
ACTION REPORT

Date:	March 26, 2008	Rating No.:	0320081
Building Name:	1_Sample	Rating Org.:	GRAJNY Consulting, LLC
Owner's Name:	Mr. Sample Residence	Phone No.:	518-221-3240
Property:	1 Sample Court	Rater's Name:	Stan Grajny, PE
Address:	Albany, NY 12210	Rater's No.:	R0071
Builder's Name:	Sample Builders, Inc.		
Weather Site:	Albany, NY	Rating Type:	Verified Condition
File Name:	1Sample_T.blg	Rating Date:	03/20/08

The following table identifies and ranks energy use and cost by building component. A maximum of six components are shown.

Current mechanical equipment is assumed for this analysis. To determine the impact of varying the equipment efficiency, change the equipment specified in the building file and perform the energy calculations again.

ANNUAL ENERGY PROFILE

Energy End-Use	Component	Consumption (MMBtu/yr)	Cost (\$/yr)
HEATING	Above Grade Walls	21.2	\$ 224
	Foundation Walls	18.7	\$ 197
	Mechanical Ventilation	12.9	\$ 136
	Ceilings/Roofs	10.9	\$ 115
	Infiltration	8.5	\$ 90
	Windows/Skylights	7.6	\$ 80
	Other	-13.4	\$ -141
	Total	66.5	\$ 701
COOLING	Internal Gains	5.2	\$ 154
	Windows/Skylights	1.1	\$ 32
	Ceilings/Roofs	0.1	\$ 2
	Other	-4.1	\$ -123
	Total	2.2	\$ 66
WATER HEATING	Water Heater	17.1	\$ 177
LIGHTS & APPLIANCES	Lights & Appliances	40.1	\$ 1200

AIR LEAKAGE REPORT

Date:	March 26, 2008	Rating No.:	0320081
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Whole House Infiltration

	Blower door test	
	Heating	Cooling
Natural ACH:	0.17	0.13
ACH @ 50 Pascals:	3.47	3.47
CFM @ 25 Pascals:	1180	1180
CFM @ 50 Pascals:	1851	1851
Eff. Leakage Area:	101.6	101.6
Specific Leakage Area:	0.00020	0.00020
ELA/100 sf shell:	1.33	1.33

Total Duct Leakage to Outside

CFM @ 25 Pascals:	28
CFM25 / CFMfan:	0.0189
CFM25 / CFA:	0.0080
CFM per Std 152:	12
CFM per Std 152 / CFA:	0.0034
CFM @ 50 Pascals:	45
Eff. Leakage Area:	2.45
Thermal Efficiency:	N/A

Ventilation

Mechanical:	Exhaust Only
Sensible Recovery Eff. (%):	0.0
Total Recovery Eff. (%):	0.0
Rate (cfm):	80
Hours/Day:	20.0
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 58 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 116 cfm mechanical ventilation system would need to operate 12 hours per day, as long as the system operates to provide required average ventilaton once each

ENERGY COST AND FEATURE REPORT

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1_Sample

ANNUAL ENERGY COSTS

Heating	\$	701
Cooling	\$	66
Water Heating	\$	177
Lights & Appliances	\$	1200
Photovoltaics	\$	-0
Service Charges	\$	356
Total	\$	2500
Average Monthly	\$	208

ENERGY FEATURES

Ceiling w/Attic:	R38,FG1,X-24 U=0.041
Vaulted Ceiling:	None
Above Grade Walls:	R19,FG1,6-16 U=0.063
Foundation Walls (Cond):	R-11 Draped-6 Ft R=11.0
Found. Walls (Uncond):	None
Doors:	Front-Custom-R-3.23 U=0.240
Windows:	And_0.34_0.30 U=0.340
Frame Floors:	None
Slab Floors:	Uninsulated U=0.285
Infiltration:	Htg: 1851 Clg: 1851 CFM50
Infil. Measure:	Blower door test
Mechanical Ventilation:	Exhaust Only: 80 cfm, 30.0 watts.
Interior Mass:	None
Mech Equip List:	Heating: Fuel-fired air distribution, 69.6 kBtuh, 92.8 AFUE. Water Heating: Conventional, Gas, 0.61 EF. Cooling: Air conditioner, 30.0 kBtuh, 13.0 SEER.
Programmable Thermostat:	Heat=Yes; Cool=Yes
Ducts:	Uninsulated Conditioned space

ENERGY COST AND FEATURE REPORT

1_Sample

Page 2

Duct Leakage:	12.00 CFM per Std 152
Lights/Appliances:	Defaults
Active Solar:	None
Photovoltaics:	None
Sunspace:	No

