

BUILDER Wriighthaven Homes Ltd.

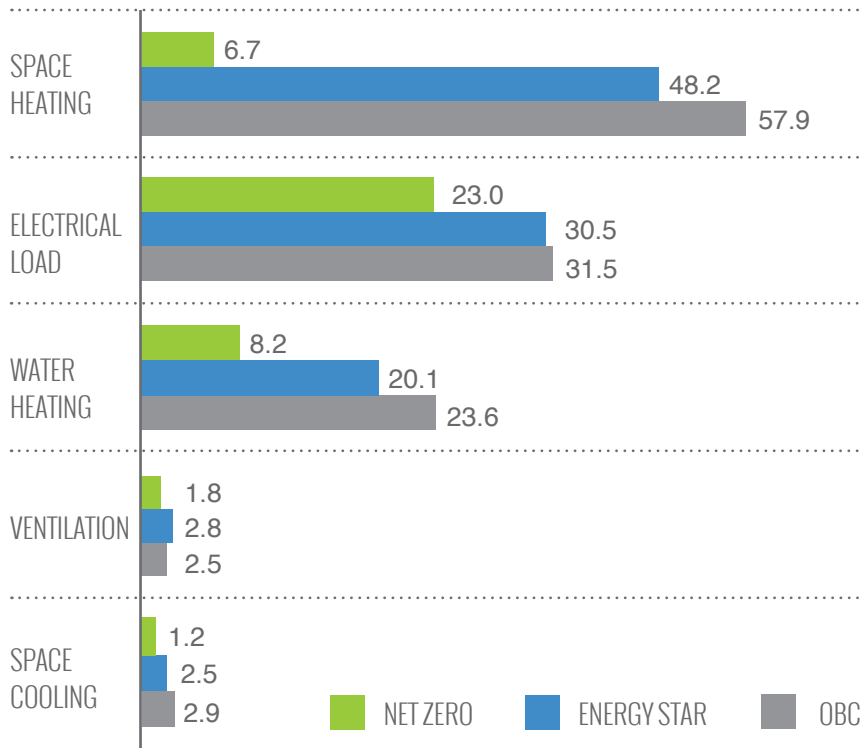
MODEL The Solhaven

TECHNICAL STANDARD R2000 Net Zero Energy Pilot Technical Procedures

PROGRAM R2000 Net Zero Energy Pilot Home



ENERGY CONSUMPTION



NET ZERO CONSUMPTION 41 GJ/yr



NET ANNUAL ENERGY -8 GJ

BUILDING ENCLOSURE

Air Barrier

Spray-in-place Foam + Interior Air Barrier

Framing

2x8 @ 24" o.c.

Insulation

Ceiling | R60 Blown-in

Main Walls | R11 Exterior Foam + R42 2lb SPF

Foundation Walls | R12 2lb SPF + R20 Batt

Basement Slab | R12 2lb SPF

Windows and Doors

Golden Triples | R4.5+, < 0.4 SHGC

MECHANICALS

Heating and Cooling

Daiken Skyair Air Source Heat Pump

Water Heating

Daiken Altherma Air Source Heat Pump

Ventilation

Venmar EKO 1.5 ERV

RENEWABLE ENERGY

Photovoltaic System

44 Panels | 250 W Polycrystalline Modules

Electrical Storage Capacity

Off-grid Capability | 3 day battery storage capacity