



HOME ENERGY RATING CERTIFICATE

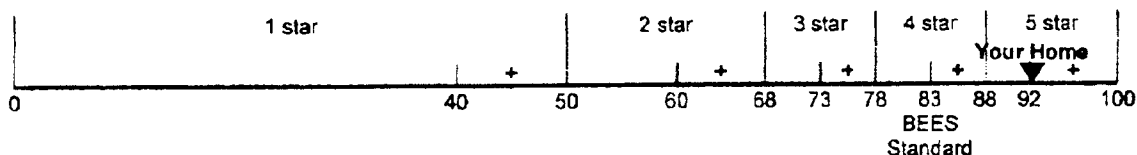
The Home Located At:
L12 B2Memory Lakes Commercial RSB T/C
Wasilla, Alaska

Has Been Energy-Rated As:



Five Star Plus

Overall Efficiency of Home
92.2 points



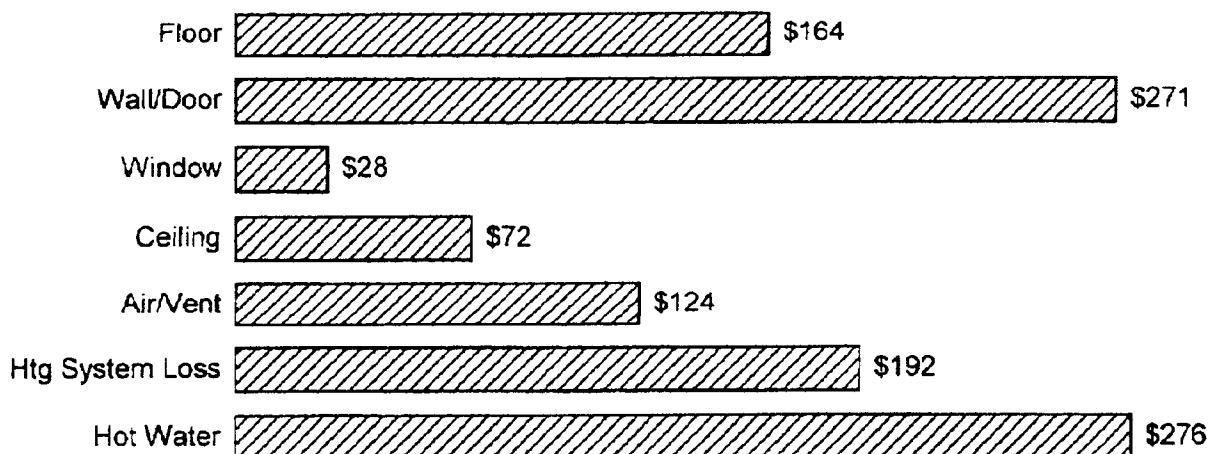
Projected Annual Energy Costs

\$2,067 per year

Amount of CO2 Produced by the Home

18,483 pounds per year

BREAKDOWN OF HEATING COSTS, \$ PER YEAR



Client: Pacific North Construction Rater: Bret D. Vice, Active Energy Inspections Date: 11/16/2009

Rater's City: Anchorage, Alaska 99523-2936 Contact: 561-7474, FAX 561-7474
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ENERGY COST AND FEATURES REPORT

Property: Pacific North Construction
 L12 B2Memory Lakes Commercial RSB T/C
 Wasilla, Alaska

Rater: Bret D. Vice
 Active Energy Inspections
 PO Box 232936
 Anchorage, Alaska 99523-2936

House: Single Family
 Living Floor Area: 1,237 square feet
 2-Car Attached Garage

Rating: BEES
 ID: BDV11/12/09#4

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 2004, 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.)

Envelope Efficiency

Floor Insulation	R-22.0 *
Wall/Door Insulation	R-16.2 *
Ceiling Insulation	R-50.3
Window R-Value	R-3.23
Window to Wall Ratio, Living Space	7.2%
South Facing Window Area	0 square feet
Air Leakage	1.9 Air Changes per Hour at 50 Pascals
	0.10 Air Changes per Hour Natural

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

Space Heating System

System Efficiency	96%
Fuel Type	Natural Gas
Supplemental Fuel	Natural Gas
Thermostat Setting	70.0 degrees F
Setback Thermostat	Yes, Controls Entire Home

Water Heater

Efficiency	84%
Location	Conditioned Space
Fuel Type	Natural Gas




Ventilation

Heat Recovery Ventilator

Other

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

ESTIMATED ANNUAL ENERGY COST

Space Heating		\$852
Water Heating		\$276
Lights and Appliances		\$940

Space Heating	813 kWh of Electricity, 662 ccf of Natural Gas
Water Heating	252 ccf of Natural Gas
Lights and Appliances	5,271 kWh of Electricity, 103 ccf of Natural Gas

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

Rater Notes: 11/12/09 Thi shouse could make a 5*+ rating by adding a row of R19 insulation to the 2'-4' perimeter of the crawlspace floor

11/16/09 Per ICBO inspector Caryl Swinford, there is now R19 insulation on the 2'-4' perimeter of the crawlspace floor.