

Action Report

Property
Hottmann
4510 Hwy 73
Deerfield, WI 53531

Organization
EMF Home Consultants Inc
608-235-7282
Mark Fredenberg

HERS
Confirmed
2021-06-08
Rating No:58-1811
Rater ID:2879310

Weather:Madison, WI
Hottmann
058-1811.blg

Builder
Ultimate Construction

The following table identifies and ranks energy use and cost by building component. A maximum of six components are shown. Current mechanical equipment is assumed for this analysis. To determine the impact of varying the equipment efficiency, change the equipment specified in the building file and perform the energy calculations again.

ANNUAL ENERGY PROFILE

| Energy End-Use | Component | Consumption(MMBtu/yr) | Cost(\$/yr) |
|---------------------|---------------------|-----------------------|-------------|
| HEATING | Windows/Skylights | 26.6 | 325 |
| | Above Grade Walls | 16.3 | 200 |
| | Infiltration | 13.2 | 161 |
| | Foundation Walls | 10.6 | 130 |
| | Ceilings/Roofs | 7.0 | 85 |
| | Slab Floors | 6.5 | 80 |
| | Other | -9.7 | -118 |
| | Total | 70.5 | 863 |
| COOLING | Internal Gains | 4.0 | 163 |
| | Windows/Skylights | 2.1 | 86 |
| | Ceilings/Roofs | 0.1 | 3 |
| | Other | -3.1 | -124 |
| | Total | 3.1 | 127 |
| WATER HEATING | Water Heater | 10.8 | 130 |
| LIGHTS & APPLIANCES | Lights & Appliances | 30.6 | 1240 |

