



DIK TIY INDEPENDENT LIVING FACILITY

SMITHERS, BC



QUICK FACTS

- + Affordable Housing
- + Passive House
- + 13,993 square feet
- + Georgie Award, *Best Certified Project* (2020)
- + Smith + Andersen Mechanical and Electrical



PHOTO CREDIT: Cornerstone Architecture



DIK TIY INDEPENDENT LIVING FACILITY

ABOUT THIS PROJECT

- + Three-storey residential building, accommodating seniors and persons with disabilities across 19 affordable housing units.
- + Achieved Passive House certification (the first Passive House certification in BC).
- + Designed mechanical and electrical systems to have minimal impact on the building in order to meet the rigorous Passive House standards.
- + Minimalist design approach helped minimize the energy used for heating and cooling, improve comfort and air quality, and reduce utility costs.
- + Mechanical design featured an ultra-efficient centralized heat recovery ventilation system.
- + CO2 heat pumps were installed as the primary source of hot water (with electrical backup).
- + Adjusted the design to operate in the extreme cold (due to the minus 30 degree Celsius temperatures experienced in Smithers).

LOCATION
Smithers, BC

SMITH + ANDERSEN
SERVICES PROVIDED
Mechanical, Electrical

SIZE
13,993 sq. ft. (1,300 sq. m.)

BUDGET
Confidential

COMPLETION YEAR
2017

SUSTAINABILITY
Passive House Certification

AWARDS
Georgie Award,
Best Certified Project (2020)

HOT BUTTONS

RESIDENTIAL

PASSIVE HOUSE

MECHANICAL DESIGN

ELECTRICAL DESIGN



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