

Home Energy Rating Certificate

UNOFFICIAL



The Home Located At:
 Old Mat PH 2 B1-2A Unit A.1
 Wasilla, Alaska

Has Been Energy-Rated As:

★ ★ ★ ★ ★ ★

Six Star

Efficiency Score

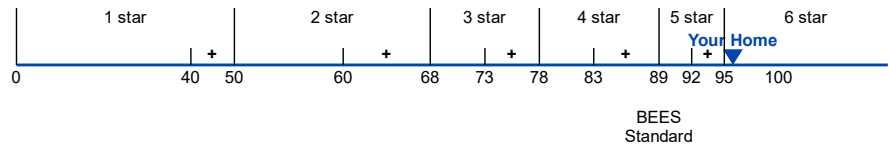
95.8 points

Renewables Bonus

0.0 points

Combined Score

95.8 points



Amount of CO2 Produced by the Home

10,571 pounds per year

Projected Annual Energy Costs

\$2,046 per year

Breakdown of Costs, \$ Per Year

Floor	\$21
Wall/Door	\$129
Window	\$52
Ceiling	\$26
Air/Vent	\$144
Htg System Loss	\$64
Hot Water	\$190
Cooling	\$0
Lights/Appl.	\$1,421
Renewables	\$0

Client: Spark Design, Ilc., Cook Inlet Housing Authority
 Rater's City: Eagle River, AK. 99577
 Rater: Linda Frank, Horizons Ilc
 Contact: 907-240-8585, horizons@mtaonline.net
 ver. 2.11.0.0, library: 9/27/2022, file: Old Mat PH 2 B1-2A Unit A.1.hm2, Rating Type: From Plans

Date: 2/7/2023

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., Cook Inlet Housing Authority
Old Mat PH 2 B1-2A Unit A.1
Wasilla, Alaska

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

House: Multi-Family, One Unit
Living Floor Area: 966 square feet
Attached Garage, 374 square feet

Rating: From Plans
ID: Old Mat PH 2 B1-2A Unit A.1

Envelope Efficiency

Floor Insulation R-31.6 *
Wall/Door Insulation R-32.9
Ceiling Insulation R-39.6
Window U-Value U-0.27
Window SHGC 0.30
Window to Wall Ratio, Living Space 6.7%
South Facing Window Area 0 square feet
Air Leakage 3.5 Air Changes per Hour at 50 Pascals
0.29 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 Navien ncb150e
Efficiency 87%
Btu/hr Output 11,400 - 57,000 Btu/hr
Primary Htg. Sys. Design Load 12,846 Btu/hr
Garage Htg. Sys. Design Load 2,496 Btu/hr
Supplemental Fuel None
Thermostat Setting 70.0 degrees F
Setback Thermostat Yes, Controls Entire Home

Water Heater

Efficiency 95%
Location Conditioned Space
Fuel Type Natural Gas

Space Cooling System

None Present

Ventilation

System Type Continuous Ventilation without
Required Ventilation 20 CFM
Measured Ventilation 80 CFM

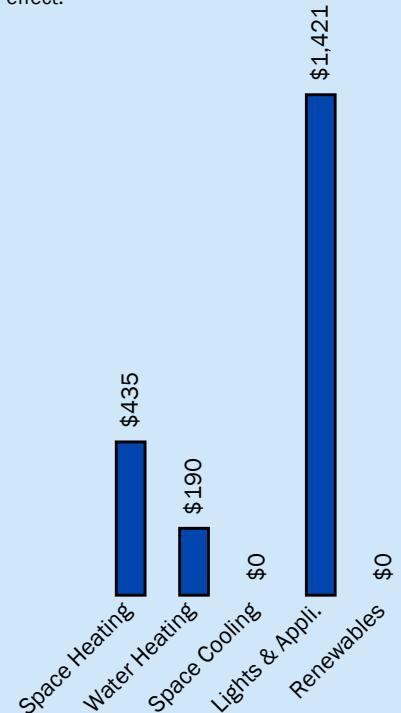
Other

Number of Bedrooms 2
Clothes Dryer Fuel Electricity
Cooking Range Fuel Electricity
Oven Fuel Electricity
Miscellaneous Lights/Appliance Use Average
CAZ Test Normal Conditions Pass

