

NET ZERO

MULTI-UNIT RESIDENTIAL BUILDING



BUILDER Zirnhelt Timber Frames

Energy Advisor Gilles Lesage, Total Home Solutions

Location Williams Lake, BC (climate zone 6)

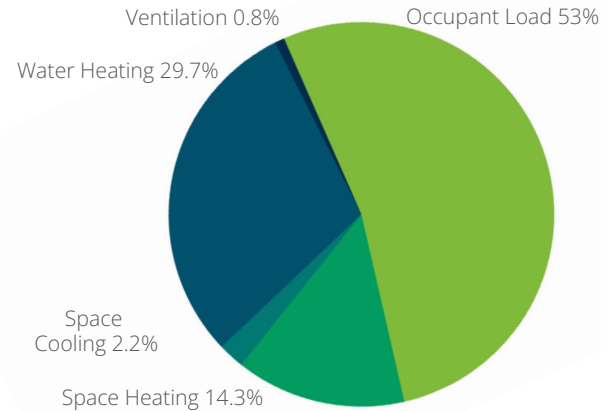


Code-Built
MURB:
79 GJ/yr

This MURB:
57 GJ/yr



Modelled Energy Use Breakdown



Energy modelling results are from HOT2000 Version 11.11.
The total modelled operational GHG emissions are 0.0 tonnes/CO₂e/yr.

BUILDING ENCLOSURE

Windows:

Triple dual, Low e 270

Walls:

2x8" R28 blown in + R8 Roxul exterior insulation

Ceiling:

R46 Expanded Polystyrene (EPS)

Foundation:

R28 ICF

R12.5 foam under slab

Airtightness:

0.57 ACH@50

Envelope:

66% better than NRCAN ref

MECHANICALS

Fuel Source:

All-Electric

Heating & Cooling:

Mini-split ASHP,
Electric baseboards

Water Heating:

Electric Tank

Ventilation:

VanEE HRV

OTHER FEATURES

Units:

2 total, (1 bedroom units)

Prefabrication Approach:

Off-site panelized

Labelling Approach:

Whole Building

Common Area:

N/A

Building Ownership:

Rental Building

