





An ENERGY STAR® Qualified Home

This home built at

has been verified by GDS Associates, Inc, an independent professional or organization,
to meet or exceed strict energy efficiency guidelines
set by the U.S. Environmental Protection Agency.

HERS Index: 55

March 25, 2010

David Lee
Chief
ENERGY STAR Residential Branch

Sam Rashkin
National Director
ENERGY STAR for Homes

www.energystar.gov

RESRata - Residential Energy Analysis and Rating Software v12.82



GDS Associates, Inc.
Engineers and Consultants

ENERGY STAR HOME VERIFICATION SUMMARY

Date:	March 25, 2010	Rating No.:	GDS-PS-NH-ES-1514
Building Name:		Rating Org.:	GDS Associates, Inc
Owner's Name:		Phone No.:	
Property:		Rater's Name:	Jennifer Ferrante
Address:		Rater's No.:	GDS-002
Builder's Name:			
Weather Site:		Rating Type:	Verified Condition
File Name:	West End Rd - Final.blg	Rating Date:	March 25, 2010

Building Information

Conditioned Area (sq ft):	2738	Housing Type:	Single-family detached
Conditioned Volume (cubic ft):	24024	Foundation Type:	Conditioned basement
Insulated Shell Area (sq ft):	5218	HERS Index:	55 *****
Number of Bedrooms:	3		

Building Shell

Ceiling w/Attic:	None	Window/Wall Ratio:	0.16
Vaulted Ceiling:	R38,HDF,X-16,+2,C U=0.033	Window Type:	U:0.30, SHGC:0.29
Above Grade Walls:	EWP,6", <8000HDD,L U=0.110	Window U-Value:	0.300
Found. Walls (Cond):	R20, ICF R=20.0	Window SHGC:	0.290
Found. Walls (Uncond):	None	Infiltration:	Htg: 700 Clg: 700 CFM50
Frame Floors:	None	Measured Duct Leakage:	0.00 CFM25
Slab Floors:	R10P,R10U,24W,R U=0.046	Leakage to Outside:	0.00 CFM

Mechanical Systems

Heating:	Fuel-fired hydronic distribution, 102.0 kBtu/h, 80.0 % EFF.
Water Heating:	Integrated, Wood, 0.74 EF.
Programmable Thermostat:	Heat=No; Cool=No

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

This home **MEETS OR EXCEEDS** the EPA's requirements for an ENERGY STAR Home.



GDS Associates, Inc.
Engineers and Consultants

2005 EPACT ENERGY EFFICIENT HOME TAX CREDIT

Date:	March 25, 2010	Rating No.:	GDS-PS-NH-ES-1514
Building Name:		Rating Org.:	GDS Associates, Inc
Owner's Name:		Phone No.:	
Property:		Rater's Name:	Jennifer Ferrante
Address:		Rater's No.:	GDS-002
Builder's Name:			
Weather Site:		Rating Type:	Verified Condition
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Normalized, Modified End-Use Loads (MMBtu/year)

	2004 IECC	
	50% Target	As Designed
Heating:	40.3	30.8
Cooling:	8.9	7.5
Total:	49.2	38.3

Envelope Loads (MMBtu/year)

	2004 IECC	
	90% Target	As Designed
Heating:	72.6	55.0
Cooling:	16.0	9.3
Total:	88.6	64.3

This home MEETS the requirements for the residential energy efficiency tax credits under Section 1332, Credit for Construction of New Energy Efficient Homes, of the Energy Policy Act of 2005.

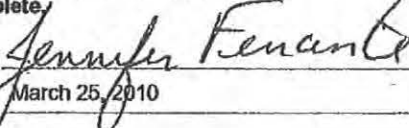
As demonstrated above, this dwelling unit has a projected level of annual heating and cooling energy consumption that is at least 50% below the annual level of heating cooling energy consumption of a reference dwelling in the same climate zone, and the building envelope components improvements alone account for at least 10% of those savings. The projected heating and cooling energy savings above have been calculated in the manner prescribed in Section 2.02 of Notice 2008-27 of the Internal Revenue Service. Field inspections of the dwelling unit performed by the undersigned 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 undersigned certifier.

Building Features

Ceiling Flat: NA	Slab: R-10.0 Edge, R-10.0 Under
Vaulted Ceiling: R-40	Duct: NA
Above Grade Walls: U-0.110, R-19	Window: U-Value = 0.300, SHGC = 0.290
Foundation Walls: R-20.0	Heating: Fuel-fired hydronic distribution, Wood, 80.0 % EFF.
Exposed Floor: NA	Cooling: N/A

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: Jennifer Ferrante
Company: GDS Associates, Inc
Address: 1181 Elm Street, Suite 205, Manchester, NH 03110

Signature: 
Date: March 25, 2010

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AIR LEAKAGE REPORT

Date: March 25, 2010 Rating No.: GDS-PS-NH-ES-1514

Building Name: Rating Org.: GDS Associates, Inc.
Owner's Name: Phone No.:
Property: Rater's Name: Jennifer Ferrante
Address: Rater's No.: GDS-002
Builder's Name:
Weather Site: Rating Type: Verified Condition
File Name: West End Rd - Final.blg Rating Date: March 25, 2010

Whole House Infiltration

	Blower door test	
	Heating	Cooling
Natural ACH:	0.13	0.09
ACH @ 50 Pascals:	1.75	1.75
CFM @ 25 Pascals:	446	446
CFM @ 50 Pascals:	700	700
Eff. Leakage Area:	38.4	38.4
Specific Leakage Area:	0.00010	0.00010
ELA/100 sf shell:	0.74	0.74

Total Duct Leakage to Outside

CFM @ 25 Pascals:	N/A
CFM25 / CFMfan:	N/A
CFM25 / CFA:	N/A
CFM per Std 152:	N/A
CFM per Std 152 / CFA:	N/A
CFM @ 50 Pascals:	N/A
Eff. Leakage Area:	N/A
Thermal Efficiency:	0.00

Ventilation

Mechanical:	Exhaust Only
Sensible Recovery Eff. (%):	0.0
Total Recovery Eff. (%):	0.0
Rate (cfm):	75
Hours/Day:	18.0
Fan Watts:	30.0
Cooling Ventilation:	Natural Ventilation

ASHRAE 62.2 - 2003 Ventilation Requirements

For this home to comply with ASHRAE Standard 62.2 - 2003 Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings, a minimum of 57 cfm of mechanical ventilation must be provided continuously, 24 hours per day. Alternatively, an intermittently operating mechanical ventilation system may be used if the ventilation rate is adjusted accordingly. For example, a 115 cfm mechanical ventilation system would need to operate 12 hours per day, as long as the system operates to provide required average ventilation once each hour.

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