Home Energy Rating Certificate

Projected Report Based on Plans

Rating Date: Registry ID:

Ekotrope ID: vwYJb19L



HERS® Index Score:

Your home's HERS score is a relative performance score. The lower the number, the more energy efficient the home. To learn more, visit www.hersindex.com

Annual Savings

*Relative to an average U.S. home

1213 ABINGTON STATION DRIVE O'FALLON, IL 62269

Builder: CA JONES

Home:

Your Home's Estimated Energy Use:

	Use [MBtu]	Annual Cost
Heating	32.3	\$421
Cooling	3.0	\$83
Hot Water	9.6	\$284
Lights/Appliances	23.8	\$699
Service Charges		\$521
Generation (e.g. Solar)	0.0	\$0
Total:	68.7	\$2,008

Home Feature Summary:



ALEXANDRIA

PARK BRIDGE STATION LOT 1 Community:

Conditioned Floor Area: 3,016 ft² Number of Bedrooms:

Primary Heating System: Furnace • Natural Gas • 92 AFUE Primary Cooling System: Air Conditioner • Electric • 13 SEER

Primary Water Heating: Residential Water Heater • Electric • 0.92 Energy Factor

House Tightness: 3 ACH50

Ventilation: 68 CFM • 45 Watts • ERV 4 CFM @ 25Pa (0.4 / 100 ft²) Duct Leakage to Outside:

> Above Grade Walls: R-15 Ceiling: Attic, R-49

Window Type: U-Value: 0.27, SHGC: 0.3

Foundation Walls: R-11 Framed Floor: N/A

This home meets or exceeds the criteria of the following:

2015 Illinois Energy Code

2021 International Energy Conservation Code 2018 International Energy Conservation Code 2015 International Energy Conservation Code 2012 International Energy Conservation Code 2009 International Energy Conservation Code 2006 International Energy Conservation Code

Rating Completed by:

Energy Rater: Chance Hagler

RESNET ID: 2761428

Rating Company: Goley Insulation

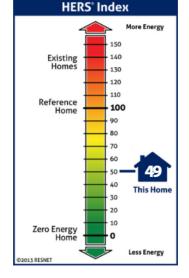
1707 BLUFFVIEW DR.

618-286-3355

Rating Provider: Energy Efficient Homes Midwest



Chance Hagler, Certified Energy Rater Date: 6/17/24 at 10:29 AM





Home Energy Rating Certificate

Projected Report Based on Plans

Rating Date: Registry ID:

Ekotrope ID: vwYJb19L



HERS® Index Score:

Your home's HERS score is a relative performance score. The lower the number, the more energy efficient the home. To learn more, visit www.hersindex.com

Annual Savings

*Relative to an average U.S. home

Home: 1213 ABINGTON STATION DRIVE O'FALLON, IL 62269

Builder: CA JONES

Your Home's Estimated Energy Use:

	Use [MBtu]	Annual Cost
Heating	31.1	\$405
Cooling	3.0	\$83
Hot Water	9.6	\$284
Lights/Appliances	23.4	\$686
Service Charges		\$521
Generation (e.g. Solar)	0.0	\$0
Total:	67.1	\$1,980

Home Feature Summary:



PARK BRIDGE STATION LOT 1 Community:

Conditioned Floor Area: 3,016 ft² Number of Bedrooms:

Primary Heating System: Furnace • Natural Gas • 92 AFUE Primary Cooling System: Air Conditioner • Electric • 13 SEER

Primary Water Heating: Residential Water Heater • Electric • 0.92 Energy Factor

House Tightness: 3 ACH50

Ventilation: 68 CFM • 45 Watts • ERV 4 CFM @ 25Pa (0.4 / 100 ft²) Duct Leakage to Outside:

> Above Grade Walls: R-15 Ceiling: Attic, R-49

> > Window Type: U-Value: 0.27, SHGC: 0.3

Foundation Walls: R-11 Framed Floor: N/A

This home meets or exceeds the criteria of the following:

2015 Illinois Energy Code

2021 International Energy Conservation Code 2018 International Energy Conservation Code 2015 International Energy Conservation Code 2012 International Energy Conservation Code 2009 International Energy Conservation Code 2006 International Energy Conservation Code

Rating Completed by:

Energy Rater: Chance Hagler

RESNET ID: 2761428

Rating Company: Goley Insulation

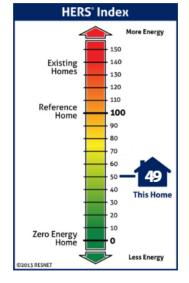
1707 BLUFFVIEW DR.

618-286-3355

Rating Provider: Energy Efficient Homes Midwest



Chance Hagler, Certified Energy Rater Date: 6/17/24 at 10:29 AM





HERS Emissions Comparison

Property

1213 ABINGTON STATION DRIVE O'FALLON, IL 62269

Model: ALEXANDRIA

Community: PARK BRIDGE STATION LOT

Organization

Goley Insulation Chance Hagler

BuilderCA JONES

PARK BRIDGE STATION LOT 1

Inspection Status Results are projected



Carbon Dioxide Equivalent (CO2e) [tons/yr]	HERS Ref.	Rated Home	Savings	% Saved
Heating [Natural Gas]	5.96	2,29	3.67	
Heating [Electric]	0.26	0.11	0.15	
Heating Total	6.22	2.41	3.81	61.30%
Cooling Total	0.62	0.22	0.40	63.80%
Hot Water Total	1.09	0.80	0.29	26.77%
Lights & Appliances Total	2.91	2.08	0.83	28.54%
Emissions Savings from Onsite Generation	-0.00	-0.00	0.00	
TOTAL	10.84	5.51	5.33	49.16%
Sulfur Dioxide (SO ₂) [lbs/yr]	HERS Ref.	Rated Home	Savings	% Saved
TOTAL	43.24	28,25	14.99	34.67%
Nitrogen Oxide (NO _x) [lbs/yr]	HERS Ref.	Rated Home	Savings	% Saved
TOTAL	26.77	15.49	11.28	42.13%
Energy Use Intensity (EUI) [kBtu/ft²]	HERS Ref.	Rated Home	Savings	% Saved
Site EUI	45.89	22.78	23.11	50.35%