Action Report

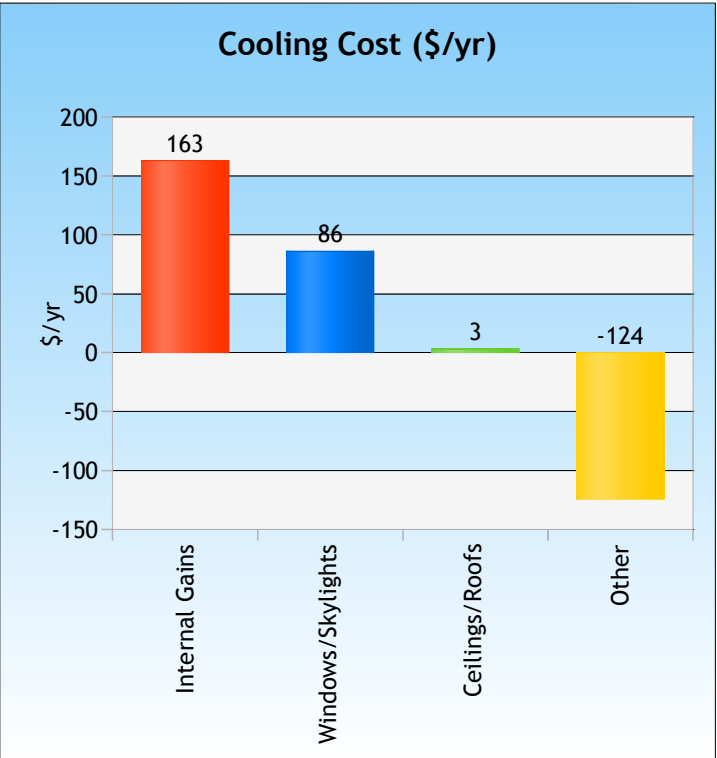
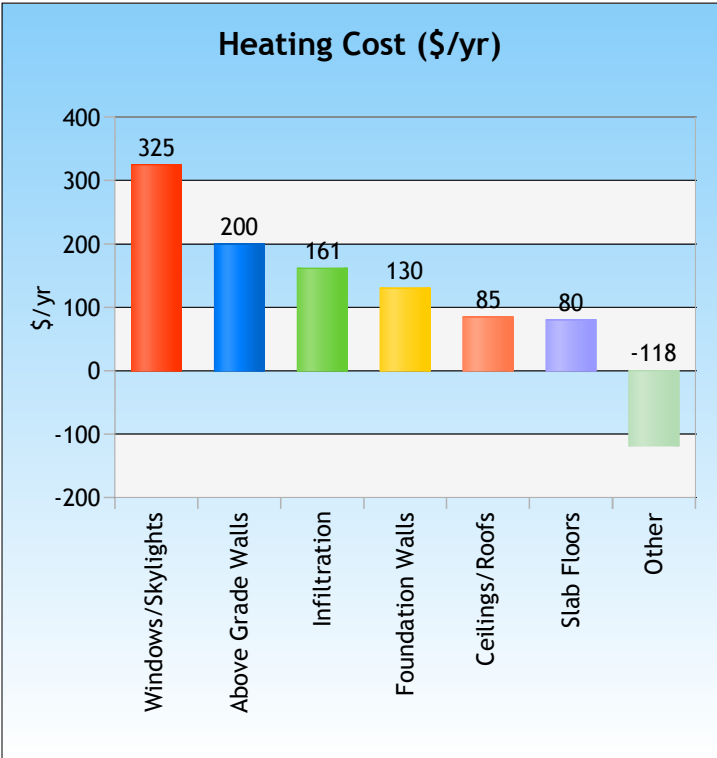
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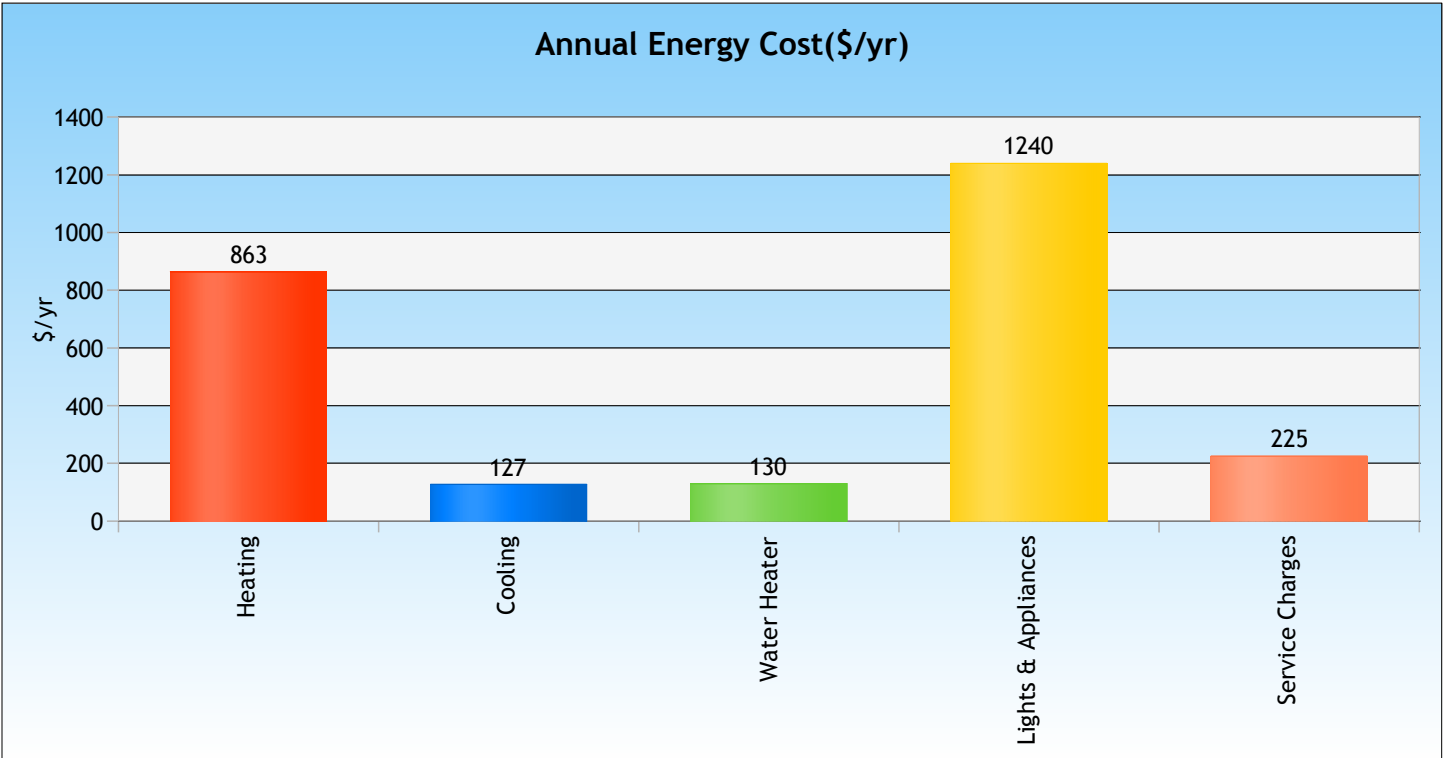
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Energy Cost and Features

