

# Home Energy Rating Certificate

**Property**  
Sterling Homes and Land  
2382 Viridian Pl  
Grand Rapids, MI 49505

**HERS**  
Rating Type: Confirmed  
Rating Date: 11/12/20  
Registry ID: 612774411

Certified Energy Rater: John R Kuiper  
Rating Number:

**HERS Index: 57**

## General Information

Conditioned Area	2309 sq. ft.	House Type	Apartment, end unit
Conditioned Volume	21294 cubic ft.	Foundation	Conditioned basement
Bedrooms	2		

## Mechanical Systems Features

Water Heating:	Conventional, Natural gas, 0.67 EF, 40.0 Gal.
Heating:	Fuel-fired air distribution, Natural gas, 96.0 AFUE.
Cooling:	Air conditioner, Electric, 13.0 SEER.
Duct Leakage to Outside	7.68 CFM25
Ventilation System	Exhaust Only: 65 cfm, 7.4 watts.
Programmable Thermostat	Heat=Yes; Cool=Yes

## Building Shell Features

Ceiling Flat	NA	Slab	R-0.0 Edge, R-0.0 Under
Sealed Attic	NA	Exposed Floor	NA
Vaulted Ceiling	NA	Window Type	U-Value: 0.290, SHGC: 0.310
Above Grade Walls	R-13.0	Infiltration Rate	Htg: 1.92 Clg: 1.92 ACH50
Foundation Walls	R-10.0	Method	Blower door

## Lights and Appliance Features

Interior Fluor Lighting (%)	0.0	Range/Oven Fuel	Natural gas
Interior LED Lighting (%)	100.0	Clothes Dryer Fuel	Natural gas
Refrigerator (kWh/yr)	609	Clothes Dryer CEF	2.32
Dishwasher (kWh/yr)	270	Ceiling Fan (cfm/Watt)	0.00

## Estimated Annual Energy Cost

Use	MMBtu	Cost	Percent
Heating	43.5	\$354	26%
Cooling	1.5	\$63	5%
Hot Water	11.2	\$85	6%
Lights/Appliances	20.3	\$675	49%
Photovoltaics	-0.0	\$-0	-0%
Service Charges		\$210	15%
<b>Total</b>	<b>76.5</b>	<b>\$1387</b>	<b>100%</b>

## Criteria

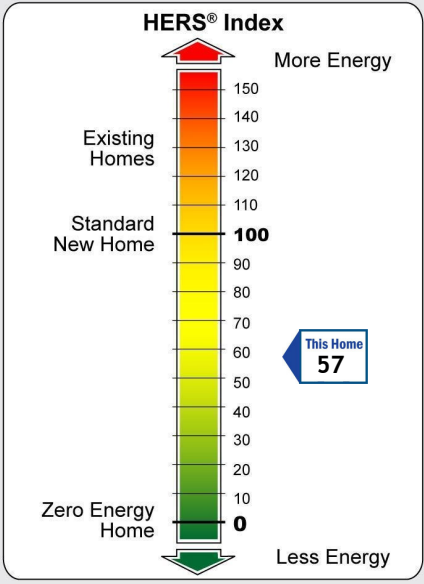
This home meets or exceeds the minimum criteria for the following:

The Home Energy Assessor  
John R Kuiper  
3015 Rosebury Ave SE  
Grand Rapids, MI 49508  
616-443-6697

**REM/Rate - Residential Energy Analysis and Rating Software v16.0.3**

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The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

# RESNET HERS Index Certificate



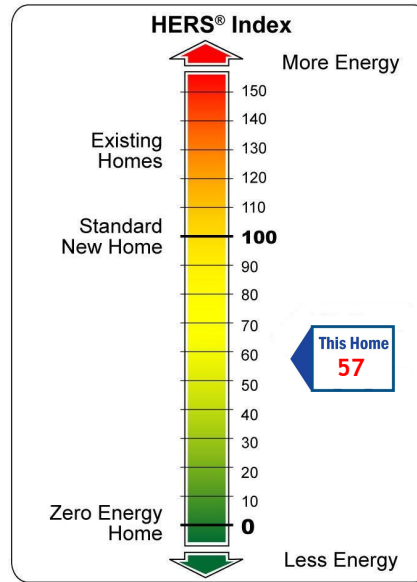
2382 Viridian Pl  
Grand Rapids, MI 49505  
Rater: John R Kuiper  
Registry ID: 612774411  
Annual Estimates\*:  
Elec(kWh): 4897 Gas(CCF): 615  
CO2 emissions(Tons): 7  
Energy Savings (\$) \*\*: 1612  
\*Based on standard operating conditions  
\*\*Based on U.S. DOE designation of a HERS Index of 130 as the 'Typical Existing Home'

The Home Energy Assessor  
John R Kuiper  
3015 Rosebury Ave SE  
Grand Rapids, MI 49508  
616-443-6697

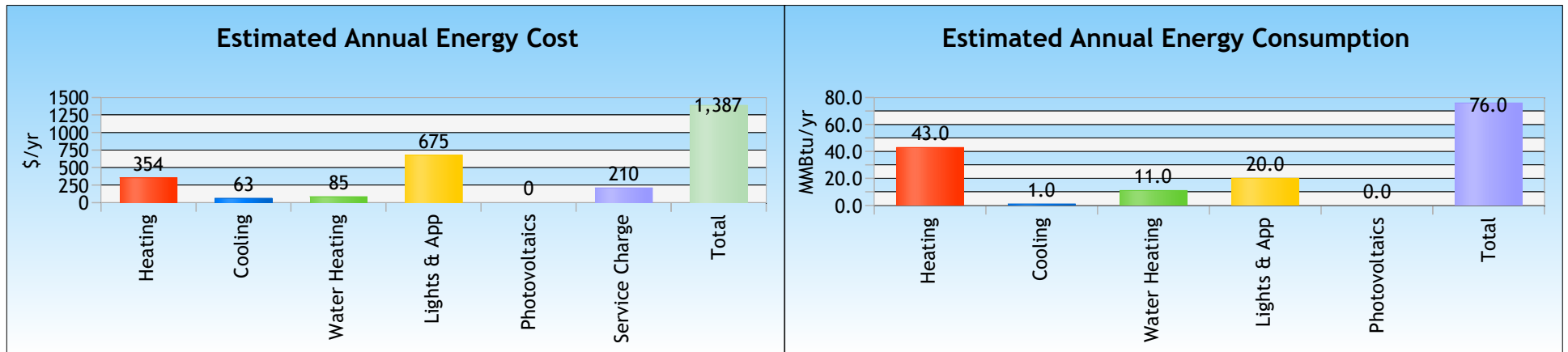
This home has been inspected and performance tested in accordance with Chapter 3 of the RESNET standards.



# HERS PERFORMANCE



# ENERGY RATING CERTIFICATE



Address 2382 Viridian Pl  
Grand Rapids, MI 49505

House Type Apartment, end unit

Cond. Area 2309 sq. ft.

Rating No.

Issue Date December 01, 2020

Certification Inspected and Tested

Annual Estimates\*

Electric(kWh): 4897

Natural gas(CCF): 615

CO2 emissions(Tons): 7

Annual Savings\*\*: \$1612

\* Based on standard operating conditions

\*\* Based on a HERS 130 Index Home

The Home Energy Assessor  
John R Kuiper  
3015 Rosebury Ave SE  
Certified Rater John R Kuiper  
Rater ID 6388891  
Registry ID 612774411  
Rating Date 11/12/20

**REM/Rate - Residential Energy Analysis and Rating Software v16.0.3**

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