



Home Star Iowa
6122 Forest Meadow Ct NE
Cedar Rapids, IA 52411
Phone (319) 244-8564
Rob@HomeStarIowa.com | www.HomeStarIowa.com

DATE February 3, 2015

Sandra Schneider
13871 Elk Run Dr
West Burlington, Iowa 52655

Make all checks payable to Home Star Iowa
If you have any questions concerning this invoice, contact Rob Novak | (319) 244-8564 | Rob@HomeStarIowa.org

THANK YOU FOR YOUR BUSINESS!



Sandra Schneider <sjschneider7@gmail.com>

13871 Elk Run

3 messages

Rob Novak <rob@homestariowa.com>
To: sjschneider7@gmail.com

Wed, Feb 4, 2015 at 7:29 AM

Hi Sandra,

It was really nice meeting you.

After measuring the air flows of your home, I found it to be depressurized. This is common with a super insulated home such as yours. This can be a dangerous situation, as you found out with your fireplace backdrafting into the home. My recommendations will eliminate this dangerous situation and improve the indoor air quality.

1. According to the most widely accepted ventilation standard (ASHRAE 62.2 2013) your home needs at least 111 CFM of fresh air continuously 24 hours a day. The best way to accomplish this for your home is to install supply ventilation ducted directly into your heating and cooling system. This will prevent your home from being depressurized and provide fresh air for the occupants. [AirCycler® FRV Furnace Fan Timer with a motorized fresh air damper](#) is a great option. The exact brand is not important, several companies make devices like this that operate the same way. Check with your heating contractor for their preferred brand.

2. Your fireplace is currently pulling its combustion air from inside and further depressurizing the home. It is really important that this gets extended to the outside.



I've attached a couple of documents to this email. The required ventilation PDF confirms the need for fresh air. The action report PDF estimates your current utilities. The home humidity settings PDF can be used as your guide to control the humidity in your home.

Please let me know if you have any questions.
Thanks!
Rob

Rob Novak
(319) 244-8564
www.HomeStarIowa.com



3 attachments

 **Required Ventilation.pdf**
2K

 **Action Report.pdf**
14K

 **Home Humidity Settings.pdf**
113K

Rob Novak <rob@homestariowa.com>
To: Sandra Schneider <sjschneider7@gmail.com>

Fri, Feb 6, 2015 at 8:22 AM

Hi Sandra,

We really appreciate your feedback as you know reviews are essential to small business. If you wouldn't mind sharing your feedback please reply to this email. Let us know how your service was and how we can better service you!

Thanks!
Rob

Rob Novak
(319) 244-8564
www.HomeStarIowa.com



[Quoted text hidden]

Sandra Schneider <sjschneider7@gmail.com>
To: Rob Novak <rob@homestariowa.com>, Sandra Schneider <sjschneider7@gmail.com>

Fri, Feb 6, 2015 at 2:05 PM

Mr. Novak:

Your services were great and more than I expected. I do have some questions related to the report you sent. I will follow up with you regarding those questions in a few days.

Sandra Schneider
[Quoted text hidden]

ASHRAE 62.2 2013

Project Name: Sandra Schneider
Project Address: 13871 Elk Run Dr
Project City: West Burlington
Project State: Iowa
Project Zip: 52655

Floor area: 4216.0 Square feet
of Bedrooms: 4
Combustion CFM Threshold: 632.40 CFM

(If the sum of highest flow rate of the two largest fans exceeds this number, make-up air must be supplied to any atmospherically vented appliance.)

Closest Weather Station: Burlington Municipal AP
Calculated N Factor: 26

Blower Door(CFM50): 1378.0
ACH50: 2.45
ACHn: 0.09

Whole Building CFM Required:

New Home

111.0

(New homes Local Exhaust ventilation must be added)

Auditor: Rob Novak
Phone: (319) 244-8564
Website: www.HomeStarIowa.com
Email: Rob@HomeStarIowa.com

ACTION REPORT

Date: February 03, 2015

Rating No.:

Building Name: Schneider

Rating Org.: Home Star Iowa

Owner's Name: Sandra Schneider

Phone No.: (319) 244-8564

Property: 13871 Elk Run Dr

Rater's Name: Rob Novak

Address: West Burlington, IA 52655

Rater's No.: 1776865

Builder's Name:

