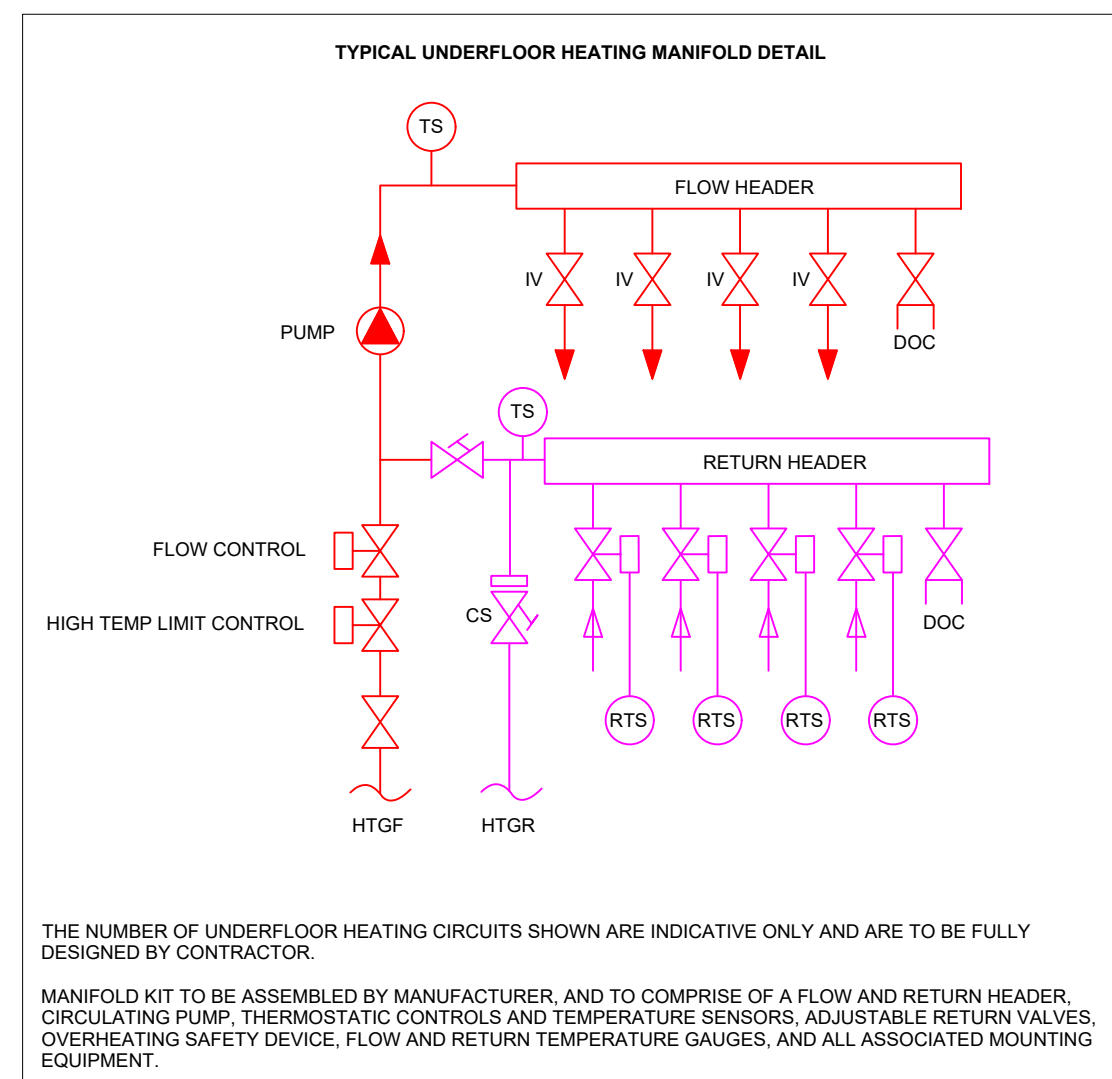
Noted dimensions and/or levels to be used only. All dimensions and/or levels must be site checked by the Contractor prior to commencing any construction work. Any discrepancies must be reported to the Engineer. No assumptions are to be made regarding this drawing.

