



BUILDER A

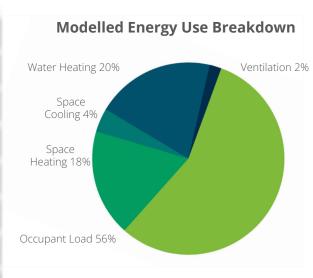
Avalon Master Builder

Energy Advisor

Cooper Le, 4 Elements Integrated Design

Location Calgary, AB (Climate zone 7a)





Energy modelling results are from HOT2000 Version 11.11. The total modelled operational GHG emissions are 46.4 tonnes/CO₂e/yr.

BUILDING ENCLOSURE

Windows:

Triple glazed, Low e **Walls:** R22 batt + R7.5 rigid foam

Ceiling: R60 blown-in

Foundation:

R20 batt + R10 rigid foam R15 foam under slab

Airtightness:

1.4 ACH@50 (on avg.)Envelope:64% better than NRCan ref (on avg.)

MECHANICALS

Code-Built MURB:

This MURB:

This MURB with Installed Renewables:

436 GJ/yr

207 GJ/yr

661 GJ/yr

Fuel Source: All-electric

Heating & Cooling: NZ Upper units: ccASHP + electric resistance backup NZr Lower units: Electric baseboards

Water Heating: NZ Upper units: Heat pump NZr Lower units: Electric tank

Ventilation: Lifebreath HRVs

OTHER FEATURES

Units: 16 total 1, 2, and 3 bdrm units Prefabrication Approach: Off-site prefab framing Labelling Approach: Individual unit Common Area: N/A Building Ownership: Freehold



"Avalon's Net Zero homes in Zen Sequel have proven that the cost of financing net zero and the utility savings associated with a net zero home have finally come to intersect. Zen Sequel homeowners live in healthier, more comfortable, and quieter homes for the same monthly cost, averaged over the year, as non net zero homes."

- Chris Williams , Vice President