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

EQUIPMENT SIZING SUMMARY

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1_Sample

HEATING

Calculated Peak Load (kBtu/hr)	35.9
Oversize Factor (%)	100.0

HEATING EQUIPMENT CAPACITY (kBtu/hr)

Required	35.9
Specified	69.6

COOLING

Calculated Peak Load (kBtu/hr)	14.5
Sensible	11.9
Latent	2.6
Oversize Factor (%)	100.0

COOLING EQUIPMENT CAPACITY (kBtu/hr)

Required Total	14.5
Specified Total	30.0

Required Sensible	11.87
Specified Sensible	21.00

Required Latent	2.61
Specified Latent	9.00

Notes:

2005 EPACT ENERGY EFFICIENT HOME TAX CREDIT

Date:	March 26, 2008	Rating No.:	0320081
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Normalized, Modified End-Use Loads (MMBtu/year)

	<i>2004 IECC</i>	
	<i>50% Target</i>	<i>As Designed</i>
Heating:	39.9	37.2
Cooling:	9.6	6.1
Total:	49.5	43.3

Envelope Loads (MMBtu/year)

	<i>2004 IECC</i>	
	<i>90% Target</i>	<i>As Designed</i>
Heating:	71.8	59.8
Cooling:	17.3	7.1
Total:	89.1	66.8

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 2006-27 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 Shell Features

Ceiling Flat:	R-38	Slab:	R-0.0 Edge, R-0.0 Under
Vaulted Ceiling:	NA	Duct:	Uninsulated
Above Grade Walls:	R-18	Window:	U-Value = 0.340, SHGC = 0.300
Foundation Walls:	R-11.0	Heating:	Fuel-fired air distribution, Natural gas, 92.8 AFUE.
Exposed Floor:	NA	Cooling:	Air conditioner, Electric, 13.0 SEER.

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: _____	Signature: _____
Company: _____	Date: _____
Address: _____	



ENERGY STAR HOME REPORT

Date: March 26, 2008 Rating No.: 0320081
Building Name: 1_Sample Rating Org.: GRAJNY Consulting, LLC
Owner's Name: Mr. Sample Residence Phone No.: 518-221-3240
Property: 1 Sample Court Rater's Name: Stan Grajny, PE
Address: Albany, NY 12210 Rater's No.: R0071
Builder's Name: Sample Builders, Inc.
Weather Site: Albany, NY Rating Type: Verified Condition
File Name: 1Sample_T.blg Rating Date: 03/20/08

Normalized, Modified End-Use Loads (MMBtu/year)

	ENERGY STAR	As Designed
Heating:	63.8	37.2
Cooling:	15.4	6.1
Water heating:	8.3	9.7
Lighting & Appliances:	33.0	39.9
Total:	120.4	92.9
HERS Index:	80	62
NY HERS Score:	84.0	87.6

ENERGY STAR Mandatory Requirements

- | | |
|---|--|
| <input checked="" type="checkbox"/> Thermal Bypass Inspection Checklist * | <input checked="" type="checkbox"/> ENERGY STAR Products * |
| <input checked="" type="checkbox"/> Ductwork Requirements | <input checked="" type="checkbox"/> ENERGY STAR Scoring Exceptions |

* Thermal Bypass Checklist and ENERGY STAR Products are not checked in REM/Rate at this time.

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

Pollution Prevented		Energy Cost Savings (\$/year)	
Type of Emissions	Reduction (lb/year)		
Carbon Dioxide (CO ₂)	9522.7	Heating:	\$630
Sulfur Dioxide (SO ₂)	8.6	Cooling:	\$132
Nitrogen Oxides (NO _x)	13.5	Water Heating:	\$7
		Lights & Appliances:	\$37
		Total:	\$806

The energy savings and pollution prevented are calculated by comparing the Rated Home to the Reference Home as defined in the "Mortgage Industry National Home Energy Rating Systems Standards" as promulgated by the Residential Energy Services Network (RESNET). In accordance with these guidelines, 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 v12.43 New York

This information does not constitute any warranty of energy cost or savings.
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ENERGY STAR REQUIREMENTS