Property

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Ultimate Construction

Annual Energy Costs

\$/yr

| | |
|----------------------------------|-------------|
| Heating | 863 |
| Cooling | 127 |
| Water Heating | 130 |
| Lights & Appliances | 1240 |
| Photovoltaics | -0 |
| Service Charges | 225 |
| Total | 2585 |
| Average Monthly(\$/Month) | 215 |

Energy Features

| | |
|---------------------------|--|
| Ceiling w/Attic | R60 Attic24"oc U=0.016 |
| Sealed Attic | None |
| Vaulted Ceiling | None |
| Above Grade Wall | SIP R26 U=0.034 |
| Foundation Walls (Cond) | 8-12"C R19 R0 R=19.0 |
| Foundation Walls (Uncond) | None |
| Doors | St 1.75" R7.5 U=0.119 |
| Windows | NFRC .27 / .17 U=0.270 |
| Floors | None |
| Slab Floors | R0 Per, R10 Und 30' U=0.082 |
| Infiltration | Htg: 947 Clg: 947 CFM50 |
| Infiltration Measure | Blower door |
| Mechanical Ventilation | Balanced: ERV, 202 cfm, 102.0 watts. |
| Interior Mass | None |
| Mechanical Equipment 1 | Heating: Fuel-fired air distribution, 108.0 kBtuh, 95.0 AFUE. |
| Mechanical Equipment 2 | Heating: Fuel-fired hydronic distribution, 139.0 kBtuh, 95.0 AFUE. |
| Mechanical Equipment 3 | Cooling: Air conditioner, 60.0 kBtuh, 13.0 SEER. |
| Mechanical Equipment 4 | Water Heating: Integrated, Prop, 0.76 EF, R-12 wrap. |
| Programmable Thermostat | Heat=Yes; Cool=Yes |
| Ducts | UninsulatedConditioned basement |
| Duct Leakage to Outside | 0.00 CFM @ 25 Pascals |
| Total Duct Leakage | 0.00 CFM @ 25 Pascals |

Note: Where feature level varies in home, the dominate value is shown.

REM/Rate - Residential Energy Analysis and Rating Software v16.0.6 Wisconsin

This information does not constitute any warranty of energy costs or savings.

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Energy Cost and Features

| | | |
|---|--|---|
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Energy Features

| | | |
|-------------------|------------|--|
| Lights/Appliances | Rating Tab | |
| Active Solar | None | |
| Photovoltaics | 0.00 | |
| Sunspace | No | |

Note: Where feature level varies in home, the dominate value is shown.

Focus on Energy New Home Certification Report

File Number: 58-1811

Year Built: 2021

Certification Date: 06/08/2021

Builder File Number:

| Property Address | Builder | Building Performance Consultant |
|---------------------|-------------------------|---------------------------------|
| 4510 Hwy 73 | Ultimate Construction | EMF Home Consultants Inc |
| Deerfield, WI 53531 | 4827 Pierceville Road | Mark Fredenberg |
| | Cottage Grove, WI 53527 | mfred999@gmail.com |

| General Building Information | |
|-----------------------------------|------------------------|
| Area of conditioned space (sq ft) | 4956 |
| Finished floor area (sq ft) | 3780 |
| Volume (cu ft) | 50799 |
| Shell area (sq ft) | 9999 |
| Housing type | Single-family detached |
| Floors above grade | 2 |
| Number of bedrooms | 3 |
| Foundation type | More than one type |

| Energy Efficiency Data | | | | |
|---------------------------------|---------|------|------|---------|
| | House | PV | Geo | Total |
| Est. summer peak reduction (kW) | 0.87 | 0.00 | 0.00 | 0.87 |
| Annual energy savings (kWh) | 1863.35 | 0.00 | 0.00 | 1863.35 |
| Annual energy savings (Therms) | 0.00 | 0.00 | 0.00 | 0.00 |

| Performance Data | |
|--|----------|
| Percent more efficient than current code | 46.25% |
| Estimated average monthly energy bill | \$220 |
| MMBtu Savings | 56 |
| Whole House Ventilation | |
| Type | Balanced |
| Recommended ventilation rate (CFM) | 68 |
| TESTED ventilation rate (CFM) | 202 |
| Air Tightness | |
| Infiltration - TESTED (CFM50) | 947 |
| ACH 50: | 1.12 |
| CFM50/sq ft shell: | 0.09 |
| Effective Leakage Area (ELA) (sq in): | 52 |

