



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

ENERGY STAR

**Builder Name:** DH HOMES  
**Permit Date/Number:**  
**Home Address:** 118 Country Crossing Circle  
Magnolia, TX 77354

**Rating Company:** AAA ENERGY AUDITS  
**Rater Identification Number:** 4013351  
**Rating Date:** 5/7/2015  
**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: 1145 Clg: 1145 CFM50

**Primary Insulation Levels:**

**Ceiling:** R-38.0 w/RB

**AGWall:** R-13.0

**Slab:** R-0.0

**Primary Window Efficiency:**

**U-Value:** 0.330, **SHGC:** 0.230

### 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:**  
123.00 CFM25.

**Duct Leakage to Outdoors:**  
57.00 CFM25.

**Primary Heating (System Type • Fuel Type • Efficiency):**  
Fuel-fired air distribution, Natural gas, 90.0 AFUE.

**Primary Cooling (System Type • Fuel Type • Efficiency):**  
Air conditioner, Electric, 15.0 SEER.

### Energy Efficient Lighting and Appliances

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



**ENERGY STAR Qualified Lighting:** 70%

**ENERGY STAR Qualified Appliances and Fans:**

**Refrigerators:** 1

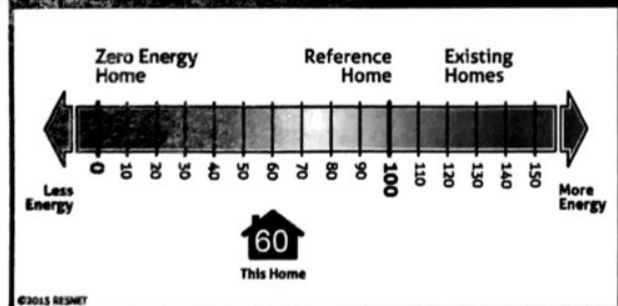
**Dishwashers:** 1

**Ceiling Fans:** 3

**Exhaust Fans:** 3

**Primary Water Heater (System Type • Fuel Type • Efficiency):**  
Conventional, Natural gas, 0.62 EF, 40.0 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 Report

**Property**  
 DH HOMES  
 118 Country Crossing Circle  
 Magnolia, TX 77354

**Organization**  
 AAA ENERGY AUDITS  
 281.961.2417  
 Anthony Mackey

**HERS**  
 Confirmed  
 5/7/2015  
 Rater ID:4013351

  
**AAA ENERGY AUDITS**  
 Email: aaa\_energy@hotmail.com  
 Phone: 281.961.2417

**Weather:**Conroe, TX  
 1965  
 118 Country Crossing Circle.blg

**Builder**  
 DH HOMES

## Normalized, Modified End-Use Loads (MMBtu/yr)

	ENERGY STAR	As Designed
Heating	17.5	10.7
Cooling	25.1	21.5
Water Heating	8.5	7.3
Lights and Appliances	20.0	19.0
<b>Total</b>	<b>71.1</b>	<b>58.5</b>

HERS Index of Reference Design Home	72	60 HERS Index w/o PV
HERS Index Target (SAF Adjusted)	72	60 HERS Index
Size Adjustment Factor	1.00	

## ENERGY STAR v3.0 Mandatory Requirements

X	Duct leakage at post construction better than or equal to ENERGY STAR v3.0 requirements.
X	Envelope insulation levels meet or exceed ENERGY STAR v3.0 requirements.
X	Slab on Grade Insulation must be > R-5, and at IECC 2009 Depth for Climate Zones 4 and above.
X	Envelope insulation achieves RESNET Grade I installation, or Grade II with insulated sheathing.
X	Windows meet the 2009 IECC Requirements - Table 402.1.1.
X	Duct insulation meets the EPA minimum requirements of R-6.
X	Mechanical ventilation system is installed in the home.
X	ENERGY STAR Checklists fully verified and complete.



This home **MEETS** or **EXCEEDS** the energy efficiency requirements for designation as an EPA ENERGY STAR Version 3 Qualified Home.

HERS Index w/o PV <= HERS Index of Reference Design Home AND HERS Index <= HERS Index Target to comply.

## Pollution Prevented

Type of Emissions	Reduction
Carbon Dioxide (CO2) - tons/yr	3.6
Sulfur Dioxide (SO2) - lbs/yr	8.2
Nitrogen Oxides (NOx) - lbs/yr	6.5

## Energy Cost Savings

	\$/yr
Heating	115
Cooling	159
Water Heating	14
Lights & Appliances	117
<b>Total</b>	<b>404</b>

The energy savings and pollution prevented are calculated by comparing the Rated Home to the ENERGY STAR Version 3 Reference Home as defined in the ENERGY STAR Qualified Homes HERS Index Target Procedure for National Program Requirements, Version 3.0 promulgated by the Environmental Protection Agency (EPA). In accordance with RESNET Mortgage Industry National Home Energy Rating Systems Standards, building inputs affecting setpoints infiltration rates, window shading and the existence of mechanical systems may have been changed prior to calculating loads.

REM/Rate - Residential Energy Analysis and Rating Software v14.5.1  
 This information does not constitute any warranty of energy cost or savings.  
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# ENERGY STAR v3.0 Home Verification Summary

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**Builder**  
 DH HOMES

## Building Information

Conditioned Area (sq ft)	1878
Conditioned Volume (cubic ft)	17085
Insulated Shell Area (sq ft)	5345
Number of Bedrooms	3
Housing Type	Single-family detached
Foundation Type	Slab

## Rating

HERS Index	60
HERS Index w/o PV	60
HERS Index Target (SAF Adjusted)	72
HERS Index of Reference Design Home	72
Size Adjustment Factor	1.00



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	R-38 Bown, Attic1*0***** U=0.027, with Barrier	Window Type	Dbl/LoE/Arg - Vinyl0*****
Sealed Attic	None	Window	U-Value: 0.330, SHGC: 0.230
Vaulted Ceiling	None	Window/Wall Ratio	0.14
Above Grade Walls	R-13*****0* U=0.083	Infiltration Type	Blower door test
Found. Walls(Cond)	None	Infiltration	Htg: 1145 Clg: 1145 CFM50
Found. Walls(Uncond)	None	Duct Leakage to Outside	57.00 CFM @ 25 Pascals
Floors	None	Total Duct Leakage	123.00 CFM @ 25 Pascals
Slab Floors	Uninsulated U=0.365		

## Mechanical Systems

Heating	Fuel-fired air distribution, 36.0 kBtuh, 90.0 AFUE.
Cooling	Air conditioner, 24.0 kBtuh, 15.0 SEER.
Water Heating	Conventional, Gas, 0.62 EF.
Programmable Thermostat	Heat=Yes; Cool=Yes
Ventilation System	Supply Only: 58 cfm, 15.0 watts.

## Lights and Appliances

Percent Interior Lighting	70.00	Clothes Dryer Fuel	Electric
Percent Garage Lighting	0.00	Clothes Dryer EF	3.01
Refrigerator (kWh/yr)	691.00	Clothes Washer LER	96.00
Dishwasher Energy Factor	0.76	Clothes Washer Capacity	3.81

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

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# CERTIFIED NEW HOME

**ENERGY STAR**

Address:

118 Country Crossing Circle  
Magnolia, TX

Built by:

DH HOMES

Verified by:

Anthony Mackey

Date:

5/7/2015

ENERGY STAR® for Homes Version Number:

Version 3.0

Optional information:

HERS Index: 60

This home has been independently verified to meet EPA's strict  
guidelines for energy efficiency.

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