



CARLETON UNIVERSITY FRONTENAC HOUSE

OTTAWA, ON

QUICK FACTS

- + Post-Secondary
- + Student Housing
- + 88,824 square feet
- + \$15.3-million Budget
- + Smith + Andersen
Mechanical and Electrical

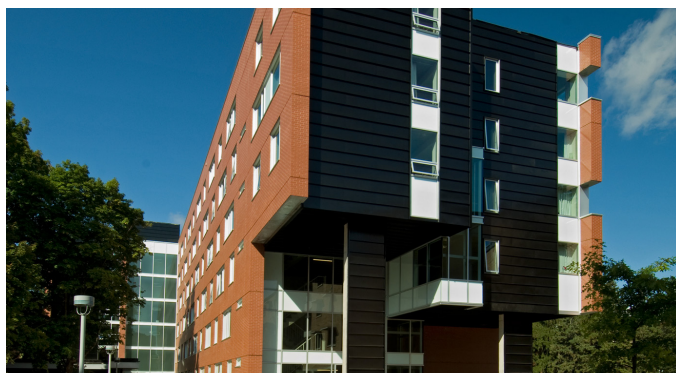


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CARLETON UNIVERSITY FRONTENAC HOUSE

ABOUT THIS PROJECT

- + Six-storey student residence (connected to an adjacent residence building) accommodates 250 students with 125 two bedroom suites, laundry facilities and common lounge rooms.
- + Each suite consists of two single bedrooms around a common area with a shared bathroom and a meal preparation / dining area.
- + Suites served by two-pipe vertical stacked fan coil units and the corridors are pressurized with ventilation air for odour control.
- + A central roof top unit recovers heat and humidity from the suite sanitary exhaust air in the winter to pre-treat the ventilation air using an enthalpy recovery wheel.
- + Campus heating plant provides steam to generate space heating water, heating glycol for the central roof top unit, and domestic hot water.
- + Domestic hot water is generated through the use of instantaneous hot water heaters and storage water heaters.
- + A 170 ton air cooled chiller provides chilled water to the two pipe fan coil system through a “change over” heat exchanger.
- + Connected to one of the campus’ 13.8kV loop feeders with a mini-substation located in the basement electrical room and back feeds another residence building.

LOCATION

Ottawa, ON

SMITH + ANDERSEN SERVICES PROVIDED

Mechanical, Electrical

KEY TEAM MEMBERS

IBI Group Architects

SIZE

88,824 sq. ft. (8,254 sq. m.)

BUDGET

\$15.3 Million

COMPLETION YEAR

2008

SUSTAINABILITY

Designed to
Green Globes™ System

HOT BUTTONS

POST-SECONDARY

MULTI-UNIT

STUDENT HOUSING

UPGRADES

GREEN GLOBES

MECHANICAL DESIGN

ELECTRICAL DESIGN



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