



ENERGY COST AND FEATURE REPORT

Date:	August 06, 2009	Rating No.:	CL090730DELAFLEUR
Building Name:	DE LA FLEUR HOME	Rating Org.:	GREEN DREAM GROUP, LLC
Owner's Name:	MARCUS DE LA FLEUR	Phone No.:	773.271.5310
Property:	3141 W. 15th St.	Rater's Name:	CORBETT LUNSFORD
Address:	CHICAGO, IL 60623	Rater's No.:	CL1040
Builder's Name:	SELF		
Weather Site:	Chicago, IL	Rating Type:	Projected Rating
File Name:	DELAFLEUR.blg	Rating Date:	07/30/2009

DE LA FLEUR HOME

ANNUAL ENERGY COSTS

Heating	\$	622
Cooling	\$	0
Water Heating	\$	0
Lights & Appliances	\$	1343
Photovoltaics	\$	-189
Service Charges	\$	264
Total	\$	2040
Average Monthly	\$	170

ENERGY FEATURES

Ceiling w/Attic:	None
Vaulted Ceiling:	R-52 Foam INT. U=0.020
Above Grade Walls:	R-21, R-10 CONT. U=0.043
Foundation Walls (Cond):	R-21, R-10 CONT INT R=21.0
Found. Walls (Uncond):	None
Doors:	Steel-urth w/brk U=0.187
Windows:	Dbl/LoE/Argon-Wood+ U=0.250
Frame Floors:	None
Slab Floors:	R-5 Under Slab U=0.087
Infiltration:	Htg: 0.20 Clg: 0.20 ACHnat
Infilt. Measure:	Blower door test
Mechanical Ventilation:	Balanced: ERV, 300 cfm, 250.0 watts.
Interior Mass:	None
Mech Equip List:	Heating: Fuel-fired hydronic distribution, 60.0 kBtuh, 90.0 AFUE.
	Water Heating: Conventional, Gas, 0.63 EF.
Programmable Thermostat:	Heat=Yes; Cool=Yes

REM/Rate - Residential Energy Analysis and Rating Software v12.61

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Ducts:	NA
Duct Leakage:	NA
Lights/Appliances:	Defaults
Active Solar:	DHW & space heating
Photovoltaics:	2000 DC Watts
Sunspace:	Yes

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



EQUIPMENT SIZING SUMMARY

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HEATING

Calculated Peak Load (kBtu/hr)	53.2
Sizing Factor (%)	100.0

HEATING EQUIPMENT CAPACITY (kBtu/hr)

Required	53.2
Specified	60.0

COOLING

Calculated Peak Load (kBtu/hr)	0.0
Sensible	0.0
Latent	0.0
Sizing Factor (%)	0.0

COOLING EQUIPMENT CAPACITY (kBtu/hr)

Required Total	0.0
Specified Total	0.0

Required Sensible	0.00
Specified Sensible	0.00

Required Latent	0.00
Specified Latent	0.00



PERFORMANCE SUMMARY

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Annual Load (MMBtu/yr)

Heating	63.1
Cooling	0.0
Water Heating	0.0

Annual Consumption (MMBtu/yr)

Heating	70.7
Cooling	0.0
Water Heating	0.0
Lights & Appliances	57.3
Photovoltaics	-8.1
Total	119.9

Annual Energy Cost (\$/yr)

Heating	\$ 622
Cooling	\$ 0
Water Heating	\$ 0
Lights & Appliances	\$ 1343
Photovoltaics	\$ -189
Service Charges	\$ 264
Total	\$ 2040

Design Loads (kBtu/hr)

Space Heating	53.2
Space Cooling	0.0

Utility Rates:

Electricity:	CHICAGO ELECTRIC
Gas:	CHICAGO GAS



COMPONENT LOAD SUMMARY

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DE LA FLEUR HOME

HEATING SEASON (MMBtu/yr)

Ceilings/Roofs	5.9
Rim/Band Joists	3.4
Above Grade Walls	21.2
Foundation Walls	9.2
Doors	2.9
Windows/Skylights	9.7
Frame Floors	0.0
Crawl Space/Unht Bsmt	0.0
Slab Floors	5.6
Infiltration	28.8
Mechanical Ventilation	2.5
Ducts	0.0
Active Solar	-7.1
Sunspace	6.7
Internal Gains	-25.5
Total	63.1

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FUEL SUMMARY

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Annual Energy Cost (\$/yr)

Natural gas	\$	609
Electric	\$	1167

Annual End-Use Cost (\$/yr)

Heating	\$	622
Cooling	\$	0
Water Heating	\$	0
Lights & Appliances	\$	1343
Photovoltaics	\$	-189
Service Charges	\$	264
Total	\$	2040

Annual End-Use Consumption

Heating (Therms)	701
Heating (kWh)	168
Lights & Appliances (kWh)	16786
Photovoltaics (kWh)	-2364

Annual Energy Demands (kW)

Heating	0.1
Cooling	0.0
Water Heating (Winter Peak)	0.0
Water Heating (Summer Peak)	0.0
Lights & Appliances (Winter Peak)	1.4
Lights & Appliances (Summer Peak)	3.0
Total Winter Peak	1.5
Total Summer Peak	3.0



AIR LEAKAGE REPORT

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Whole House Infiltration	Blower door test	
	<i>Heating</i>	<i>Cooling</i>
Natural ACH:	0.20	0.20
ACH @ 50 Pascals:	3.03	4.06
CFM @ 25 Pascals:	1668	2239
CFM @ 50 Pascals:	2618	3513
Eff. Leakage Area:	143.7	192.9
Specific Leakage Area:	0.00018	0.00024
ELA/100 sf shell:	1.38	1.86

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:	Balanced
Sensible Recovery Eff. (%):	95.0
Total Recovery Eff. (%):	95.0
Rate (cfm):	300
Hours/Day:	24.0
Fan Watts:	250.0
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 94 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 188 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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