



# ENERGY STAR<sup>®</sup> CERTIFIED NEW HOME

**Builder Name:** S A Rank LLC  
**Permit Date/Number:**  
**Home Address:** 3632 Wyandot St.  
**Denver, CO 80211**

**Rating Company:** GreenSpot Energy and Sustainable  
**Rater Identification Number:** 8653228  
**Rating Date:** 2019-1-11  
**Version:** 3.0

## Standard Features of an ENERGY STAR Certified New Home

Your ENERGY STAR certified new home has been designed, constructed, and independently verified to meet rigorous requirements for energy efficiency set by the U.S. Environmental Protection Agency (EPA), including:

### Thermal Enclosure System

A complete thermal enclosure system that includes comprehensive air sealing, quality-installed insulation and high-performing windows to deliver improved comfort and lower utility bills.



Air Infiltration Test: **Htg: 336 Clg: 336 CFM50**

Primary Insulation Levels:

**Ceiling: R\*-41.7**      **FndWall: R-10.0**  
**AGWall: R\*-32.6**      **Floor: R-30.0**

**Slab: R-0.0,**  
**Basement**

Primary Window Efficiency:  
**U-Value: 0.160, SHGC: 0.500**

### Water Management System

A comprehensive water management system to protect roofs, walls, and foundations.



Flashing, a drainage plane, and site grading to move water from the roof to the ground and then away from the home.

Water-resistant materials on below-grade walls and underneath slabs to reduce the potential for water entering into the home.

Management of moisture levels in building materials during construction.

### Heating, Cooling, and Ventilation System

A high-efficiency heating, cooling system, and ventilation system that is designed and installed for optimal performance.



Total Duct Leakage:  
**NA**

Duct Leakage to Outdoors:  
**NA**

Primary Heating (System Type • Fuel Type • Efficiency):  
**Electric, Htg: 10.3 HSPF. Clg: 20.0 SEER.**

Primary Cooling (System Type • Fuel Type • Efficiency):  
**Electric, Htg: 10.3 HSPF. Clg: 20.0 SEER.**

### Energy Efficient Lighting and Appliances

Energy efficient products to help reduce utility bills, while providing high-quality performance.



ENERGY STAR Qualified Lighting: **100%**

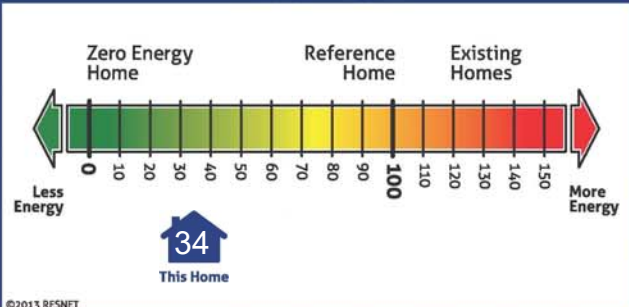
ENERGY STAR Qualified Appliances and Fans:

**Refrigerators: 1**      **Dishwashers: 1**  
**Ceiling Fans: 0**      **Exhaust Fans: 0**

Primary Water Heater (System Type • Fuel Type • Efficiency):

**Instant water heater, Electric, 0.99 EF, 0.0 Gal.**

### HERS<sup>®</sup> Index



The certificate provides a summary of the major energy efficiency and other construction features that contribute to this home earning the ENERGY STAR, including its Home Energy Rating System(HERS) score, as determined through independent inspection and verification performed by a trained professional. The Home Energy Rating System is a nationally-recognized uniform measurement of the energy efficiency of homes.

Note that when a home contains multiple performance levels for a particular feature (e.g., window efficiency or insulation levels), the predominant value is shown. Also, homes may be certified to earn the ENERGY STAR using a sampling protocol, whereby one home is randomly selected from a set of homes for representative inspections and testing. In such cases, the features found in each home within the set are intended to meet or exceed the values presented on this certificate. The actual values for your home may differ, but offer equivalent or better performance.

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Learn more at [www.energystar.gov/homefeatures](http://www.energystar.gov/homefeatures)

# ENERGY STAR v3.0 Home Verification Summary



<b>Property</b> Amina & Scott Rank 3632 Wyandot St. Denver, CO 80211	<b>Organization</b> GreenSpot Energy and Sustainab 303.394.0808 Melissa Baldrige	<b>HERS</b> Confirmed 2019-1-11 Rating No: GSES - RANK_No.1 Rater ID:8653228
<b>Weather:</b> Denver Intl AP, CO Tandem House GSES - HERS-LEED-E-STAR_Rank_3632	<b>Builder</b> S A Rank LLC	

Building Information		Rating	
Conditioned Area (sq ft)	2520	HERS Index	34
Conditioned Volume (cubic ft)	22050	HERS Index w/o PV	44
Insulated Shell Area (sq ft)	5465	HERS Index Target (SAF Adjusted)	69
Number of Bedrooms	4	HERS Index of Reference Design Home	69
Housing Type	Single-family detached	Size Adjustment Factor	1.00
Foundation Type	Conditioned basement		



This home MEETS OR EXCEEDS the EPA's requirements for an ENERGY STAR Home.  
HERS Index w/o PV <= HERS Index of Reference Design Home AND HERS Index <= HERS Index Target to comply.

## Building Shell

Ceiling w/Attic	10-1/4" SIP Pan R-40**0**** U=0.024	Window Type	U-0.16, SHGC 0.5**0****
Sealed Attic	None	Window	U-Value: 0.160, SHGC: 0.500
Vaulted Ceiling	None	Window/Wall Ratio	0.14
Above Grade Walls	SIP 6-1/2***0**** U=0.031	Infiltration Type	Blower door test
Found. Walls(Cond)	R-10 EXT, 2" Foambrd** R=10.0	Infiltration	Htg: 336 Clg: 336 CFM50
Found. Walls(Uncond)	None	Duct Leakage to Outside	NA
Floors	R-30*0**** U=0.034	Total Duct Leakage	NA
Slab Floors	R-10 Under Slab*0**** U=0.079		

## Mechanical Systems

ASHP	Htg: 53.5 kBtuh, 10.3 HSPF. Clg: 36.0 kBtuh, 20.0 SEER.
Water Heating	Instant water heater, Elec, 0.99 EF.
Programmable Thermostat	Heat=Yes; Cool=Yes
Ventilation System	Balanced: HRV, 70 cfm, 26.0 watts.

## Lights and Appliances

Percent Interior Lighting	100.00	Clothes Dryer Fuel	Electric
Percent Garage Lighting	100.00	Clothes Dryer CEF	4.50
Refrigerator (kWh/yr)	750.00	Clothes Washer LER	100.00
Dishwasher kWh/yr	269	Clothes Washer Capacity	4.30
Ceiling Fan (cfm/Watt):	419.00	Range/Oven Fuel	Electric

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