IMPORTANT : DO NOT SCALE FROM THIS DRAWING

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**NOTE**

1. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND DOCUMENTATION.
2. DO NOT SCALE FROM THESE DRAWINGS.
3. THESE NOTES ARE A SUMMARY. REFER TO SPECIFICATION FOR FULL



THE NUMBER OF UNDERFLOOR HEATING CIRCUITS SHOWN ARE INDICATIVE ONLY AND ARE TO BE FULLY DESIGNED BY CONTRACTOR.

MANIFOLD KIT TO BE ASSEMBLED BY MANUFACTURER, AND TO COMPRISE OF A FLOW AND RETURN HEADER, CIRCULATING PUMP, THERMOSTATIC CONTROLS AND TEMPERATURE SENSORS, ADJUSTABLE RETURN VALVES, OVERHEATING SAFETY DEVICE, FLOW AND RETURN TEMPERATURE GAUGES, AND ALL ASSOCIATED MOUNTING EQUIPMENT.

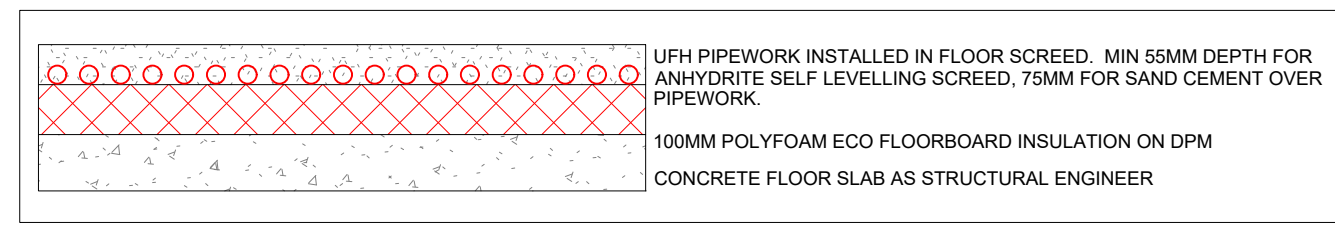
**UNDERFLOOR HEATING SYSTEM DESIGN CRITERIA. (EXTERNAL DESIGN TEMP -2.0)**

UFH AREA	ROOM TEMPERATURE (°C)	INFILTRATION RATE (AC/HR)
KITCHEN	24	1.00
OFFICES/RECEPTION	21	1.00
TOILETS	18	1.00
EXHIBITION	18	1.00
CAFE	21	1.00
CIRCULATION	18	1.00
STORES	15	1.00
EDUCATION	23	1.00

**PROPOSED 'U' VALUES (W/M²/K)**

EXISTING EXTERNAL WALLS	0.861
FLOOR	TBA
SLOPING ROOF	0.179
WINDOWS / DOORS	1.366
SUSPENDED FLOOR	0.163
NEW EXTERNAL WALLS	0.220
PITCHED ROOF	0.179
FLAT ROOF	0.179
SOLID FLOOR	TBA
SUSPENDED FLOOR	0.137
WINDOWS	1.366
ROOFLIGHTS	1.763

**TYPICAL UNDERFLOOR HEATING MANIFOLD**



**TYPICAL UNDERFLOOR HEATING PIPEWORK DETAIL**

**LEGEND**

- DTB - DROP TO BELOW
  - RTHL - RISE TO HIGH LEVEL
  - UFH - UNDERFLOOR HEATING
  - RTS - ROOM TEMPERATURE SENSOR
  - IV - ISOLATING VALVE
  - NRV - NON RETURN VALVE
  - CS - COMMISSIONING SET
  - HTGF - HEATING FLOW
  - HTGR - HEATING RETURN
- HTGF - - - - -
- HTGR - - - - -
- COLD WATER SUPPLY - - - - -
- TO DRAIN - - - - -

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GLASGOW • DUBLIN • AYR • INVERNESS				
Drg Status <b>PRELIMINARY</b>				
Architect <b>BLACKWOOD ASSOCIATES</b>				
Contract <b>COIS ABHANN LIFFEY VALE BIODIVERSITY CENTRE</b>				
Title <b>HEATING SCHEDULES</b>				
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Scale	(or as shown)			Current Rev
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