Emissions are calculated using the Emission Factors published in the Table 5.1.2(1) of RESNET MINHERS Addendum 66f by RESNET, in Table Table 5.1.2(1) and in accordance with Section 6.2.

CO2 equivalent (CO2e) emissions combine three gasses: carbon dioxide (CO2), methane (CH4), and nitrous oxides (N2O).

According to the MINHERS Addendum 66f, CO2e Emissions are computed on an hourly basis using the Purchased Energy by fuel type, instead of the annual energy balance.

RESNET HOME ENERGY RATING Standard Disclosure



For home(s) located at: 1213 ABINGTON STATION DRIVE,

O'FALLON, IL

Check the applica	able disclosure(s):					
🗹 1. The Rater or	the Rater's employer is red	ceiving a fee for p	roviding the rat	ing on this hor	me.	
2. In addition t	o the rating, the Rater or t	he Rater's employ	er has also prov	ided the follov	wing consult	ing services for this
B. Moisture C. Perform D. Training E. Other(sp 3. The Rater or A. The selle B. The mor	ical system design control or indoor air quance testing and/or comfor sales or construction ecify) the Rater's employer is: er of this home or their a tgagor for some portion loyee, contractor, or con Rater's employer is a supp	nmissioning other n personnel gent n of the financed sultant of the ele	er than require payments on ectric and/or n	this home atural gas uti	lity serving	this home
Products HVAC systems Thermal insul Air sealing of Energy efficie Construction Other (specify	ation systems envelope or duct systems nt appliances (builder, developer, construc	tion contractor, etc.	Installed in the Rater Rater Rater Rater Rater Rater Rater Rater	Employer Employer Employer Employer Employer Employer Employer Employer	OR is in the Rater Rater Rater Rater Rater Rater	
Name: Organization:	Chance Hagler Goley Insulation	Signature: Date:	6/17/24 at 10:	:29 AM		

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 NationalHome 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 102.1.4.6 of the standard and are posted at

https://standards.resnet.us

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

Illinois 2021 Performance Compliance

Property1213 ABINGTON STATION DRIVE
O'FALLON, IL 62269

Model: ALEXANDRIA

Community: PARK BRIDGE STATION LOT

Organization
Goley Insulation
Chance Hagler

Inspection StatusResults are projected



Builder

CA JONES

PARK BRIDGE STATION LOT 1

This report is based on a proposed design and does not confirm field enforcement of design elements.

Annual Energy Cost

Design	Illinois 2021 Performance	As Designed
Heating	\$508	\$399
Cooling	\$182	\$177
Water Heating	\$426	\$426
Mechanical Ventilation	\$57	\$45
SubTotal - Used to determine compliance	\$1,172	\$1,047
Lights & Appliances w/out Ventilation	\$739	\$739
Onsite generation	\$0	\$0
Total	\$1,911	\$1,786

R405.3 Source Energy Exception: The proposed home uses 12.7 MBtu LESS source energy than the reference home.

Requirements

R405.2	Performance-based compliance passes by 11.1%	The proposed house meets the Illinois 2021 Performance reference energy bill requirement by \$125.38 (12.7 MBtu).
R405.2 Item 2 (IECC 2009)	Total UA alternative compliance passes by 14.7%.	The proposed home meets the UA requirement by 14.7%
R405.2 Item 2 (IECC 2009)	Glazed Fenestration SHGC	
R402.4.1.2	Air Leakage Testing	Air sealing is 3.00 ACH at 50 Pa and 0.23 CFM50 / ft² Shell Area. It must not exceed 5.00 ACH at 50 Pa or 0.28 CFM50 / ft² Shell Area.
R403.3.1	Duct Insulation	All ducts are inside the thermal envelope or outside and insulated to at least R8.0.
R403.3.5	Duct Testing	
R404.1	Lighting Equipment	At least 100.0% of fixtures shall be high-efficacy lamps, currently 100.0% are high-efficacy.
Mandatory Checklist	Mandatory code requirements that are not checked by Ekotrope must be met.	2021 IECC Required Items must be checked as complete.
R403.6.2	Mechanical Ventilation Efficacy	
R403.6.1	Mechanical Ventilation Energy Recovery	
R402.5	Area-weighted average fenestration SHGC	Area-weighted average fenestration SHGC is 0.3. The maximum allowed value is [No Limit].
R402.5	Area-weighted average fenestration U-Factor	
R401.2.5 Option 2	Additional energy efficiency	R401.2.5: 2.2 - 95% Threshold Met.

Design exceeds requirements for Illinois 2021 Performance compliance by 11.1%.

