

Project #41 – Classic



Brooke Residence

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Participant Information:
Premier Building Systems LLC
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Category: Single Family Homes under 3,000 sq. ft.

Project Information:
Brooke Residence
392 Buck Loop Road
Sequim, WA 98382

Date completed: 2021

Total sq. ft.: 2,500

Built by:
Teresa Brook
392 Buck Loop Road
Sequim, WA 98382

Panels Manufactured by: Premier Building Systems LLC

Designed by:
Teresa Brook
392 Buck Loop Road
Sequim, WA 98382



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Building use:
Forever Home

How did SIP construction help you get this job?

Saved a few trees. Fast and easier installation vs wood trusses. Premier made it easy for me to understand the how, why's, etc. and was always available to help on the spot! Of course it saved me labor, materials, and future energy consumption! Love the quietness and strength!

SIP wall thickness: na
SIP roof thickness: 10"

Innovative design elements:

Blend with nature, save nature, minimal footprint on nature. Strong, long wear (centuries) energy efficient. Single female CAN DO IT

Energy use intensity in kBtu/ft²:

ICF + radiant heating throughout + Marvin windows + boiler + propane usage (see plans for reports). We just turned on the radiant heat after Thanksgiving (the home is like living in a cave...stable temps). Still have 40% unused propane since first and only fill.

HVAC system: No Heat Pump

Energy-saving materials used in the building envelope:
Marvin wood clad windows.

Energy-efficient products or design features:

LED lighting. Radiant heating. Propane boiler for both radiant and potable water. Whole house water system well. LG appliances (high energy efficiency + propane cooktop), x6 sola tubes. Utilized all wood scraps for framing projects including (x5 shelves from beams).

Additional sustainable materials or design features:

Whole house water filter for excessive minerals/iron/bacteria/virus removal. Hardy exterior siding that is stained x20 years. Kept old growth trees. Natural landscape with native plants that feed insects, birds, and bees. On the bluff of the Strait of Juan de Luca (Olympic Peninsula) that includes strict land management.

Additional comments:

Quiet, stable temp without drafts summer-winter. Strong structure to withstand the coast winds, falling trees, earthquakes. Cheap heating and cooling in the summer not needed. Windows offer a healthy airflow with 24 hours venting throughout home. No heat pump

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