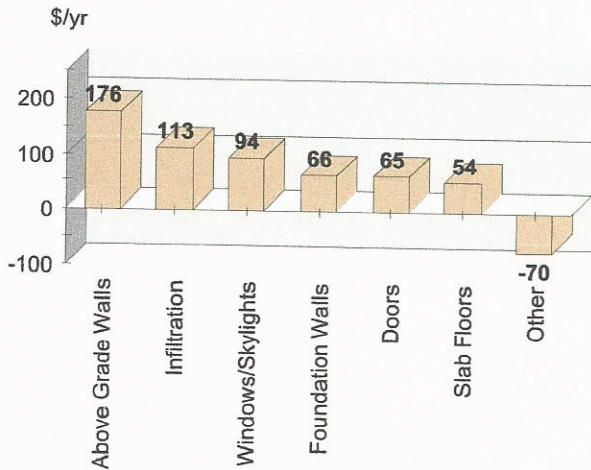
Weather Site: Des Moines, IA

Rating Type: Confirmed

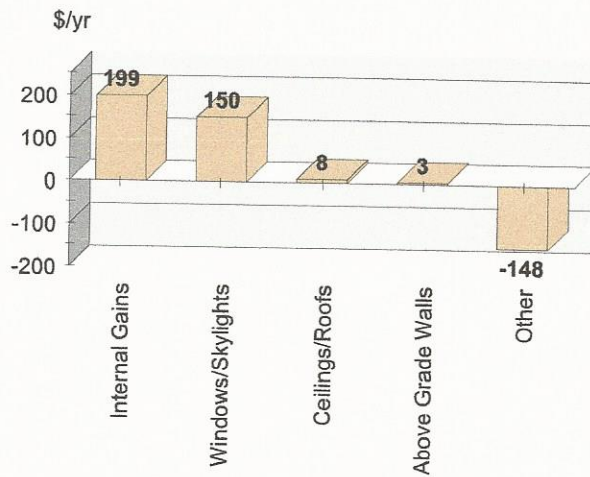
File Name: 13871 Elk Run Dr.blg

Rating Date: 02/03/15

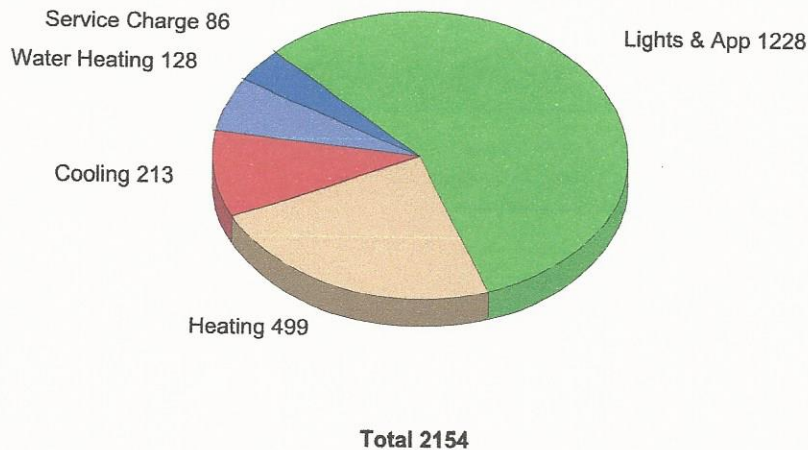
Heating Cost (\$/yr)



Cooling Cost (\$/yr)



Annual Energy Cost (\$/yr)





Home Humidity Settings

Use a [digital hygrometer](#) to keep track of your indoor humidity.

Outside Air Overnight Low Temperature	Indoor Relative Humidity at 70 F Indoor Temperature
-20 degrees F or below	not over 15 percent humidity
-20 degrees F to -10	not over 20 percent humidity
-10 degrees F to 0	not over 25 percent humidity
0 degrees F to 10	not over 30 percent humidity
10 degrees F to 20	not over 35 percent humidity
20 degrees F to 40	not over 40 percent humidity
40 degrees and up	not over 60 percent humidity

As an example, if the outdoor overnight low temperature is between zero and 10°F the indoor humidity should not be over 30%