

Home Energy Rating Certificate

UNOFFICIAL



The Home Located At:

WASI Phase 2
Wasilla, Alaska

Has Been Energy-Rated As:

★★★★★ +

Five Star Plus

Efficiency Score

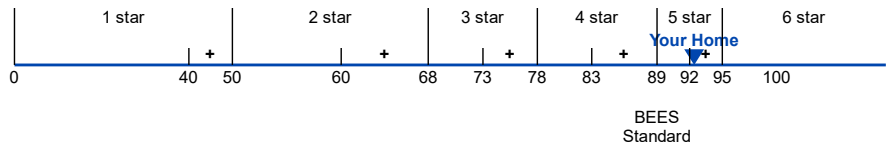
92.4 points

Renewables Bonus

0.0 points

Combined Score

92.4 points



Amount of CO2 Produced by the Home

351,908 pounds per year

Projected Annual Energy Costs

\$59,249 per year

Breakdown of Costs, \$ Per Year

Floor	\$541
Wall/Door	\$1,069
Window	\$1,079
Ceiling	\$413
Air/Vent	\$2,525
Htg System Loss	\$1,001
Hot Water	\$4,640
Cooling	\$0
Lights/Appl.	\$47,981
Renewables	\$0

Client: Spark Design, llc. Rater: Linda Frank, Horizons llc Date: 2/1/2023
 Rater's City: Eagle River, AK. 99577 Contact: 907-240-8585, horizons@mtaonline.net
 ver. 2.11.0.0, library: 9/27/2022, file: WASI Ph 2.hm2, Rating Type: From Plans

I certify that this Rating is true and correct, to the best of my knowledge and belief: Linda Frank
 Rater Signature



Energy Cost and Features Report

(DOCUMENT DOES NOT NEED TO BE RECORDED)

Property: Spark Design, Ilc.
WASI Phase 2
Wasilla, Alaska

Rater: Linda Frank
Horizons Ilc
10900 Corrie Way
Eagle River, AK. 99577

House: Multi-Family, Whole Building
Living Floor Area: 38,967 square feet
No Attached Garage

Rating: From Plans
ID: WASI Phase 2 rbp

Envelope Efficiency

Floor Insulation	R-29.5 *
Wall/Door Insulation	R-17.0
Ceiling Insulation	R-38.7
Window U-Value	U-0.35
Window SHGC	0.35
Window to Wall Ratio, Living Space	19.5%
South Facing Window Area	1514 square feet
Air Leakage	2.8 Air Changes per Hour at 50 Pascals 0.26 Air Changes per Hour Natural

* Includes the insulating value of the ground in contact with these components.

Space Heating System

Fuel	Natural Gas
System Type	Boiler
Model	Lochinvar Knight KBN601 X2
Efficiency	87%
Btu/hr Output	186,600 - 933,000 Btu/hr
Primary Htg. Sys. Design Load	535,185 Btu/hr
Garage Htg. Sys. Design Load	0 Btu/hr
Supplemental Fuel	None
Thermostat Setting	70.0 degrees F
Setback Thermostat	Yes, Controls Entire Home

Water Heater

Efficiency	90%
Location	Conditioned Space
Fuel Type	Natural Gas

Space Cooling System

None Present

Ventilation

System Type	Continuous Ventilation without
Required Ventilation	690 CFM
Measured Ventilation	700 CFM

Other

Number of Bedrooms	50
Clothes Dryer Fuel	Electricity
Cooking Range Fuel	Electricity
Oven Fuel	Electricity
Miscellaneous Lights/Appliance Use	Average
CAZ Test Normal Conditions	Pass

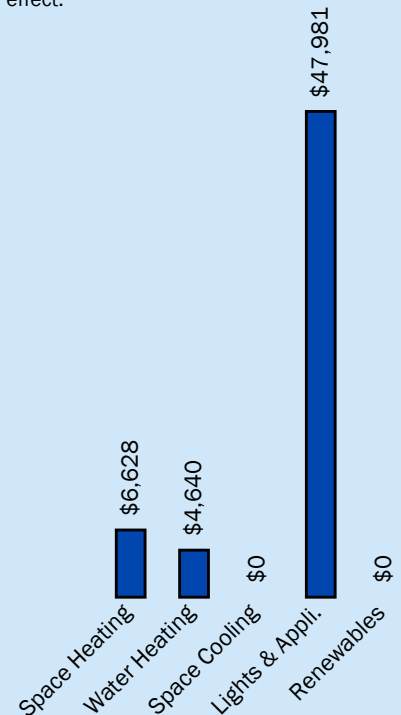
Additional Information:

Ignoring 0.0 MMBtu excess renewable space heat for month 6. Ignoring 0.0 MMBtu excess renewable space heat for month 7.

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Estimated Annual Energy Costs

Actual use and costs may vary from these estimates depending upon weather conditions, occupant life styles and utility rates currently in effect.



Electricity: \$0.1935/kWh, Natural Gas: \$1/ccf
Space Heating: 826 kWh of Electricity, 6,447 ccf of Natural Gas
Water Heating: 4,625 ccf of Natural Gas
Space Cooling:
Lights & Appliances: 248,000 kWh of Electricity