As a 3rd party extension of the code jurisdiction utilizing these reports, I certify that this energy code compliance document has been created in accordance with the requirements of Chapter 4 of the adopted International Energy Conservation Code based on SAINT CLAIR County. If rating is Projected, I certify that the building design described herein is consistent with the building plans, specifications, and other calculations submitted with the permit application. If rating is Confirmed, I certify that the address referenced above has been inspected/tested and that the mandatory provisions of the IECC have been installed to meet or exceed the intent of the IECC or will be verified as such by another party.

Name:	Chance Hagler	Signature:	
Organization:	Goley Insulation	Date:	6/17/24 at 10:29 AM

Illinois 2018 Performance Compliance

Property1213 ABINGTON STATION DRIVE
O'FALLON, IL 62269

Model: ALEXANDRIA

Community: PARK BRIDGE STATION LOT

OrganizationGoley Insulation

Goley Insulation Chance Hagler

Builder CA JONES Inspection Status
Results are projected



PARK BRIDGE STATION LOT 1

This report is based on a proposed design and does not confirm field enforcement of design elements.

Annual Energy Cost

Design	Illinois 2018 Performance	As Designed
Heating	\$604	\$399
Cooling	\$191	\$177
Water Heating	\$426	\$426
Mechanical Ventilation	\$49	\$45
SubTotal - Used to determine compliance	\$1,269	\$1,047
Lights & Appliances w/out Ventilation	\$739	\$739
Onsite generation	\$0	\$0
Total	\$2,008	\$1,786

R405.3 Source Energy Exception: The proposed home uses 22.6 MBtu LESS source energy than the reference home.

Requirements

	R405.3	Performance-based compliance passes by 18.1%	The proposed house meets the Illinois 2018 Performance reference energy bill requirement by \$221.88 (22.6 MBtu).
	R402.4.1.2	Air Leakage Testing	Air sealing is 3.00 ACH at 50 Pa. It must not exceed 4.00 ACH at 50 Pa.
	R402.5	Area-weighted average fenestration U-Factor	
	R404.1	Lighting Equipment	At least 90.0% of fixtures shall be high-efficacy lamps, currently 100.0% are high-efficacy.
	R403.6.1	Mechanical Ventilation Efficacy	
	R403.3.3	Duct Testing	
②	Mandatory Checklist	Mandatory code requirements that are not checked by Ekotrope must be met.	2018 IECC Mandatory Checklist must be checked as complete.
	IRC M1505.4.3	Mechanical Ventilation Rate	
	Mechanical Ventilation	n	
	R403.3	Duct Leakage Testing	Total duct leakage must be tested unless all of the ducts and air handlers are contained within conditioned space.
	R405.2	Duct Insulation	All ducts outside the thermal envelope must be insulated to at least R6.0.

Design exceeds requirements for Illinois 2018 Performance compliance by 18.1%.

As a 3rd party extension of the code jurisdiction utilizing these reports, I certify that this energy code compliance document has been created in accordance with the requirements of Chapter 4 of the adopted International Energy Conservation Code based on SAINT CLAIR County. If rating is Projected, I certify that the building design described herein is consistent with the building plans, specifications, and other calculations submitted with the permit application. If rating is Confirmed, I certify that the address referenced above has been inspected/tested and that the mandatory provisions of the IECC have been installed to meet or exceed the intent of the IECC or will be verified as such by another party.

Name:	Chance Hagler	Signature:	
Organization:	Goley Insulation	Date:	6/17/24 at 10:29 AM

Illinois 2015 Performance Compliance

Property 1213 ABINGTON STATION DRIVE O'FALLON, IL 62269

Model: ALEXANDRIA

Community: PARK BRIDGE STATION LOT

Organization Goley Insulation

Chance Hagler

Builder **CA JONES**



PARK BRIDGE STATION LOT 1

This report is based on a proposed design and does not confirm field enforcement of design elements.

Inspection Status

Results are projected

Annual Energy Cost

Design	Illinois 2015 Performance	As Designed
Heating	\$667	\$399
Cooling	\$194	\$177
Water Heating	\$426	\$426
SubTotal - Used to determine compliance	\$1,287	\$1,002
Lights & Appliances	\$770	\$784
Onsite generation	\$0	\$0
Total	\$2,057	\$1,786

R405.3 Source Energy Exception: The proposed home uses 29 MBtu LESS source energy than the reference home.

Requirements

R405.3	Performance-based compliance passes by 22.9%	The proposed house meets the Illinois 2015 Performance reference energy bill requirement by \$285.11 (29.0 MBtu).
R402.4.1.2	Air Leakage Testing	Air sealing is 3.00 ACH at 50 Pa. It must not exceed 5.00 ACH at 50 Pa.
R402.5	Area-weighted average fenestration U-Factor	
R404.1	Lighting Equipment	At least 75.0% of fixtures shall be high-efficacy lamps, currently 100.0% are high-efficacy.
R403.6.1	Mechanical Ventilation Efficacy	
R403.3.3	Duct Testing	
Mandatory Checklist	Mandatory code requirements that are not checked by Ekotrope must be met.	2015 IECC Mandatory Checklist must be checked as complete.
Mechanical Ventilation	n	
R405.2	Duct Insulation	All ducts outside the thermal envelope must be insulated to at least R6.0.

Design exceeds requirements for Illinois 2015 Performance compliance by 22.9%.

