

Home Energy Rating Certificate



UNOFFICIAL

The Home Located At:

Northwest Region
Nome, Alaska

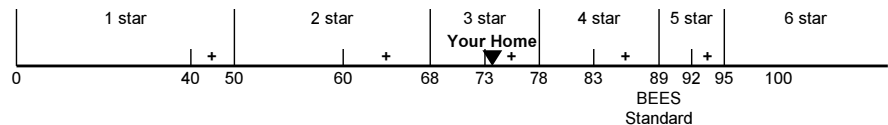
Has Been Energy-Rated As:



Three Star Plus

Overall Efficiency of Home

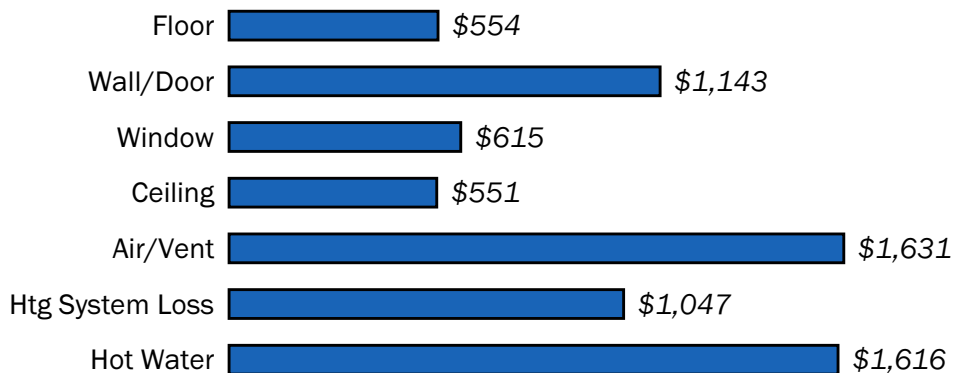
73.7 points



Amount of CO2 Produced by the Home

34,028 pounds per year

Breakdown of Heating Costs, \$ Per Year



Projected Annual Energy Costs

\$8,655 per year

Client: Prototype Home Rater: Dustin Madden, CCHRC Date: 10/24/2014
Rater's City: Contact:
ver. 2.3.2.1, library: 4/11/2014, file: Nome Prototype - Retrofit Model.hm2, Rating Type: From Plans

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

Rater Signature



Energy Cost and Features Report

Property: Prototype Home
Northwest Region
Nome, Alaska

Rater: Dustin Madden
CCHRC

House: Single Family
Living Floor Area: 1,470 square feet
No Attached Garage

Rating: From Plans

Envelope Efficiency

Floor Insulation	R-30.6
Wall/Door Insulation	R-14.1
Ceiling Insulation	R-32.4
Window R-Value	R-1.96
Window to Wall Ratio, Living Space	11.3%
South Facing Window Area	62 square feet
Air Leakage	6.9 Air Changes per Hour at 50 Pascals 0.48 Air Changes per Hour Natural

Space Heating System

System Efficiency	82%
Fuel Type	#1 Oil
Supplemental Fuel	None
Thermostat Setting	70.0 degrees F
Setback Thermostat	None

Water Heater

Efficiency	60%
Location	Conditioned Space
Fuel Type	#1 Oil

Space Cooling System

None Present

Ventilation

None

Other

Number of Occupants	4
Clothes Dryer Fuel	Electricity
Cooking Range Fuel	Electricity
Miscellaneous Lights/Appliance Use	Average

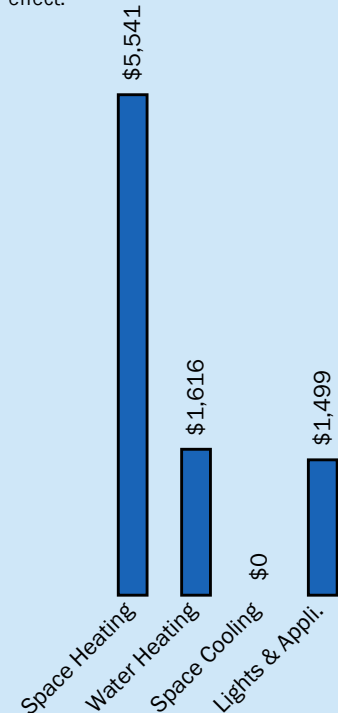
WILL NOT COMPLY WITH BUILDING ENERGY EFFICIENCY STANDARD. Does not receive enough points (89.0 points required). Home does Not meet Air Tightness Requirements.

VENTILATION WARNING: The measured air tightness of this home indicates that it may not provide sufficient ventilation air (for acceptable indoor quality) as defined by ASHRAE 62.2 2010, without adequate mechanical ventilation equipment. If whole house mechanical ventilation equipment has been installed, it is recommended that it be properly maintained and operated. If no whole house mechanical ventilation equipment has been installed, it is strongly recommended that the homeowner consider an investment in this improvement. (A test of the building's ventilation air rate would help determine the importance of a mechanical ventilation system in this home.)

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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: \$0.2147/kWh, #1 Oil: \$6.28/gallons
Space Heating: 280 kWh of Electricity, 873 gallons of #1 Oil
Water Heating: 257 gallons of #1 Oil
Space Cooling:
Lights & Appliances: 6,980 kWh of Electricity