| Mechanical Systems | | | | | |
|-------------------------|----------------------------------|-----------|------------|--------------|-------------|
| | Type | Fuel Type | Efficiency | EAE Value | Capacity |
| Primary SPACE HEATING | Fuel-fired air distribution | Propane | 95.0 AFUE | 643 | 108.0 KBtuh |
| Secondary SPACE HEATING | Fuel-fired hydronic distribution | Propane | 95.0 AFUE | 180 | 139.0 KBtuh |
| Primary SPACE COOLING | Air conditioner | Electric | 13.0 SEER | N/A | 60.0 KBtuh |
| Secondary SPACE COOLING | N/A | N/A | N/A | N/A | N/A |
| | Type | Fuel Type | Efficiency | Recovery Eff | Gallons |
| Primary WATER HEATING | Integrated | Propane | 0.76 EF | 0.9 | 80 |
| Secondary WATER HEATING | N/A | N/A | N/A | N/A | N/A |

FOCUS ON ENERGY NEW HOME CERTIFICATION PROGRAM

Certified Energy-Efficient Home

4510 Hwy 73
Deerfield, WI 53531

CERTIFIED ON 2021-06-08

Your New Home is Certified by Focus on Energy as
46.25% MORE ENERGY EFFICIENT
than what is currently required by Wisconsin state building code.

Builder File No:

Certification No: 58-1811

REM/Rate - Residential Energy Analysis and Rating
Software v16.0.6 Wisconsin. This information does not
constitute any warranty of energy costs or savings.
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RESNET Home Energy Rating Standard Disclosure

For home located at: 4510 Hwy 73

City: Deerfield

State: WI

1. ☒ The Rater or Rater's employer is receiving a fee for providing the rating on this home.
2. ☒ In addition to the rating, the Rater or Rater's employer has also provided the following consulting services for this home.

- ☐ A. Mechanical system design
- ☐ B. Moisture control or indoor air quality consulting
- ☒ C. Performance testing and/or commissioning other than required for the rating itself
- ☐ D. Training for sales or construction personnel
- ☐ E. Other (specify below)

3. ☐ The Rater or Rater's employer is:

- ☐ A. The seller of this home or their agent
- ☐ B. The mortgage for some portion of the financial payments on this home
- ☐ C. An employee, contractor or consultant of the electric and/or natural gas utility serving this home

4. ☐ The Rater or Rater's employer is a supplier or installer of products, which may include:

HVAC Systems

Thermal Insulation Systems

Air sealing of envelope or duct systems

Windows or window shading systems

Energy efficient appliances

Construction (builder, developer, construction contractor, etc.)

Other (specify below):

| Installed in this home by: | | OR | is in the business of: | |
|--------------------------------|-----------------------------------|----|--------------------------------|-----------------------------------|
| <input type="checkbox"/> Rater | <input type="checkbox"/> Employer | | <input type="checkbox"/> Rater | <input type="checkbox"/> Employer |
| <input type="checkbox"/> Rater | <input type="checkbox"/> Employer | | <input type="checkbox"/> Rater | <input type="checkbox"/> Employer |
| <input type="checkbox"/> Rater | <input type="checkbox"/> Employer | | <input type="checkbox"/> Rater | <input type="checkbox"/> Employer |
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| <input type="checkbox"/> Rater | <input type="checkbox"/> Employer | | <input type="checkbox"/> Rater | <input type="checkbox"/> Employer |

5. ☐ This home has been verified under the provisions of Chapter 6, Section 603 'Technical Requirements for Sampling' of the Mortgage Industry National Home Energy Rating Standard as set forth by the Residential Energy Services Network (RESNET).

I attest that the above information is true and correct to the best of my knowledge. As a Rater or Rating Provider I abide by the rating quality control provisions of the Mortgage Industry National Home Energy Rating Standard as set forth by the Residential Energy Services Network (RESNET). The national rating quality control provisions of the rating standard are contained in Chapter One 4.C.8. of the standard and are posted at http://resnet.us/standards/RESNET_Mortgage_Industry_National_HERS_Standards.pdf. The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

Mark Fredenberg
Rater's Printed Name

2879310
Certification #

Rater's Signature

June 28, 2021
Date

RESNET Form 0300-2