

Home Performance with ENERGY STAR® Evaluation Report

Customer Information

Customer Name: Customer
Address of Building: Home Address
City: _____ State: _____ Zip: _____
Phone: _____ Fax: _____

Date of Evaluation: November 12, 2007
Consultant Name: Name of Rater
Company Phone: 888-451-4092



Home Owner Concerns and Major Issues:

- Floors are cold
- North East Bedroom is cold
- Front door leaks

Summary of Recommendations:

Revised 11/16/2007

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- ✓ Install new weather stripping on windows and doors
- ✓ Insulate box sills and floor overhangs with spray foam
- ✓ Replace furnace with 92% AFUE or higher
- ✓ Air seal around penetrations in attic and install missing insulation

Moisture and Ventilation Tests:

Exhaust Fan Output Evaluations

The Exhaust Fan Flow test measures the output of your exhaust fan to remove moisture from your house.

Location	Measured Fan Output	Fan Watts
Lower Hall Bath	34 CFM	?
Master Bath	51 CFM	?
Upper Hall Bath	23 CFM	?

Comments:

Recommended running exhaust fans to maintain a winter time indoor humidity level of 20% to 40%. Upper hall exhaust fan had a stuck damper during the time of the test. Recommend cleaning or replacing with a low sone fan. The exhaust fan in the Master Bathroom has a damper that doesn't close. This will cause significant heat loss and comfort issues in the winter. Recommend repair or place damper.

Blower Door Test

This test measures the air infiltration rate of your home and helps identify leaks in the building shell.

TEST/CALCULATION	RESULTS
CFM50	3000 CFM
Targeted Air Flow at CFM50	2000 CFM

Comments:

There are significant air leaks around plumbing penetrations from the basement to the attic. Sealing these will help reduce air infiltration into the home. There are significant air leaks around the box sill area and the top of the foundation Wall. Would recommend spray foaming box sill and top of the block foundation. Would also recommend spray foaming the floor overhang in the rear of the house. The windows are old single pain and are very leaky would recommend replacing them with new ENERGY STAR windows. For the short term fix, install new weather stripping on sashes to reduce air infiltration.



Building Shell Evaluation:

Insulation

The exterior walls appear to have adequate insulation in them when viewed through an infrared camera. The attic insulation around the access openings needs to be re-blown, also recommend insulating and installing weather stripping around attic access door.



Foundation

Crawl space walls have been partially insulated. Recommend installing missing foam insulation. Basement walls have no insulation. Adding interior wall insulation will help reduce heat loss.



Mechanicals:

Furnace

The furnace is 27 years old and is near the end of its service life. Would recommend replacing with an energy efficient model.

Air Conditioner

The condensing unit appears to be 8 to 10 years old and is considered adequate for its age.

Water Heater

The unit appears newer and has marginal draft when all exhausting appliances are on under closed house conditions. Caution should be taken during the winter months when under this condition. The chimney will need to have a liner installed if the furnace is ever replaced. This will help insure proper draft for the unit. **A CO detector should be installed on all floors with a bedroom**

Comments:

See Improvement Analysis Report (attached) for energy savings potential for additional attic insulation, reduced air infiltration and for installing energy efficient furnace.

Rewards

Our program offers rewards for the completed energy savings work.

- Attic Insulation \$100.00
- Air Leakage Reduction \$ 75.00
(400cfm or greater)
- Box Sill Insulation \$ 50.00
- Chimney Liner \$ 75.00
- Interior Foundation Insulation \$200.00
- Floor Insulation (2' overhang) \$ 75.00



Should you decide to complete any recommend improvement I will return for follow up inspection at no additional cost. At which time I will complete the reward paper work. Please save copies of all invoices