

Action Report

Property

Derek Brumm
W8921 Ripley Road
Cambridge, WI 53523

Organization

EMF Home Consultants Inc
608-839-3440
Mark Fredenberg

HERS

Confirmed
2020-03-02
Rating No:58-1687
Rater ID:2879310

Weather:Madison, WI

058-1687 FOE vs 16.01 Brumm.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	Above Grade Walls	17.0	119
	Windows/Skylights	9.2	65
	Foundation Walls	9.0	64
	Slab Floors	8.0	56
	Ceilings/Roofs	7.0	49
	Infiltration	5.9	41
	Other	-12.3	-87
	Total	43.8	308
COOLING	Internal Gains	3.7	149
	Windows/Skylights	2.3	93
	Ceilings/Roofs	0.1	3
	Other	-2.7	-111
	Total	3.3	134
WATER HEATING	Water Heater	13.8	81
LIGHTS & APPLIANCES	Lights & Appliances	24.6	1008

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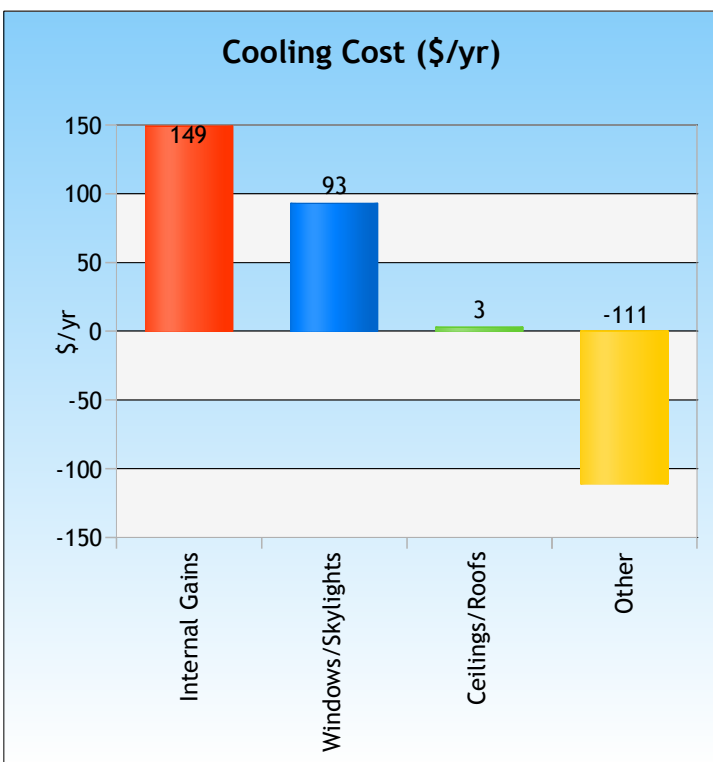
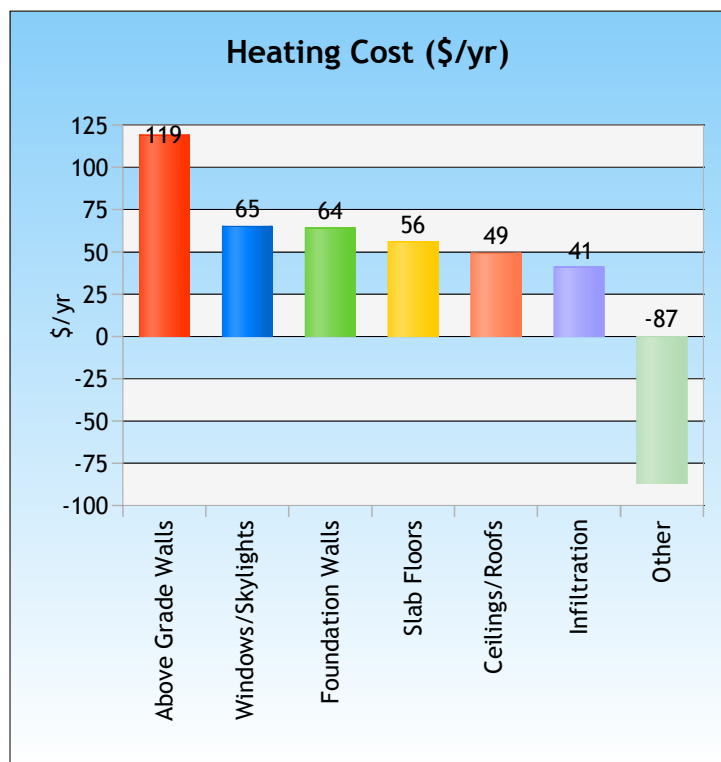
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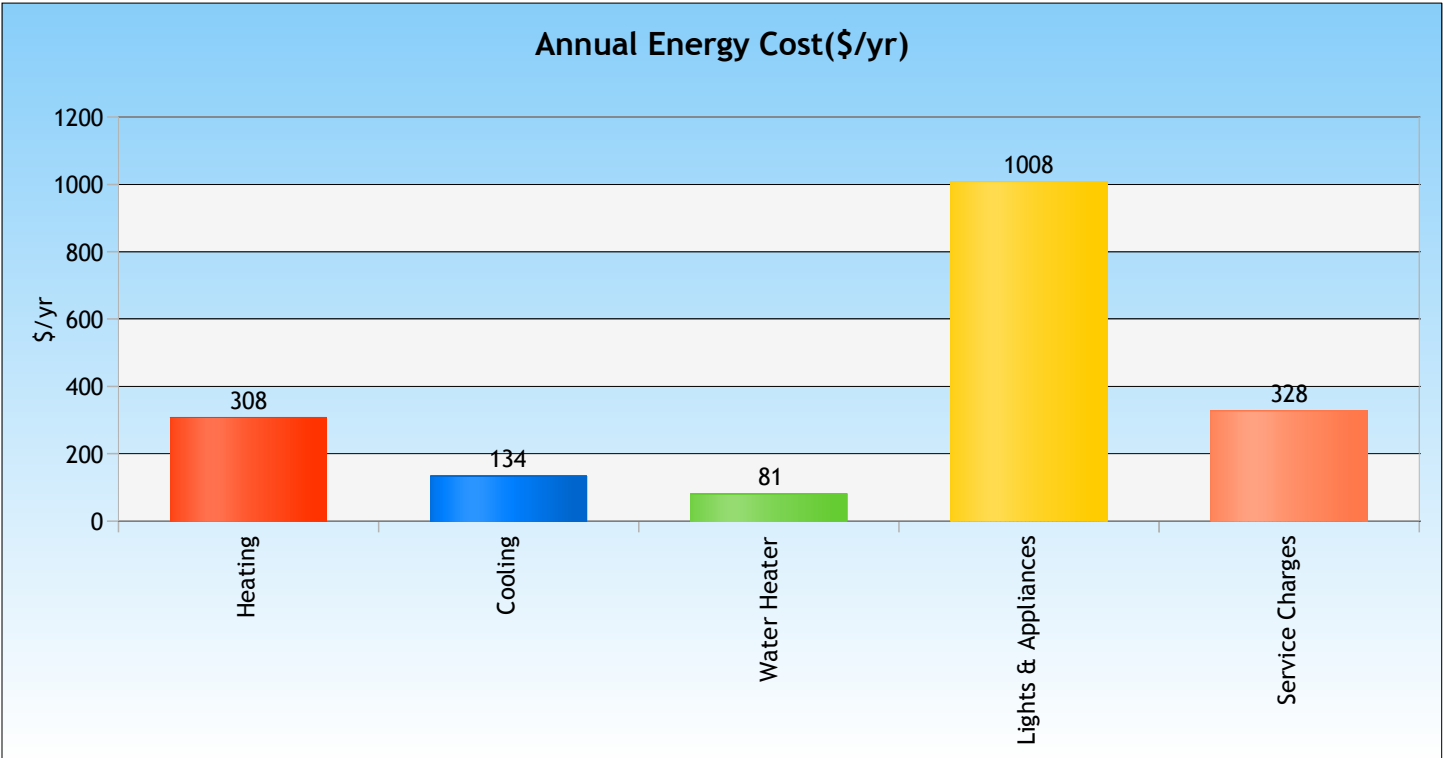
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Energy Cost and Features

