



CASE STUDY

ELEVATING LUXURY LIVING WITH MULTIPIPE

PROJECT AT A GLANCE:

- New private development
- 7 bedroom executive home
- 24 rooms
- 500 sqm
- 4,300m of MLCP
- Plumbing and Underfloor Heating design
- Heat Loss calculations
- Pumpstations for noise reduction



"Multipipe's expert design and technical support were invaluable in delivering this complex project. Their heat loss calculations ensured optimal comfort and energy efficiency and the use of manifold plumbing simplified installation and future maintenance. I'm confident that the client will enjoy the benefits of this well-designed system for years to come."

Nathan
Takumi Plumbing & Heating

OBJECTIVE



Takumi Plumbing & Heating was tasked with a unique challenge: designing and installing a state-of-the-art plumbing and heating system for a luxurious 7-bedroom private residence. The client's specific requirement was to maintain a consistent temperature throughout the home, ensuring optimal comfort and energy efficiency.

SOLUTION



Recognising the complexity of the project, Takumi turned to Multipipe for expert design and technical support. Our team of experienced and knowledgeable experts collaborated closely with Takumi to develop a bespoke solution that met the client's exact needs.

- **Precision Heat Loss Calculations:** Our qualified engineers meticulously calculated the heat loss for each room, ensuring the underfloor heating system was designed to deliver the desired temperature levels.
- **Variable Centre Underfloor Heating:** To maximise efficiency and minimise energy consumption, Multipipe designed a variable centre underfloor heating system, tailoring the pipe spacing to the specific heat loss requirements of each room.
- **Manifold Plumbing:** A hybrid manifold system was installed to streamline distribution and simplify maintenance. This approach also minimised the risk of leaks and ensured optimal water flow to all fixtures.
- **Efficient Pumpstations:** Compact and quiet pumpstations were strategically placed in the plant room to reduce noise and meet the client's requirement for all pumps to be in one area.

The successful implementation of Multipipe's solutions resulted in a luxurious and comfortable living environment for the client. The underfloor heating system delivers consistent warmth, while the efficient plumbing design ensures optimal water flow and pressure.

MULTIPIPE