ver. 2.11.0.0, library: 9/27/2022, file: Old Mat PH 2 B1-2A Unit A.1.hm2

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: \$0.2299/kWh, Natural Gas: \$1.43/ccf
Space Heating: 38 kWh of Electricity, 297 ccf of Natural Gas
Water Heating: 132 ccf of Natural Gas
Space Cooling:
Lights & Appliances: 6,182 kWh of Electricity



Home Energy Rating Certificate

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The Home Located At:

*Old Mat PH 2 B1A Unit A.2 Outside Unit
Wasilla, Alaska*

Has Been Energy-Rated As:

★★★★★ +

Five Star Plus

Efficiency Score

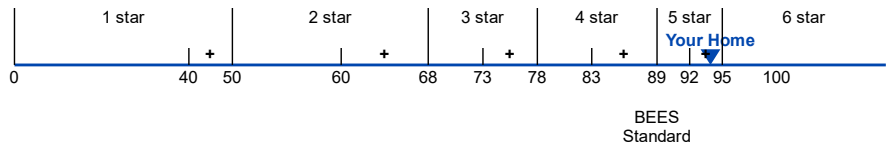
93.9 points

Renewables Bonus

0.0 points

Combined Score

93.9 points



Amount of CO2 Produced by the Home

11,181 pounds per year

Projected Annual Energy Costs

\$2,096 per year

Breakdown of Costs, \$ Per Year

Floor	\$29
Wall/Door	\$167
Window	\$52
Ceiling	\$26
Air/Vent	\$147
Htg System Loss	\$73
Hot Water	\$183
Cooling	\$0
Lights/Appl.	\$1,417
Renewables	\$0

Client: Spark Design, Ilc., Cook Inlet Housing Authority Rater: Linda Frank, Horizons Ilc Date: 2/7/2023
 Rater's City: Eagle River, AK. 99577 Contact: 907-240-8585, horizons@mtaonline.net
 ver. 2.11.0.0, library: 9/27/2022, file: Old Mat PH 2 B1A Unit A.2 Outside Unit.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., Cook Inlet Housing Authority
 Old Mat PH 2 B1A Unit A.2 Outside Unit
 Wasilla, Alaska

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

House: Multi-Family, One Unit
 Living Floor Area: 954 square feet
 Attached Garage, 374 square feet

Rating: From Plans
 ID: Old Mat PH 2 B1A Unit A.2 Outside Unit

Envelope Efficiency

Floor Insulation R-23.5 *
 Wall/Door Insulation R-24.6
 Ceiling Insulation R-39.6
 Window U-Value U-0.27
 Window SHGC 0.30
 Window to Wall Ratio, Living Space 7.1%
 South Facing Window Area 0 square feet
 Air Leakage 3.5 Air Changes per Hour at 50 Pascals
 0.29 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 Navien ncb150e
 Efficiency 87%
 Btu/hr Output 11,400 - 57,000 Btu/hr
 Primary Htg. Sys. Design Load 13,583 Btu/hr
 Garage Htg. Sys. Design Load 3,189 Btu/hr
 Supplemental Fuel None
 Thermostat Setting 70.0 degrees F
 Setback Thermostat Yes, Controls Entire Home

Water Heater

Efficiency 95%
 Location Conditioned Space
 Fuel Type Natural Gas

Space Cooling System

None Present

Ventilation

System Type Continuous Ventilation without
 Required Ventilation 20 CFM
 Measured Ventilation 80 CFM

