



Blower door test

## AIR LEAKAGE REPORT

Date: July 27, 2010 Rating No.: 71-1077

Building Name: Spear Residence Rating Org.: NEC

Owner's Name:Mary SpearPhone No.:651-221-4462Property:40790 Waring RDRater's Name:Jimmie Sparks

Address: St Peter, MN 56082 Rater's No.: 7

Builder's Name: L. Swenson Const.

Weather Site: Rochester, MN Rating Type: Confirmed Rating

File Name: 71-1077.blg Rating Date: 6/16/10

#### Whole House Infiltration

	Diowei door test					
	Heating	Cooling				
Natural ACH:	0.04	0.03				
ACH @ 50 Pascals:	0.74	0.74				
CFM @ 25 Pascals:	232	232				
CFM @ 50 Pascals:	364	364				
Eff. Leakage Area:	20.0	20.0				
Specific Leakage Area:	0.00005	0.00005				
ELA/100 sf shell:	0.27	0.27				

## **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. (%):	84.0
Total Recovery Eff. (%):	44.0
Rate (cfm):	150
Hours/Day:	12.0
Fan Watts:	200.0
Cooling Ventilation:	Natural Ventilation

## ASHRAE 62.2 - 2007 Ventilation Requirements

For this home to comply with ASHRAE Standard 62.2 - 2007 Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings, a minimum of 52 cfm of mechanical ventilation must be provided continuously, 24 hours per day. Alternatively, an intern operating mechanical ventilation system may be used if the ventilation rate is adjusted accordingly. For example, a 103 cfm mecha ventilation system would need to operate 12 hours per day, as long as the system operates to provide required average ventilation each hour.



St Peter, MN 56082



## 5 Stars Plus Confirmed Rating

#### **Uniform Energy Rating System**

## **Energy Efficient**

1 Star	1 Star Plus	2 Stars	2 Stars Plus	38	tars	3°S	tar	s Plus	4 Sta	ırs	4 Stars Plus	s/  \	5 Stars	5 9	tar	s Plus
500-401	400-301	300-251	250-201	200	-151	A:	50 <del>\</del>	101	100-	91	90-86 /	$ \sqrt{} $	85-71	70	) or	Less
HERS Inc	dex:	42				,				J	//					
General	Information					,				\	/_		7 /			J
	Conditioned	d Area:	2912 sq. ft.				/	H	louseTy	pè;	Single-fa	amil	y detach	ned		
	Conditioned Vo	olume:	29577 cubic ft.			//	/	_ <i>\F</i>	oundati	o'n:	More tha	an o	ne type	ر ا		<u> </u>

Bedrooms: 2

### **Mechanical Systems Features**

Integrated Htg/DHW: Electric, Htg eff 0.99 CAafue. DHW eff 0.91 CAef.

Duct Leakage to Outside: NA

Ventilation System: Balanced: ERV, 150 cfm, 200.0 watts.

Programmable Thermostat: Heating: Yes Cooling: No

**Building Shell Features** 

Ceiling Flat: NA Exposed Floor: NA

Vaulted Ceiling: U-0.021w/RB Window Type: NFRC .23 / .40

Above Grade Walls: U-0.049 Infiltration:

Foundation Walls: R-31.0 Rate: Htg: 364 Clg: 364 CFM50

Slab: R-10.0 Edge, R-15.0 Under Method: Blower door test

**Lights and Appliance Features** 

Percent Fluorescent Pin-Based: 30.00 Clothes Dryer Fuel: Electric
Percent Fluorescent CFL: 70.00 Range/Oven Fuel: Electric
Refrigerator (kWh/yr): 285.00 Ceiling Fan (cfm/Watt): 70.40

Dishwasher Energy Factor: 0.46

The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

#### REM/Rate - Residential Energy Analysis and Rating Software v12.85

This information does not constitute any warranty of energy cost or savings. © 1985-2010 Architectural Energy Corporation, Boulder, Colorado.

Rating Number: 71-1077

Certified Energy Rater: Jimmie Sparks

Rating Date: 6/16/10
Rating Ordered For: Mary Spear

### **Estimated Annual Energy Cost**

## Confirmed Rating

Use	MMBtu	Cost	Percent
Heating	15.1	\$336	31%
Cooling	0	\$0	0%
Hot Water	0.0	\$0	0%
Lights/Appliances	28.7	\$662	60%
Photovoltaics	-0.0	\$-0	-0%
Service Charges		\$102	9%
Total		\$1100	100%

# This home meets or exceeds the minimum criteria for all of the following:

**EPA ENERGY STAR Home** 

2006 International Energy Conservation Code

#### **Neighborhood Energy Connection**

624 Selby Ave St Paul, MN 55104 Phone # 651-221-4462 Fax # 651-221-9831

Certified Energy Rater