

Auckland Region Women's Correction Facility

Scope of Work

McAlpine Hussmann provided heating, ventilation and air conditioning services for a new women's prison in Wiri, Auckland.

- The prison is designed to house 286 female inmates and is the largest women's prison in the country.
- There's a total of 38 buildings on 13 hectares of land.
- The project's value is \$8.7m.
- 159 staff are employed at the prison.
- The whole facility is centred around rehabilitation.



Engineering Features

The project involved the supply of air conditioning and underfloor heating to all accommodation blocks and administration buildings.

- Two chillers (955kW, and 127kW) and two condensing boilers (both 1200kW) supply chilled/hot water through 9km of pre-insulated piping to the site.
- The HVAC systems are controlled and monitored by a BMS installed by Honeywell.
- MHL also supplied the low temp. hot water system for space, underfloor heating and domestic use.
- We also supplied HVAC and refrigeration to the kitchen, including coolrooms and a freezer room.

Project Highlights

The unique aspect of this project was the type of contract used - a Collaborative Working Agreement (CWA).

Under a CWA:

- Risks associated with the project design, construction and commissioning are jointly managed by all parties.
- Gain/Pain share arrangement exists - outstanding project outcomes are well rewarded, while failure to achieve targeted outcomes results in all parties sharing commercial "pain".
- A site-based self-contained engineering project management and installation team was setup specifically for the entire duration of this very successful project.