As a 3rd party extension of the code jurisdiction utilizing these reports, I certify that this energy code compliance document has been created in accordance with the requirements of Chapter 4 of the adopted International Energy Conservation Code based on SAINT CLAIR County. If rating is Projected, I certify that the building design described herein is consistent with the building plans, specifications, and other calculations submitted with the permit application. If rating is Confirmed, I certify that the address referenced above has been inspected/tested and that the mandatory provisions of the IECC have been installed to meet or exceed the intent of the IECC or will be verified as such by another party.

Name:	Chance Hagler	Signature:	
Organization:	Goley Insulation	Date:	6/17/24 at 10:29 AM

45L Tax Credit (Pre-2023)

Property

1213 ABINGTON STATION DRIVE

O'FALLON, IL 62269 Model: ALEXANDRIA

Community: PARK BRIDGE STATION LOT

Organization

Goley Insulation Chance Hagler

Builder

CA JONES

PARK BRIDGE STATION LOT 1



Inspection Status Results are projected

Projected Rating: Based on Plans - Field Confirmation Required

This report is valid for new homes sold prior to 1/1/2023.

Normalized N	Nodified End-Use Load	s (MBtu / year)	Enve	elope Loads (MBtu	/ year)
Category	2006 IECC 50%	As Designed	Category	2006 IECC 90%	As Designed
	Target			Target	
Heating	23.6	18.9	Heating	42.4	29.4
Cooling	4.2	4.5	Cooling	7.5	7.0
Total	27.8	23.4	Total	49.9	36.4

Building Features

Ceiling U: 0.02 Heating System: Furnace • Natural Gas • 92 AFUE
Wall U: 0.073 Cooling System: Air Conditioner • Electric • 13

Framed Floor U: N/A SEER

Slab R: R-0 Duct Leakage to Outside: 4 CFM @ 25Pa (0.4 / 100 ft²)

Glazing Properties: U-Value: 0.27, SHGC: 0.3

This home meets the requirements for the residential energy efficiency tax credit under section 1332, Credit for Construction of New Energy Efficient Homes, of the Energy Policy Act of 2005. Builder should verify that the 45L Tax Credit is available for the year in which this home was built.

The undersigned certifier verifies that:

- (1) The dwelling unit has a projected level of annual heating and cooling energy consumption that is at least 50 percent below the annual level of heating and cooling energy consumption of a reference dwelling unit in the same climate zone;
- (2) Building envelope component improvements alone account for a level of annual heating and cooling energy consumption that is at least 10 percent below the annual level of heating and cooling energy consumption of a reference dwelling unit in the same climate zone; and
- (3) Heating and cooling energy consumption have been calculated in the manner prescribed in section 2.03 of this notice.
- (4) Field inspections of the dwelling unit (or of other dwelling units under the ENERGY STAR® for Homes Sampling Protocol Guidelines) performed by the eligible certifier during and after the completion of construction have confirmed that all features of the home affecting such heating and cooling energy consumption comply with the design specifications provided to the eligible certifier.

"Under penalties of perjury, I declare that I have examined this certification, including accompanying documents, and to the best of my knowledge and belief, the facts presented in support of this certification are true, correct, and complete."

Name:	Chance Hagler	Signature:	
Organization:	Goley Insulation CO	Date: ans 6/17/24 at 10:29 AM	

Not Valid as Tax Documentation

Air Leakage Report

Property

1213 ABINGTON STATION DRIVE O'FALLON, IL 62269

Model: ALEXANDRIA

Community: PARK BRIDGE STATION LOT

OrganizationGoley Insulation
Chance Hagler

n Results are project

Inspection Status Results are projected



Builder

CA JONES

PARK BRIDGE STATION LOT 1

General Information

Conditioned Floor Area [ft²]	3,016	
Infiltration Volume [ft³]	27,211	
Number of Bedrooms	4	

Air Leakage

Measured Infiltration	3 ACH50
ACH50 (Calculated)	3.00
ELA [sq. in.] (Calculated)	74.64
ELA per 100 s.f. Shell Area (Calculated)	1.237
CFM50 (Calculated)	1,361
CFM50 / s.f. Shell Area (Calculated)	0.225

Duct Leakage

	System 1	
Leakage to Outdoors	4 CFM @ 25Pa (0.4 / 100 ft ²)	
Total Leakage Test Type	Rough-In, with Air Handler	
Total Leakage [CFM @ 25 Pa]	87.0	
Total Leakage [CFM25 / 100 s.f.]	8.7	
Total Leakage [CFM25 / CFA]	0.087	

Mechanical Ventilation

Rate [CFM]	68 CFM
Hours per day	24.0
Fan Power	45 Watts
Recovery Efficiency %	65.0
Runs at least once every 3 hrs?	true
Average Rate [CFM]	68.0 CFM
2010 ASHRAE 62.2 Req. Cont. Ventilation	67.7
2013 ASHRAE 62.2 Req. Cont. Ventilation	90.0
2016 ASHRAE 62.2 Req. Cont. Ventilation	90.0

Property 1213 ABINGTON STATION DRIVE O'FALLON, IL 62269

Model: ALEXANDRIA

Community: PARK BRIDGE STATION LOT

PARK BRIDGE STATION LOT 1

Organization

Goley Insulation Chance Hagler

Builder



CA JONES

General Building Information

Conditioned Area (sq ft) 3,016 Conditioned Volume (cubic ft) 27,211 Insulated Shell Area (sq ft) 6,036

The building energy model in Ekotrope reflects the building assemblies and energy features listed below. Sometimes energy features will change in the field from what has been modeled. The inspection process should identify any changes and ensure that the home continues to meet the applicable energy code.