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Annual Energy Costs

\$/yr

Heating	308
Cooling	134
Water Heating	81
Lights & Appliances	1008
Photovoltaics	-0
Service Charges	328
Total	1860
Average Monthly(\$/Month)	155

Energy Features

Ceiling w/Attic	R50 Attic 24"oc U=0.020
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 .28 / .32 U=0.280
Floors	None
Slab Floors	R5 Per, R0 Und U=0.129
Infiltration	Htg: 410 Clg: 410 CFM50
Infiltration Measure	Blower door
Mechanical Ventilation	Balanced: ERV, 84 cfm, 102.0 watts.
Interior Mass	None
Mechanical Equipment 1	Heating: Fuel-fired air distribution, 82.0 kBtuh, 95.0 AFUE.
Mechanical Equipment 2	Cooling: Air conditioner, 36.0 kBtuh, 13.0 SEER.
Mechanical Equipment 3	Water Heating: Conventional, Gas, 0.67 EF.
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
Lights/Appliances	Rating Tab

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

REM/Rate - Residential Energy Analysis and Rating Software v16.0.1 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

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: 58-1687

Year Built: 2020

Certification Date: 2020-03-02

Builder File Number:

Property Address	Builder	Building Performance Consultant
W8921 Ripley Road	Ultimate Construction	EMF Home Consultants Inc
Cambridge, WI 53523	4827 Pierceville Road	Mark Fredenberg
	Cottage Grove, WI 53527	mfred999@gmail.com

General Building Information	
Area of conditioned space (sq ft)	4074
Finished floor area (sq ft)	2037
Volume (cu ft)	38703
Shell area (sq ft)	8330
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)	0.39	0.0	0.0	0.4
Annual energy savings (kWh)	540	0	0	540
Annual energy savings (Therms)	452	0	0	452

Performance Data	
Percent more efficient than current code	51.33%
Estimated average monthly energy bill	\$165
Total MMBtu/yr consumption	88
Whole House Ventilation	
Type	Balanced
Required ventilation rate (CFM)	50
TESTED ventilation rate (CFM)	84
Air Tightness	
Infiltration - Maximum (CFM50)	1666
Infiltration - TESTED (CFM50)	410
ACH 50:	0.64
CFM50/sq ft shell:	0.05
Effective Leakage Area (ELA) (sq in):	23

Mechanical Systems					
	Type	Fuel Type	Efficiency	EAE Value	Capacity
Primary SPACE HEATING	Fuel-fired air distribution	Natural gas	95.0 AFUE	1132	82.0 KBtuh
Secondary SPACE HEATING	N/A	N/A	N/A	N/A	N/A
Primary SPACE COOLING	Air conditioner	Electric	13.0 SEER	N/A	36.0 KBtuh
Secondary SPACE COOLING	N/A	N/A	N/A	N/A	N/A
	Type	Fuel Type	Efficiency	Recovery Eff	Gallons
Primary WATER HEATING	Conventional	Natural gas	0.67 EF	0.8	50
Secondary WATER HEATING	N/A	N/A	N/A	N/A	N/A

FOCUS ON ENERGY NEW HOME CERTIFICATION PROGRAM

Certified Energy-Efficient Home

W8921 Ripley Road
Cambridge, WI 53523

CERTIFIED ON 2020-03-02

Your New Home is Certified by Focus on Energy as
51.33% MORE ENERGY EFFICIENT
than what is currently required by Wisconsin state building code.

Builder File No:

Certification No: 58-1687

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RESNET Home Energy Rating Standard Disclosure

For home located at: W8921 Ripley Road

City: Cambridge

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
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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

April 01, 2020

Date

RESNET Form 0300-2

REM/Rate - Residential Energy Analysis and Rating Software v16.0.1 Wisconsin

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