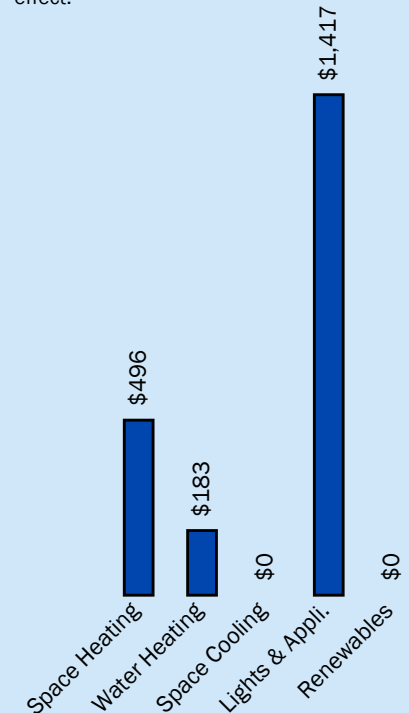
Other

Number of Bedrooms 2
 Clothes Dryer Fuel Electricity
 Cooking Range Fuel Electricity
 Oven Fuel Electricity
 Miscellaneous Lights/Appliance Use Average
 CAZ Test Normal Conditions Pass

ver. 2.11.0.0, library: 9/27/2022, file: Old Mat PH 2 B1A Unit A.2 Outside Unit.hm2

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: \$0.23/kWh, Natural Gas: \$1.38/ccf
 Space Heating: 45 kWh of Electricity, 351 ccf of Natural Gas
 Water Heating: 132 ccf of Natural Gas
 Space Cooling:
 Lights & Appliances: 6,162 kWh of Electricity



Home Energy Rating Certificate

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The Home Located At:

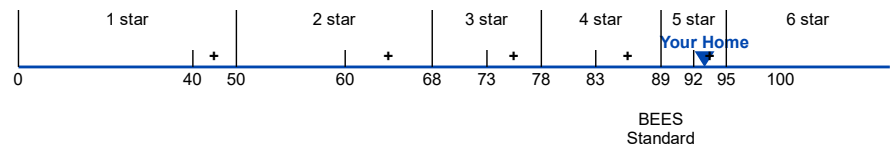
*Old Mat PH 2 B2A Unit B.1
Wasilla, Alaska*

Has Been Energy-Rated As:

★★★★★ +

Five Star Plus

Efficiency Score	Renewables Bonus	Combined Score
93.0 points	0.0 points	93.0 points



Amount of CO2 Produced by the Home

10,951 pounds per year

Projected Annual Energy Costs

\$2,071 per year

Breakdown of Costs, \$ Per Year

Floor	\$59
Wall/Door	\$169
Window	\$67
Ceiling	\$43
Air/Vent	\$121
Htg System Loss	\$80
Hot Water	\$126
Cooling	\$0
Lights/Appl.	\$1,407
Renewables	\$0

Client: Spark Design, Ilc., Cook Inlet Housing Authority Rater: Linda Frank, Horizons Ilc
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I certify that this Rating is true and correct, to the best of my knowledge and belief: _____
 Rater Signature



Energy Cost and Features Report

(DOCUMENT DOES NOT NEED TO BE RECORDED)

Property: Spark Design, Ilc., Cook Inlet Housing Authority
Old Mat PH 2 B2A Unit B.1
Wasilla, Alaska

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

House: Multi-Family, One Unit
Living Floor Area: 900 square feet
Attached Garage, 357 square feet

Rating: From Plans
ID: Old Mat PH 2 B2A Unit B.1

Envelope Efficiency

Floor Insulation R-29.3 *
Wall/Door Insulation R-21.1
Ceiling Insulation R-49.3
Window U-Value U-0.27
Window SHGC 0.30
Window to Wall Ratio, Living Space 11.0%
South Facing Window Area 0 square feet
Air Leakage 3.0 Air Changes per Hour at 50 Pascals
0.20 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 Navien ncb150e
Efficiency 87%
Btu/hr Output 11,400 - 57,000 Btu/hr
Primary Htg. Sys. Design Load 13,092 Btu/hr
Garage Htg. Sys. Design Load 2,309 Btu/hr
Supplemental Fuel None
Thermostat Setting 70.0 degrees F
Setback Thermostat Yes, Controls Entire Home