Inspection Status

Results are projected

Slab	
	Name: BELOW(1,508 s.f., 172 ft. exterior perimeter) R-0 perimeter insulation, R-0 under slab insulation.
Fram	ed Floor
	None Present
Foun	dation Wall
	Name: UNFINISHED AREA (Exterior Perimeter [ft]: 123, Height Above Grade [ft]: 1, Depth Below Grade [ft]: 7, R-11 continuous insulation, R-0 cavity insulation Insulation Grade: I Feet from top of wall to top of insulation: 0, Feet from top of wall to bottom of insulation: 8
	Name: FINISHED AREA (Exterior Perimeter [ft]: 49, Height Above Grade [ft]: 1, Depth Below Grade [ft]: 7) R-0 continuous insulation, R-13 cavity insulation Insulation Grade: I Fully insulated (top to bottom)
Abov	ve Grade Wall
	Name: 4" COLDWALL (192 s.f.) R-0 continuous insulation, R-15 cavity insulation Insulation Grade: I

Property Organization 1213 ABINGTON STATION DRIVE Goley Insulation O'FALLON, IL 62269 Chance Hagler Model: ALEXANDRIA Community: PARK BRIDGE STATION LOT Builder **CA JONES** PARK BRIDGE STATION LOT 1 Name: 4" AMBIENT (1,154 s.f.) R-0 continuous insulation, R-15 cavity insulation Insulation Grade: I Name: KNEEWALL AMB (63 s.f.) R-0 continuous insulation, R-15 cavity insulation Insulation Grade: I Name: KNEEWALL ATTIC (63 s.f.) R-0 continuous insulation, R-15 cavity insulation Insulation Grade: II **Rim Joist** Name: COLDWALL (24 s.f.) R: 17.00 Name: AMBIENT (148 s.f.) R: 17.00 Ceiling / Roof Name: ATTIC (1,508 s.f.) R-40 continuous insulation, R-9 cavity insulation Insulation Grade: I **Opaque Door** Name: COLDWALL (20 s.f.) U: 0.140 Name: ENTRY (20 s.f.) U: 0.140





Glazing

LIIE	ergy code inspection	CHECKIISC	
O'FAL Mode	ABINGTON STATION DRIVE LON, IL 62269 I: ALEXANDRIA	Organization Goley Insulation Chance Hagler	Inspection Status Results are projected
Comn	nunity: PARK BRIDGE STATION LOT	Builder CA JONES	
PARK	BRIDGE STATION LOT 1		
	Name: BED 2 (30 s.f.), U: 0.270, SI	HGC: 0.3, Orientation: NORTH	
	Name: BED 3 (30 s.f.), U: 0.270, SI	HGC: 0.3, Orientation: NORTH	
	Name: DINING (40 s.f.), U: 0.270,	SHGC: 0.3, Orientation: SOUTH	
	Name: GREAT (30 s.f.), U: 0.270,	SHGC: 0.3, Orientation: SOUTH	
	Name: MASTER BED (30 s.f.), U: 0.	270, SHGC: 0.3, Orientation: SC	DUTH
Skyli	ight		
	None Present		
Mecl	hanical Ventilation		
	Mechanical ventilation system rate System shall include automatic tim System type: ERV, 24 hrs/day, 45 Wa	ing controls.	ontinuous ventilation.
Mecl	hanical Equipment		
	FURNACE 1 • Natural Gas • 100% He	eating Load @ 92 AFUE	
	A/C 1 • Electric • 100% Cooling Load	d @ 13 SEER	

WATER HEATER • Electric • 100% Hot Water Load @ 0.92 Energy Factor

House is air-sealed as to achieve 1,361 CFM50 (3.00 ACH50) or less at final blower-door test.

Air Leakage Control

Test Status: Blower-door tested



Property
1213 ABINGTON STATION DRIVE

1213 ABINGTON STATION DRIVE O'FALLON, IL 62269 Model: ALEXANDRIA

Community: PARK BRIDGE STATION LOT

Organization

Goley Insulation Chance Hagler Inspection Status

Results are projected

BuilderCA JONES

PARK BRIDGE STATION LOT 1

Infiltration Requirements for IECC in Climate Zone 4

2009 IECC Infiltration limit for the design home is 7 ACH50.

2012 IECC Infiltration limit for the design home is 3 ACH50.

2015 IECC Infiltration limit for the design home is 3 ACH50.

2018 IECC Infiltration limit for the design home is 3 ACH50.

2021 IECC Infiltration limit for the design home is 5 ACH50.

Duct Leakage

Duct System 1

All ducts and equipment within conditioned space

Leakage to Outside specified as: 4 CFM @ 25Pa (0.4 / 100 ft²)

Total Leakage specified as: 87 CFM @ 25Pa (Rough-In, with Air Handler)

Duct Leakage Code Requirements for IECC

2009 IECC:

Postconstruction Leakage Test: Duct Leakage to Outdoors <= 8 CFM25 / 100 sq ft CFA.

Rough in Test with AHU: Total Duct Leakage <= 6 CFM25 / 100 sq ft CFA.

Rough in Test without AHU: Total Duct Leakage <= 4 CFM25 / 100 sq ft CFA.

2012 IECC Mandatory, 2015, 2018, & 2021 IECC Prescriptive Paths:

Postconstruction Leakage Test: Total Duct Leakage <= 4 CFM25 / 100 sq ft CFA.

Rough in Test with AHU: Total Duct Leakage <= 4 CFM25 / 100 sq ft CFA.

