

House Specifications (revised 8-18-2023 for MiNet0-1)

1. R47 walls (dense-packed cellulose in double stud walls)
2. R84 roof (dense-packed cellulose) ((conditioned attic))
3. R31 floor ([Glavel](#) foamed glass aggregate)
4. Pro Clima [Intello](#) primary air barrier, [Mento Plus](#) secondary air barrier and WRB.
5. Net Zero Envelope Materials (per Builder's for Climate Action [BEAM](#) calculator)
  - a. Foam-free and concrete-free construction
    - i. Permanent wood foundation.
    - ii. Wood subfloor on [Glavel](#).
  - b. Dense-packed cellulose insulation (sequesters carbon)
  - c. [Alpen](#) quad-pane, tilt-turn Phius-Certified, windows.
6. Finishes: ILFI [Red-List](#) free materials:
  - a. bamboo flooring and siding (also sequesters carbon)
  - b. 5/8" EcoSmart drywall (low carbon impact)
  - c. special paint (low VOCs, brand TBD)
  - d. wood cabinets (low VOCs, brand TBD)
7. Appliances and HVAC
  - a. [Mitsubishi](#) low ambient heat pump
  - b. [Sanden](#) heat pump water heater
  - c. [Zehnder](#) Energy Recovery Ventilator
  - d. Bosch induction range
  - e. Bosch heat pump dryer
8. All Electric Energy System
  - a. 13 kWp Q-cell solar array (provides energy for house and two EVs).
  - b. 30 kWh home battery (for grid-down operation and future VPP capability)
  - c. Vehicle to home (bi-directional) EV charging (also for future VPP capability)
  - d. [Span](#) smart electrical panel
  - e. Consumer's Energy interconnection

House Certifications:

1. [Phius Zero](#)
  - a. [DOE Zero Energy Ready](#)
  - b. [Energy Star](#)
  - c. EPA [WaterSense](#)
  - d. EPA [Indoor airPLUS](#)
  - e. IBHS [Fortified](#)
2. [Greenstar](#) Platinum
3. [LEED](#) Platinum