



TATRY/ARBOUR MILLS RESIDENTIAL COMPLEX: MISSISSAUGA, ONTARIO



Firm's Role

Environmental and Mechanical Consulting

Description

The Tatry/Arbour Mills complex is a unique non-profit housing project on two separately owned pieces of land, sharing a district heating system. The complex consists of two low-rise towers composed of 250 affordable residential units, one floor of street front retail and underground parking. The project had a performance target of 80% CO₂ reduction over provincial standards at no incremental cost, and a superior living environment with individual control of ventilation, heating, and cooling was achieved.

Features

- Advanced envelope design
- Suite-by-suite ventilation with heat recovery
- In-suite heating and cooling delivered passively via ceiling convectors
- High performance fenestration for minimal heating and cooling loads
- Electrical load supplied by cogeneration
- Space and domestic water heating augmented by cogenerated heat
- Space cooling is provided by a hybrid absorption/electric chilling system
- Waste management, water conservation, and non-toxic construction practices were employed

Architect: Quadrangle Architects

Owners: Tatry Housing & Peel Housing

- United Nations Habitat Award
- Boston Society of Architects' Sustainable Design Award