Rough in Test without AHU: Total Duct Leakage <= 3 CFM25 / 100 sq ft CFA.

* Note: IECC 2021 requires Total Duct Leakage <= 8 CFM25 / 100 sq ft CFA when all ducts and air handlers are within the building thermal envelope.

2015 and 2018 IECC Performance Paths (Cost Compliance):

Leakage testing is required UNLESS all ducts and air handlers are located entirely within the thermal envelope. There is no pass/fail threshold for duct leakage on the performance path.

Project Notes

FACES: NORTH



Emissions Summary

Property

1213 ABINGTON STATION DRIVE O'FALLON, IL 62269 Model: ALEXANDRIA

Community: PARK BRIDGE STATION LOT

PARK BRIDGE STATION LOT 1

Organization

Goley Insulation Chance Hagler

BuilderCA JONES

Inspection StatusResults are projected



Emissions by End-Use

Carbon Dioxide Equivalent (CO2e) [tons/yr]

Heating [Natural Gas]	2.2
Heating [Electric]	0.1
Cooling [Electric]	0.2
Hot Water [Electric]	0.8
Lights & Appliances [Electric]	2.0
Emissions Savings from Onsite Generation	-0.0
TOTAL	5.4
Sulfur Dioxide (SO ₂) [lbs/yr]	
TOTAL	27.9
Nitrogen Oxide (NO _x) [lbs/yr]	
TOTAL	15.2
Energy Use Intensity (EUI) [kBtu/ft²]	
Site EUI	22.3

Emissions are calculated using the Emission Factors published in the Table 5.1.2(1) of RESNET MINHERS Addendum 66f by RESNET, in Table Table 5.1.2(1) and in accordance with Section 6.2.

CO₂ equivalent (CO₂e) emissions combine three gasses: carbon dioxide (CO₂), methane (CH₄), and nitrous oxides (N₂O).

According to the MINHERS Addendum 66f, CO2e Emissions are computed on an hourly basis using the Purchased Energy by fuel type, instead of the annual energy balance.

Fuel Summary

Property

1213 ABINGTON STATION DRIVE O'FALLON, IL 62269 Model: ALEXANDRIA

Total

Community: PARK BRIDGE STATION LOT 1

PARK BRIDGE STATION LOT 1

Organization

Goley Insulation Chance Hagler

Builder

CA JONES

Inspection Status Results are projected



\$1,980

Annual Energy Cost

Natural Gas	\$737
Electric	\$1,243
Annual End-Use Cost	
Heating	\$405
Cooling	\$83

Cooling	\$83
Water Heating	\$284
Lights & Appliances	\$686
Onsite Generation	-\$0
Service Charges	\$521

Annual End-Use Consumption

Heating [Natural Gas Therms]	300.1
Heating [Electric kWh]	333.5
Cooling [Electric kWh]	871.5
Hot Water [Electric kWh]	2,820.2
Lights & Appliances [Electric kWh]	6,844.8
Total [Natural Gas Therms]	300.1
Total [Electric kWh]	10,870.0
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	1.46
Peak Summer kW	2.17

Utility Rates

Electricity	AMEREN IL ELECTRIC
Natural Gas	AMEREN IL GAS

Property

1213 ABINGTON STATION DRIVE O'FALLON, IL 62269 Model: ALEXANDRIA Community: PARK BRIDGE STATION LOT 1

PARK BRIDGE STATION LOT 1

Community

Organization Goley Insulation Chance Hagler

Builder CA JONES **Inspection Status** Results are projected



General Building Information

Number Of Bedrooms 4
Number Of Floors 1

Number Of Bedrooms

Number Of Floors

Conditioned Floor Area [sq. ft.]

Has Electric Vehicle Ready Space

Unconditioned, attached garage?

Conditioned Volume [cu. ft.]

Total Units in Building

Residence Type

Single family detached

Number of Floors in Building

Floor Number

Model

ALEXANDRIA

PARK BRIDGE STATION LOT 1

RESNET/IECC 2006-2018 Climate Zone 4A
IECC 2021 Climate Zone 4A

Foundation Wall Name Enclosing Height Above Grade Depth Below Grade Library Type Perimeter Location FINISHED AREA R13 G1 16oc 49 Exposed Exterior Conditioned Space UNFINISHED AREA R11 BLANKET 8' Exposed Exterior Conditioned Space

Foundation W	Foundation Wall Library List												
Name	Feet From Wall Top To Continuous Insulation Top		1	Continuous R-value	e Cavity R-value	Effective Insulation R- value							
R11 BLANKET 8'	0	8	No	11.00	N/A	N/A							
R13 G1 16oc	N/A	N/A	Yes	0.00	13.00	N/A							

Slab								
Name	Library Type	e Perimeter	Floor Grade	Carpet R	Exposed Masonry Area		Location	Enclosing
BELOW	UNINSULATED	172	Below Grade	2	841	1,508.0 ft²	Exposed Exterior	Conditioned Space

1213 ABINGTON STATION DRIVE O'FALLON, IL 62269 Model: ALEXANDRIA

Community: PARK BRIDGE STATION LOT 1

PARK BRIDGE STATION LOT 1

Organization Goley Insulation Chance Hagler

Builder CA JONES Inspection Status Results are projected



Slab Library List Name Wall Construction Type Slab Completely Insulated? Underslab Insulation Width [ft] Perimeter Perimeter Insulation Depth Insulation R Value [ft] Perimeter Insulation Is Exterior Thermal Break Effective R-value UNINSULATED 0 0 Wood Frame / No 0 Yes No 0.00 Other