Water Heater

Efficiency 95%
Location Conditioned Space
Fuel Type Natural Gas

Space Cooling System

None Present

Ventilation

System Type Continuous Ventilation without
Required Ventilation 16 CFM
Measured Ventilation 80 CFM

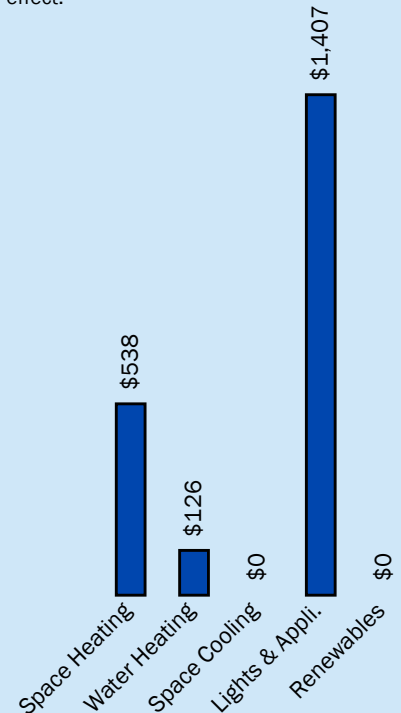
Other

Number of Bedrooms 1
Clothes Dryer Fuel Electricity
Cooking Range Fuel Electricity
Oven Fuel Electricity
Miscellaneous Lights/Appliance Use Average
CAZ Test Normal Conditions Pass

ver. 2.11.0.0, library: 9/27/2022, file: Old Mat PH 2 B2A Unit B.1.hm2

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: \$0.2302/kWh, Natural Gas: \$1.4/ccf
Space Heating: 48 kWh of Electricity, 377 ccf of Natural Gas
Water Heating: 90 ccf of Natural Gas
Space Cooling:
Lights & Appliances: 6,113 kWh of Electricity



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The Home Located At:

*Old Mat PH 2 B2A Unit C.1
Wasilla, Alaska*

Has Been Energy-Rated As:

★★★★★ +

Five Star Plus

Efficiency Score

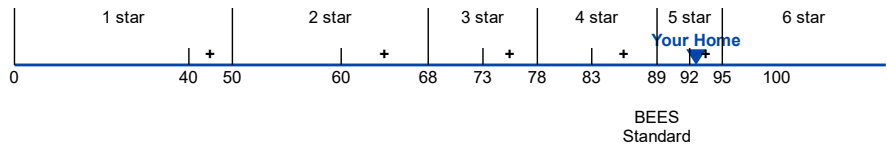
92.6 points

Renewables Bonus

0.0 points

Combined Score

92.6 points



Amount of CO2 Produced by the Home

10,119 pounds per year

Projected Annual Energy Costs

\$1,972 per year

Breakdown of Costs, \$ Per Year

Floor	\$66
Wall/Door	\$152
Window	\$46
Ceiling	\$46
Air/Vent	\$97
Htg System Loss	\$70
Hot Water	\$131
Cooling	\$0
Lights/Appl.	\$1,364
Renewables	\$0

Client: Spark Design, Ilc., Cook Inlet Housing Authority Rater: Linda Frank, Horizons Ilc
 Rater's City: Eagle River, AK. 99577 Contact: 907-240-8585, horizons@mtaonline.net
 ver. 2.11.0.0, library: 9/27/2022, file: Old Mat PH 2 B2A Unit C.1.hm2, Rating Type: From Plans