Thermal Bypass Inspection Checklist

Home Address: 1 Sample Court		City: Albany		State: NY	
Thermal Bypass	Inspection Guidelines	Corrections Needed	Builder Verified	Rater Verified	NA
1. Overall Air Barrier and Thermal Barrier Alignment	Requirements: Insulation shall be installed in full contact with sealed interior and exterior air barrier except for alternate to interior air barrier under item no. 2 (Walls Adjoining Exterior Walls or Unconditioned Spaces)				
	All Climate Zones:				
	1.1 Overall alignment throughout home	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	1.2 Garage band joist air barrier (at bays adjoining conditioned space)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	1.3 Attic eave baffles where vents/leakage exist	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Only at Climate Zones 4 and Higher				
	1.4 Slab-edge insulation (A maximum of 25% of the slab edge may be uninsulated in Climate Zones 4 and 5.)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Best Practices Encouraged, Not Required				
1.5 Air barrier at all band joists (Climate Zones 4 and higher)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.6 Minimize thermal bridging (e.g., OVE framing, SIPs, ICFs)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Walls Adjoining Exterior Walls or Unconditioned Spaces	Requirements: <ul style="list-style-type: none"> ▫ Fully insulated wall aligned with air barrier at both interior and exterior, OR ▫ Alternate for Climate Zones 1 thru 3, sealed exterior air barrier aligned with RESNET Grade 1 insulation fully supported ▫ Continuous top and bottom plates or sealed blocking 				
	2.1 Wall Behind Shower/Tub	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2.2 Wall Behind Fireplace	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	2.3 Insulated Attic Slopes/Walls	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2.4 Attic Knee Walls	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2.5 Skylight Shaft Walls	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2.6 Wall Adjoining Porch Roof	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2.7 Staircase Walls	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2.8 Double Walls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Floors between Conditioned and Exterior Spaces	Requirements: <ul style="list-style-type: none"> ▫ Air barrier is installed at any exposed insulation edges ▫ Insulation is installed to maintain permanent contact with sub-floor above ▫ Optional until July 1, 2008, insulation is installed to maintain permanent contact with air barrier below 				
	3.1 Insulated Floor Above Garage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	3.2 Cantilevered Floor	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Shafts	Requirements: Openings to unconditioned space are fully sealed with solid blocking or flashing and any remaining gaps are sealed with caulk or foam (provide fire-rated collars and caulking where required)				
	4.1 Duct Shaft	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	4.2 Piping Shaft/Penetrations	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.3 Flue Shaft	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Attic/ Ceiling Interface	Requirements: <ul style="list-style-type: none"> ▫ All attic penetrations and dropped ceilings include a full interior air barrier aligned with insulation with any gaps fully sealed with caulk, foam or tape ▫ Movable insulation fits snug in opening and air barrier is fully gasketed 				
	5.1 Attic Access Panel (fully gasketed and insulated)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	5.2 Attic Drop-down Stair (fully gasketed and insulated)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	5.3 Dropped Ceiling/Soffit (full air barrier aligned with insulation)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	5.4 Recessed Lighting Fixtures (ICAT labeled and sealed to drywall)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.5 Whole-house Fan (insulated cover gasketed to the opening)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Common Walls Between Dwelling Units	Requirements: Gap btwn drywall shaft wall(common wall) and the structural framing btwn units is sealed at all exterior boundary conditions				
	6.1 Common Wall Between Dwelling Units	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rater Inspection Date: 03/20/08		Builder Inspection Date:			
Home Energy Rating Provider: Stan Grajny, PE		Builder Company Name: Sample Builders, Inc.			
Home Energy Rating Company: GRAJNY Consulting, LLC		Builder Division Name:			
Home Energy Rating Signature:		Builder Employee Signature:			



ENERGY STAR REQUIREMENTS Products Checklist

Home Address: 1 Sample Court	City: Albany	State: NY
Product		Verified
1. Heating or Cooling Equipment		YES
2. Windows		YES
3. Appliances		YES
4. Light Fixtures		YES
5. Ceiling Fan		NO
6. Ventilation Fans		YES

Rater Inspection Date: 03/20/08	Builder Inspection Date:
Home Energy Rating Provider: Stan Grajny, PE	Builder Company Name: Sample Builders, Inc.
Home Energy Rating Company: GRAJNY Consulting, LLC	Builder Division Name:
Home Energy Rating Signature:	Builder Employee Signature:

2006 IECC ANNUAL ENERGY COST COMPLIANCE

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Annual Energy Cost

	2006 IECC	As Designed
Heating:	1105	706
Cooling:	85	66
Water Heating:	186	177
Lights & Appliances:	1201	1197
Photovoltaics:	-0	-0
Service Charge:	356	356
Total:	2932	2501 *
Window U-Value Check (per Section 402.6)		
Window U-Value (Design must be lower):	0.480	0.340

This home MEETS the annual energy cost requirements in accordance with Section 404 of the 2006 International Energy Conservation Code based on a climate zone of 5A. In fact, this home surpasses the requirements by 14.7%.

