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|------------|--------------------------|------|------------------------|-------|
| MANIFOLD 1 | Total Output (w) | 4945 | Flow temp °C | 55 |
| | Total Tube Length (m) | 418 | Return temp °C | 45 |
| | Max Head Loss (kPa) | 16.7 | Δt °C | 10 |
| | Total Water Volume (ltr) | 47.7 | Pipe diameter (mm) | 16 |
| | Total Flow Rate (l/m) | 7.8 | Total Flow Rate (kg/s) | 0.130 |

| Port | Room / Area | Pipe Spacing (mm) | Output (w) | Tube Length (m) | Flow Rate (l/m) | Head Loss (kPa) |
|------|---------------|-------------------|------------|-----------------|-----------------|-----------------|
| 1 | Playroom | 200 | 1287 | 101 | 2.0 | 16.7 |
| 2 | Study | 200 | 943 | 77 | 1.5 | 8.2 |
| 3 | Hall / Shower | 200 / 150 | 348 | 29 | 0.5 | 2.0 |
| 4 | Master Bed | 200 | 1022 | 91 | 1.6 | 10.7 |
| 5 | Master Bed | 200 | 1022 | 91 | 1.6 | 10.7 |
| 6 | En-suite | 200 | 323 | 29 | 0.5 | 2.0 |

| Underfloor Heating Outputs | | | | | | | | | | | | |
|----------------------------|------------|--------|--------|----------------|---------------|------------------------------|--------------------------------|----------------|-----------------------------------|-------------------|-------------------|----------------|
| Manifold | Room | Floor | System | Room Area (m²) | UFH Area (m²) | Room Design Temperature (°C) | Flow / Return Temperature (°C) | Floor Covering | Floor Covering Resistance (m²K/W) | Pipe Spacing (mm) | Design Output (w) | Floor Temp(°C) |
| 1 | Play room | Ground | Screed | 19.8 | 19.8 | 21 | 55 / 45 | Timber | 0.15 | 200 | 1287 | 27.0 |
| | Study | Ground | Screed | 14.5 | 14.5 | 21 | 55 / 45 | Timber | 0.15 | 200 | 943 | 27.0 |
| | Hall | Ground | Screed | 2.6 | 2.6 | 18 | 55 / 45 | Timber | 0.15 | 200 | 205 | 25.3 |
| | Shower | Ground | Screed | 2.2 | 1.2 | 22 | 55 / 45 | Ceramic | 0.00 | 150 | 143 | 33.0 |
| | Master Bed | First | Plated | 35.6 | 33.5 | 18 | 55 / 45 | Carpet | 0.15 | 200 | 2044 | 23.6 |
| | En-suite | First | Plated | 4.2 | 4.2 | 22 | 55 / 45 | Ceramic | 0.00 | 200 | 323 | 29.1 |
| TOTAL | | | | 78.9 | 75.8 | | | | | | 4945 | |

Thermostat locations are for illustration purposes only and final locations should be confirmed on site.

UFH DIRECT

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Project :

2021932

Drawing Title

Underfloor Heating Layout
Ground & First Floor

Drawn:

SR

Checked:

JC

Date:

04/03/2020

Scale:

1:50 @ A3

Rev:

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DRAWING No. :2021932