Date: 2/7/2023

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

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Property: Spark Design, Ilc., Cook Inlet Housing Authority
Old Mat PH 2 B2A Unit C.1
Wasilla, Alaska

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

House: Multi-Family, One Unit
Living Floor Area: 767 square feet
Attached Garage, 317 square feet

Rating: From Plans
ID: Old Mat PH 2 B2A Unit C.1

Envelope Efficiency

Floor Insulation R-35.6 *
Wall/Door Insulation R-18.3
Ceiling Insulation R-51.5
Window U-Value U-0.27
Window SHGC 0.31
Window to Wall Ratio, Living Space 10.1%
South Facing Window Area 0 square feet
Air Leakage 3.1 Air Changes per Hour at 50 Pascals
0.18 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 Navien ncb150e
Efficiency 87%
Btu/hr Output 11,400 - 57,000 Btu/hr
Primary Htg. Sys. Design Load 10,701 Btu/hr
Garage Htg. Sys. Design Load 2,609 Btu/hr
Supplemental Fuel None
Thermostat Setting 70.0 degrees F
Setback Thermostat Yes, Controls Entire Home

Water Heater

Efficiency 95%
Location Conditioned Space
Fuel Type Natural Gas

Space Cooling System

None Present

Ventilation

System Type Continuous Ventilation without
Required Ventilation 16 CFM
Measured Ventilation 80 CFM

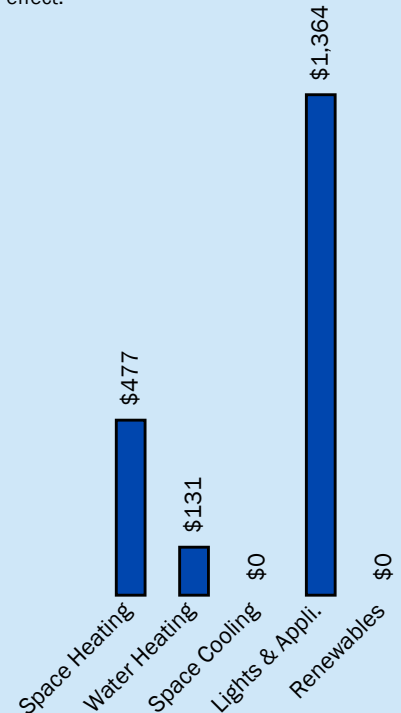
Other

Number of Bedrooms 1
Clothes Dryer Fuel Electricity
Cooking Range Fuel Electricity
Oven Fuel Electricity
Miscellaneous Lights/Appliance Use Average
CAZ Test Normal Conditions Pass

ver. 2.11.0.0, library: 9/27/2022, file: Old Mat PH 2 B2A Unit C.1.hm2

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: \$0.2311/kWh, Natural Gas: \$1.45/ccf
Space Heating: 41 kWh of Electricity, 322 ccf of Natural Gas
Water Heating: 90 ccf of Natural Gas
Space Cooling:
Lights & Appliances: 5,902 kWh of Electricity



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The Home Located At:

*Old Mat PH 2 B1A Unit D.1
Wasilla, Alaska*

Has Been Energy-Rated As:

★★★★★ +

Five Star Plus

Efficiency Score

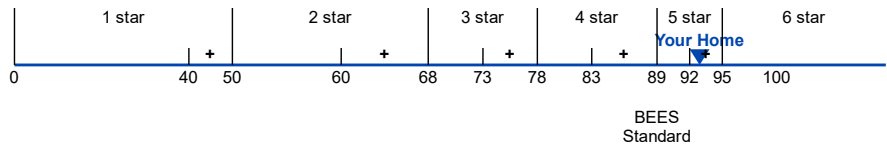
92.9 points

Renewables Bonus

0.0 points

Combined Score

92.9 points



Amount of CO2 Produced by the Home

10,983 pounds per year

Projected Annual Energy Costs

\$2,073 per year

Breakdown of Costs, \$ Per Year

Floor	\$59
Wall/Door	\$169
Window	\$71
Ceiling	\$43
Air/Vent	\$120
Htg System Loss	\$80
Hot Water	\$126
Cooling	\$0
Lights/Appl.	\$1,407
Renewables	\$0