Framed Floor

None Present

Framed Floor Library List

Rim Joist							
Name	Library Type	Surface Area	Location				
AMBIENT	R 19 G2	148.0 ft²	Exposed Exterior				
COLDWALL	R 19 G2	24.0 ft²	Unconditioned, attached garage				

	Rim Joist Library List	t
ı	Name	Effective Insulation R-value
ı		
ı	R 19 G2	17.00
ı		

Wall											
Name	Library Type	Surface Color	Surface Area	Location							
4" AMBIENT	R15 G1	Medium	1,154.0 ft²	Exposed Exterior							
4" COLDWALL	R15 G1	Light	192.0 ft²	Unconditioned, attached garage							
KNEEWALL AMB	R15 G1	Medium	63.0 ft²	Exposed Exterior							

Property 1213 ABINGTON STATION DRIVE O'FALLON, IL 62269 Model: ALEXANDRIA Community: PARK BRIDGE STATION LOT 1

Organization Goley Insulation Chance Hagler

Builder CA JONES Inspection Status Results are projected



PARK BRIDGE STATION LOT 1

Name	Library Type	Surface Color	Surface Area	Location
KNEEWALL ATTIC	R15 BATTS G2	Medium	63.0 ft²	Attic

	Wall Library List	
ı	Name	Effective R-value
	R15 BATTS G2	13.211
	R15 G1	13.771

Glazing									
Name	Library Type	Wall Assignment	Foundation Wall Assignment		e Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area
BED 2	U.27 SHGC .30	4" AMBIENT		Yes	1.4	0.3	5.3	North	30.0 ft ²
BED 3	U.27 SHGC .30	4" AMBIENT		Yes	4	0.3	5.3	North	30.0 ft²
DINING	U.27 SHGC .30	4" AMBIENT		Yes	1.4	0.3	7	South	40.0 ft²
EGRESS	U.33 SHGC .30		UNFINISHED AREA	Yes	1	10	14	East	16.0 ft²
GREAT	U.27 SHGC .30	4" AMBIENT		Yes	1.4	0.3	5.3	South	30.0 ft²
MASTER BED	U.27 SHGC .30	4" AMBIENT		Yes	1.4	0.3	5.3	South	30.0 ft²

Glazing Library List					
Name	Shg	c U-factor	or		
U.27 SHGC .30	0.3	0.270	70		
U.33 SHGC .30	0.3	0.330	30		

Skylight
None Present

Property 1213 ABINGTON STATION DRIVE O'FALLON, IL 62269 Model: ALEXANDRIA Community: PARK BRIDGE STATION LOT 1

PARK BRIDGE STATION LOT 1

Organization Goley Insulation Chance Hagler

Builder CA JONES

Inspection Status Results are projected



CLM	li al	h + 1	ibr	2 111	l ict
Sky	паі	II U	-IDI	ai v	LIST

Opaque Door								
Name	e Library Type	Wall Assignment	Foundation Wall Assignment		Solar Absorptance	Surface Color	Surface Area	Location
COLDWALL	U.14	4" COLDWALL		0.9	0.75	Medium	20.0 ft²	Unconditioned, attached garage
ENTRY	U.14	4" AMBIENT		0.9	0.75	Medium	20.0 ft²	Exposed Exterior

Opaque Door Library List					
Name	Effective U-factor				
U.14	0.140				

Roof Insulation								
Name	Library Type	Attic Exterior Area [ft²]	Clay or Concrete Roof Tiles	Surface Color	Surface Area	Location		
ATTIC	R49 F/G	4,000	No	Medium	1,508.0 ft²	Attic		

Roof Insulation	on Library List	
Name	e Has Radiant Barrier	Effective R-value
R49 F/G	No	49.859

Whole House Infiltr	ation	
Infiltration	Measurement Type	Shelter Class
3 ACH at 50 Pa	Blower-door tested	4

Property
1213 ABINGTON STATION DRIVE O'FALLON, IL 62269 Model: ALEXANDRIA Community: PARK BRIDGE STATION LOT 1 Organization Goley Insulation Chance Hagler

Builder CA JONES Inspection Status Results are projected



PARK BRIDGE STATION LOT 1

Mechanical Ventilation								
Ventilation Type	Ventilation Rate [ft ³ / Minute]			Runs once every three hours			Manufacturer	
ERV	68 CFM	24	45 Watts	Yes	65	B130E65RT	BROAN	

Lighting					
% Interior Fluorescent Lighting		% Exterior Fluorescent Lighting		% Garage Fluorescent Lighting	% Garage LED Lighting
0	100	0	100	0	100

ı			gg		99			
	o	100	0	100	0	100		
ı	-							
	Onsite Generation							

Onsite Generation Library List

None Present

None Present

Solar Generation

None Present

Dehumidifier

None Present

Dehumidifier Library List

Property
1213 ABINGTON STATION DRIVE O'FALLON, IL 62269 Model: ALEXANDRIA Community: PARK BRIDGE STATION LOT 1

PARK BRIDGE STATION LOT 1

Organization Goley Insulation Chance Hagler

Builder CA JONES

Inspection Status Results are projected



Whole House Fan

None Present

Whole House Fan Library List

Conditioning Equipment										
Name	Library Type	Serial Number	Heating Percent Load	Cooling Percent Load	Hot Water Percent Load	Location				
A/C 1	A/C 135 28.4K		0%	100%	0%	Conditioned Space				
FURNACE 1	F 92% 56K 245Eae		100%	0%	0%	Conditioned Space				
WATER HEATER	50 GAL 0.92 ELECTRIC		0%	0%	100%	Conditioned Space				