* Design energy cost is based on the following systems:

Heating: Fuel-fired air distribution, 69.6 kBtuh, 92.8 AFUE.
Water Heating: Conventional, Gas, 0.61 EF.
Cooling: Air conditioner, 30.0 kBtuh, 13.0 SEER.
Window-to-Wall Area Ratio: 0.09
Blower door test: Htg: 1851 Clg: 1851 CFM50

In accordance with IECC, building inputs, such as setpoints, infiltration rates, and window shading may have been changed prior to calculating annual energy cost. Furthermore, the standard reference design HVAC system efficiencies are set to the "prevailing federal minimum standards" as of January, 2006. These standards are subject to change, and software updates should be obtained periodically to ensure the compliance calculations reflect current federal minimum standards.

ECCC of NEW YORK ANNUAL ENERGY CONSUMPTION COMPLIANCE

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Annual Energy Consumption (MMBtu)

	ECCC of NY	As Designed
Heating:	100.8	77.6
Cooling:	7.1	1.7
Water Heating:	19.9	17.1
Lights and Appliances:	39.3	40.1
Photovoltaics:	-0.0	-0.0
Total:	167.2	136.5 *

This home MEETS the annual energy consumption requirements of Section 402 of the Energy Conservation Construction Code of New York based on 6929 heating degree-days. In fact, this home surpasses the requirements by 18.4%.

* Design consumption is based on the following:
Heating: Fuel-fired air distribution, 69.6 kBtuh, 92.8 AFUE.
Water Heating: Conventional, Gas, 0.61 EF.
Cooling: Air conditioner, 30.0 kBtuh, 13.0 SEER.
Window-to-Wall Area Ratio: 0.09
Blower door test: Htg: 1851 Clg: 1851 CFM50

In accordance with the IECC, building inputs such as setpoints, infiltration rates, and window shading may have been changed prior to calculating annual energy consumption.

This report was generated using SEER 13 in the IECC Standard Design.

RESNET HOME ENERGY RATING Standard Disclosure

For home located at: 1 Sample Court

City: Albany

State: NY

1. The Rater or the Rater's employer is receiving a fee for providing the rating on this home.
2. In addition to the rating, the Rater or Rater's employer has also provided the following consulting services for this home:
- A. Mechanical system design
 - B. Moisture control or indoor air quality consulting
 - C. Performance testing and/or commissioning other than required for the rating itself
 - D. Training for sales or construction personnel
 - E. Other (specify below)

3. The Rater or Rater's employer is:
- A. The seller of this home or their agent
 - B. The mortgagor for some portion of the financed payments on this home
 - C. An employee, contractor or consultant of the electric and/or natural gas utility serving this home

4. The Rater or Rater's employer is a supplier or installer of products, which may include:

	Installed in this home by:		OR	Is in the business of:	
HVAC systems	<input type="checkbox"/> Rater	<input type="checkbox"/> Employer		<input type="checkbox"/> Rater	<input type="checkbox"/> Employer
Thermal insulation systems	<input type="checkbox"/> Rater	<input type="checkbox"/> Employer		<input type="checkbox"/> Rater	<input type="checkbox"/> Employer
Air sealing of envelope or duct systems	<input type="checkbox"/> Rater	<input type="checkbox"/> Employer		<input type="checkbox"/> Rater	<input type="checkbox"/> Employer
Windows or window shading systems	<input type="checkbox"/> Rater	<input type="checkbox"/> Employer		<input type="checkbox"/> Rater	<input type="checkbox"/> Employer
Energy efficient appliances	<input type="checkbox"/> Rater	<input type="checkbox"/> Employer		<input type="checkbox"/> Rater	<input type="checkbox"/> Employer
Construction (builder, developer, construction contractor, etc.)	<input type="checkbox"/> Rater	<input type="checkbox"/> Employer		<input type="checkbox"/> Rater	<input type="checkbox"/> Employer
Other (specify below):	<input type="checkbox"/> Rater	<input type="checkbox"/> Employer		<input type="checkbox"/> Rater	<input type="checkbox"/> Employer

Stan Grajny, PE

Rater's Printed Name

R0071

Certification #

March 26, 2008

Rater's Signature

Date

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 National Home 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 4.C.8 of the standard and are posted at <http://www.natresnet.org/accred/standards.pdf>.

RESNET Form 03001-1