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 Rater's City: Eagle River, AK. 99577
 Rater: Linda Frank, Horizons Ilc
 Contact: 907-240-8585, horizons@mtaonline.net
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Date: 2/7/2023

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 Rater Signature



Energy Cost and Features Report

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Property: Spark Design, Ilc., Cook Inlet Housing Authority
Old Mat PH 2 B1A Unit D.1
Wasilla, Alaska

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

House: Multi-Family, One Unit
Living Floor Area: 900 square feet
Attached Garage, 357 square feet

Rating: From Plans
ID: Old Mat PH 2 B1A Unit D.1

Envelope Efficiency

Floor Insulation R-29.3 *
Wall/Door Insulation R-21.1
Ceiling Insulation R-49.0
Window U-Value U-0.27
Window SHGC 0.30
Window to Wall Ratio, Living Space 11.4%
South Facing Window Area 0 square feet
Air Leakage 3.0 Air Changes per Hour at 50 Pascals
0.20 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 Navien ncb150e
Efficiency 87%
Btu/hr Output 11,400 - 57,000 Btu/hr
Primary Htg. Sys. Design Load 13,197 Btu/hr
Garage Htg. Sys. Design Load 2,309 Btu/hr
Supplemental Fuel None
Thermostat Setting 70.0 degrees F
Setback Thermostat Yes, Controls Entire Home

Water Heater

Efficiency 95%
Location Conditioned Space
Fuel Type Natural Gas

Space Cooling System

None Present

Ventilation

System Type Continuous Ventilation without
Required Ventilation 16 CFM
Measured Ventilation 80 CFM

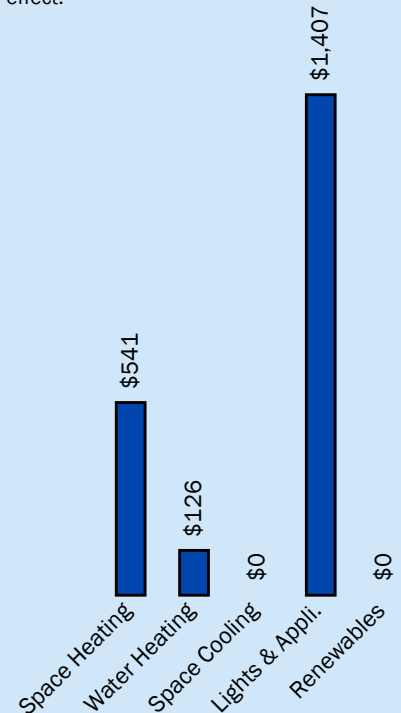
Other

Number of Bedrooms 1
Clothes Dryer Fuel Electricity
Cooking Range Fuel Electricity
Oven Fuel Electricity
Miscellaneous Lights/Appliance Use Average
CAZ Test Normal Conditions Pass

ver. 2.11.0.0, library: 9/27/2022, file: Old Mat PH 2 B1A Unit D.1.hm2

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: \$0.2302/kWh, Natural Gas: \$1.39/ccf
Space Heating: 49 kWh of Electricity, 380 ccf of Natural Gas
Water Heating: 90 ccf of Natural Gas
Space Cooling:
Lights & Appliances: 6,111 kWh of Electricity



Home Energy Rating Certificate

UNOFFICIAL



The Home Located At:
 Old Mat PH 2 B1-2A Unit E.1
 Wasilla, Alaska

Has Been Energy-Rated As:

★★★★★★

Six Star

Efficiency Score

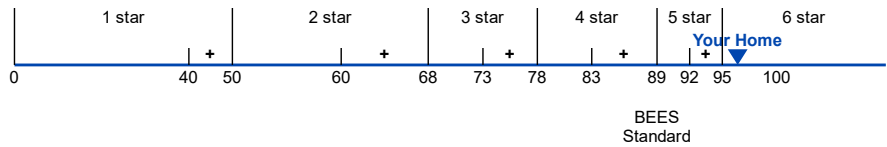
96.4 points

Renewables Bonus

0.0 points

Combined Score

96.4 points



Amount of CO2 Produced by the Home

10,589 pounds per year

Projected Annual Energy Costs

\$2,048 per year

Breakdown of Costs, \$ Per Year

Floor	\$21
Wall/Door	\$129
Window	\$52
Ceiling	\$26
Air/Vent	\$144
Htg System Loss	\$64
Hot Water	\$189
Cooling	\$0
Lights/Appl.	\$1,421
Renewables	\$0

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 Rater's City: Eagle River, AK. 99577
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Date: 2/7/2023

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 Rater Signature



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Wasilla, Alaska

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

House: Multi-Family, One Unit
Living Floor Area: 966 square feet
Attached Garage, 374 square feet

Rating: From Plans
ID: Old Mat PH 2 B1-2A Unit E.1

Envelope Efficiency

Floor Insulation R-31.6 *
Wall/Door Insulation R-36.4
Ceiling Insulation R-39.6
Window U-Value U-0.27
Window SHGC 0.30
Window to Wall Ratio, Living Space 6.0%
South Facing Window Area 0 square feet
Air Leakage 3.4 Air Changes per Hour at 50 Pascals
0.29 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 Navien ncb150e
Efficiency 87%
Btu/hr Output 11,400 - 57,000 Btu/hr
Primary Htg. Sys. Design Load 12,845 Btu/hr
Garage Htg. Sys. Design Load 2,548 Btu/hr
Supplemental Fuel None
Thermostat Setting 70.0 degrees F
Setback Thermostat Yes, Controls Entire Home

Water Heater

Efficiency 95%
Location Conditioned Space
Fuel Type Natural Gas

Space Cooling System

None Present

Ventilation

System Type Continuous Ventilation without
Required Ventilation 20 CFM
Measured Ventilation 80 CFM

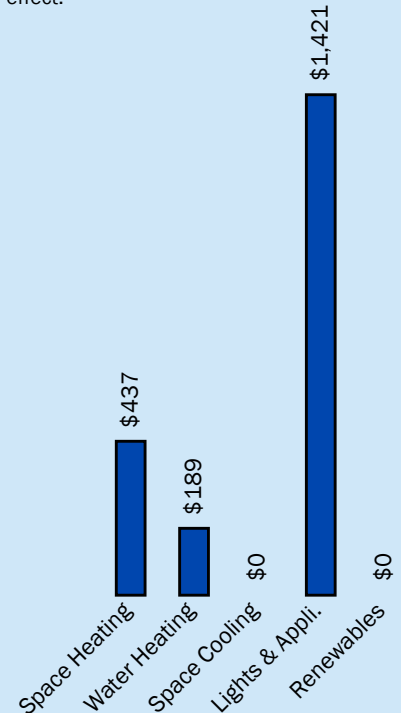
Other

Number of Bedrooms 2
Clothes Dryer Fuel Electricity
Cooking Range Fuel Electricity
Oven Fuel Electricity
Miscellaneous Lights/Appliance Use Average
CAZ Test Normal Conditions Pass

ver. 2.11.0.0, library: 9/27/2022, file: Old Mat PH 2 B1-2A Unit E.1.hm2

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: \$0.2299/kWh, Natural Gas: \$1.43/ccf
Space Heating: 38 kWh of Electricity, 299 ccf of Natural Gas
Water Heating: 132 ccf of Natural Gas
Space Cooling:
Lights & Appliances: 6,183 kWh of Electricity