Equipment Type: 50 GAL 0.92 ELECTRIC		
Equipment Type	Residential Water Heater	
Fuel Type	Electric	
Distribution Type	Hydronic Delivery (Radiant)	
Hot Water Efficiency	0.92 Energy Factor	
Tank Capacity (gal.)	50	
Hot Water Capacity [kBtu/h]	4.5	
Recovery Efficiency	0.98	

Equipment Type: A/C 13S 28.4K	
Equipment Type	Air Conditioner
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	PSC (Single Speed)
Heat Pump System Type	Unspecified
Cooling Efficiency	13 SEER
Cooling Capacity [kBtu/h]	28.4

Property 1213 ABINGTON STATION DRIVE O'FALLON, IL 62269 Model: ALEXANDRIA

Community: PARK BRIDGE STATION LOT 1

PARK BRIDGE STATION LOT 1

Organization Goley Insulation Chance Hagler

Builder CA JONES

Inspection Status Results are projected



Equipment Type: E 92% 56K 245Fac

Equipment Type: r 92% 50K 245Eae		
Equipment Type	Furnace	
Fuel Type	Natural Gas	
Distribution Type	Forced Air	
Motor Type	ECM (Variable Speed)	
Heating Efficiency	92 AFUE	
Heating Capacity [kBtu/h]	56	
Use default EAE	No	
EAE [kWh]	245	

Distribution System	
Distribution Type	Forced Air
Heating Equipment	FURNACE 1
Cooling Equipment	A/C 1
Sq. Feet Served	1,000
# Return Grilles	8
Supply Duct R Value	0
Return Duct R Value	0
Supply Duct Area [ft²]	270
Return Duct Area [ft²]	250
Leakage to Outdoors	4 CFM @ 25Pa (0.4 / 100 ft²)
Total Leakage	87 CFM25
Total Leakage Duct Test Conditions	Rough-In, with Air Handler
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Conditioned Space
Percent Supply Area	100
Percent Return Area	100
Duct 2	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 3	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 4	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 5	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 6	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0

Property
1213 ABINGTON STATION DRIVE O'FALLON, IL 62269 Model: ALEXANDRIA Community: PARK BRIDGE STATION LOT 1

PARK BRIDGE STATION LOT 1

Organization Goley Insulation Chance Hagler

Builder CA JONES

Inspection Status Results are projected



HVAC Grading

HVAC Grading Not Conducted

Ceiling Fan

Has Ceiling Fan

No

Water Distribution

Water Fixture Type	Low-flow
Use Default Hot Water Pipe Length	No
Hot Water Pipe Length [ft]	46
At Least R3 Pipe Insulation?	No
Hot Water Recirculation System?	No
Drain Water Heat Recovery?	No

Clothes Dryer

Cef	3.01
Fuel Type	Electric
Field Utilization	Timer Controls
Is Outside Conditioned Space	No
Clothes Dryer Available	Yes
Defaults Type	HERS Reference

Clothes Washer

Label Energy Rating	262 kWh/Year
Annual Gas Cost	\$23.00
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Capacity	3.5
Imef	1.29
Defaults Type	Custom
Load Type	Front-load
Loads Per Week	6
Is Outside Conditioned Space	No
Clothes Washer Available	Yes

Property 1213 ABINGTON STATION DRIVE O'FALLON, IL 62269 Model: ALEXANDRIA Community: PARK BRIDGE STATION LOT 1

Organization Goley Insulation Chance Hagler

Builder CA JONES

Inspection Status Results are projected



PARK BRIDGE STATION LOT 1

Dishwasher	
Dishwasher Defaults Type	ENERGY STAR Standard
Dishwasher Size	Standard
Dishwasher Efficiency	270 kWh
Annual Gas Cost	\$22.23
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Is Outside Conditioned Space	No
Dishwasher Available	Yes

Appliances and Controls	
Programmable thermostat?	Yes
Range/Oven Fuel	Electric
Convection Oven?	No
Induction Range?	No
Range/Oven Outside Conditioned Space?	No
Refrigerator Consumption	714 kWh/Year
Refrigerator Outside Conditioned Space?	No

Notes

FACES: NORTH

Builder Affidavit

Property

1213 ABINGTON STATION DRIVE O'FALLON, IL 62269 Model: ALEXANDRIA

Community: PARK BRIDGE STATION LOT

PARK BRIDGE STATION LOT 1

Organization

Goley Insulation Chance Hagler

Builder CA JONES **Inspection Status**Results are projected



Important Notice to Builder

Builder affirms in this affidavit that all building characteristics described in the Building Summary Report accurately reflect this New Home. Builder agrees to allow the Home Energy Rating System (HERS) Provider and/or Rater to verify building characteristics of this New Home fully at the HERS Rater/Provider's discretion. The HERS Provider and Rater do not create or imply any duty or obligations to Builder or any subsequent owner. Builder is responsible for taking any actions necessary to protect Builder's interest. There is no quarantee or warranty whatsoever expressed or implied from the HERS Provider or Rater.

HERS® Index Score	e:49			
Builder Name: CA	JONES		Builder Signature:	
Name:	Chance Hagler	Signature:		
Organization:	Goley Insulation	Date:	6/17/24 at 10:29 AM	